

ENTOMOLOGY SECTION

Compiled by Susan E. Halbert, Ph.D.

For the month of July, there were 490 samples, consisting of 27,988+ specimens. In August, there were 829 samples, consisting of 51,695+ specimens. Some of the samples are listed below:

ORNAMENTALS, WOODY PLANTS AND PALMS:

Acmena smithii (lilly pilly) -- *Aphis gossypii* Glover, **cotton/melon aphid**: A moderate infestation was found at a nursery in Apopka (Orange County; E2005-4211; Katherine A. Gonzalez; 28 July 2005). NEW DPI HOST RECORD for a common aphid.

Jatropha integerrima (peregrina) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: An infestation was found at a residence in Kendall (Miami-Dade County; E2005-4693; Gwen H. Myres; 23 August 2005). NEW DPI HOST RECORD.

Oroxylum indicum (midnight horror, broken bones tree) -- *Aphis spiraeicola* Patch, **spirea aphid**: A moderate infestation was found at the University of Florida/IFAS Tropical Research and Education Center in Homestead (Miami-Dade County; E2005-3533; Dr. Jorge E. Peña and Rita E. Duncan, University of Florida, IFAS; 18 May 2005). NEW DPI HOST RECORD for a common aphid.

Palmae (palm) -- *Nipaecoccus floridensis* Beardsley, **false coconut mealybug**: A moderate infestation was found on 20 of 30 plants at a nursery in Sanford (Seminole County; E2005-4484; Leslie J. Wilber; 8 August 2005). NEW DPI COUNTY RECORD.

Viburnum suspensum (viburnum) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A slight infestation was found on a plant at a residence in Palm Harbor (Pinellas County; E2005-4625; Thomas S. Lastrapes; 18 August 2005). NEW DPI HOST RECORD.

ORNAMENTALS, FOLIAGE PLANTS:

Crassula sp. (pygmyweed, stonecrop) -- *Vryburgia brevicurris* (McKenzie), **a short-legged mealybug**: A moderate infestation was found on all of over 300 plants from California at a discount store in Orange Park (Clay County; E2005-4456; Stacey S. Simmons and Sol F. Looker; 10 August 2005). This mealybug is not established in Florida and could become a pest of succulents here (Dr. Greg S. Hodges).

Dracaena sp. (dracaena, corn plant) -- *Tetranychus peircei* McGregor, **spider mite**: A severe infestation was found on all of 39 plants at a nursery in Miami (Miami-Dade County; E2005-4493; Edward T. Putland and Eduardo G. Camero; 11 August 2005). NEW CONTINENTAL RECORD, NEW HOST RECORD. This mite has a host list of over 30 plants and could be a serious plant pest if it becomes established (Dr. W.C. 'Cal' Welbourn).

Gymnocalycium sp. (chin cactus, cap cactus) -- *Hypogeococcus spinosus* Ferris, **a mealybug**: A moderate infestation on five of 20 plants was found at a nursery in Apopka (Orange County; E2005-3870; Leslie J. Wilber; 14 July 2005). This is an invasive species that is known from Texas, New Mexico and Mexico. It is not established in Florida and occurs only on cacti. We intercepted this mealybug previously in 1976 and 1988 (Dr. Greg S. Hodges).

ORNAMENTALS, FLOWERING PLANTS:

Helianthus annuus (sunflower) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A severe infestation was found at a residence in Homosassa (Citrus County; E2005-3798; Robert W. Dudley; 8 July 2005). NEW DPI HOST RECORD.

Hibiscus rosa-sinensis (hibiscus) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**:

A moderate infestation was found on five of 32 plants at a nursery in Sanford (Seminole County; E2005-3934; Tirzah M. Lyons; 18 July 2005). Another severe infestation on five plants was found at a residence in Archer (Levy County; E2005-4929; W. Wayne Bailey; 6 September 2005). Both finds are NEW DPI COUNTY RECORDS.

Poinsettia pulcherrima (poinsettia) -- *Paracoccus marginatus* Williams & Granara de Willink, **papaya mealybug**: A slight infestation was found on a plant at a residence in Palm Harbor (Pinellas County; E2005-4744; Thomas S. Lastrapes; 24 August 2005). NEW DPI HOST RECORD.

FOREST AND SHADE TREES:

Cercis canadensis (eastern redbud) -- *Trialeurodes fernaldi* (Morrill), **a whitefly**: A severe infestation was found at a park in Orange Park (Clay County; E2005-3941; Christine A. Zamora; 18 July 2005). NEW DPI COUNTY RECORD. There are not many records of this whitefly in the whitefly database, but all seem to be from the southeastern United States. This is probably a native species that is rarely encountered (Dr. Greg S. Hodges).

Quercus hemisphaerica (Darlington's oak, laurel oak) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A severe infestation was found on a plant at a park in South Miami (Miami-Dade County; E2005-4323; Frederick J. Hubbard and Raul A. Santillan; 3 August 2005). NEW DPI HOST RECORD.

Swietenia macrophylla (Honduras mahogany) -- *Conchaspis cordiae* Mamet, **West Indies mahogany scale**: A slight infestation was found on three plants at the University of Florida/IFAS Ft. Lauderdale Research and Education Center in Davie (Broward County; E2005-3598; Sergio A. Gallo and Bryan Steinberg, University of Florida, IFAS; 24 June 2005). NEW DPI HOST RECORD.

Taxodium distichum (bald cypress) -- *Crisicoccus taxodii* Kosztarab, **baldcypress mealybug**: A slight infestation was found at the University of Florida in Gainesville (Alachua County; E2005-4596; Lyle J. Buss, University of Florida, Department of Entomology and Nematology; 16 August 2005). NEW DPI COUNTY RECORD. This mealybug is listed in SCALENET as occurring in Florida. It is probably a native species, but it is not common, and is restricted to *Taxodium* spp. (Dr. Greg S. Hodges).

FOOD AND CROP PLANTS:

Annona squamosa (custard apple, anona, bullock's-heart, corazon, nona, pawpaw, sugar apple) -- *Dysmicoccus grassii* (Leonardi), **a mealybug**: An infestation was found at a farm in Homestead (Miami-Dade County; E2005-4754; Yen M. Dao and Greg S. Hodges; 24 August 2005). NEW DPI HOST RECORD. This mealybug is common in South Florida and is reported in the literature as occurring on this host, but it has not previously been reported on *Annona* in Florida (Dr. Greg S. Hodges).

Capsicum chinense (habanero pepper) -- *Aleurotrachelus trachoides* (Back), **a whitefly**: A severe infestation was found at a USDA research facility in Ft. Pierce (St. Lucie County; E2005-4577; David G. Hall, USDA/ARS; 17 August 2005). NEW DPI COUNTY RECORD. This whitefly is encountered routinely in South Florida on *Solanum* and *Capsicum*. Populations indicate that it may be a pest of concern (Dr. Greg S. Hodges).

Cocos nucifera (coconut palm) -- *Aleurotrachelus atratus* Hempel, **a whitefly**: A moderate infestation was found at a nursery in Apopka (Orange County; E2005-4770; Katherine A. Gonzalez; 24 August 2005). NEW DPI COUNTY RECORD.

Cucurbita moschata (pumpkin, winter crookneck squash, winter squash, calabaza, Cuban pumpkin) -- *Dysmicoccus brevipes* (Cockerell), **pineapple mealybug**: A severe infestation was found on roots of one plant at a residence in Micco (Brevard County; E2005-3704; Christine J. Frere; 4 July 2005). NEW DPI HOST RECORD.

Diospyros digyna (black sapote, chocolate pudding tree) -- *Eucalymnatus tessellatus* (Signoret), **tessellated scale**: A moderate infestation was found at a residence in Ft. Myers (Lee County; E2005-4008; Reuben E. Sibert, USDA/APHIS/PPQ; 20 July 2005). NEW DPI HOST RECORD.

Glycine max (soybean) -- *Pseudocneorhinus bifasciata* Roelofs, **a weevil**: An infestation was found on 23 acres of soybeans in Chipley (Washington County; E2005-4174; Michael E. Meadows, CAPS; 13 July 2005). NEW DPI STATE RECORD. This is an exotic weevil that has been spreading south from New England for 90 years, but it is not known previously from Florida. It is a pest of many plants (Dr. Michael C. Thomas).

Pouteria campechiana (canistel, eggfruit, sapote amarillo) -- *Patara albida* Caldwell nec Westwood, **a derbid planthopper**: A male specimen was found at a park in Homestead (Miami-Dade County; E2005-2471; Susan E. Halbert, David C. Ziesk, Edward T. Putland, Greg S. Hodges, and Yen M. Dao; 12 May 2005). NEW USA RECORD. This specimen matches a species described from Puerto Rico by Caldwell. Nothing is known about its biology (Dr. Stephen W. Wilson, Central Missouri State University). (See also entry below under *Rheedia*.)

Rheedia brasiliensis (bakupari, a tropical fruit) -- *Patara albida* Caldwell nec Westwood, **a derbid planthopper**: A female specimen was found at Fairchild Tropical Botanic Garden in Coral Gables (Miami-Dade County; E2005-2465; Gwen H. Myres, David C. Ziesk, Susan E. Halbert, Greg S. Hodges, Yen M. Dao, and Richard E. Weaver, Jr.; 11 May 2005). NEW USA RECORD. This female specimen matches a male found on *Pouteria* (please see above) and identified by Dr. Stephen W. Wilson, Central Missouri State University.

Saccharum sp. (sugarcane) -- *Duplachionaspis divergens* Green, **an armored scale**: A slight infestation was found in a 76.3 acre sugarcane field near LaBelle (Hendry County; E2005-4135; Michael Patterson, USDA/APHIS/PPQ and Douglas A. Restom-Gaskill; 21 July 2005). This is the first find in a sugarcane field. Previous finds have been on other grasses or in a greenhouse environment (Dr. Greg S. Hodges). Please see pest alert at <http://www.doacs.state.fl.us/pi/enppd.divergens.html>.

CITRUS:

Citrus sp. (citrus) -- *Diaphorina citri* Kuwayama, **Asian citrus psyllid**: An infestation was found in a citrus grove in Stan Creek District, Belize (E2005-4268; Veronica Manzanero Majil; 26 July 2005). NEW NATIONAL RECORD FOR BELIZE.

WEEDS AND GRASSES:

Chenopodium ambrosioides (Mexican tea, wormseed, epazote) -- *Acalitus* sp., **an eriophyid mite**: A slight infestation was found on plants at a nursery in Apopka (Orange County; E2005-4055; Leslie J. Wilber; 21 July 2005). NEW DPI HOST RECORD. This probably is an undescribed species (Dr. W.C. 'Cal' Welbourn).

Leguminosae (a weedy legume) -- *Icerya rileyi* nr. Cockerell, **a margarodid scale**: An infestation was found on weedy legumes at Port Everglades in Hollywood (Broward County; E2005-3743; Margarita A. Lahens and Heather N. Hursh, USDA/APHIS/PPQ; 7 July 2005). NEW DPI STATE RECORD. This species is likely an invasive. It is listed as occurring in New Mexico and Mexico on Leguminosae hosts. There is much variation within this species, and it may be a species complex that will be differentiated at a later date (Dr. Greg S. Hodges).

Ludwigia leptocarpa (anglestem primrose-willow) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A severe infestation was found at a nursery in Homestead (Miami-Dade County; E2005-4902; Eduardo G. Camero and Edward T. Putland; 2 September 2005). NEW DPI HOST RECORD.

Pilea microphylla (rockweed, artillery plant) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A severe infestation was found at a nursery in Homestead (Miami-Dade County; E2005-4897; Eduardo G. Camero and Edward T. Putland; 2 September 2005). NEW DPI HOST RECORD.

Solanum americanum (American black nightshade) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A severe infestation was found at a nursery in Homestead (Miami-Dade County; E2005-4899; Eduardo G. Camero and Edward T. Putland; 2 September 2005). NEW DPI HOST RECORD.

Urochloa texana (Texas signalgrass) -- *Rhopalosiphum maidis* (Fitch), **corn leaf aphid**: A moderate infestation was found on grass at a nursery in Apopka (Orange County; E2005-4213; Leslie J. Wilber; 28 July 2005). NEW DPI HOST RECORD.

NATIVE AND NATURALIZED PLANTS:

Cephalanthus occidentalis (common buttonbush) -- *Planococcus citri* (Risso), **citrus mealybug**: A slight infestation was found at Oxbow Eco-Center in Port St. Lucie (St. Lucie County; E2005-4759; Richard E. Weaver, Jr., Kenneth L. Hibbard and Greg S. Hodges; 25 August 2005). NEW DPI HOST RECORD.

Cissus verticillata (possum-grape, seasonvine) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A severe infestation was found at a nursery in Homestead (Miami-Dade County; E2005-4898; Eduardo G. Camero and Edward T. Putland; 2 September 2005). NEW DPI HOST RECORD.

Chromolaena odorata (Jack-in-the-bush) -- *Aphis spiraecola* Patch, **spirea aphid**: An infestation was found on a roadside in Davie (Broward County; E2005-4212; David T. Benner, USDA/APHIS/PPQ; 28 July 2005). NEW DPI HOST RECORD for a common species.

Heliotropium polyphyllum (pineland heliotrope) -- *Brevipalpus butcheri* Prichard & Baker, **a false spider mite**: A moderate infestation was found on a plant at a residence in Lehigh Acres (Lee County; E2005-2881; David L. Renz, USDA/APHIS/PPQ; 26 May 2005). NEW DPI HOST RECORD.

Parthenocissus quinquefolia (Virginia creeper) -- *Myllocerus undatus* Marshall, **a weevil**: A severe infestation was found on all of 50 plants at a residence in West Palm Beach (Palm Beach County; E2005-4267; James C. Lee; 26 July 2005). NEW DPI HOST RECORD.

ARTHROPOD DETECTION:

Chlorophorus annularis (Fabricius), **a long-horned beetle**: Several specimens were found in a spider web at a bamboo warehouse in Lakeland (Polk County; E2005-3976; Brian D.

Saunders, USDA/APHIS/PPQ; 14 July 2005). Several more specimens were found in bamboo stakes at the warehouse (Polk County; E2005-4427; Dean Delgado and Brian Saunders, USDA/APHIS/PPQ; 5 August 2005). This is an exotic long-horned beetle that has been intercepted before in Florida, but is not known to be established in the environment (Julieta Brambila, USDA/APHIS/PPQ, and Dr. Michael C. Thomas).

Helix aspersa Müller, **brown garden snail**: A specimen was found near plants originating in California at a nursery in Jacksonville (Duval County; E2005-4149; Sol F. Looker; 27 July 2005).

Hoshihananomia inflammata (LeConte), **a beetle**: A specimen was collected on a sticky board at a nursery in Apopka (Orange County; E2005-4494; Katherine A. Gonzalez; 10 August 2005). This is a rarely collected beetle (Dr. Michael C. Thomas).

Maconellicoccus hirsutus (Green), **pink hibiscus mealybug**: A moderate infestation was found on a plant (maybe *Hibiscus rosa-sinensis*) at a nursery in Punta Gorda (Charlotte County; E2005-4591; Richard L. Blaney; 17 August 2005). NEW DPI COUNTY RECORD.

Myllocerus undatus Marshall, **a weevil**: Specimens were found feeding on leaves of many plants at a residence in Sarasota (Sarasota County; E2005-4662; homeowner; 23 July 2005). NEW DPI COUNTY RECORD.

Ocyptamus jactator (Loew), **a syrphid fly**: A specimen was caught in a McPhail trap in Ft. Pierce (St. Lucie County; E2005-4351; Kenneth L. Hibbard; 26 July 2005). NEW DPI COUNTY RECORD.

Odinia conspicua Sabrosky, **an odiniid fly**: A specimen was found in a Jackson trap in Orlando (Orange County; E2005-3304; Nermaret Canales-Guardiola, USDA/APHIS/PPQ; 13 June 2005). This fly is rarely collected (Dr. Gary J. Steck).

Rhagoletotrypeta rohweri Foote, **a fruit fly**: Ten specimens, all female, were collected in a multilure trap in Holiday (Pasco County; E2005-4865; Daniel Merced and Victor L. Reaume; 2 August 2005). NEW DPI STATE RECORD. This is a rarely collected fly, previously known only from New Jersey and Illinois. The presumed host is *Celtis* (Dr. Gary J. Steck).

Sphecomyiella valida (Harris), **a pyrgotid fly**: A specimen was collected in a Jackson trap in Belleair (Pinellas County; E2005-3250; William J. Salway; 14 June 2005). NEW DPI COUNTY RECORD.

NEMATODOLOGY SECTION

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

A total of 2,810 samples (2,339 for morphological and 471 for molecular identifications) were processed in July and August 2005. Details are shown below:

Certification and Regulatory Samples:	Other Samples:
Multi-state Certification for National and International Export.....1,680	Plant Problems..... 37
California Certification348	Intrastate Survey, Random 184
Burrowing nematodes8	Molecular Identifications* 471
Pre-movement (Citrus Nursery Certification)62	*The majority of these analyses involved root-knot nematode species.
Site or Pit Approval (Citrus Nursery and Other Certifications).....20	

Nematodes of Special Interest

Ficus sp. (fig tree) -- *Meloidogyne incognita* (Kofoid & White, 1919) Chitwood, 1949, the **Southern root-knot nematode** was extracted from roots of this ornamental plant (Palm Beach; N05-00953; Ellen J. Tannehill; 24 June 2005). Young fig plants were imported into Florida from China.

Rudbeckia sp. (coneflower) -- *Aphelenchoides besseyi* Christie, 1942, **rice white-tip nematode** was extracted from leaves of this flowering ornamental plant (Alachua County; N05-01063; Gregory A. Brown; 26 July 2005). Infected leaves show discolored and brownish spots that become necrotic in time.

Saccharum sp. (sugarcane) -- *Pratylenchus zaeae* Graham, 1951, **a lesion nematode** was extracted from the roots of this industrial crop (Hendry County; N05-01056; Douglas A. Restom-Gaskill and Michael Patterson; 21 July 2005). *Pratylenchus zaeae* is a common pest of sugarcane in many sugarcane growing areas of the world.

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

Anderson, James L..... 55	Robinson, William L..... 62
Bailey, W. Wayne 19	Salisbury, Thomas L 87
Beidler, Steven A. 5	Simmons, Stacey S..... 10
LeBoutillier, Karen W..... 234	Spriggs, Charlie L 249
Ochoa, Ana L 100	Stone, Carrie S. 140
Pate, JoAnn..... 22	Whitaker, Scott 12
Qiao, Ping..... 112	Zamora, Christine A..... 12

PLANT PATHOLOGY SECTION
Complied by Robert M. Leahy

For the period, the Plant Pathology Section received and processed 4,056 specimens. These included 588 pathology, 12 miscellaneous, six soil, 17 bee and 20 citrus greening samples. Full pathogenicity tests for citrus canker were performed on 55 samples. Visual inspections for citrus canker were also carried out on 1,810 samples from Southeast Florida, 616 from Southwest Gulf Coast Florida, 268 from Central Gulf Coast Florida, 355 from Central Florida and 309 North Florida.

ORNAMENTALS, WOODY PLANTS AND PALMS:

Breyntia sp. (snowbush) -- *Corynespora cassicola*, **leaf spot**: Collected at a nursery in Eustis, Lake County (8 August 2005, Katherine A. Gonzalez, P2005-03022). NEW HOST RECORD.

Coccoloba uvifera (seagrape) -- *Mycocleptodiscus indicus*, **leaf spot**: Collected at a dooryard in Miami, Miami-Dade County (10 August 2005, Eduardo G. Camero, P2005-03009). NEW HOST RECORD.

Sphagneticola trilobata (creeping oxeye; wedelia) -- *Sphaceloma* sp., **scab/spot anthracnose**: Collected on an empty lot in Largo, Pinellas County (7 July 2005, Edward L. Barnard, P2005-02699). NEW HOST RECORD.

FOOD OR CROPS PLANTS:

Citrus maxima (pummelo) -- *Candidatus liberibacter asiaticus*, **citrus greening**: Collected at a nursery in Homestead, Miami-Dade County, (24 August 2005; Susan E. Halbert, Greg S. Hodges, Yen M. Dao, Richard E. Weaver, Jr., Eduardo Varona; P2005-03125). NEW UNITED STATES RECORD.

Prunus armeniaca (apricot) -- *Xanthomonas pruni*, **bacterial leaf spot**: Collected at a nursery in Gainesville, Alachua County (19 August 2005, Jose X. Chaparro (University of Florida), P2005-03085). NEW HOST RECORD.