

## BOTANY SECTION

Compiled by Richard E. Weaver, Jr., Ph.D., and Patti J. Anderson, Ph.D.

For this period, 155 specimens were submitted to the Botany Section for identification, and 1,595 were received from other sections for identification/name verification for a total of 1,750. In addition, 19 specimens were added to the herbarium. Some of the samples received for identification are discussed below:

*Chrysopsis latisquamea* Pollard. (A genus of eleven species endemic to the southeastern United States). Compositae/Asteraceae. **Scrubland goldenaster.** The goldenasters, with their profusion of yellow flower heads in late summer and fall, are conspicuous components of the vegetation of sunny, dry open habitats through much of northern and central Florida. All eleven species in the genus are native to Florida, and nine are endemic to the state. Three of these (a fourth may only be a subspecies of another species) are included on Florida's endangered list. This species is common in pinewoods and oak scrub on the peninsula from Highlands County north. It is a biennial or a short-lived perennial from a basal rosette, with a solitary, erect stem 40-70 cm tall. The leaves are grayish with densely long-woolly pubescence. Like all of the goldenasters, the flower heads have bright yellow ray flowers and yellow disks as well. This one is distinctive in that the phyllaries (involucral bracts) are densely glandular, and their tips are expanded and somewhat leaflike. (Seminole County; B2008-367; Jeffrey K. Slotten; 15 June 2008) (Semple 2006)

*Eustoma exaltatum* (L.) Salisb. ex G. Don (A genus of three species native to southern and south-central United States, Mexico, Belize and the Caribbean). Gentianaceae. **Marsh gentian, catchfly prairie gentian, lisianthus.** A similar but larger-flowered relative of this species, *Eustoma grandiflorum* (Raf.) Shinnery has become a popular cut-flower and bedding plant; it is popularly known as "lisianthus," but confusingly so, since it is not closely related to plants of the genus *Lisianthus* (or *Lisianthus*). In Florida, *E. exaltatum* is a common plant of coastal marshes and dunes, mostly in the central and southern parts of the state. It is an annual or short-lived perennial, to 70 cm tall, from a taproot. The well-branched stems and the leaves are conspicuously glaucous. The basal rosette often withers as the plant begins to bloom, but the stem leaves persist. They are opposite, more or less oblong and the bases clasp the stem. The beautiful flowers are borne on long stalks. The five petals are united at the base, but the flowers open almost flat, to about 5 cm across; they are bluish or lavender in color, with an irregular ring of dark purple below the middle and then a yellow area at the base. (Miami-Dade County; B2008-323; Olga Garcia; 5 June 2008) (Correll and Johnston 1970; <http://gentian.rutgers.edu>)



*Oenanthe javanica* (Blume) DC. (A genus of 40 species native from north temperate areas to Indomalesia and Australia to the mountains of tropical Africa.) Umbelliferae/Apiaceae.

**Japanese parsley, Java waterdrop wort, water celery.** This perennial herb with creeping stolons grows along streams, marshes, ditches and swampy fields and can be grown as a ground cover in moist, shady areas. The deep green, twice-pinnately compound leaves have serrate margins and resemble carrot tops. Umbels arise opposite the leaves with 10-26 fragrant white flowers. An edible species cultivated in Asia, the leaves are eaten as a vegetable with rice in Malaysia and Taiwan and young shoots eaten in soup or as a vegetable or used to flavor other foods. (Alachua County; B2008-279; Cheryl A. Jones; 22 May 2008) (Kunkel 1984; Mabberly 1997; Staples and Herbst 2005; <http://commons.wikimedia.org>; <http://edis.ifas.ufl.edu>)



*Oenanthe javanica*

Photograph courtesy of Wikimedia

*Pseudocyonia sinensis* (Thouin) C.K. Schneid. (A genus of one species from China and areas of eastern Asia.) Rosaceae. **Chinese quince.** This small tree or tall shrub with peeling bark can reach 7-8 m in height. The 5-8 by 3-5 cm leaves with serrate margins are obovate to ovate and are glossy green above with dense brown pubescence below. The solitary, sessile flowers are 2.5-3 cm across with a pale pink corolla. The edible, but somewhat unpalatable, fruit is a 10-15 cm long yellow pome. Because the fruit is generally too hard and tart for eating out of hand, it is usually cooked with sugar to make jams and preserves, leading to the common name in the Florida Panhandle, "canning pear." The rootstock is sometimes used for grafted pears. (Santa Rosa County, B2008-374, William L. Robinson; 23 June 2008) (Huxley 1992; Simpson and Ogorzaly 1995; <http://www.ces.ncsu.edu/depts/hort/consumer/factsheets>)

*Ruttya fruticosa* Lindau. (A genus of three species from tropical and South Africa to Yemen and three species from Madagascar.) Acanthaceae. **Rabbit ears, orange bird, hummingbird plant, ruttya.** This evergreen shrub to 4 m tall has terminal inflorescences, with flowers in a short, cone-like spike, subtended by small linear bracts. The five-parted, 6 mm long calyx has narrow lobes. The broadly tubular bright-yellow, orange-red or scarlet corolla to 7 cm long is two-lipped. The upper lip is reflexed and emarginate, consisting of two fused lobes, while the lower lip is tri-lobed with a distinctive irregular dark reddish to brown to black blotch at base of the middle lobe. The fruit is an ellipsoid capsule containing four seeds. This native of tropical East Africa has been introduced in Hawaii and Florida, but is not



*Ruttya fruticosa*

Photograph courtesy of Top Tropicals

common in either state. With its strikingly unusual flower, this species could be an interesting addition to gardens in South Florida. (Miami-Dade County; B2008-339; Lynn D. Howerton; 9 June 2008) (Staples and Herbst 2005; <http://www.topropicals.com>)

*Sabatia stellaris* Pursh (A genus of 17 species native to the eastern North America and the West Indies). Gentianaceae. **Marsh pink, rose of Plymouth.** As with the goldenasters discussed above, Florida is rich in species of *Sabatia*. Fourteen of the 17 species are native



to the state, but none are endemic. This one is the most widespread, ranging from Massachusetts to Louisiana, mostly on the Coastal Plain, and then to Mexico, the Bahamas and Cuba. In Florida, it is common in savannahs and salt or brackish marshes in almost all of the coastal counties. It is an annual species, with a green, simple or branched stem from 30-50 cm tall, and opposite, narrow, linear leaves. The five-parted corolla is fused only at the base, and the star-shaped flowers open wide, to about 3 cm across. Flowers are pink, rose or white, with a sharply contrasting “eye.” This conspicuous feature looks like a five-pointed yellow star,

with a fine, irregular red border. (Miami-Dade County; B2008-288; Olga Garcia; 26 May 2008) (Correll and Correll 1982; Fernald 1950)

*Senna pendula* (Humb. & Bonpl. ex Willd.) Irwin & Barneby (A genus of about 260 species, most numerous in the warm parts of the Americas, but also widespread in the Old World).

Leguminosae/Fabaceae. **Christmas cassia, velamuerto.** This is a variable and widespread species, native in most of mainland tropical America. Although it is listed by the Exotic Pest Plant Council as a Category I Invasive, it is primarily of concern in South Florida. It is a fine ornamental, the trees covered with a mass of golden flowers in late fall or early winter. Unfortunately it sometimes freezes to the ground in northern Florida, but it generally recovers sufficiently to bloom the following season. It forms a shrub or small tree 3-5 m tall, with green, furrowed, tight-barked branches. The alternate, even-pinnate, often yellow-green leaves are from 5-10 cm long, with 4-5 pairs of obovate leaflets. The slightly zygomorphic flowers, from 3-5 cm across, are borne in terminal panicles. Five golden yellow petals contrast sharply with the conspicuous anthers, seven of which are fertile, large and red-brown, with the remaining three sterile, smaller, and greenish. The pods are cylindrical, woody, and generally indehiscent. This species was formerly included in the large and complex genus *Cassia* and is often referred to as *Cassia*



*bicapsularis*. (Putnam County; B2008-326; Sol F. Looker; 30 May 2008) (Huxley 1992; Irwin and Barneby 1982)

## REFERENCES

- Correll, D.S. and H.B. Correll. 1982. Flora of the Bahama Archipelago. J. Cramer. Hirschberg, Germany. 1,692 p.
- Correll, D.S. and M.C. Johnston. 1970. Manual of the vascular plants of Texas. Texas Research Foundation. Renner, Texas. 1,879 p.
- Fernald, M.L. 1950. Gray's manual of botany, 8<sup>th</sup> edition. American Book Company. New York, New York. 1,631 p.
- Huxley, A.J. (editor). 1992. The new Royal Horticultural Society dictionary of gardening. 4 volumes. Macmillan Press. London, England. 3,240 p.
- Irwin, H.S. and R.C. Barneby. 1982. The American Cassiinae. Memoirs of the New York Botanical Garden 35:1-918.
- Kunkel, G. 1984. Plants for human consumption. Koeltz Scientific Books. Koenigstein, Germany. 393 p.
- Mabberley, D.J. 1997. The plant book, 2nd edition. Cambridge University Press. Cambridge, England. 858 p.
- Semple, J.C. 2006. *Chrysopsis*. Flora of North America north of Mexico. Volume 20: 213-221.
- Simpson, B.B. and M.C. Ogorzaly. 1995. Economic botany: plants in our world. McGraw-Hill, Inc. New York, New York. 742 p.
- Staples, G.W. and D.R. Herbst. 2005. A tropical garden flora: plants cultivated in the Hawaiian Islands and other tropical places. Bishop Museum Press. Honolulu, Hawaii. 908 p.

Unless otherwise noted, all photographs are generously provided by the Institute for Systematic Botany, Atlas of Florida Vascular Plants: <http://www.plantatlas.usf.edu>



## ENTOMOLOGY SECTION

### Compiled by Susan E. Halbert, Ph.D.

For the month of May, there were 914 samples consisting of 28,628+ specimens. In June, there were 857 samples consisting of 19,088+ specimens. Some of the samples are listed below:

#### ORNAMENTALS, WOODY PLANTS, AND PALMS:

- Archontophoenix alexandrae* (Alexandra palm, king palm) -- *Raoiella indica* Hirst, **red palm mite**: A slight infestation was found on a plant at the Deerfield Beach Arboretum in Constitution Park, Deerfield Beach (Broward County; E2008-3289; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 23 May 2008). NEW DPI HOST RECORD.
- Beccariophoenix madagascariensis* (giant windowpane palm) -- *Raoiella indica* Hirst, **red palm mite**: A moderate infestation was found on a plant at the Deerfield Beach Arboretum in Constitution Park, Deerfield Beach (Broward County; E2008-3280; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 23 May 2008). NEW DPI HOST RECORD.
- Butia capitata* (pindo palm, jelly palm, butia palm) -- *Raoiella indica* Hirst, **red palm mite**: An infestation was found at a residence in Ft. Lauderdale (Broward County; E2008-3561; Karolynne M. Griffiths, USDA/APHIS/PPQ; Amanda C. Hodges, University of Florida; W.C. 'Cal' Welbourn, Greg S. Hodges, Michael E. Meadows, and Patti J. Anderson; 4 June 2008). NEW DPI HOST RECORD.
- Coccothrinax miraguama* (a palm) -- *Raoiella indica* Hirst, **red palm mite**: A slight infestation was found on a plant at the Deerfield Beach Arboretum in Constitution Park, Deerfield Beach (Broward County; E2008-3594; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 22 May 2008). NEW DPI HOST RECORD.
- Erythrina variegata* (coral tree, sunshine tree) -- *Quadrastichus erythrinae* Kim, **erythrina gall wasp**: A severe infestation was found at a residence in Vero Beach (Indian River County; E2008-3532; homeowner; 21 May 2008). NEW DPI COUNTY RECORD.
- Ficus benjamina* (weeping fig) -- *Eurhinocricus* sp., **a millipede**: A specimen was found at a nursery in Lake Worth (Palm Beach County; E2008-3885; Sallie H. Simmons; 13 June 2008). NEW DPI COUNTY RECORD.
- Singhiella simplex* (Singh), **fig whitefly**: A severe infestation was found on ten plants at a residence in Palm Beach (Palm Beach County; E2008-4014; James C. Lee; 19 June 2008). NEW DPI COUNTY RECORD.
- Palmae (palm trash) -- *Raoiella indica* Hirst, **red palm mite**: Mites were found in shredded palm leaves in a pile of trash gathered in Palm Beach County, but discovered at a garbage dump in Moore Haven (Glades County; E2008-2744; Mark R. Terrell; 6 May 2008). No other occurrences of the mites have been reported from Glades County.
- Phoenix canariensis* (Canary Islands date palm, pineapple palm) -- *Raoiella indica* Hirst, **red palm mite**: A moderate infestation was found at the Deerfield Beach Arboretum in Constitution Park, Deerfield Beach (Broward County; E2008-3283; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 22 May 2008). NEW DPI HOST RECORD.

*Pritchardia pacifica* (Fiji fan palm) -- *Raoiella indica* Hirst, **red palm mite**: A severe infestation was found at the Deerfield Beach Arboretum in Constitution Park, Deerfield Beach (Broward County; E2008-3288; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 22 May 2008). NEW DPI HOST RECORD.

*Ptychosperma elegans* (Alexander palm, solitaire palm) -- *Raoiella indica* Hirst, **red palm mite**: A moderate infestation was found on one of three plants growing at a residence in Ft. Lauderdale (Broward County; E2008-2657; Nury M. Marrone; 1 May 2008). NEW DPI HOST RECORD.

*Sabal palmetto* (cabbage palm, palmetto) -- *Pachymerus nucleorum* (Fabricius), **a bruchid beetle**: Specimens were found at the Manatee County fairgrounds in Palmetto (Manatee County; E2008-4118; Richard A. White, David E. Dean, K. Lea Etchells, Susan B. Youngblood and Susan E. Halbert; 25 June 2008). NEW DPI COUNTY RECORD. This is an exotic weevil from South America. Its larvae feed on palm seeds. This is the first record of *P. nucleorum* on a native Florida palm and the first record from the west coast of Florida (Dr. Michael C. Thomas).



*Pachymerus nucleorum*  
Photograph courtesy of  
Michael C. Thomas, DPI

*Myndus crudus* Van Duzee, **American palm cixiid**: A slight but consistent infestation was found on palms at DPI headquarters in Gainesville (Alachua County; E2008-4152; Susan E. Halbert; 24 June 2008). NEW DPI COUNTY RECORD. This is the first time the vector of lethal yellowing has been found north of Orlando (Dr. Susan E. Halbert).

*Schippia concolor* (a palm) -- *Raoiella indica* Hirst, **red palm mite**: A moderate infestation was found at a residence in West Palm Beach (Palm Beach County; E2008-2601; James C. Lee; 1 May 2008). NEW DPI HOST RECORD.

*Serenoa repens* (saw palmetto) -- *Palmanychnus steganus* (Pritchard & Baker), **a spider mite**: An infestation was found in Cedar Key (Levy County; E2008-1851; Julieta Brambila, USDA/APHIS/PPQ; 5 April 2008). NEW DPI COUNTY RECORD. This mite is specific to palms (Dr. W.C. 'Cal' Welbourn).

*Syagrus romanzoffiana* (queen palm) -- *Raoiella indica* Hirst, **red palm mite**: A slight infestation was found at a residence in Ft. Lauderdale (Broward County; E2008-2669; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 1 May 2008). NEW DPI HOST RECORD.

*Wodyetia bifurcata* (foxtail palm) -- *Raoiella indica* Hirst, **red palm mite**: A slight infestation was found at a residence in Ft. Lauderdale (Broward County; E2008-2673; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 1 May 2008). NEW DPI HOST RECORD.

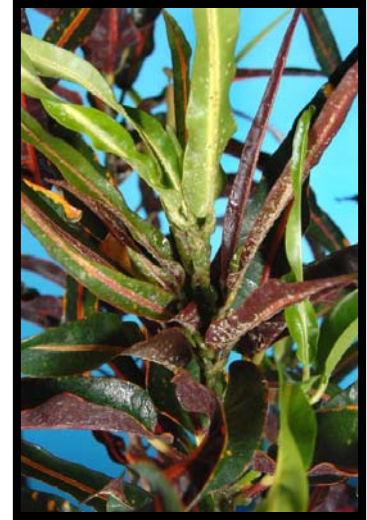
#### ORNAMENTALS, FOLIAGE PLANTS:

*Bambusa* sp. (bamboo) -- *Kuwanaspis kikosani* (Kuwana), **a bamboo thread scale**: A moderate infestation was found at a nursery in Citra (Marion County; E2008-4192; Cheryl A. Jones; 27 June 2008). NEW DPI COUNTY RECORD.

*Codiaeum variegatum* (croton) -- new species in the family Coccidae, **croton scale**: A severe infestation was found on one of over 200 plants growing at a nursery in Marathon (Monroe County; E2008-2067; Lynn D. Howerton; 9 April 2008). NEW USA CONTINENTAL

RECORD. This scale is new to science. Several other hosts for this new scale are included below with the insect identified by the common name, **croton scale**. Specimens of the same insect were collected in Guatemala in 2007, suggesting that it may be Neotropical in origin (Dr. Greg S. Hodges).

A moderate infestation was found at a nursery in Davie (Broward County; E2008-2434; Gangadai Azore; 25 April 2008). A moderate infestation was found at a nursery in Miami Beach (Miami-Dade County; E2008-2538; Holly B. Glenn, University of Florida; 30 April 2008). A moderate infestation was found at a nursery in Delray Beach (Palm Beach County; E2008-2806; Gregg D. Farina; 7 May 2008). A severe infestation on 12 plants was found at a residence in Ft. Myers (Lee County; E2008-3225; homeowner; 26 May 2008). A moderate infestation was found at a nursery in Satsuma (Putnam County; E2008-3284; Sol F. Looker; 27 May 2008). A severe infestation was found on four of ten plants at a nursery in Ft. Pierce (St. Lucie County; E2008-3433; Dagne A. Vasquez; 30 May 2008). A severe infestation was found on all of 40 plants at a military outlet in Jacksonville (Duval County; E2008-3476; Stephen R. Jenner; 4 June 2008). A moderate infestation was found at a nursery in Apopka (Orange County; E2008-3621; Kathy A. Gonzalez; 5 June 2008). A slight infestation was found on four of 290 plants at a discount garden center in Sebastian (Indian River County; E2008-3613; Carlos Averhoff-Chirino; 6 June 2008). A severe infestation was found on one plant at a military outlet at Patrick AFB (Brevard County; E2008-3768; Angelina M. Toral; 9 June 2008). A moderate infestation was found at a nursery in Oviedo (Seminole County; E2008-3861; Jesse M. Krok; 12 June 2008). All these finds are NEW DPI COUNTY RECORDS.



*Croton scale on croton plant*  
Photograph courtesy of Jeff Lotz, DPI



*Croton scale on croton plant*  
Photograph courtesy of Lyle Buss, UF

Gramineae/Poaceae (bamboo) -- *Kuwanaspis howardi* (Cooley), **bamboo white scale**: A moderate infestation was found on three of four plants at a nursery in Gainesville (Alachua County; E2008-3442; Cheryl A. Jones; 2 June 2008). NEW DPI COUNTY RECORD.

*Jatropha curcas* (Barbados nut, physic nut) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A slight infestation was found at a nursery in Ft. Pierce (St. Lucie County; E2008-4193; Dagne A. Vasquez; 25 June 2008). NEW DPI HOST RECORD.

*Photinia serrulata* (Chinese photinia, redtop) -- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: A severe infestation was found on two plants at a residence in Largo (Pinellas County; E2008-3498; William J. Salway; 29 May 2008). NEW DPI HOST RECORD.

*Phyllostachys nigra* (black bamboo) -- *Palmicultor lumpurensis* (Takahashi), **a mealybug**: A slight infestation was found at a nursery in Naples (Collier County; E2008-4240; Scott D. Krueger; 24 June 2008). NEW DPI COUNTY RECORD.

*Rhododendron* sp. (azalea) -- *Eriococcus azaleae* (Comstock), **azalea bark scale**: A slight infestation was found on six plants at a residence in Tavares (Lake County; E2008-3969; Lorrie R. Rigby; 19 June 2008). NEW DPI COUNTY RECORD.

#### ORNAMENTALS, FLOWERING PLANTS:

*Asclepias curassavica* (butterfly milkweed, scarlet milkweed) -- *Crypticerya genistae* (Hempel), **a scale insect**: A slight infestation was found in an empty lot in Miami (Miami-Dade County; E2008-2690; Olga Garcia; 1 May 2008). NEW DPI HOST RECORD.

*Brugmansia* sp. (brugmansia) -- *Myloccerus undecimpustulatus undatus* Marshall, **a weevil**: A moderate infestation was found on an empty lot in Miami (Miami-Dade County; E2008-2628; Olga Garcia; 1 May 2008). NEW DPI HOST RECORD.

*Heliconia* sp. (heliconia) -- *Raoiella indica* Hirst, **red palm mite**: A slight infestation was found on five plants at a residence in Ft. Lauderdale (Broward County; E2008-2667; , Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 30 April 2008). NEW DPI HOST RECORD.

*Rosa* sp. (rose) -- *Myloccerus undecimpustulatus undatus* Marshall, **a weevil**: An infestation was found on plants at a residence in Miami Gardens (Miami-Dade County; E2008-2587; homeowner; 1 May 2008). NEW DPI HOST RECORD.

#### FOREST AND SHADE TREES:

*Bursera simaruba* (gumbo-limbo, West Indian Birch, tourist tree) -- new species in the family Coccidae, **croton scale**: An infestation was found at a residence in Miami (Miami-Dade County; E2008-3823; Catherine M. Mannion and Holly B. Glenn, University of Florida; 10 June 2008). NEW DPI HOST RECORD.

*Carya glabra* (pignut hickory) -- *Myloccerus undecimpustulatus undatus* Marshall, **a weevil**: A severe infestation was found in a vacant lot in Clearwater (Pinellas County; E2008-4161; William J. Salway; 24 June 2008). NEW DPI HOST RECORD.

*Celtis laevigata* (hackberry, sugarberry) -- *Shivaphis celti* Das, **Asian woolly hackberry aphid**: A severe infestation was found at a residence in Indiantown (Martin County; E2008-4267; LeAnn M. West; 26 June 2008). NEW DPI COUNTY RECORD.

*Cinnamomum zeylanicum* (cinnamon tree, Ceylon cinnamon) -- *Aulacaspis tubercularis* (Newstead), **an armored scale**: A moderate infestation was found on a plant at a nursery in Seffner (Hillsborough County; E2008-3346; Jason B. Sharp; 21 May 2008). NEW DPI HOST RECORD, NEW DPI COUNTY RECORD.

*Eucalyptus* sp. (eucalyptus) -- *Glycaspis brimblecombei* Moore, **red gum lerp psyllid**: A slight infestation was found on all plants in a 200-acre block at a tree farm in Palmdale (Glade County; E2008-3104; Mark R. Terrell; 15 May 2008). The farm has 13,000 acres of Eucalyptus. NEW DPI COUNTY RECORD.

*Ficus aurea* (Florida strangler fig) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at the University of Florida IFAS Tropical Research and Education Center in Homestead (Miami-Dade County; E2008-3032; Holly B. Glenn, University of Florida; 19 May 2008). NEW DPI HOST RECORD.



*Red gum lerp psyllids on eucalyptus*  
Photography courtesy of Jeffrey Lotz, DPI



*Guajacum sanctum* (lignum vitae) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-4005; Catherine M. Mannion, University of Florida; 18 June 2008). NEW DPI HOST RECORD.

*Morus* sp. (mulberry) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-3999; homeowner; 18 June 2008). NEW DPI HOST RECORD.

*Pinus clausa* (sand pine) -- *Crypticerya genistae* (Hempel), **a scale insect**: An infestation was found in Highland Scrub Natural Area in Pompano Beach (Broward County; E2008-3290; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 22 May 2008). NEW DPI HOST RECORD.

### FOOD AND CROP PLANTS:

*Capsicum annuum* (pepper) -- *Aphis fabae solanella* Theobald, **nightshade aphid**: An infestation was found on one of two plants at a residence in Gainesville (Alachua County; E2008-3343; homeowner; 29 May 2008). NEW DPI HOST RECORD.

*Cocos nucifera* (coconut palm) -- *Raoiella indica* Hirst, **red palm mite**: A moderate infestation was found on one of five plants at a residence in North Miami Beach (Miami-Dade County; E2008-3667; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 9 June 2008). A slight infestation was found at a residence in Big Coppitt Key (Monroe County; E2008-3822; John Caruso, USDA/APHIS/PPQ; 9 June 2008). Both finds are NEW DPI COUNTY RECORDS.

*Ipomoea batatas* (sweet potato, boniato, camote, batata) -- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: A slight to moderate infestation was found on a plant in an empty lot in Miami (Miami-Dade County; E2008-3003; Olga Garcia; 14 May 2008). NEW DPI HOST RECORD.

*Lactuca sativa* (lettuce, romaine lettuce, leaf lettuce) -- *Nasonovia ribisnigri* (Mosley), **currant-lettuce aphid**: Two slight infestations were intercepted on produce from California at a discount store distribution center in Winter Haven (Polk County; E2008-3206, 3984; Susan C. Distelberg; 21 May, 18 June 2008).

*Litchi chinensis* (litchi, leechee) -- *Scirtothrips dorsalis* Hood, **chili thrips**: A severe infestation was found at a nursery in Homestead (Miami-Dade County; E2008-3395; Julian Lara, grower; 29 May 2008). NEW DPI HOST RECORD. These thrips came from small potted trees in a nursery near infested roses. So far, there is no record of chili thrips on litchi trees in the landscape (Dr. G.B. Edwards).

*Mangifera indica* (mango) -- new species in the family Coccidae, **croton scale**: A severe infestation was found at a military outlet in Jacksonville (Duval County; E2008-3478; Stephen R. Jenner; 4 June 2008). NEW DPI HOST RECORD.

*Manilkara zapota* (sapodilla) -- *Comotia torsicornis* Dyar, **sapodilla flower moth**: A slight infestation was found at the University of Florida IFAS Tropical Research and Education Center in Homestead (Miami-Dade County; E2008-3497; Rita E. Duncan; 8 June 2008). NEW USA CONTINENTAL RECORD. This Neotropical species described from Panama was formerly known only from the holotype (Dr. John B. Heppner).

*Myrciaria cauliflora* (jaboticaba) -- *Strepsicrates smithiana* (Walsingham), **bayberry leaf tier**: A moderate infestation was found at a residence in Miami (Miami-Dade County; E2008-2925; homeowner; 7 January 2008). NEW DPI HOST RECORD.

*Psidium guajava* (common guava, apple guava) -- new species in the family Coccidae, **croton scale**: A severe infestation was found at a residence in Miami (Miami-Dade County; E2008-2858; Eduardo G. Camero; 12 May 2008). NEW DPI HOST RECORD.

#### WEEDS AND GRASSES:

*Melaleuca quinquenervia* (melaleuca, cajeput, punktree, paperbark) -- *Oxyops vitiosa* (Pascoe), **melaleuca weevil**: Specimens were found at a location in Adelaide, New Providence, Bahamas (E2008-3322; Paul D. Pratt, USDA/ARS; 15 March 2007). NEW COUNTRY RECORD.

#### NATIVE AND NATURALIZED PLANTS:

*Ardisia escallonioides* (marlberry) -- new species in the family Coccidae, **croton scale**: An infestation was found at a residence in Homestead (Miami-Dade County; E2008-3607; homeowner; 2 June 2008). NEW DPI HOST RECORD.

*Vinsonia stellifera* (Westwood), **stellate scale**: A severe infestation was found at the University of Miami in Miami (Miami-Dade County; E2008-3742; Olga Garcia; 10 June 2008). NEW DPI HOST RECORD.

*Bidens alba* (beggarticks, romerillo) -- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: A slight infestation was found in a vacant lot in Miami (Miami-Dade County; E2008-2630; Olga Garcia; 1 May 2008). NEW DPI HOST RECORD.

*Borrhichia frutescens* (sea oxeye, bushy seaside tansy) -- *Melanagromyza minimoides* Spencer, **an agromyzid fly**: Three adults were reared from flower heads found in a county park in Vero Beach (Indian River County; E2008-2859; Kenneth L. Hibbard; 1 May 2008). NEW DPI COUNTY RECORD.

*Calyptanthus pallens* (pale lidflower, spicewood) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-4002; homeowner; 18 June 2008). NEW DPI HOST RECORD.

*Campsis radicans* (trumpet creeper) -- *Streptopalpia minusculalis* (Möschler), **a pyralid moth** and Gelechiidae, **a moth**: A severe infestation was found on three plants at a nursery in Naples (Collier County; E2008-3521; Scott D. Krueger; 21 May 2008). Both finds are NEW DPI HOST RECORDS. There is no prior record of any Gelechiidae on *Campsis* (Dr. J.B. Heppner).

*Chamaecrista nictitans* (partridge pea) -- *Icerya purchasi* Maskell, **cottoncushion scale**: A slight infestation was found on a plant at a residence in Miami (Miami-Dade County; E2008-3231; Olga Garcia; 26 May 2008). NEW DPI HOST RECORD.

*Conradina* sp. (false rosemary) -- *Crypticerya genistae* (Hempel), **a scale insect**: An infestation was found at the Highland Scrub Natural Area in Pompano Beach (Broward County; E2008-3285; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 22 May 2008). NEW DPI HOST RECORD.

*Cupania glabra* (Florida toadwood, Florida cupania) -- new species in the family Coccidae, **croton scale**: An infestation was found at a residence in Homestead (Miami-Dade County; E2008-3602; homeowner; 2 June 2008). NEW DPI HOST RECORD.

*Eugenia axillaris* (white stopper) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-3997; homeowner; 18 June 2008). NEW DPI HOST RECORD.

*Hamelia patens* (firebush) -- new species in the family Coccidae, **croton scale**: A severe infestation was found at the University of Florida IFAS Tropical Research and Education Center in Homestead (Miami-Dade County; E2008-3601; Holly B. Glenn, University of Florida, 2 June 2008). NEW DPI HOST RECORD.

*Phyla fruticosa* (diamondleaf fogfruit) -- *Aonidomytilus solidaginis* (Hoke), **goldenrod scale**: A slight infestation was found in a vacant lot in Miami (Miami-Dade County; E2008-2693; Olga Garcia; 1 May 2008). NEW DPI HOST RECORD.

*Psychotria ligustrifolia* (Bahama wild coffee, smooth wild coffee) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-4006; homeowner; 18 June 2008). NEW DPI HOST RECORD.

*Psychotria nervosa* (wild-coffee, Seminole balsamo) -- new species in the family Coccidae, **croton scale**: An infestation was found at a residence in Homestead (Miami-Dade County; E2008-3598; homeowner; 2 June 2008). NEW DPI HOST RECORD.

*Psychotria sulzneri* (shortleaf wild coffee) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-4007; homeowner; 18 June 2008). NEW DPI HOST RECORD.

*Savia bahamensis* (maiden bush) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-4001; homeowner; 18 June 2008). NEW DPI HOST RECORD.

*Schoepfia chrysophylloides* (gulf graytwig) -- *Paratachardina pseudolobata* Kondo & Gullan, **lobate lac scale**: A slight infestation was found at a residence in Copeland (Collier County; E2008-2835; homeowners; 7 May 2008). NEW DPI HOST RECORD.

*Sideroxylon celastrinum* (saffron plum) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-3998; homeowner; 18 June 2008). NEW DPI HOST RECORD.

*Sideroxylon salicifolium* (white bully, willow bustic) -- new species in the family Coccidae, **croton scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2008-4004; homeowner; 18 June 2008). NEW DPI HOST RECORD.

*Smilax pumila* (sarsaparilla vine) -- *Paraleyrodes pseudonaranjae* Martin, **a whitefly**: A slight infestation was found at Captain Forrester Hammock Preserve in Orchid (Indian River County; E2008-2546; Kenneth L. Hibbard; 1 May 2008). NEW DPI HOST RECORD.

*Tillandsia recurvata* (ballmoss) -- *Paracoccus marginatus* Williams and Granara de Willink, **papaya mealybug**: A severe infestation was found at a residence in Miami (Miami-Dade County; E2008-3458; Olga Garcia; 31 May 2008). NEW DPI HOST RECORD.

#### **BENEFICIAL ARTHROPODS:**

*Ormenaria rufifascia* (palm flatid planthopper) -- Strepsiptera, **a twisted-wing parasite**: A single parasitized specimen of *O. rufifascia* was found at DPI headquarters in Gainesville (Alachua County; E2008-4221; Patti J. Anderson and Susan E. Halbert; 27 June 2008). The family Flatidae is not listed among known hosts of North American Strepsiptera. (Dr. Gary J. Steck). NEW DPI HOST RECORD.

#### **FEDERAL AND STATE PLANT PROTECTION AND QUARANTINE PROGRAMS:**

*Bactrocera dorsalis* complex, **Oriental fruit fly complex**: Two flies were found in a single Jackson trap placed in *Citrus sinensis* (sweet orange) at a residence in Orlando (Orange

County; E2008-4094; Willie McDonald, III, USDA/APHIS/PPQ; 20 June 2008). These are the 4<sup>th</sup> and 5<sup>th</sup> *Bactrocera* flies of at least two species, including *B. correcta*, detected in the Orlando area in the last seven months. There seems to be a resurgence of *Bactrocera* introductions not seen in Central Florida since 2001-2002, when six flies of two or more species (including *B. correcta*) were captured. In each instance of recent detections, intensive trapping in the surrounding 81-square-mile area has not revealed any additional fly. Intensified trapping will continue until late September 2008, the period estimated for three complete life cycles (Dr. Gary J. Steck).

#### **ARTHROPOD DETECTION:**

*Cachryphora imbricata* Richards, **a goldenrod aphid**; Specimens were collected in suction traps in an orange grove in Arcadia (DeSoto County; E2008-3049; Shawron Weingarten, Pest Manager, Orange County Groves; 29 April 2008). Another specimen was collected in a suction trap in Winter Haven (Polk County; E2008-3047; Peggy J. Sieburth; 2 May 2008). Both finds are NEW DPI COUNTY RECORDS.

*Camptoprosopella verticalis* (Loew), **a lauxaniid fly**: A specimen was collected by beating flowers, leaves and stems of *Solanum viarum* (tropical soda apple) in a rural area of Okeechobee County (E2008-2010; Ana Clariza Samayoa-Castillo, University of Florida; 5 October 2007). NEW DPI COUNTY RECORD.

*Chalybion zimmermanni aztecum* (Saussure), **a mud dauber wasp**: A specimen was found on *Mangifera indica* (mango) at a residence in Miami (Miami-Dade County; E2008-4018; Juan F. Revuelta; 18 June 2008). NEW DPI COUNTY RECORD. This is the first Florida specimen for the Florida State Collection of Arthropods. The Discover Life Web site lists this species from Central Florida. (Jim Wiley).

*Heterobostrichus hamatipennis* Lesne, **a bostrichid beetle**: A specimen was collected in a light trap at the University of Florida IFAS Ft. Lauderdale Research and Education Center in Davie (Broward County; E2008-2959; Hou-feng Li, University of Florida; 28 April 2008). NEW USA CONTINENTAL RECORD. This Asian species has been found infesting imported baskets and other products, but it has never been collected in the wild before in Florida. This find suggests that it is established, at least in the vicinity of the light trap (Dr. Michael C. Thomas).

*Leptopsilopa similis* (Coquillett), **an ephydrid fly**: A specimen was found by beating flowers, leaves and stems of *Solanum viarum* (tropical soda apple) in a rural area of Okeechobee County (E2008-2011; Ana Clariza Samayoa-Castillo, University of Florida; 5 October 2007). NEW DPI COUNTY RECORD. The distribution is Neotropical and Florida to Texas (Dr. Gary J. Steck).

*Norvellina seminuda* (Say), **a leafhopper**: A specimen was found in a multilure trap in *Citrus sinensis* (sweet orange) in Wauchula (Hardee County; E2008-3672; Cecilia Carrero-Turnbull, USDA/APHIS/PPQ; 2 June 2008). NEW DPI COUNTY RECORD.

*Ocyptamus jactator* (Loew), **a flower fly**: A specimen was found in a multilure trap in *Citrus sinensis* (sweet orange) at a residence in Thonotosassa (Hillsborough County; E2008-3544; Kathleen A. Miller, USDA/APHIS/PPQ; 28 May 2008). NEW DPI COUNTY RECORD.

*Olbiogaster taeniata* (Bellardi), **an anisopodid fly**: A specimen was found in a multilure trap at a residence in Oviedo (Seminole County; E2008-3190; Victor Zeno, USDA/APHIS/PPQ; 21 May 2008). NEW DPI COUNTY RECORD.



*Rhagoletotrypeta rohweri* Foote, **a fruit fly**: A specimen was found in a multilure trap in *Celtis* sp. (hackberry) at a residence in Gainesville (Alachua County; E2008-3652; Cheryl A. Jones; 9 June 2008). NEW DPI COUNTY RECORD. This is a very unusual find for Florida. The host is thought to be *Celtis* fruits (Dr. Gary J. Steck).

*Sobarocephala atrifacies* Sabrosky & Steyskal, **a clusiid fly**: An adult was found in a multilure trap in *Mangifera indica* (mango) at a residence in Lake Worth (Palm Beach County; E2008-2884; Rafael Hernandez, USDA/APHIS/PPQ; 24 March 2008). NEW DPI COUNTY RECORD.

*Spilochroa ornata* (Johnson), **a trixoscelid fly**: A specimen was found in a multilure trap in a *Citrus x paradisi* (grapefruit) tree at a residence in Wauchula (Hardee County; E2008-3670; Cecilia Carrero-Turnbull, USDA/APHIS/PPQ; 30 May 2008). NEW DPI COUNTY RECORD.

*Tripidosteptes quercicola* (Johnston), **a mirid plant bug**: A specimen was found in a Jackson trap in a *Citrus sinensis* (sweet orange) tree at a residence in Avon Park (Highlands County; E2008-2527; Gary H. Moore, USDA/APHIS/PPQ; 29 April 2008). NEW FLORIDA STATE RECORD. This is a rare bug, known only from a few specimens collected in Texas (Dr. Thomas J. Henry, USNM, Systematic Entomology Laboratory, Washington, DC).



*Tripidosteptes quercicola*

Photograph courtesy of David Ziesk, DPI

### Tile Survey

In April 2008, the USDA/APHIS/PPQ and FDACS/DPI combined CAPS team did a survey of tile warehouses to look for exotic arthropods and snails. Intuitively, one would not suspect that ceramic tiles would harbor exotic pests, but in fact, many are intercepted on these products. Beetles and bugs comprise the largest portion of the interceptions, but flies, snails, moths and other groups also are found. Because the survey occurred in the last few days of the previous Tri-ology reporting period, and a number of these samples had to be sent to specialists, we are reporting the tile survey in this issue. Some of the specimens are still awaiting identification by specialists, but most determinations have been completed. The following list, organized by arthropod order, reports most of the important finds. All the specimens were dead when found, mostly confined in shrink wrap, unless otherwise noted.

### Coleoptera:

*Chrysolina* sp., **a chrysomelid beetle**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs and William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic beetle (Dr. Michael C. Thomas).

*Hippodamia variegata* (Goeze), **variegated lady beetle, spotted amber ladybird**: A specimen was found in Miami on tile from Spain (Miami-Dade County; E2008-2417; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason and William E. Cousins, USDA/APHIS/PPQ; 24 April 2008). Three specimens were found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousins, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic beetle (Dr. Michael C. Thomas).

*Parophonus mendax* (Rossi), **a carabid beetle**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This species is widespread in Southern and Central Europe, including Italy. It is found among wild, xerothermophilic, Mediterranean plants, like *Genista* or similar plants (Dr. Achille Casale, Dipartimento di Zoologia e Genetica Evoluzionistica, Universita di Sassari, Sassari, Italy).

*Phaenops* sp., **a buprestid beetle**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic beetle (Dr. Michael C. Thomas).

*Phytodecta fornicata* (Bruggemann), **a chrysomelid beetle**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-1998; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 8 April 2008). Another specimen was found in Miami on tile from Spain (Miami-Dade County; E2008-2417; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason and William E. Cousins, USDA/APHIS/PPQ; 24 April 2008). This is a European pest leaf beetle (Dr. Michael C. Thomas).

*Sinoxylon anale* Lesne, **a bostrichid beetle**: Specimens were recovered from wooden pallets originating in India at a warehouse in Ft. Lauderdale (Broward County; E2008-1900; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 2 April 2008).

*Tetragonoderus laevigatus* Chaudoir, **a carabid beetle**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic beetle already established in Florida (Dr. Michael C. Thomas).

*Xylotrechus stebbingi* Gahan, **a cerambycid beetle**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic beetle (Dr. Michael C. Thomas).

### **Hemiptera (*sensu lato*):**

*Anaceratagallia laevis* (Ribaut), **a leafhopper**: A specimen was found in Miami on tile from Spain (Miami-Dade County; E2008-2417; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason, and William E. Cousins, USDA/APHIS/PPQ; 24 April 2008). This is an exotic species that may transmit plant viruses (Dr. Susan E. Halbert).

*Anaceratagallia venosa* (de Fourcroy), **a leafhopper**: A specimen was found in Miami on tile from Spain (Miami-Dade County; E2008-2417; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason, and William E. Cousins, USDA/APHIS/PPQ; 24 April 2008). Another specimen was found in Pembroke Park on tile from Italy (Broward County; E2008-1988; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 8 April 2008). This is an exotic species known to transmit plant viruses (Dr. Susan E. Halbert).

*Aphrodes* sp., **a leafhopper**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic leafhopper (Dr. Susan E. Halbert).

- Aradus* sp., **a flat bug**: A specimen was found in Miami on tile from Brazil (Miami-Dade County; E2008-2425; E. Ashley Johnson, Thomas T. Dobbs, William Cousens, USDA/APHIS/PPQ and Trevor Smith, FDACS/DPI/CAPS; 23 April 2008). This is probably an exotic bug. There is no match in the Florida State Collection of Arthropods (Dr. Susan E. Halbert).
- Bothriocera maculata* Caldwell, **a cixiid planthopper**: A specimen was found in Miami on tile from Guatemala (E2008-2426; Karolynne M. Griffiths, Leon Cholakis, and William Tang, USDA/APHIS/PPQ, and Michael E. Meadows; 22 April 2008). This species occurs in Florida (Dr. Susan E. Halbert).
- Dolycoris baccarum* (Linnaeus), **sloe bug**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic stink bug. It is a pest of perennials and many cultivated crops, including raspberry, soybean, strawberry and rice (Dr. Susan E. Halbert).
- Geocoris megacephalus* (Rossi), **a big-eyed bug**: Three specimens were found on tile from Italy in Miami (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic predator and a relatively common intercept on tiles (Dr. Susan E. Halbert).
- Lygaeosoma sardeum* Spinola, **a seed bug**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic seed bug and a relatively common intercept on tile (Dr. Susan E. Halbert).
- Lygus* sp. **a lygus bug**: A specimen was found in Miami (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This appears to be an exotic lygus bug (Dr. Susan E. Halbert).
- Metopoplax ditomoides* (Costa), **a seed bug**: A specimen was found alive under shrink wrap in Miami on tiles from Italy (Miami-Dade County; E2008-2412; E. Ashley Johnson, Thomas T. Dobbs, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 24 April 2008). A dead specimen was found in Miami on tiles from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). Another dead specimen was found in Miami on tiles from Brazil (Miami-Dade County; E2008-2425; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is a relatively common intercept on tiles. This is the second time that a live specimen was intercepted in a CAPS tile survey. The species is established in Oregon (Dr. Susan E. Halbert).
- Nabis* sp., **a damsel bug**: A specimen was recovered in Miami on tiles from Spain (Miami-Dade County; E2008-2417; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason and William E. Cousens, USDA/APHIS/PPQ; 24 April 2008). Another specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousens, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is an exotic predator (Dr. Susan E. Halbert).
- Nysius* sp. A specimen was found in Miami on tile from Spain (Miami-Dade County; E2008-2417; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason and William E. Cousens,

USDA/APHIS/PPQ; 24 April 2008). This genus is intercepted commonly. Species are very difficult to separate (Dr. Susan E. Halbert).

*Peribalus (Peribalus) strictus strictus* (Fabricius), **a stink bug**: A specimen was intercepted in Miami on tile from Spain (Miami-Dade County; E2008-2417; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason and William E. Cousins, USDA/APHIS/PPQ; 24 April 2008). This is an exotic bug (Dr. Susan E. Halbert).

*Peritrechus gracilicornis* Puton, **a seed bug**: A specimen was found in Pembroke Park on tile from Italy (Broward County; E2008-1990; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 8 April 2008). This is a common European tile intercept (Dr. Susan E. Halbert).

*Rhytidotus decimusquartus* (Schrank), **a leafhopper**: A specimen was found in Miami on tile from an unknown source (Miami-Dade County; E2008-2401; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason and William E. Cousins, USDA/APHIS/PPQ; 24 April 2008). This European species has become established in New Zealand. It attacks poplar trees and perhaps other hosts (Dr. Susan E. Halbert).

*Spilostethus* sp., **a large milkweed bug**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2427; Aaron R. Beaumont, Adam J. Silagyi, Ann E. Wildman, Frederick Zimmerman and James G. Mason, USDA/APHIS/PPQ; 22 April 2008). This bug most closely matches specimens in the Florida State Collection of Arthropods of *S. hospes*, a species from India; however, it may be *S. furculus*, a species from Europe. Surprisingly for milkweed bugs, both of these species have a fairly wide host range and are pests of solanaceous crops (Dr. Susan E. Halbert).



*Spilostethus* sp.  
Photograph courtesy of David Ziesk, DPI

*Stagonomus bipunctatus* (Linnaeus), **a stink bug**: A specimen was found in Pembroke Park on tile from Italy (Broward County; E2008-1989; Karolynne M. Griffiths, USDA/APHIS/PPQ, and Michael E. Meadows; 8 April 2008). This is a European species (Dr. Susan E. Halbert).

### Orthoptera:

Several specimens were collected at tile warehouses, but they could not be identified. When we receive more information, we will report the opinions of specialists.

### Other arthropods:

*Erigone dentipalpis* (Wider), **a micro sheetweb weaver**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs, William E. Cousins, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is a Eurasian species (Dr. G.B. Edwards).

*Euophrys frontalis* (Walckenaer), **a jumping spider**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs and William E. Cousins, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This is a Eurasian species (Dr. G.B. Edwards).

*Metellina* sp., **a spider**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2424; E. Ashley Johnson, Thomas T. Dobbs and William E. Cousins,



USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 23 April 2008). This genus occurs in Eurasia and western North America (Dr. G.B. Edwards).

*Scytodes thoracica* (Latreille), **a spider**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2414; E. Ashley Johnson, Thomas T. Dobbs, USDA/APHIS/PPQ, and Trevor R. Smith, FDACS/DPI/CAPS; 24 April 2008). This species is Holarctic, but not found previously in South Florida. It probably is an interception (Dr. G.B. Edwards).

*Cylindroiulus* sp., **a millipede**: A specimen was found in Miami on tile from Italy (Miami-Dade County; E2008-2423; Aaron R. Beaumont, Adam J. Silagyi, James G. Mason and William E. Cousins, USDA/APHIS/PPQ; 24 April 2008). This is a European species (Dr. G.B. Edwards).

**NEMATOLOGY SECTION**  
**Compiled by Janete A. Brito, Ph.D; and Renato N. Inserra, Ph.D.**

A total of 3,304 samples (2,946 for morphological and 358 for molecular identifications) were processed from May to June 2008. Details are shown below:

<p><b>Certification and Regulatory Samples:</b> Multi-state Certification for National and International Export ..... 1,845 California Certification..... 836 Pre-movement (Citrus Nursery Certification) ..... 10 Site or Pit Approval (Citrus Nursery and Other Certifications)..... 16</p>	<p><b>Other Samples:</b> Identifications (invertebrate) ..... 1 Plant Problems ..... 56 Intrastate Survey, Random..... 182</p> <p><b>Molecular Identifications*</b> ..... 358</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 May-June 2008:

*Abelia x grandiflora* (glossy abelia) - *Aphelenchoides fragariae* (Ritzema Bos, 1891) Christie, 1932, **spring crimp nematode** infected the leaves of this ornamental flowering shrub (Alachua County, N08-00824, Robert Leahy, 12 June 2008). Nematode infection induced leaf discoloration and chlorosis resulting in heavy defoliation of the infected plants. Spring crimp infections on abelias are not common in Florida, but have been reported in Georgia and several other states.

*Myrica cerifera* (wax myrtle; southern bayberry) - *Meloidogyne enterolobii* Yang & Eisenback, 1983 (= *M. mayaguensis* Rammah & Hirschmann, 1988), **a root-knot nematode** infected the roots of this evergreen shrub (Miami-Dade County, N08-00281, Ana L. Ochoa, 28 February 2008). Roots were severely galled by the nematode. We would like to point out that the morphological and molecular similarities between *M. enterolobii* and *M. mayaguensis* have been observed for many years, in studies from different countries. Recent morphological and molecular analyses of the type material of *M. enterolobii* and *M. mayaguensis* (Karszen *et al.* in press) have confirmed the results of these studies and have provided conclusive evidence that *M. enterolobii* is a senior synonym of *M. mayaguensis*.



*Meloidogyne enterolobii*  
Photograph courtesy of J. Brito and M. Beckman, DPI

*Callistemon viminalis* (bottlebrush). *Meloidogyne enterolobii* Yang & Eisenback, 1983 (= *M. mayaguensis* Rammah & Hirschmann, 1988), **a root-knot nematode** infected the roots of this ornamental evergreen shrub (Putman County, N08-00655, Sol F. Looker, 8 May 2008).  
**NEW COUNTY RECORD.**

COLLECTORS SUBMITTING FIVE OR MORE SAMPLES THAT WERE PROCESSED FOR  
NEMATOLOGICAL ANALYSIS DURING MAY-JUNE 2008

Anderson, James L. ....	151	Ochoa, Ana L. ....	330
Bloom, Richard T. ....	5	Pate, Jo Ann ....	35
Burgos, Frank A. ....	6	Qiao, Ping ....	208
Edenfield, Carrie S. ....	87	Salisbury, Thomas L. ....	133
Fleites, Laura A. ....	5	Silagyi, Adam J. ....	12
LeBoutillier, Karen W. ....	249	Smith, Trevor R. ....	23
Leggett, Charles A. ....	5	Spriggs, Charles L. ....	131
Looker, Sol F. ....	9	Toral, Angelina M. ....	30
		Vazquez, Dagne A. ....	12

## PLANT PATHOLOGY SECTION

### Compiled by Robert M. Leahy

For this period, the Plant Pathology Section received and processed 1,027 specimens. These included 392 pathology, 12 bees, 443 citrus greening, 10 soil and three miscellaneous samples. No full pathogenicity tests for citrus canker were performed, but visual examinations were conducted for six samples from South East Florida, eight from Central Gulf Coast Florida, 45 from South West Gulf Coast Florida, 100 from Central Florida and eight from North Florida.

#### ORNAMENTALS, WOODY PLANTS AND PALMS:

*Azadirachta indica* (neem) – *Pseudocercospora subsessilis*, **leaf spot**: Collected at a tree farm, Hillsborough County (May 8, 2008; Joseph S. Hawk; P2008-14923). NEW HOST RECORD.

*Ligustrum japonicum* (waxleaf privet) – *Phytophthora palmivora*, **root rot**: Collected at a nursery in Union County (May 20, 2008; Mary J. Echols; P2008-15076). NEW HOST RECORD.

#### ORNAMENTALS, FOLIAGE PLANTS:

*Modiola caroliniana* (Carolina bristlemallow) – *Puccinia malvacearum*, **rust**: Collected at a tree farm, Alachua County (June 25, 2008; Cheryl A. Jones; P2008-15699). NEW HOST RECORD.

*Tragopogon dubius* (yellow salsify) – Tomato spotted wilt, **virus**: Collected from a laboratory at the University of Florida, Department of Botany, Alachua County (May 21, 2008; Lewis D. Prevatt, II and Douglas E. Soltis, University of Florida; P2008-15040). NEW HOST RECORD.

*Tragopogon mirus* (remarkable goatsbread) – Tomato spotted wilt, **virus**: Collected from a laboratory at the University of Florida, Department of Botany, Alachua County (May 12, 2008; Lewis D. Prevatt, II and Douglas E. Soltis, University of Florida; P2008-14956). NEW HOST RECORD.

*Tragopogon porrifolius* (salsify) – Tomato spotted wilt, **virus**: Collected from a laboratory at the University of Florida, Department of Botany, Alachua County (May 20, 2008, Lewis D. Prevatt, II and Douglas E. Soltis, University of Florida; P2008-15027). NEW HOST RECORD.

*Tragopogon pratensis* (Jack-go-to-bed-at-noon) – Tomato spotted wilt, **virus**: Collected from a laboratory at the University of Florida, Department of Botany, Alachua County (May 21, 2008; Lewis D. Prevatt, II and Douglas E. Soltis, University of Florida; P2008-15462). NEW HOST RECORD.

#### WEEDS AND GRASSES:

*Dalechampia scandens* (spurge creeper) – *Pseudocercospora mucunicola*, **fungal leaf spot**: Collected at a nature center, Broward County (May 25, 2008; Robert W. Pemberton, USDA; P2008-15407). NEW COUNTRY RECORD.