

BOTANY SECTION

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

For this period, 170 specimens were submitted to the Botany Section for identification and 2,013 were received from other sections for identification/name verification (total 2,183). Some of the samples sent in for identification are discussed below:

Abrus precatorius L. (A genus of 17 species found worldwide in warm regions.)

Leguminosae/Fabaceae. **Rosary pea, crab's-eyes, licorice vine.** A twining, woody vine with pinnately compound leaves, having 8-20 pairs of oblong 1-1.3 cm long leaflets. The inflorescence is a raceme 1-3 cm long. The flowers are papilionaceous (pea-like), pale purple to lavender or white (rarely). The fruit is a 1-1.5 cm wide pubescent legume containing 4-8 pea-shaped seeds that are scarlet red with a



black spot. These attractive



seeds (used to make bead

necklaces and other jewelry) are extremely poisonous. According to Morton (1990), chewing and swallowing even a single rosary pea can be fatal, but the toxin can be rendered harmless by boiling. The peas are quite bland, but the roots have been used as a licorice flavoring. The species is an exotic invasive in Florida, Hawaii and several Caribbean

Islands and was recently added to the FDACS Noxious Weed List. (Sarasota County; B2006-463; Christopher C. Carter; 27 September 2006.) (Kunkel 1984; Langeland and Burks 1998; Mabberly 1997; Morton 1990;

<http://www.ces.ncsu.edu/depts/hort/consumer/poison/Abruspr.htm>;

<http://www.plantatlas.usf.edu>).

Baccharis angustifolia Michx. (A genus of about 400 species in the Americas.) Compositae/

Asteraceae. **Saltwater false willow, narrowleaf baccharis.** A shrub, up to 4 m tall, with glabrous stems. Although similar in many ways to the more common freshwater wetland species, *B. halimifolia*, the narrow leaves of this species are 20–60 × 1–5 mm with entire margins, and it grows near brackish waters of coastal salt marshes, hammocks and stream banks. Inflorescences are broad panicles of many flowers that are most attractive when they go to seed in the late summer to fall. As with many other members of this family (including the



dandelion), the seeds are wind-dispersed with the aid of a pappus or modified calyx (6-8 mm long). At close range, the white pappi reveal green or purple tips. Liquid from boiling the roots of several *Baccharis* species have been used medicinally for coughs and colds; the leaves have also been used to produce a yellow dye, fixed with alum. (Hardee County;

B2006-421; Susan C. Griego; 13 September 2006.) (Austin 2004; Mabberly 1997;
<http://www.pfaf.org>; <http://www.efloras.org>)

Coccoloba uvifera (L.) L. (A genus of 120 species found in tropical and warm subtropical Americas.) Polygonaceae. **Sea grape, shore grape, uva de playa.** This shrub or small tree (up to 10 m) can form sprawling hedges along beaches or in coastal hammocks of South Florida and has been documented, in all coastal counties, as far north as Pasco and Volusia.



Easily identified by its rounded, leathery leaves (up to 20 x 20 cm) with prominent (often red) veins, the sea grape shares a characteristic with most members of this family: a sheath (called an *ocrea*) surrounding the stem at each node, formed by the fusion of two stipules. The inflorescences are 10 – 30 cm pendulous racemes, composed of either pistillate or staminate flowers on separate plants. The fruits grow in narrow clusters that turn from green to reddish-purple when ripe (hence the common name). This species produces tannins, used as an astringent or medicine to treat dysentery, as well as fruits that can be eaten raw when ripe or used to make jams, jellies, and even an alcoholic drink. The red-colored wood was used in housing

construction in early 1500s. (Miami-Dade County; B2006-432; Michael E. Meadows; 24 August 2006.) (Austin 2004; Howard 1988; Mabberly 1997; Moore 1990;
www.efloras.org; <http://www.plantatlas.usf.edu>)

Galactia volubilis (L.) Britt. (A genus of 140 species found mostly in warm areas of the Americas; three, in Australia.) Leguminosae/Fabaceae. **Milk-pea, downy milk-pea.** This species name comes from the combination of a Greek word, *galaktos*, for milky (like the Milky



Way galaxy) and the Latin word for twining, *volubilis*. This perennial herbaceous vine, growing up to 1-2 m long, has tri-foliate leaves; the leaflets are ovate to oblong, 1.5-4.5 cm. The papilionaceous flowers have purplish pink petals. The fruit, a legume, is 2-6 cm x 3-5 mm. Unlike *Abrus precatorius*, described above, this species is neither invasive nor toxic. Populations of this species are found commonly in Florida, especially in interior (not coastal) scrub communities. It has been used as an analgesic, antidiarrheal, and febrifuge. (DeSoto County; B2006-425; Karen L. Etchells; 12 September 2006.) (Austin 2004; Isely 1990; Mabberly

1997; Sturtevant 1954; <http://www.plantatlas.usf.edu>)

Psidium cattleianum Sabine. (A genus of about 100 species found in the New World tropics.) Myrtaceae. **Strawberry guava, cattley guava.** An evergreen shrub or small tree (up to 5 m tall) with peeling, gray-brown bark and dark green, shiny, glabrous, aromatic, ovate leaves to 7.5 cm long. The solitary flowers are up to 2.5 cm, with five white petals and numerous stamens. The fruits are globose, purplish-red berries, 2.5-4 cm, tipped with a remnant 4- to 5-parted calyx; this red or purple-red fruit is sometimes thought to taste like strawberries. The species



spreads through fruits eaten by birds (or feral pigs in Hawaii) and root suckers, easily invading natural areas outside its native Brazil. In Hawaii, it forms dense, solid stands in moist areas, and has become a weedy pest in several tropical countries. In Florida, EPPC lists *P. cattleianum* as a Category I invasive. (Brevard County; B2006-467; Ali Darrat and Ed Cusano; 28 September 2006.) (Cronk and Fuller 1995; Huxley 1992; Langeland and Burks 1998; photo courtesy of [Forest & Kim Starr \(USGS\)](http://www.biology.usgs.gov); <http://www.botany.hawaii.edu>; <http://www.nps.gov/plants/alien>); http://www.hort.purdue.edu/newcrop/morton/cattley_guava.html

Selaginella uncinata (Desv. Ex Poir.) Spring. (A genus with about 700 species, mainly from tropical or warm regions worldwide, but with a few temperate species.) Selaginellaceae. **Blue spike-moss, peacock spike-moss.** These small-statured, moss-like plants form mats of creeping stems and rhizomes (0.3-0.4 mm in diameter). The leaves are ovate to oblong, 3-4 mm x 1.5- 2.5 mm and strobili are cylindrical, 0.5-1.5 cm. *Selaginella uncinata*, like several species found in the understory of humid tropical forests, has adapted to absorb light wave lengths filtered through the upper canopy. Shade grown individuals appear blue, not from a pigment, but from an optical effect, similar to a drop of oil on water, that allows lens-shaped upper epidermal cells to capture light that has passed through taller plants. The plants then use these light waves for photosynthesis. When members of this species are grown in sun rather than shade, the leaves lose their bluish hue. Native to southern China, *S. uncinata* is widely cultivated and often used in terraria. This species has also shown antiviral activity against respiratory illnesses. (Flagler County; B2006-482; Raymond C. Jarrett, Jr.; 2 October 2006.) (Bone *et al.* 1985; Hébant and Lee 1984; Ma *et al.* 2003; Mabberly 1997; <http://www.efloras.org>)

Smilax auriculata Walt. (A genus composed of about 300 temperate species.) Smilacaceae or Liliaceae. **Earleaf greenbriar, catbriar.** These spiny, evergreen vines climb by using a pair of tendrils that arise from the base of each leaf. Leaf blades are narrowly ovate to ovate-elliptic, with 3 prominent veins, and an auriculate (earlike) base, although the leaves can be quite variable in shape. The inflorescences are axillary umbels, usually with 5–8 flowers (staminate 6–8 mm; pistillate 3–4 mm). The tepals of the flowers are green; the ripe berries (5–7 mm) are maroon, purple or black and provide abundant food for wildlife. As for human food, the dense, starchy rhizomes can be ground to produce reddish flour, a source of carbohydrates used by early Floridians. The plant has been used as a tonic and has been tested for efficacy as an anti-rheumatic and antioxidant with some positive results. Roots of *Smilax* species, including this one, are the source of flavoring for sarsaparilla. (Duval County; B2006-469; Julieta Brambila; 3 October 2006.) (Austin 2004; Sturtevant 1954; <http://herb.umd.umich.edu>; <http://plants.usda.gov>)



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Unless otherwise noted, all photographs 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 September, there were 1,245 samples and 29,741+ specimens. In October, there were 1,454 samples and 42,673+ specimens. Some of the samples are listed below:

ORNAMENTALS, WOODY PLANTS, AND PALMS:

Erythrina variegata (coral tree, sunshine tree)-- *Quadrasticus erythrinae* Kim, **Erythrina gall wasp**: A severe infestation was found at the Miami Metro Zoo (Miami-Dade County; E2006-7673; Edward T. Putland and Olga Garcia; 15 October 2006). NEW USA CONTINENTAL RECORD. The erythrina gall wasp is believed to have originated in Africa, but this remains uncertain. It was described from specimens from Singapore, Mauritius, and Reunion. In the past two years, it has spread to China, India, Taiwan, Philippines, and Hawaii. Erythrina gall wasps cause severe curling and deformation of leaves and shoots and can kill trees (excerpted from DPI Pest Alert by James R. Wiley and Dr. Paul E. Skelley).

Grevillea robusta (silk-oak)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A moderate infestation was found at a nursery in Apopka (Orange County; E2006-6969; Kathy A. Gonzalez; 26 September 2006). NEW DPI HOST RECORD.

Lagerstroemia indica (crape myrtle)-- *Megalurothrips mucunae* (Priesner), **a thrips**: Several specimens were found at an IFAS unit in Quincy (Gadsden County; E2006-6858; Joseph E. Funderburk, University of Florida, IFAS, Quincy; 21 September 2006). NEW DPI STATE RECORD. This species was recorded recently from Georgia on vetch. It is an Asian pest on several Fabaceae.

Phoenix roebelenii (pigmy date palm)-- *Mycetaspis defectopalus* Ferris, **defecto scale**: An infestation was found on 7,100 plants at a nursery in Miami (Miami-Dade County; E2006-6840; Haydee I. Escobar; 20 September 2006). NEW DPI HOST RECORD.

ORNAMENTALS, FOLIAGE PLANTS:

Bambusa sp. (bamboo)-- *Dendrobiella* sp. prob. *sericans* (LeConte) and *Trogoxylon prostomoides* (Gorham) **bostrichid beetles**: A moderate to severe infestation was found in imported articles at an art gallery in Bradenton (Manatee County; E2006-7485; Mark L. Runnals; 10 October 2006). These are neotropical species not known to be established in Florida (Dr. Michael C. Thomas).

Palmicultor lumpurensis (Takahashi), **a bamboo mealybug**: A moderate infestation was found on three of 20 plants at a nursery in Sarasota (Sarasota County; E2006-6148; K. Lea Etchells; 8 September 2006). Another infestation was found at a nursery in Punta Gorda (Charlotte County; E2006-6305; Richard L. Blaney; 12 September 2006). Both finds are NEW DPI COUNTY RECORDS.

Galphimia gracilis (slender goldshower; thryallis)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A slight infestation was found at a club house in Miami (Miami-Dade County; E2006-6074; Olga Garcia; 1 September 2006). NEW DPI HOST RECORD.

Opuntia sp. (cactus)-- *Cactoblastis cactorum* (Berg), **cactus moth**: A moderate infestation was found along a roadside in Wachula (Hardee County; E2006-5674; George C. Pritchard and Joann Curfman, USDA/APHIS Safeguarding Technicians; 17 August 2006). NEW DPI COUNTY RECORD.

ORNAMENTALS, FLOWERING PLANTS:

Bolusanthus speciosus (elephantwood, South African wisteria)-- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: A severe infestation was found at Chapman Field in Miami (Miami-Dade County; E2006-8126; Edward T. Putland; 30 October 2006). NEW DPI HOST RECORD.

Bulbine frutescens (asphodel)-- *Philephedra tuberculosa* Nakahara & Gill, **a soft scale**: A slight infestation was found in a nursery in Apopka (Orange County; E2006-6971; Kathy A. Gonzalez; 25 September 2006). NEW DPI HOST RECORD.

Planococcus citri (Risso), **citrus mealybug**: A moderate infestation on all of ten plants was found at a residence in Miami (Miami-Dade County; E2006-8147; Olga Garcia; 27 October 2006). NEW DPI HOST RECORD.

Hibiscus rosa-sinensis (hibiscus)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A moderate infestation was found at a residence (Lake County; E2006-7755; Sandra Harrison, homeowner; 18 October 2006). NEW DPI COUNTY RECORD.

Lonchocarpus violaceus (lancepod)-- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: A moderate infestation was found at the Miami Metro Zoo (Miami-Dade County; E2006-7618; Edward T. Putland and Olga Garcia; 15 October 2006). NEW DPI HOST RECORD.

Rosa sp. (rose)-- *Diaspidiotus juglansregiae* (Comstock), **English walnut scale**: A moderate infestation was found at a residence in North Fort Myers (Lee County; E2006-5989; Richard L. Blaney; 29 August 2006). NEW DPI COUNTY RECORD.

Scirtothrips dorsalis Hood, **chili thrips**: A severe infestation was found at a residence in Hudson (Pasco County; E2006-6026; Welty Trout, homeowner; 5 August 2006). NEW DPI COUNTY RECORD. Another infestation was intercepted at a retail garden center in Puerto Rico (E2006-6607; Mary Ann Cruz and Shirley Cruz, employees; 22 February 2006).

Tithonia diversifolia (Mexican sunflower, shrub sunflower, tree marigold)-- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A slight infestation was found on both of two plants at a residence in Miami (Miami-Dade County; E2006-8117; Edward T. Putland and Olga Garcia; 29 October 2006). NEW DPI HOST RECORD.

FOREST AND SHADE TREES:

Bursera simaruba (gumbo-limbo)-- *Conchaspis cordiae* Mamet, **false armored scale**: A severe infestation was found at a residence in Miami (Miami-Dade County; E2006-7365; Eduardo Mendoza and Haydee I. Escobar; 6 October 2006). NEW DPI HOST RECORD.

Celtis laevigata (hackberry, sugarberry)-- *Fiorinia fioriniae* (Targioni-Tozzetti), **fiorinia scale**: A slight infestation on all of four plants was found at a residence in Moore Haven (Glades County; E2006-7213; Lori A. Richards; 4 October 2006). NEW DPI COUNTY RECORD.

Diospyros virginiana (common persimmon)-- *Massileurodes americanus* Linnaeus, **a whitefly**: A moderate infestation was found at a residence in Tangerine (Orange County; E2006-6720; Kathy A. Gonzalez; 19 September 2006). NEW DPI COUNTY RECORD. This whitefly probably is common throughout the South, but people rarely encounter it. This species seems restricted to persimmon and generally is not a pest problem (Dr. Greg S. Hodges).

Ficus altissima (council tree, false banyan)-- *Zaprionus indianus* Gupta, **a fruit fly**: Specimens were reared from ripe fruit collected on trees and the ground in Stuart (Martin County; E2006-7339; Kenneth L. Hibbard; 26 September 2006). NEW DPI HOST RECORD.

Ocotea coriacea (lancewood)-- *Aleuroplatus vinsonioides* (Cockerell), **a whitefly**: A slight infestation was found in a natural area under power lines in Fort Pierce (St. Lucie County; E2006-7501; Kenneth L. Hibbard; 12 October 2006). NEW DPI COUNTY RECORD.

Taxodium ascendens (pond cypress)-- *Criscoccus taxodii* Kosztarab, **baldcypress mealybug**: A slight to moderate infestation was found on ten of 1,000 plants at a preserve in Monroe Station (Collier County; E2006-6754; Olga Garcia and Edward T. Putland; 20 September 2006). NEW DPI COUNTY RECORD.

Taxodium distichum (bald cypress)-- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: A slight infestation was found on four plants at the Miami Metro Zoo (Miami-Dade County; E2006-7616; Edward T. Putland and Olga Garcia; 15 October 2006). NEW DPI HOST RECORD.

Ulmus parvifolia (Chinese elm)-- *Tinocallis ulmipavifoliae* Matsumura, **Chinese elm aphid**: A moderate population was found on trees at the Davis Arboretum in Auburn, Alabama (E2006-7659; Kathy A. Flanders, Auburn University Entomology Department and Susan E. Halbert; 15 October 2006). NEW STATE RECORD FOR ALABAMA.

FOOD AND CROP PLANTS:

Averrhoa carambola (carambola, starfruit, blimbing)-- *Zaprionus indianus* Gupta, **a fruit fly**: Flies were reared from fruit collected from the ground in Stuart (Martin County; E2006-6181; Kenneth L. Hibbard; 23 August 2006). NEW DPI HOST RECORD.

Cajanus cajan (pigeonpea, gandules, Congo bean, gungo bean)-- *Icerya genistae* Hempel, **a margarodid scale**: A moderate infestation was found on a plant at a residence in Ft. Lauderdale (Broward County; E2006-6633; Nury M. Marrone; 18 September 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Glycine max (soybean)-- *Aphis glycines* Matsumura, **soybean aphid**: A slight infestation was found at Auburn University in Auburn, Alabama (E2006-7655; Kathy A. Flanders, Auburn University Entomology Department; 15 October 2006). This find confirms the presence of soybean aphid in Alabama (Dr. Kathy A. Flanders and Dr. Susan E. Halbert).

CITRUS:

Citrus sp. (citrus)-- *Scirtothrips dorsalis* Hood, **chili thrips**: A slight infestation was found at a discount garden center in Port Charlotte (Charlotte County; E2006-5951; Lorrie R. Rigby; 29 August 2006). NEW DPI HOST RECORD. Another infestation was found at a discount garden center in Clewiston (Hendry County; E2006-6317; Lorrie R. Rigby; 13 September 2006). NEW DPI COUNTY RECORD.

WEEDS AND GRASSES:

Bidens pilosa (Spanish-needles)-- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: A moderate infestation on all of three plants was found at a residence in Clewiston (Hendry County; E2006-7032; Jo Ann Pate; 28 September 2006). NEW DPI HOST RECORD.

Bothriochloa pertusa (pitted bluestem)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found on a roadside in Miami (Miami-Dade County; E2006-8073; Olga Garcia; 26 October 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

- Chamaesyce hirta* (spurge)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found on ten plants along a roadside in Miami (Miami-Dade County; E2006-6483; Olga Garcia; 15 September 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).
- Chamaesyce mesembrianthemifolia* (coastal beach sandmat)-- *Icerya genistae* Hempel, **a margarodid scale**: A moderate infestation was found at John Lloyd State Park in Dania Beach (Broward County; E2006-7470; William A. Thiel; 9 October 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).
- Conyza canadensis* (Canadian horseweed)-- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A slight infestation was found at a residence in Hialeah (Miami-Dade County; Haydee I. Escobar and Eduardo Mendoza; E2006-8202; 1 November 2006). NEW DPI HOST RECORD.
- Crassocephalum crepidioides* (redflower ragleaf)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A severe infestation on both of two plants was found at a nursery in Lake Mary (Seminole County; E2006-8088; Tirzah M. Lyons and Jesse M. Krok; 25 October 2006). NEW DPI HOST RECORD.
- Desmodium incanum* (zarzabacoa comun)-- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A severe infestation was found at a residence in Miami (Miami-Dade County; E2006-7613; Edward T. Putland and Olga Garcia; 14 October 2006). NEW DPI HOST RECORD.
- Desmodium tortuosum* (Dixie ticktrefoil)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found along a roadside in Miami (Miami-Dade County; E2006-8084; Olga Garcia; 26 October 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).
- Eupatorium capillifolium* (dogfennel)-- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A slight infestation was found at a residence in Hialeah (Miami-Dade County; E2006-8183; Haydee I. Escobar and Eduardo Mendoza; 1 November 2006). NEW DPI HOST RECORD.
- Gaura lindheimeri* (Lindheimer's beeblossom)-- *Scirtothrips dorsalis* Hood, **chili thrips**: A slight infestation was found at a discount garden center in Altamonte Springs (Seminole County; E2006-6535; Mary S. Brennan, Entomology, IFAS, Apopka; 18 September 2006). NEW DPI HOST RECORD.
- Heterotheca subaxillaris* (camphorweed)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found on a roadside in Miami (Miami-Dade County; E2006-7396; Olga Garcia; 9 October 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).
- Ipomoea pes-caprae* (railroad vine, beach morning glory, goat's-foot morning glory)-- *Icerya genistae* Hempel, **a margarodid scale**: A moderate infestation was found at John Lloyd State Park in Dania Beach (Broward County; E2006-7468; William A. Thiel; 9 October 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).
- Ipomoea* sp. (morning glory)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found on a plant at a residence in Miami (Miami-Dade County; E2006-6306; Olga Garcia; 12 September 2006). NEW DPI HOST RECORD. This species was identified previously as

Icerya rileyi nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Leguminosae, (a legume)-- *Icerya genistae* Hempel, **a margarodid scale**: An infestation was found at Port Everglades in Hollywood (Broward County; E2005-3743; Margarita A. Lahens and Heather N. Hursh; 7 July 2005). NEW DPI CONTINENTAL RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Macroptilium lathyroides (wild bushbean)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found on a plant at a residence in Miami (Miami-Dade County; E2006-6307; Olga Garcia; 12 September 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Graminae (grass)-- *Melanaphis sorini* Halbert & Remaudière, **Asian miscanthus aphid**: A moderate infestation was found in the greenhouse at the Division of Plant Industry facility in Gainesville (Alachua County; E2006-7198; Renato N. Inserra; 6 October 2006). This collection indicates that earlier eradication efforts were unsuccessful. It is an Asian introduction that was discovered at an amusement park near Orlando in 1996 and is apparently specific to *Miscanthus* (Dr. Susan E. Halbert).

Portulaca pilosa (pink purslane)-- *Hypogeococcus pungens* Granara de Willink, **a mealybug**: A severe infestation was found at a residence in Tavares (Lake County; Mary C. Sellers; E2006-7583; 11 October 2006). NEW DPI HOST RECORD.

Richardia grandiflora (largeflower Mexican clover)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found along a roadside in Aventura (Miami-Dade County; E2006-7395; Olga Garcia; 9 October 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Solidago leavenworthii (Leavenworth's goldenrod)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found at a residence in Miami (Miami-Dade County E2006-6319; Olga Garcia; 12 September 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Stachytarpheta jamaicensis (blue porter weed)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A slight infestation was found on a plant at a residence in Oakland (Orange County; E2006-6993; Charles A. Leggett; 26 September 2006). NEW DPI HOST RECORD.

Tridax procumbens (coat buttons)-- *Icerya genistae* Hempel, **a margarodid scale**: A moderate infestation was found at an IFAS unit in Ft. Lauderdale (Broward County; E2006-8221; Bryan Steinberg, University of Florida, IFAS, Ft. Lauderdale; 27 October 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Waltheria indica (uhaloa, sleepy morning)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found on a roadside in Miami (Miami-Dade County; E2006-7394; Olga Garcia; 9 October 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

NATIVE AND NATURALIZED PLANTS:

Ampelopsis arborea (peppervine)-- *Icerya genistae* Hempel, **a margarodid scale**: A severe infestation was found on four plants along a roadside in Miami (Miami-Dade County; E2006-6484; Olga Garcia; 14 September 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Conocarpus erectus (silver buttonwood)-- *Scirtothrips dorsalis* Hood, **chili thrips**: A moderate infestation was found on two to four of 24 plants at a discount garden center in Punta Gorda (Charlotte County; E2006-6216; Richard L. Blaney; 8 September 2006). NEW DPI HOST RECORD.

Ilex cassine (Dahoon holly)-- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: A slight infestation was found on 35-50% of about 10,000 plants at a nursery in Clewiston (Hendry County; E2006-6876; Lori A. Richards; 25 September 2006). NEW DPI HOST RECORD.

Iresine diffusa (Juba's bush)-- *Pulvinaria urbicola* Cockerell, **urbicola soft scale** and *Pseudococcus longispinus* (Targ.-Tozz): A slight infestation was found on over 100 plants at Bill Baggs Cape Florida State Park in Miami (Miami-Dade County; E2006-7345; Olga Garcia and Edward T. Putland; 8 October 2006). NEW DPI HOST RECORDS.

Krugiodendron ferreum (black ironwood, leadwood)-- *Miraces modesta* (Horn), **a leaf beetle**: A specimen was found at a nursery in Tavernier (Monroe County; E2006-6185; Lynn D. Howerton; 6 September 2006). This is a very rare native beetle (Dr. Michael C. Thomas).

Melanthera nivea (snow squarestem)-- *Pseudococcus jackbeardsleyi* Gimpel & Miller, **Jack Beardsley mealybug**: A slight infestation was found on Little Duck Key (Monroe County; E2006-7189; Julieta Brambila, USDA/APHIS/PPQ; 27 September 2006). NEW DPI HOST RECORD.

Myrcianthes fragrans (Simpson's stopper, nakedwood, twinberry)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A moderate to severe infestation was found on one of four plants at a nursery in Big Pine Key (Monroe County; E2006-6885; Lynn D. Howerton; 20 September 2006). NEW DPI HOST RECORD.

Passiflora sp. (passionflower)-- *Chondrocerca laticornis* Laporte, **a leaffooted bug**: A specimen was found at a residence in Naples (Collier County; E2006-6714; Scott D. Krueger; 17 September 2006). NEW DPI COUNTY RECORD.

Piscidia piscipula (Florida fish-poison tree, Jamaican-dogwood)-- *Eutetranychus banksi* (McGregor), **Texas citrus mite**: A slight infestation was found on a plant along a roadside in Islamorada (Monroe County; E2006-7082; Olga Garcia and Edward T. Putland; 1 October 2006). NEW DPI HOST RECORD. This mite frequently is a pest of citrus, but it can be found on a variety of plants in Florida (Dr. W.C. 'Cal' Welbourn).

Poinsettia cyathophora (wild poinsettia, fire-on-the-mountain, paintedleaf)-- *Icerya genistae* Cockerell, **a margarodid scale**: A slight infestation on one of ten plants was found at a residence in Miami (Miami-Dade County; E2006-6487; Olga Garcia; 14 September 2006). NEW DPI HOST RECORD. This species was identified previously as *Icerya rileyi* nr. Recent studies with Brazilian type material indicate that it is *Icerya genistae* (Dr. Greg S. Hodges).

Solanum erianthum (potato tree)-- *Dysmicoccus neobrevipes* Beardsley, **a mealybug**: A slight infestation was found on ten plants at a residence in Lehigh Acres (Lee County; E2006-7038; Patricia L. McMackins, USDA/APHIS/PPQ; 29 September 2006). NEW DPI HOST RECORD.

Viburnum obovatum (Walter's viburnum, small-leaf viburnum)-- *Trachyderes* (*Dendrobias*) *mandibularis* Dupont, a **longhorn beetle**: A moderate infestation on one of 100 plants was found at the Manatee County Sheriffs Department in Palmetto (Manatee County; E2006-6471; Karyn L. Pippenger and K. Lea Etchells; 15 September 2006). NEW DPI COUNTY RECORD.

FEDERAL AND STATE PLANT PROTECTION AND QUARANTINE:

Apium graveolens (garden celery)-- *Bactericera cockerelli* (Šulc), **potato psyllid**: A specimen was intercepted on a shipment of vegetables from California at a discount distribution center in Arcadia (De Soto County; E2006-7915; Susan C. Griego; 23 October 2006). The potato psyllid is a serious pest of potato and other solanaceous crops. It does not occur in Florida. This specimen probably was a hitchhiker on the celery, because celery is not known to be a host (Dr. Susan E. Halbert).

Brassica oleracea (mustard)-- *Liriomyza langei* Frick, **California pea leafminer**: Specimens were intercepted on vegetables from California at a distribution center in Arcadia (De Soto County; E2006-6461; Susan C. Griego; 15 September 2006; E2006-6562; Susan C. Griego; 18 September 2006; E2006-6904; Susan C. Griego; 25 September 2006), at a grocery store in Avon Park (Highlands County; E2006-6369; Susan C. Griego; 14 September 2006), at a distribution center in Lakeland (Polk County; E2006-6401; Diana E. Bozeman, Helen A. Smith, Albert L. Wright, and Randall A. Dean; 15 September 2006; E2006-6534; Randall A. Dean, John P. Tice, Warren J. 'Jim' Dowling, Albert L. Wright, and Helen A. Smith; 18 September 2006).

Lactuca sativa (lettuce, Romaine lettuce, leaf lettuce)-- *Bactericera cockerelli* (Šulc), **potato psyllid**: Two specimens were intercepted in a shipment of vegetables from California in Arcadia (De Soto County; E2006-7700; Susan C. Griego; 17 October 2006).). The potato psyllid is a serious pest of potato and other solanaceous crops. It does not occur in Florida. This specimen probably was a hitchhiker on the lettuce, because lettuce is not known to be a host (Dr. Susan E. Halbert).

Liriomyza langei Frick, **California pea leafminer**: Specimens were intercepted in lettuce shipments from California at a discount distribution center in Arcadia (De Soto County; E2006-4847, 4848, 4849; Susan C. Griego; 5 September 2006; E2006-5757, 5802; Susan C. Griego; 24 August 2006; E2006-6053; Susan C. Griego; 31 August 2006; E2006-6469; Susan C. Griego; 15 September 2006; E2006-6560; Susan C. Griego; 18 September 2006; E2006-7704; Susan C. Griego; 17 October 2006; E2006-7916; Susan C. Griego; 23 October 2006). Other specimens were intercepted on lettuce from California at a food distribution business in Fort Pierce (St. Lucie County; E2006-6863; Dagne A. Vasquez; 25 September 2006; E2006-7049; Dagne A. Vasquez; 28 September 2006). Other specimens were intercepted in lettuce from California at grocery stores in Jacksonville (Duval County; E2006-6128; Flewellyn W. Podris; 6 September 2006; E2006-6523, 6524, 6525; Flewellyn W. Podris; 18 September 2006; E2006-6731; Flewellyn W. Podris; 19 September 2006). Other specimens were intercepted on lettuce from California at grocery stores in Lakeland (Polk County; E2006-6200; Susan C. Griego; 6 September 2006; E2006-6310; Susan C. Griego; 12 September 2006) and from a food distribution center in Lakeland (E2006-6312, 6313, 6314, 6315; John P. Tice, Warren J. 'Jim' Dowling and Randall A. Dean; 13 September 2006; E2006-6320, 6321, 6322; John P. Tice, Diana E. Bozeman, Albert L. Wright, Warren J.

'Jim' Dowling and Helen A. Smith; 14 September 2006; E2006-6402, 6403, 6404, 6405, 6406, 6493; Diana E. Bozeman, Helen A. Smith, Albert L. Wright, John P. Tice and Randall A. Dean; 15 September 2006; E2006-6407, 6408, 6409 6410, 6411; Albert L. Wright, John P. Tice, Randall A. Dean and Helen A. Smith; 16 September 2006; E2006-6526, 6528, 6529; Randall A. Dean, Warren J. 'Jim' Dowling, Helen A. Smith and John P. Tice; 17 September 2006; E2006-6530, 6531, 6532, 6533, 6534; Randall A. Dean, John P. Tice, Warren J. 'Jim' Dowling, Albert L. Wright and Helen A. Smith; 18 September 2006; E2006-6647; Randall A. Dean, Helen A. Smith and John P. Tice; 20 September 2006).

Other specimens were intercepted on lettuce from California at a discount distribution center in Macclenny (Baker County; E2006-6082; M. Janie Echols and Bryan K. Benson; 7 September 2006).

Other specimens were intercepted on lettuce from California at a grocery store in Melbourne (Brevard County; E2006-6732; Angelina M. Doral; 15 September 2006).

Other specimens were intercepted on lettuce from California at grocery stores in Miami (Miami-Dade County; E2006-6251, 6252; Haydee I. Escobar; 12 September 2006; E2006-6479; Olga Garcia; 15 September 2006).

Other specimens were intercepted on lettuce from California at grocery stores in Naples (E2006-6468; Scott D. Krueger; 15 September 2006).

Other specimens were intercepted on lettuce from California at grocery stores in Orlando (E2006-6537; Lance A. Brown and Serena Stornaiuolo; 18 September 2006; E2006-6538; George A. Warden and Anthony Puppelo; 18 September 2006) and at a distribution center in Orlando (Orange County; E2006-6539; Jessie M. Krok and Tirezah M. Lyons; 15 September 2006).

Other specimens were intercepted on lettuce from California at a discount store in Port St. Lucie (St. Lucie County; E2006-6235, 6236; Dagne A. Vasquez; 11 September 2006) and at a grocery stores in Port St. Lucie (St. Lucie County; E2006-6253, 6255; Dagne A. Vasquez; 12 September 2006).

Other specimens were intercepted on lettuce from California at produce distribution centers in Sanford (Seminole County; E2006-6540, 6542; Tirezah M. Lyons and Leslie J. Wilbur; 18 September 2006).

Other specimens were intercepted on lettuce from California at a discount distribution center in Winter Haven (Polk County; E2006-6127; Albert L. Wright and John P. Tice; 7 September 2006).

Nasonovia ribisnigri (Mosley), **currant-lettuce aphid**: Populations were intercepted on lettuce from California at a discount distribution center in Arcadia (De Soto County; E2006-7116; Susan C. Griego; 2 October 2006; E2006-8006; Susan C. Griego; 25 October 2006), at a produce distribution center in Lakeland (E2006-6314; John P. Tice and Warren J. 'Jim' Dowling; 13 September 2006; E2006-6527; Warren J. 'Jim' Dowling, John P. Tice and Randall A. Dean; 17 September 2006) and at a discount store in Port St. Lucie (St. Lucie County; E2006-6236, 6237; Dagne A. Vasquez; 11 September 2006).

Pisum sativum (garden pea)-- *Liriomyza langei* Frick, **California pea leafminer**: Specimens on vegetables from California were intercepted at the I-10 Agricultural Inspection Station in Live Oak (Suwanee County; E2006-8286; W. Wayne Bailey; 3 November 2006).

ARTHROPOD DETECTION:

Curtara insularis (Caldwell), **ringspot leafhopper**: A specimen was found in a Jackson trap in *Citrus reticulata* (tangerine) at a residence in Rockledge (Brevard County; E2006-7287; Ali A. Darrat, USDA/APHIS/PPQ; 4 October 2006).

Grallipeza nebulosa (Loew), **stilt-legged fly**: A specimen was found in a multilure trap in *Citrus* sp. at a resort in Homosassa (Citrus County; E2006-6513; Bonnie S. Lanier; 18 September 2006). NEW DPI COUNTY RECORD.

Hentzia chekika (Richman), **a jumping spider**: A specimen was found in a multilure trap on *Mangifera indica* (mango) in Miami (Miami-Dade County; E2006-6124; Misael E. Igarza; 6 September 2006). This spider previously has been known to forage only on coconut palm. It is a predator (Dr. G. B. Edwards).

Leptoglossus zonatus (Dallas), **leaftooted bug**: A specimen was found in Foley, Alabama (E2006-6920; Kimberly A. Strickland, University of Florida student; 18 November 2005). This collection confirms the presence of this pest in Alabama. It is known to be a fairly serious pest of satsumas (Dr. Susan E. Halbert).

A specimen was found in Zephyrhills (Pasco County; E2006-7283; Adah Weitzel, homeowner; 5 September 2006). NEW DPI COUNTY RECORD.

Leucophenga maculosa (Coq.), **a drosophilid fly**: Specimens were found in multilure traps in *Citrus X paradisi* (grapefruit) in Plant City (Hillsborough County; E2006-5591; Miryam Briceno, USDA/APHIS/PPQ; 10 August 2006) and in Earleton (Alachua County; E2006-7230; Christine A. Zamora; 4 October 2006). Both finds are NEW DPI COUNTY RECORDS.

Lyctus africanus Lesne, **a bostrichid beetle**: A severe infestation was intercepted in pictures from Brazil at a residence in St. Petersburg (Pinellas County; E2006-6049; Thomas W. Turner; 1 September 2006). This species is an exotic beetle that is introduced repeatedly, but is not known to be established in the US (Dr. Michael C. Thomas).

Metacyrba punctata (Peckham & Peckham), **a jumping spider**: A specimen was found in Withlacoochee State Forest in Brooksville (Citrus County; E2006-6599; Pete Carmichael, professional nature photographer; 17 September 2006). NEW DPI COUNTY RECORD. This is the fourth county reported for this recently introduced species (Dr. G.B. Edwards).

Myllocerus undecimpustulatus undatus Marshall, **a weevil**: Several specimens were found at a residence in Palm Bay (Brevard County; E2006-7303; Jose X. Chaparro, University of Florida, Horticultural Sciences Department; 8 October 2006). NEW DPI COUNTY RECORD.

Pseudoparianthis cubana Banks, **a spider**: A specimen was found at a residence in Panama City Beach (Bay County; E2006-7588; Jeff Brouse, homeowner; 13 October 2006). NEW DPI COUNTY RECORD. This is the first record for this species in the Florida Panhandle. It is a rare huntsman spider and is not dangerous to people (Dr. G.B. Edwards).

Xylosandrus mutilatus (Blandford), **a scolytid beetle**: A specimen was found in a Lindgren funnel trap with an ethanol lure at the Division of Forestry Office in Panama City (Bay County; E2006-7069; Larry W. Smith and James W. Walker; 28 July 2006). NEW DPI COUNTY RECORD.

NEMATOLOGY SECTION
Compiled by Janete A. Brito, Ph.D.

A total of 2,647 samples (2,224 for morphological and 423 for molecular identifications) were processed in September and October 2006. Details are shown below:

<p>Certification and Regulatory Samples: Multistate Certification for National and International Export..... 1431 California Certification..... 626 Pre-movement (Citrus Nursery Certification) 4 Site or Pit Approval (Citrus Nursery and Other Certifications)..... 8</p>	<p>Other Samples: Plant Problems..... 32 Out of State Survey (via FL interception) 2 Intrastate Survey, Random 121 Molecular Identifications* 423</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 September – October, 2006:

Hoya sp. (hoya)-- *Meloidogyne arenaria* (Neal, 1889) Chitwood, 1949, the **peanut root-knot nematode**, was found infecting the roots of this ornamental plant (Orange County; N06-1213; Kathy A. Gonzales; 06 October 2006). Roots were galled and necrotic as a consequence of the nematode infection.

Hoya sp. (hoya)-- *Meloidogyne incognita* (Kofoid & White, 1989) Chitwood, 1949, the **southern root-knot nematode**, was found infecting the roots of this ornamental plant (Orange County; N06-1213; Kathy A. Gonzales; 06 October 2006). Nematode-infected roots were necrotic and deformed by small galls.

COLLECTORS SUBMITTING FIVE OR MORE SAMPLES THAT WERE PROCESSED FOR NEMATOLOGICAL ANALYSIS DURING SEPTEMBER AND OCTOBER 2006:

Anderson, James L.	28
Bentley, Michael	6
LeBoutillier, Karen W.	171
Ochoa, Ana L.	149
Pate, JoAnn	82
Qiao, Ping	137
Robinson, William L	13
Salisbury, Thomas L.	95
Shelley, Jonathan B	10
Spriggs, Charles L.	264
Stone, Carrie S.....	129

PLANT PATHOLOGY
Compiled by: Robert M. Leahy

For this period, the Plant Pathology Section received and processed 1,916 specimens. These included 509 pathology, 855 citrus greening, 12 soil, 10 bee and 19 miscellaneous samples. Visual identification of citrus canker was completed on 7 samples from Southeast Florida, 124 from Central Gulf Coast Florida, 107 from Southwest Gulf Coast Florida, 194 from Central Florida, and 55 from North Florida. Full pathogenicity tests for citrus canker were performed on 31 samples.

ORNAMENTALS, WOODY PLANTS AND PALMS:

Illicium sp. (anise)-- *Phytophthora palmivora*, **leaf/stem blight**: Collected at a nursery in Apopka (Orange County; P2006-02782; Leslie J. Wilber; 6 October 2006). **NEW RECORD: HOST**

Palmae (palm)-- *Chionomyces meliolicola* (C.F.), **fungus hyperparasite**: Collected on a survey in Altoona (Lake County; M2006-00062; Harry L. Morrison; 18 September 2006). **NEW RECORD: STATE**

Prunus avium, (cherry)-- *Pseudocercosporidium* sp., **leaf spot**: Collected at a dooryard in Apopka (Orange County; P2006-02768; Anna M. Lebron-Rivera; 2 October 2006). **NEW RECORD: HOST**

Rhododendron sp. (azalea)-- *Cylindrocladium clavatum*, **leaf spot/blight**: Collected at a nursery in Alva (Lee County; P2006-02528; Lori A. Richards; 6 September 2006).

Syagrus romanzoffiana (Queen palm)-- *Exserohilum longirostratum* (Subram.) Sivan., **leaf spot**: Collected at a nursery in Palm City (Martin County; P2006-02343; Joseph M. Schaefer, Wendy J. Pattison and John C. Alleyne; 7 August 2006).

Viburnum odoratissimum (sweet viburnum)-- *Phytophthora* sp., **root rot**: Collected at a dooryard in West Palm Beach (Palm Beach County; P2006-02546; Stephanie Bladose; 11 September 2006).

ORNAMENTALS, FOLIAGE PLANTS:

Adenium arabicum (desert rose)-- *Arististoma* sp., **leaf spot**: Collected at a nursery in Pompano Beach (Broward County; P2006-02836; J. Keith Harris; 12 October 2006). **NEW RECORD: HOST**

Epipremnum sp. (pothos)-- *Phytophthora tropicalis*, **leaf blight**: Collected at a Wal-Mart #0960 in Dunnellon (Marion County; P2006-02700; Cheryl A. Jones; 25 September 2006).

Hedera sp. (ivy)-- *Phytophthora capsici*, **leaf blight**: Collected at a nursery in Mt. Dora (Lake County; P2006-02688; Mary C. Sellers; 22 September 2006). **NEW RECORD: HOST**

ORNAMENTALS, FLOWERING PLANTS:

Calliandra sp. (calliandra)-- *Sphaceloma* sp., **scab**: Collected at a nursery in Apopka (Orange County; P2006-02721; Kathy A. Gonzalez; 26 September 2006). **NEW RECORD: HOST**

Costus sp. (spiral ginger)-- *Pseudocercospora costina* (H. & P. Syd.) Deighton, **leaf spot**: Collected at a nursery in Naples (Collier County; P2006-02692; Scott D. Krueger; 22 September 2006). **NEW RECORD: STATE**

Trimezia martinicensis (walking iris)-- *Sclerotium rolfsii*, **southern blight**: Collected at a nursery in Miami (Miami-Dade County; P2006-02678; RosaMaria M. Quinones; 21 September 2006). **NEW RECORD: HOST**

FOREST AND SHADE TREES:

Chionanthus virginicus (fringe tree)-- *Fusicladium* sp., **scab/spot anthracnose**, *Pseudocercospora* sp., **leaf spot**: Collected at a nursery in Gainesville (Alachua County; P2006-02363; Grandiflora Nursery; 10 August 2006). **NEW RECORD: HOST**

WEEDS AND GRASSES:

Carex sp. (sedge)-- *Bipolaris* sp., **leaf spot**: Collected at a nursery in Eustis (Lake County; P2006-02702; Mary C. Sellers; 25 September 2006). **NEW RECORD: HOST**

Cyperus papyrus (papyrus)-- *Duosporium cyperi*, **leaf spot**: Collected at a nursery in Ft. White (Marion County; P2006-02498; Gene Gruenbeck; 6 September 2006).