

BOTANY SECTION Compiled by Richard E. Weaver, Jr., Ph.D.

For this period, 127 specimens were submitted to the Botany Section for identification, and 1,002 were received from other sections for identification/name verification for a total of 1,129. Also during this period, 33 specimens were added to the herbarium. Some of the samples sent in for identification are discussed below.

Aspidistra elatior Blume. (A genus of ca. ten species native to temperate eastern Asia).

Liliaceae (or Convallariaceae). **Cast iron plant.** This Chinese native was extremely popular as a houseplant during the 19th Century, particularly in Victorian England. Its common name is derived from the fact that it is a very durable plant, surviving and even thriving under difficult household conditions such as low light, dry air and infrequent watering. The blades of the evergreen leaves are leathery and glossy, oblong to elliptic in shape and up to 60 cm long. The stiff petioles are about one third the lengths of the blades. The leaves are borne directly on the compact, slowly spreading or clump-forming rhizome, as are the curious, short-stalked flowers. The flowers are 2-3 cm in diameter, with six to eight fleshy, purplish segments and a large peltate stigma, resembling a mushroom, in the center. These unusual and not very showy flowers seldom develop in cultivation, particularly on houseplants. Recently, the cast iron plant has once again become popular in the United States, but primarily as an outdoor perennial. Its durability and bold form make it a popular accent for the shady garden, particularly in the South where it remains evergreen. Compact and variegated clones are more widely grown than the species, especially 'Milky Way,' with a generous sprinkling of small yellow spots on its leaves. (Pinellas County; B2005-203; Gabriela M. Bernard; 20 April 2005) (Dehgan 1998)

Cycas taitungensis C.F. Shen, *et. al.* (A genus of perhaps 40 species distributed from the Ryukyu Islands and Southeast China through Southeast Asia, the Philippines, Indonesia and Australia, with a single species in East Africa and Madagascar.) Cycadaceae. **Prince sago.** This native of the mountainous southeastern part of Taiwan was formally described in 1994, although plants of this species were known for some time before that as *C. taiwaniana* Carr. The prince sago can grow a trunk 3 m tall and 30 cm in diameter, with deep green, semi-glossy leaves 1 – 1.8 m long. The stiff leaflets (called pinnae) are much darker green above than below, have a sharp, spinescent tip and grow 12-17 cm long. The leaves are similar to those of the king sago (*C. revoluta* Thunb), but they are longer, flatter, and the margins of the pinnae are not strongly rolled under (revolute). Although it is still rare in cultivation in Florida, it appears to be a good garden plant, like its close relative, *C. revoluta*. The prince sago is offered for sale by a few Florida nurseries, but it is a tropical species probably best suited to cultivation in only the central and southern regions of the state. (Orange County; B2005-125; Lance A. Brown; 15 March 2005) (Jones 1993; <http://plantnet.rbg.gov.au/>)

Gustavia augusta L. (A genus of 41 species native to tropical America.) Lecythidaceae.

Membrillo, Choco, Heaven Lotus. This unusual tree is native to moist lowland forests, especially along streams through much of northern South America, from Colombia and Venezuela through the Guianas to Brazil. It is a relative of the Brazil nut, monkey pot, and cannonball trees, a group characterized by their often large and heavy fruits and showy, but

bizarre, flowers. Although this species forms a large tree in the wild, in cultivation it is often shrubby. The evergreen, oblanceolate leaves, 16-48 cm long, are usually clustered at the ends of the branches. The large and very showy flowers are borne in short racemes usually held above the leaves. These flowers, as much as 20 cm in diameter, have six to eight white petals and a dense ring of as many as 1,000 stamens with yellow anthers. The subglobose fruit, up to 7 cm in diameter, is edible and rich in antioxidants. At present, this quite desirable ornamental is offered for sale by a single specialty nursery in Florida. It is a tropical species and is viable only in the warmest parts of the state. (Miami-Dade County; B2005-146; Louis T. Lodyga; 3 April 2005) (Prance and Mori 1979)

Impatiens walleriana Hook.f. (A large genus of 850 species distributed throughout the tropics, but many in temperate regions of India and a few in temperate North America.)
Balsaminaceae. **Impatiens, sultana, patient Lucy, bizzy Lizzie, mirame linda.** This native of eastern Africa, from Tanzania to Mozambique, is the most popular annual bedding plant in the United States today. It has been extensively hybridized and selected for flower color and form and for overall plant habit and stature. It forms a bushy, mounded plant with succulent stems and alternate, fleshy, shallowly toothed leaves. The flowers are zygomorphic, but in some modern hybrids they are almost round. The lowermost sepal is modified into a spur. The corolla is five-parted, with the face (limb) very flat, except in the double-flowered cultivars. Color varies greatly, but there are no blues or yellows. Bi-colored cultivars are common. A few modern strains are somewhat sun-tolerant, but this is a premier plant for shade. In many parts of Florida, impatiens is perennial and blooms year-round. The fleshy seed capsules dehisce explosively when touched (related species are often called "touch-me-nots") and spontaneous seedlings appear around the garden. (Hardee County; B2005-162; Janete A. Brito; 7 April 2005) (Mabberley 1997)

Lantana montevidensis (Spreng.) Briq. (A genus of ca. 150 species distributed in tropical and subtropical regions of the Americas, as well as in tropical and southern Africa.)
Verbenaceae. **Trailing shrub verbena, weeping lantana.** This species, native to southern Brazil and Uruguay, is named for the capital city of the latter country. It is a sprawling shrub, seldom more than 30 cm tall, but spreads to a meter or more and is widely used as a groundcover in landscaping. Like the more commonly grown *L. camara* L., it has aromatic, opposite, rough-hairy, ovate leaves with crenate margins and zygomorphic flowers borne in terminal heads. This species differs from *L. camara* in a number of characteristics, including the spreading habit already mentioned. The flowers are pinkish to bluish purple, with a white eye which turns purple with age. A form with pure white flowers is occasionally seen in cultivation. The flower heads are closely subtended by a series of bracts, forming an involucre. The common lantana, of course, has flowers varying through shades of yellow and orange to hot pink, and the heads are not subtended by an involucre. Both lantanas mentioned here are somewhat weedy, with *L. montevidensis* recorded as being established in 16 counties throughout Florida. (Hardee County; B2005-159; Janete A. Brito; 7 April 2005) (<http://www.plantatlas.usf.edu>)

Oxalis corniculata L. (A cosmopolitan genus of nearly 700 species, most diverse in South America and the Cape Region of South Africa.) Oxalidaceae. **Creeping oxalis, creeping woodsorrel.** Because this weed has appeared in disturbed soil all over the world for

centuries, its original range is obscure. As any gardener can attest, this is among the most obnoxious of weeds, spreading in garden beds and flower pots by underground stems and by explosively dehiscent seed capsules. (We recently identified seeds from this species found on the foliage of an orange tree and thought by the inspector to have been arthropod eggs.) It is actually an attractive plant with trifoliolate leaves made up of three, heart-shaped leaflets, creased in the middle, and an abundance of bright yellow, five-petaled flowers. Creeping oxalis is conspicuous in lawns and along roadsides as well as in gardens here in Florida. It is variable in height, from 2-10 cm tall, and in the color of the foliage, from grass-green to reddish. Although this plant contains oxalic acid, producing a sour taste, the foliage is sometimes used in salads or as a pot herb. Consumption of large amounts, unlikely with such a small plant, could result in calcium deficiency, reduced blood coagulation or urinary problems. (Taylor County; B2005-101; Michele Widdon; 28 February 2005) (Mabberley 1997; Perkins and Payne 1978)

Portlandia grandiflora L. (A genus of ca. 25 species endemic to Jamaica, Cuba and Hispaniola.) Rubiaceae. **Bellflower.** This shrub or small tree to 3 m tall is fairly common in limestone areas of Jamaica. The opposite, glossy, evergreen, ovate to elliptic leaves are 10-15 cm long, leathery-textured and very attractive. The beautiful five-parted flowers are more trumpet-shaped than bell-shaped, as would be expected from the common name, and are similar to Easter lilies in shape, size and color. They are borne in terminal, sessile cymes and are sweetly fragrant at night. This is a spectacular plant that deserves wider cultivation, but as a tropical species is suitable for cultivation in Florida only in the far south. It grows well at Fairchild Tropical Botanical Garden and is available from a few specialty nurseries. (Miami-Dade County; B2005-130; Gwen H. Myres; 14 March 2005) (Adams 1972)

Rondeletia leucophylla Kunth (A genus of 130 species native mostly to the West Indies, with a few in Mexico and Central America.) Rubiaceae. **Panama rose.** This Mexican native has only recently become popular in cultivation in Florida. It is an open shrub to 1.5 m tall with opposite, narrowly lanceolate leaves about 10-12 cm long and less than 2 cm broad, dark green and glossy above, but distinctly whitened beneath. The four-parted, 15 mm wide, rose-pink flowers are borne in long-stalked, compact panicles resembling those of the related and more familiar *Pentas*. The flowers are sweetly fragrant and are very attractive to butterflies. Judging from its native range, from Sinaloa to Oaxaca in Mexico, this species should be cold-hardy in the Orlando area and could survive further north, where it might die back to the ground each winter. (Miami-Dade County; B2005-192; Olga Garcia; 16 April 2005) (Standley 1926)

Senna polyphylla (Jacq.) Irwin & Barneby (A genus of 350 species widely distributed through the tropical and warm temperate regions of the world, with a few in eastern North America.) Leguminosae (Fabaceae). **Desert cassia, retama prieta.** This is a shrub to 3 m tall, restricted in the wild to the drier parts of Puerto Rico and the Dominican Republic. The even-pinnate leaves are alternate on new growth, but clustered at the nodes on the mature stems. They are 3-5 cm long, with up to 15 pairs of 4-5 mm long leaflets. Showy, zygomorphic, 3 cm broad flowers, with five bright golden-yellow petals and seven reddish-brown anthers, are borne on slender, axillary pedicels. The flowers are followed by linear, flat, black, 10 cm long pods. With its dense, bushy habit and somewhat contorted branches,

fine-textured foliage and bright yellow flowers, this attractive plant is frequently cultivated, at least in South Florida. It could thrive in a container garden or lend itself well to bonsai culture. (Miami-Dade County; B2005-111; Gwen H. Myres; 2 March 2005) (Liogier 1985)

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ENTOMOLOGY SECTION

Compiled by Susan E. Halbert, Ph.D.

For the month of March, there were 602 samples, consisting of 20,273 + specimens. In April, there were 551 samples, consisting of 8,497 + specimens. Some of the samples are listed below:

ORNAMENTALS, WOODY PLANTS, AND PALMS:

Washingtonia robusta (Washingtonia palm, skyduster) -- *Nipaecoccus floridensis* Beardsley, **false coconut mealybug**: A slight infestation was found at a nursery in Plant City (Hillsborough County; E2005-1691; Terri L. Gater; 7 April 2005). NEW DPI COUNTY RECORD, NEW DPI HOST RECORD.

ORNAMENTALS, FOLIAGE PLANTS:

Juncus sp. (rush) -- *Rhopalosiphum rufiabdominalis* (Sasaki), **rice root aphid**: A moderate infestation was found on 100 of more than 1,000 plants at a nursery in Apopka (Orange County; E2005-2222; Kathy A. Gonzalez; 22 April 2005). NEW DPI HOST RECORD.

Pachypodium sp. (pachypodium) -- *Aonidiella citrina* (Coquillet), **yellow scale**: A slight infestation was found on a plant at a residence in Cape Coral (Lee County; E2005-1058; David L. Renz and Patricia L. McMackins, both USDA/APHIS/PPQ; 3 March 2005). NEW DPI HOST RECORD. This is a somewhat polyphagous species (Dr. Greg S. Hodges).

ORNAMENTALS, FLOWERING PLANTS:

Brunfelsia densifolia (Serpentine Hill raintree) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A slight infestation was found at Fairchild Tropical Botanical Garden, Coral Gables (Miami-Dade County; E2005-2116; Julieta Brambila, USDA/APHIS/PPQ; 22 April 2005). NEW DPI HOST RECORD.

Cananga sp. (ilang-ilang) -- *Bemesia tabaci* (Gennadius), **sweetpotato whitefly**: A moderate infestation was found on a plant at an amusement park in Lake Buena Vista (Orange County; E2005-1616; George D. Warden; 1 April 2005). NEW DPI HOST RECORD.

Euryops chrysanthemoides (bull's eye, African bush daisy) -- *Brachycaudus helichrysi* (Kaltenbach), **plum leaf curl aphid**: A moderate infestation was found on a plant at a residence in Alva (Lee County; E2005-2220; David L. Renz, USDA/APHIS/PPQ; 29 April 2005). NEW DPI HOST RECORD.

FOOD AND CROP PLANTS:

Cajanus cajan (pigeonpea, gandules, Congo bean) -- *Saissetia miranda* (Cockerell & Parrott), **Mexican black scale**: A moderate infestation was found on a plant at a residence in Miami (Miami-Dade County; E2005-1652; Olga Garcia; 5 April 2005). NEW DPI HOST RECORD.

Dimocarpus longan (longan) -- *Thysanofiorinia nephelii* (Maskell), **an armored scale**: A slight infestation was found at an oriental market in Gainesville (Alachua County; E2005-1801; Soo J. Suh, Visiting Researcher in Entomology, DPI; 16 April 2005). NEW DPI COUNTY RECORD. Since longans do not grow outdoors in Gainesville, this scale should not be a pest for North Central Florida (Dr. Greg S. Hodges).

Fragaria x ananassa (garden strawberry) -- *Rhodobium porosum* (Sanderson), **yellow rose aphid**: A slight infestation was found at an IFAS unit in Plant City (Hillsborough County;

E2005-1327; Dr. James F. Price and Dr. Silvia I. Rondon, University of Florida, Gainesville; 23 March 2005). NEW DPI HOST RECORD.

Mangifera indica (mango) -- *Pseudococcus calceolariae* nr. (Maskell), **citrophilus mealybug**: A moderate infestation was intercepted in a shipment from Jamaica in Port St. Lucie (St. Lucie County; E2005-2160; 21 April 2005). This mealybug does not occur in Florida (Dr. Greg S. Hodges).

Manilkara zapota (sapodilla) -- *Paraleyrodes minei* Iaccarino, **a whitefly**: A slight infestation was found at a residence in Miami (Miami-Dade County; E2005-986; Eduardo I. Mendoza; 23 February 2005). NEW DPI HOST RECORD.

WEEDS AND GRASSES:

Chamaesyce hirta (spurge) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A moderate infestation was found on 20 plants at a zoo in Miami (Miami-Dade County; E2005-1863; Olga Garcia and Edward T. Putland; 16 April 2005). NEW DPI HOST RECORD.

Eupatorium capillifolium (dogfennel) -- *Brachycaudus helichrysi* (Kaltenbach), **plum leaf curl aphid**: An infestation was found in a natural area near Micanopy (Alachua County; E2005-1578; David C. Ziesk; 5 April 2005). NEW DPI HOST RECORD; NEW DPI COUNTY RECORD.

Hymenachne amplexicaulis (West Indian marsh grass, trompetilla) -- *Rhopalosiphum maidis* (Fitch), **corn leaf aphid**: A moderate infestation was found on 20 plants at a research laboratory in Fort Pierce (St. Lucie County; E2005-1584; Phillip C. Lake; 29 March 2005). NEW DPI HOST RECORD.

Poa annua (annual bluegrass) -- *Rhopalosiphum padi* (L.), **bird cherry - oat aphid**: Specimens were found at a natural area near Micanopy (Alachua County; E2005-1576; David C. Ziesk; 5 April 2005). NEW DPI HOST RECORD.

Pueraria montana var. *lobata* (kudzu, foot-a-night-vine, vine-that-ate-the-South, Ko-hemp) -- *Esperanza texana* (Barber), **a broadheaded bug**: A specimen was found along a roadside in DeLand (Volusia County; E2005-1343; Joseph S. Beckwith, USDA/APHIS/PPQ/CAPS; 25 March 2005). NEW DPI COUNTY RECORD.

Tetraleurodes acaciae (Quaintance), **acacia whitefly**: A slight infestation was found at a church in Apopka (Orange County; E2005-1485; Brian D. Saunders, USDA/APHIS/PPQ; 28 March 2005). NEW DPI HOST RECORD.

Sphagneticola trilobata (creeping oxeye, wedelia) -- *Aphis gossypii* Glover, **cotton/melon aphid**: A moderate infestation was found at a residence in Miami (Miami-Dade County; E2005-2397; Haydee L. Escobar and Aura C. Salamanca; 6 May 2005). NEW DPI HOST RECORD.

Tridax procumbens (coat buttons) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: An infestation was found on a roadside in Miami (Miami-Dade County; E2005-2032-301; Edward T. Putland; 22 April 2005). NEW DPI HOST RECORD.

Phenacoccus solani Ferris, **solanum mealybug**: An infestation was found on a roadside in Miami (Miami-Dade County; E2005-2032-302; Edward T. Putland; 22 April 2005). NEW DPI HOST RECORD.

NATIVE AND NATURALIZED PLANTS:

Acanthocereus tetragonus (barbed-wire cactus, triangle cactus) -- *Dysmicoccus texensis* (Tinsley), **a mealybug**: A moderate infestation was found on Big Pine Key (Monroe County;

- E2005-1744; Phillip Hughes, United States Fish and Wildlife Service employee; 8 April 2005). NEW DPI COUNTY RECORD.
- Boerhavia diffusa* (red spiderling, wineflower) -- *Coccus viridis* (Green), **green scale**: A moderate infestation was found at a residence in Miami (Miami-Dade County; E2005-1131; Haydee L. Escobar; 2 March 2005). NEW DPI HOST RECORD.
- Borrhchia arborescens* (tree seaside oxeye) -- *Pseudococcus odermatti* Miller & Williams, **a mealybug**: A slight infestation was found at Black Point Park in Miami (Miami-Dade County; E2005-1864; Olga Garcia and Edward T. Putland; 17 April 2005). NEW DPI HOST RECORD.
- Capparis cynophallophora* (Jamaica caper tree) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A slight infestation was found along a roadside in Miami (Miami-Dade County; E2005-2053; Olga Garcia; 22 April 2005). NEW DPI HOST RECORD.
- Chromolaena odorata* (Jack-in-the-bush) -- *Ceroplastes dugesii* Lichtenstein, **duges wax scale**: A slight infestation was found at a residence in Miami (Miami-Dade County; E2005-2030; Edward T. Putland; 22 April 2005). NEW DPI HOST RECORD.
- Conoclinium coelestinum* (blue mistflower) -- *Brachycaudus helichrysi* (Kaltenbach), **plum leaf curl aphid**: A moderate infestation was found at a residence in Ft. Myers (Lee County; E2005-2213; David L. Renz, USDA/APHIS/PPQ; 29 April 2005). NEW DPI HOST RECORD.
- Gelsemium sempervirens* (Carolina jessamine) -- *Pseudococcus sorghiellus* (Forbes), **trochanter mealybug**: Specimens were found in a natural area near Micanopy (Alachua County; E2005-1598; Yen M. Dao; 5 April 2005). NEW DPI HOST RECORD.
- Gnaphalium falcatum* (narrowleaf purple everlasting) -- *Brachycaudus helichrysi* (Kaltenbach), **plum leaf curl aphid**: A slight infestation was found at a residence in Punta Gorda (Charlotte County; E2005-1760; Reuben E. Sibert, USDA/APHIS/PPQ; 12 April 2005). NEW DPI COUNTY RECORD.
- Heliotropium angiospermum* (scorpionstail) -- *Anthoseius hebetis* De Leon, **a phytoseiid mite**: A population was found at a nature center in North Palm Beach (Palm Beach County; E2005-685; Julieta Brambila, USDA/APHIS/PPQ and Soo J. Suh, Visiting Researcher in Entomology; 6 February 2005). NEW DPI COUNTY RECORD. This mite was previously known only from Marathon Key (Dr. W.C. 'Cal' Welbourn).
- Ilex glabra* (gallberry, inkberry) -- *Aleuroclava jasmini* (Takahashi), **a whitefly**: A moderate infestation was found in a natural area near Micanopy (Alachua County; E2005-1592, 1609; Yen M. Dao; 5 April 2005). NEW DPI HOST RECORD.
- Ilex opaca* (American holly) -- *Eucalymnatus tessellatus* (Signoret), **tessellated scale**: A slight infestation was found in a natural area near Micanopy (Alachua County; E2005-1607; Yen M. Dao; 5 April 2005). NEW DPI HOST RECORD.
- Juniperus virginiana* (red cedar) -- *Lepidosaphes pallida* (Maskell), **maskell scale**: A severe infestation was found at a residence in Brooksville (Hernando County; E2005-1116; Robert W. Dudley; 7 March 2005). NEW DPI COUNTY RECORD.
- Magnolia grandiflora* (southern magnolia) -- *Ceroplastes rubens* Maskell, **red wax scale**: A moderate infestation was found at a residence in Pinellas Park (Pinellas County; E2005-1180; homeowner; 14 March 2005). NEW DPI COUNTY RECORD; NEW DPI HOST RECORD.
- Pavonia paludicola* (swampbush, mangrove mallow) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug** and *Paratachardina lobata* (Chamberlin), **lobate lac scale**: An

infestation was found at a nursery in Miami (Miami-Dade County; E2005-1696; Olga Garcia; 8 April 2005). Both finds are NEW DPI HOST RECORDS.

Persea palustris (swamp bay) -- *Eucalymnatus tessellatus* (Signoret), **tessellated scale**: A slight infestation was found in a natural area near Micanopy (Alachua County; E2005-1600; Yen M. Dao; 5 April 2005). NEW DPI HOST RECORD.

Swietenia mahagoni (West Indian mahogany, mahogany, Madeira redwood) -- *Conchaspis cordiae* Mamet, **a false armored scale**: A moderate infestation was found in Hialeah (Miami-Dade County; E2003-6383; Lynda F. Davis; 26 November 2003). NEW USA CONTINENTAL RECORD. The overall economic significance of this scale insect is unknown. It is native to the Caribbean and has been reported from the Dominican Republic, St. Croix, Haiti and Puerto Rico. There is very little information on the life history of this scale insect. Known hosts include species in the following plant families: Apocynaceae, Boraginaceae, Meliaceae and Polygonaceae (Dr. Greg S. Hodges).

Conchaspis cordiae Mamet, a false armored scale: A severe infestation was found at a residence in Cooper City (Broward County; E2005-1103; homeowner; 8 February 2005). NEW DPI COUNTY RECORD.

ARTHROPODS OF MEDICAL AND VETERINARY IMPORTANCE:

Amblyomma imitator Kohls, **a tick**: A specimen was intercepted on palms at the Agricultural Inspection Station at Live Oak (Suwannee County; E2005-1856; Stephen P. Beidler; 18 April 2005). This tick is native to Mexico and extreme southern Texas. It is a cattle pest and will attack humans (Dr. W.C. 'Cal' Welbourn).

Loxosceles sp., **a recluse spider**: An immature specimen was found at the University of Tampa in Tampa (Hillsborough County; E2005-1140; university employee; 1995). NEW DPI COUNTY RECORD. This is the first record for the west coast of Peninsular Florida. It is juvenile and therefore not identifiable to species (Dr. G.B. Edwards).

INSECT DETECTION:

Blastopsylla occidentalis Taylor, **a eucalyptus psyllid**: A specimen was collected in a suction trap in Immokalee (Collier County; E2005-1314; Philip A. Stansly, University of Florida, IFAS, Immokalee; 18 March 2005). NEW DPI COUNTY RECORD.

Brachycaudus helichrysi (Kaltenbach), **plum leaf curl aphid**: A moderate infestation was found at Kissimmee Prairie Preserve State Park in Ft. Drum (Okeechobee County; E2005-1834; Kenneth L. Hibbard; 14 April 2005). NEW DPI COUNTY RECORD.

Centruroides gracilis (Latreille), **slenderbrown scorpion**: A specimen was found at a residence in Levy County (E2005-1386; homeowner; March 2005). NEW DPI COUNTY RECORD for a native arthropod.

Megouroparsus singularis (Hottes & Frison), **an aphid**: A specimen was collected in a short suction trap at the Florida Citrus Arboretum in Winter Haven (Polk County; E2005-2016; Michael C. Kesinger; 8 April 2005). NEW DPI COUNTY RECORD for a rare native species.

Olbiogaster taeniata (Bellardi), **a fly**: A specimen was found in a multilure trap in Miami (Miami-Dade County; E2005-2010; Carlos M. Pelegrin; 18 April 2005). NEW DPI COUNTY RECORD.

Pseudotephritis vau (Say), **a fly**: A specimen was found in a multilure trap in Wauchula (Hardee County; E2005-1679; Mona Lisa Payne, USDA/APHIS/PPQ; 30 March 2005). NEW DPI COUNTY RECORD.

Rhagoletis cingulata (Loew), **cherry fruit fly**: A specimen was found in a multilure trap in a grapefruit tree in Wauchula (Hardee County; E2005-2233; Cecilia Carrero, USDA/APHIS/PPQ; 19 April 2005). NEW DPI COUNTY RECORD. The host is *Prunus serotina* (Dr. Gary J. Steck).

Spartocera batatas (Fabricius), **giant sweet potato bug**: A specimen was found at a residence in Davie (Broward County; E2005-1375; John Pieper, USDA/APHIS/PPQ; 22 March 2005). This is the first county record for an adult. The species was found for the first time in Miami-Dade County in 1995. It can be a pest of sweet potato (Dr. Susan E. Halbert).

NEMATODOLOGY SECTION

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

A total of 4,086 samples (3,377 for morphological and 709 for molecular identifications) were processed in March and April 2005. Details are shown below:

<p>Certification and Regulatory Samples:</p> <p>Multi-state Certification for National and International Export.....2,252 California Certification682 Burrowing Nematodes.....26 Pre-movement (Citrus Nursery Certification)94 Site or Pit Approval (Citrus Nursery and Other Certifications) 11</p>	<p>Other Samples:</p> <p>Plant Problems..... 78 Intrastate Survey, Random 234</p> <p>Molecular Identifications* 709</p> <p><small>*The majority of these analyses involved root-knot nematode species.</small></p>
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Nematodes of Special Interest

Nematodes of special interest detected and/or identified in March and April 2005:

Barleria cristata (Philippine violet) — *Aphelenchoides fragariae* (Ritzema Bos, 1890) Christie, 1932, **the spring crimp nematode** was found infecting roots of this flowering ornamental crop growing in a greenhouse (Marion County; N05-00452; Christine A. Zamora; 31 March 2005). DNA analysis conducted by Dr. Robin Giblin-Davis confirmed the morphological identification. *Aphelenchoides fragariae* is a foliar nematode common in temperate climates. Some populations of this species have become established in the warm climate of Florida, where they infect flowering and foliage ornamentals, such as *Saintpaulia ionantha* (African violet) and *Asplenium nidus* (Bird’s-nest fern).

COLLECTORS SUBMITTING FIVE OR MORE SAMPLES THAT WERE PROCESSED FOR NEMATOLOGICAL ANALYSIS DURING MARCH AND APRIL 2005:

Anderson, James L..... 168	Qiao, Ping..... 324
Bailey, W. Wayne 25	Robinson, William L 6
Echols, M. Janie. 5	Salisbury, Thomas L. 150
Frere, Christine J. 12	Simmons, Stacey S..... 21
Harris, Jessie..... 13	Smith, Larry W. 11
Jarrett, Raymond C..... 25	Spriggs, Charles L..... 90
LeBoutillier, Karen W..... 354	Stone, Carrie S. 68
Looker, Sol F..... 26	Toral, Angelina M..... 16
Ochoa, Ana L 212	Wright, Albert L..... 25
Pate, Jo Ann..... 46	Zamora, Christine A..... 8

PLANT PATHOLOGY SECTION
Compiled by Robert M. Leahy

For this period, the Plant Pathology Section received and processed 1,175 specimens. These included 837 pathology, 10 miscellaneous, eight soil and nine bee samples. Full pathogenicity tests for citrus canker were performed on 19 samples. Visual inspections for citrus canker were conducted on 47 samples from Southeast Florida, 20 samples from Central Gulf Coast Florida, 161 samples from Southwest Gulf Coast Florida, 55 from Central Florida and nine samples from North Florida.

ORNAMENTALS, WOODY PLANTS AND PALMS:

- Bougainvillea* sp. (bougainvillea) -- *Cercosporidium bougainvilleae*, **fungus**: Collected at a nursery in Lady Lake, Marion County (18 April 2005, Mary C. Sellers, P2005-01182).
- Callistemon citrinus* (bottlebrush) -- *Puccinia psidii*, **rust**: Collected at a store in New Port Richey, Pasco County (21 April 2005, Daniel Merced, P2005-01274).
- Callistemon* sp. (bottlebrush) -- *Sphaeropsis tumefaciens*, **gall**: Collected at a dooryard in Miami, Miami-Dade County (15 March 2005, Maria C. Acosta, P2005-00819).
- Callistemon* sp. (bottlebrush) -- *Puccinia psidii*, **rust**: Collected at a nursery in Geneva, Seminole County (6 April 2005, Tirah M. Lyons, P2005-01061).
- Callistemon viminalis* (weeping bottlebrush) -- *Puccinia psidii*, **rust**: Collected at a home and garden store in St. Petersburg, Pinellas County (19 April 2005, Gabriela M. Bernard, P2005-01280). This rust is frequently detected on many plants in the **Myrtaceae**.
- Callistemon viminalis* (weeping bottlebrush) -- *Kutilakesa pironii*, **gall**: Collected at a dooryard in Briny Breezes, Palm Beach County (23 March 2005, Sallie H. Simmons, P2005-00986).
- Ficus benjamina* (weeping fig) -- *Agrobacterium tumefaciens*, **crown gall**: Collected at a nursery in Orlando, Orange County (25 March 2005, Lance A. Brown, P2005-01035).
- Gardenia* sp. (gardenia) -- *Phomopsis gardeniae*, **fungus**: Collected at a dooryard in Naples, Collier County (3 April 2005, Scott D. Krueger, P2005-01010).
- Ixora* sp. (ixora) -- *Fusarium oxysporum*, **fungus**: Collected at a nursery in Miami, Miami-Dade County (22 March 2005, Rosa Maria M. Quinones, P2005-00882).
- Nerium oleander* (oleander) -- *Sphaeropsis tumefaciens*, **fungus**: Collected at a dooryard in North Miami Beach, Miami-Dade County (3 March 2005, Kenneth L. Hibbard, P2005-00770).
- Phoenix canariensis* (Canary Islands date palm) -- *Graphiola phoenicis*, **false smut**: Collected at a nursery in Okeechobee, Okeechobee County (24 March 2005, nursery employee, P2005-00915).
- Rhaphiolepis indica* (Indian hawthorne) -- *Phytophthora cactorum*, **leaf, stem blight**: Collected at a nursery in Estero, Lee County (31 March 2005, nursery employee, P2005-00982).
- Rosa* sp. (climbing rose) -- *Peronospora sparsa*, **downy mildew**: Collected at a nursery in McAlpin, Suwannee County (6 April 2005, Wayne B. Bailey, P2005-01033).
- Viburnum* sp. (viburnum) -- *Plasmopara viburni*, **downy mildew**: Collected at a nursery in Naples, Collier County (6 April 2005, Scott D. Krueger, P2005-01074).

ORNAMENTALS, FOLIAGE PLANTS:

Maranta leuconeura (prayer plant) -- *Bipolaris setariae*, **fungus**: Collected at a nursery in Zellwood, Orange County (22 March 2005, Kathy A. Gonzalez, P2005-00928).

ORNAMENTALS, FLOWERING PLANTS:

Senecio cineraria (dusty miller) -- *Alternaria cinerariae*, **fungus**: Collected at a nursery in Miami, Miami-Dade County (4 March 2005, Rosa Maria M. Quinones, P2005-00703).

FOREST AND SHADE TREES:

Bursera simaruba (gumbo-limbo) -- *Armillaria tabescens*, **root rot**: Collected at a dooryard in Marathon, Monroe County (2 March 2005, Eduardo G. Camero, P2005-00700).

Juniperus virginiana (red cedar) -- *Cercosporidium sequoiae*, **fungus**: Collected at a nursery in Plant City, Hillsborough County (10 March 2005, nursery employee, P2005-00788).

Ulmus davidiana var. *japonica* (Japanese elm) -- *Stegophora ulmea*, **fungus**: Collected at a dooryard in Grand Island, Lake County (28 March 2005, Michael Patterson (USDA), P2005-00944).

FOOD AND CROPS:

Brassica oleracea (cabbage) -- *Peronospora parasitica*, **downy mildew**: Collected at a nursery in Keyville, Hillsborough County (1 March 2005, nursery employee, P2005-00692).

Rosmarinus officinalis (rosemary) -- *Peronospora lamii*, **downy mildew**: Collected at a nursery in Gainesville, Alachua County (14 March 2005, nursery employee, P2005-00793). NEW HOST RECORD.

Spondias sp. (mombin) -- *Sphaceloma spondiadis*, **fungus**: Collected at a dooryard in Tamarac, Broward County (1 April 2005, Paul Moeser (USDA), P2005-00996).

Zea mays (corn) -- *Exserohilum turcicum*, **blight**: Collected at a grower in Naples, Collier County (8 April 2005, Scott D. Krueger, P2005-01083).

WEEDS AND GRASSES:

Bambusa sp. (bamboo) -- *Nigrospora oryzae*, **fungus**: Collected at a dooryard in Ocala, Marion County (1 April 2005, Floyd J. McHenry, P2005-00019).

Carex sp. (sedge) -- *Diachea leucopodia*, **slime mold**: Collected at a farm in Micanopy, Alachua County (5 April 2005, Susan A. Halbert, P2005-01009).

Cynodon dactylon (Bermuda grass) -- *Leptosphaerulina trifolii*, **fungus**: Collected at a dooryard in The Villages, Sumter County (31 March 2005, Scott T. Adkins (USDA), P2005-00983).

Lolium perenne (rye grass) -- *Bipolaris sorokiniana*, **fungus**: Collected in a pasture in Ona, Hardee County (12 April 2005, Michael Patterson (USDA), P2005-01164).

Solanum nigrum (nightshade) -- *Tomato Mosaic Tobamovirus*, **virus**: Collected at a dooryard in Ft. Pierce, St. Lucie County (26 April 2005, Scott T. Adkins (USDA), P2005-01462).

NATIVE OR NATURALIZED:

Borrhichia arborescens (tree seaside oxeye) -- *Puccinia balsamorhizae*, **rust**: Collected at a park in Miami, Miami-Dade County (17 April 2005, Olga Garcia and Edward T. Putland, P2005-01187).

Ficus aurea (strangler fig) -- *Ophiostoma ficus*, **fungus**: Collected at a dooryard in Hobe Sound, Martin County (30 March 2005, LeAnn M. West, P2005-01044).

- Forestiera segregata* (Florida privet) -- *Puccinia sparganioides*, **rust**: Collected at a nursery in Melbourne, Brevard County (28 March 2005, Raymond C. Jarrett, P2005-00973).
- Myrcianthes fragrans* (Simpson stopper) -- *Puccinia psidii*, **rust**: Collected at a dooryard in Lake Worth, Palm Beach County (13 March 2005, Sallie H. Simmons, P2005-00817). Collected on a PPD survey in Miami, Miami-Dade County (22 March 2005, Kenneth L. Hibbard, P2005-00883). Collected at a dooryard in Lake Worth, Palm Beach County (23 March 2005, Sallie H. Simmons, P2005-00987).
- Taxus floridana* (Florida yew) -- *Colletotrichum acutatum*, **twig dieback**: Collected at a park in Bristol, Gadsden County (22 April 2005, Timothy S. Schubert, David A. Davison, Robert M. Leahy, and Jodie L. Hansen, P2005-01363). NEW HOST RECORD.

OTHER DETECTIONS OF SPECIAL INTEREST:

- Albizia lebeck* (woman's tongue) -- *Sphaerophragmium acaciae*, **rust**: Collected at a post office in Chokoloskee, Collier County (15 March 2005, Michael E. Meadows, P2005-00823). Collected at a post office in Chokoloskee, Collier County (29 March 2005, Michael E. Meadows, P2005-01027). Collected at a farm in Homestead, Miami-Dade County (12 April 2005, Eduardo M. Varona, P2005-01127).
- Cajanus cajan* (pigeon pea) -- *Uromyces dolicholii*, **rust**: Collected at a dooryard in Miami, Miami-Dade County (17 March 2005, Michael E. Meadows, P2005-00860). Collected at a dooryard in Miami, Miami-Dade County (23 March 2005, Michael E. Meadows, P2005-00937). Collected in a field in Miami, Miami-Dade County (11 April 2005, Eduardo M. Varona, P2005-01126).
- Lysiloma latisiliquum* (wild tamarind) -- *Ravenelia annulata*, **rust**: Collected at a dooryard in Homestead, Miami-Dade County (6 April 2005, Michael E. Meadows, P2005-01059).
- Lysiloma latisiliquum* (wild tamarind) -- *Ravenelia* sp., **rust**: Collected at a park in Naples, Collier County (15 March 2005, Michael E. Meadows, P2005-00824). Collected on a roadside in Homestead, Miami-Dade County (6 April 2005, Michael E. Meadows, P2005-01063).
- Melilotus alba* (white sweet clover) -- *Uromyces striatus*, **rust**: Collected at a dooryard in Homestead, Miami-Dade County (1 April 2005, Michael E. Meadows, P2005-01031).
- Mucuna pruriens* (cow-itch, velvet bean) -- *Pseudocercospora stizolobii*, **leaf spot**: Collected at a dooryard in Homestead, Miami-Dade County (12 April 2005, Eduardo M. Varona, P2005-01132).
- Phaseolus vulgaris* (green bean) -- *Uromyces appendiculatus*, **rust**: Collected at a farm in Homestead, Miami-Dade County (6 April 2005, Michael E. Meadows, P2005-01058). Collected at a farm in Parrish, Manatee County (12 April 2005, Michael Patterson (USDA), and Glenn W. Hart, P2005-01135). Collected at a nursery in Homestead, Miami-Dade County (22 April 2005, Eduardo M. Varona, P2005-01299).
- Pueraria montana* var. *lobata* (kudzu) -- *Phakopsora pachyrhizi*, **Asian soybean rust**: Collected on the roadside in Hickory Hill, Hernando County (20 March 2005, James Walker, P2005-00745). Collected roadside in Dade City, Pasco County (7 March 2005, Michael E. Meadows, P2005-00863). Collected on roadside in Brooksville, Hernando County (23 March 2005, Patrick R. Hamilton, P2005-00894). Collected by owner in Spring Lake, Hernando County (29 March 2005, Patrick R. Hamilton, P2005-00975). Collected at a dooryard in Citra, Marion County (7 April 2005, James Walker, P2005-01045). Collected in Brooksville, Hernando County (5 April 2005, Patrick R. Hamilton, P2005-01048). Collected on roadside

in Dade City, Pasco County (14 April 2005, Corinne M. Hermine, P2005-01145). Collected in Dade City, Pasco County (20 April 2005, Corinne M. Hermine, 200501244). Collected on a roadside in Miami, Miami-Dade County (22 April 2005, Michael E. Meadows, P2005-01292). NEW COUNTY RECORD.

Tecoma stans (yellow bells) -- *Prosopidium appendiculatum*, **rust**: Collected at a dooryard in Marco Island, Collier County (19 April 2005, Michael E. Meadows, P2005-01263).

Trifolium pratense (red clover) -- *Uromyces* sp., **rust**: Collected in a pasture in Ona, Hardee County (12 April 2005, Michael Patterson (USDA), and Glenn W. Hart, P2005-01143).

Trifolium repens (white clover) -- *Uromyces* sp., **rust**: Collected in a pasture in Ona, Hardee County (12 April 2005, Michael Patterson (USDA), and Glenn W. Hart, P2005-01142).

Vigna unguiculata (cow pea) -- *Uromyces vignae*, **rust**: Collected at a farm in Homestead, Miami-Dade County (17 March 2005, Michael E. Meadows, P2005-00874).