

BOTANY SECTION

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

For this period, 150 specimens were submitted to the Botany Section for identification, and 1,816 were received from other sections for identification/name verification for a total of 1,966. In addition, 79 sheets were added to the herbarium. Some of the samples received for identification are discussed below:

Baptisia alba (L.) Vent. [pronunciation: bap-TIZ-ee-ah AL-bah] (A genus of 17 species native to the eastern United States.) Leguminosae. **False indigo; wild white indigo.** This perennial herb to 2m is found from Florida Panhandle counties to Lake County in the central peninsula. The bluish green trifoliolate leaves are up to 5 cm long, with obovate to elliptic-lanceolate leaflets. The inflorescence is a raceme of up to 20 white, pea-like flowers. Corollas are 2 – 2.5 cm long, and the cylindrical to oblong legumes are black when ripe. This species is a white-flowered relative of the wild indigo species that were used as a substitute for *Indigofera* species (true indigo) in dye-making.



Although Choctaw people used the plant as a medicine to treat swelling and rheumatism, today the plant is primarily useful as drought-tolerant additions to native plant gardens and perennial borders. These plants with their lovely spikes of white flowers may take several years to establish, but they can survive many years and through severe droughts because of their deep tap roots. (Leon County; B2007-225; Joanna S. Booth; 4 May 2007) (Austin 2004; Huxley 1992; Mabberley 1997; Wunderlin and Hansen 2003; <http://www.ces.ncsu.edu> ; <http://www.floridata.com>)

Byrsonima lucida (Mill.) DC. [bur-suh-NEE-mah LOO-sid-ah.] (A genus of about 130 species native through the American tropics from southern Brazil to South Florida.) Malpighiaceae. **Locust berry.** This species is found in Miami-Dade and Monroe counties and southward to Trinidad. Usually seen as a low-growing shrub to 2 m in the remnant pine rocklands of South Florida, it can become a small tree in hammocks of the Florida Keys.



Surprisingly to those who are familiar with the shrub form, the national champion locust berry on Big Pine Key reaches the towering height of 12 m. The 2-5 cm leaves are opposite, spatulate and glossy green above, with a cup-shaped swelling at the base of the petiole. The flowers form conspicuous clusters that turn from white to pink to red over the course of their several day existences. Petals have the characteristic claw shape of this family, and the sepals, which persist on the fruits, are glandular. Ripe fruits turn reddish brown and are said to be tasty. The plant serves as a host



for the Florida Duskywing butterfly (*Ephyriades brunnea*). People have used the bark of the tree as a source of tannins for tanning animal hides, of dyes for fiber and fabric and of wood for carving. Like many south Florida plants that have suffered from habitat loss, this plant is listed as a threatened species. (Monroe County; B2007-298; John Pieper; 30 May 2007)

(Austin 2004; Coile 2003; Hammer 2004; Mabberley 1997; Tomlinson 1980;
<http://www.americanforests.org>; <http://www.butterfliesandmoths.org>)

Cordia myxa L. [kor-DEE-ah MIX-ah] (A genus of about 320 tropical species.) Boraginaceae. **Assyrian plum.** This evergreen shrub or small tree (to 12 m tall) is probably native to tropical Africa through the Middle East, but its long cultivation has obscured its native habitat. The leaves are ovate to cordate and may be glabrous or pubescent. Inflorescences are terminal panicles of cream to white campanulate flowers. The ovoid fruit, to 3.5 cm, is yellow to orange-pink with sweet, mucilaginous mesocarp that is sometimes pickled or eaten raw. Although this species is rare in cultivation in this country, its fruit is used as a medicine and bird-lime, and the wood is used for timber in its native habitats. For example, in Burkina Faso, the Bobo people eat the fruits and seeds, use the leaves for medicine, but do not burn the wood for fuel because of its sacred role in traditional medicine and rituals. Medical researchers have found that the fruit of this species is an effective anti-inflammatory with remarkable antioxidant properties. Even Linnaeus included the species in his Uppsala botanical garden. (Miami-Dade County; B2007-313; Carmen C. Laureano; 6 June 2007) (Al-Awadi *et al.* 2001; Bennett 2003; Huxley 1992; Kunkel 1984; Taïta 2003;



Cordia myxa
Photo courtesy of University
of Arizona Arboretum

<http://cals.arizona.edu/arboretum>;
<http://linnaeus.nrm.se/botany/fbo/c/cordi/cordmyx.html.en>)

Graptophyllum pictum (L.) Griffith [grap-toe-FY-lum PIK-tum] (A genus of 10 species native to Australia and the South Pacific.) Acanthaceae. **Caricature-plant.** Although this tropical evergreen is grown primarily for its variegated foliage, it has terminal panicles (8-10 cm long) of purple or red tubular flowers. The two-lipped corolla is trumpet-shaped with two lobes on the upper lip and three lobes on the lower. There are two fertile and two sterile stamens. Pale marks on the leaves, sometimes thought to resemble the profile of a human face, inspired the colorful common name of this New Guinea native shrub. These coriaceous leaves are ovate, glossy green or purple, and up to 15 cm long. As with many plants grown for foliage, frequent pruning stimulates new leaf growth, but discourages flowering. Its foliage color is best when this species is planted in bright light, and since high humidity and moist, well-drained soil encourage growth, it can find a home outdoors in Florida. It is a colorful container plant north



Graptophyllum pictum
Photo courtesy of TopTropicals

of Zone 9. The plant is often cultivated in the tropics as an ornamental, but occasional medicinal use has been reported. In New Guinea, the young leaves are eaten and its flowers are used to make tea. (Manatee County; B2007-223; Amber L. Roux; 4 May 2007) (Kunkel 1984; Mabberley 1997; Staples and Herbst 2005; <http://www.foodplantsinternational.com>;

<http://www.mobot.org>; http://toptropicals.com/catalog/uid/graptophyllum_pictum.htm)

Pterocaulon pycnostachyum (Michx.) Elliot [teh-ROH-caw-lun pik-noe-STACK-yum] (A genus of about 10 species native to warm areas of the Americas, Southeast Asia to Australia and New Caledonia.) Compositae/Asteraceae. **Dense-spike blackroot.** A perennial herb with one to several, 2-8 cm tall, stems growing from tuberous, brown to black root clusters. The stems are clothed in a dense, white to tan, felt-like pubescence and winged with long leaf bases. The alternate, sessile leaves have lanceolate to elliptical blades, 3-11 cm × 1-3 cm, with dark green upper surfaces and densely pubescent undersides. The leaf margins may be dentate, denticulate

or occasionally almost entire. Flower heads are creamy-white spikes 3-10 cm long. This species is found throughout the southeastern coastal plain from North Carolina through Florida and adjacent Alabama and has been documented in almost every county within Florida. The plant was used by Seminole and Miccosukee people for pulmonary illnesses and problems related to blood. Recent analyses have found the plant contains coumarins--phytochemicals that act as anti-coagulants. The plants also contain antioxidants and antiviral compounds that might be effective against the symptoms of colds and other respiratory illnesses. (Hardee County; B2007-211; Susan C. Griego; 30 April 2007) (Austin 2004; Godfrey and Wooten 1981; Nelson 2005; <http://plants.usda.gov>)



Rhexia nashii Small [REX-ee-ah NASH-ee-eye] (A genus of 13 North American species.) Melastomataceae. **Maid Marian.** This perennial herb with erect stems 2 – 15 dm tall forms wide-ranging clones from shallow rhizomes. The hirsute, opposite, lanceolate to elliptic leaves are 3-7 cm long, with fine to coarse serration on the leaf margins.



Inflorescences are cymes, with four-petaled, pinkish lavender flowers that are generally glandular-pubescent on the underside. This species has the hooked anthers and urn-shaped floral cup that characterize the genus. It is a wetland species found in bogs, ditches, flatwoods and edges of swamps from Virginia along the coast to Louisiana, including Florida north of Lake Okeechobee. The common name of this plant, Maid Marian, comes from the queen of May Day games and Morris-dances held on the first day of May when the plant begins to bloom. This name later became associated with

Robin Hood's legendary sweetheart. (Orange County; B2007-250; Jeffrey R. Slotten; 5 May 2007) (Austin 2004; Godfrey and Wooten 1981; Nelson 2005; http://en.wikipedia.org/wiki/Maid_Marian)

Symplocos tinctoria (L.) L'Hér. [sim-PLO-cus tink-TOR-ee-ah] (A genus of 250 tropical and warm American and eastern Old World species.) Symplocaceae.



Horse-sugar; sweetleaf. This species, found along the east coast of the United States and throughout the south to Texas, is a shrub or small tree usually growing to 8 – 12 m tall, but the national champion in Chesapeake, Virginia, is 21.33 meters tall. The simple, alternate, oblong to narrowly elliptical leaves (5-15 cm by 3-5 cm) have entire margins. They are usually shiny green above and yellow-green on the underside. The sweet taste of the leaves gives this species its common name. This species is tardily deciduous, with clusters of small white

flowers that appear before new leaves. The grayish to brown trunk of the tree is initially smooth, but develops ridges and warty lenticels with age. The reddish brown twigs have chambered pith (see photo). The leaves, bark and fruit have been used as a yellow dye and the sweet leaves are eaten by wildlife and farm animals. The roots have been brewed to make a tea used as a beverage and as a tonic. (Alachua County; B2007-235; Christine A. Zamora; 10 May 2007) (Austin 2004; Mabberly 1997; Miller and Miller 2005;

<http://www.americanforests.org/resources/bigtrees/register.php?details=768>
<http://www.cnr.vt.edu/DENDRO/DENDROLOGY/main.htm>)



Symplocos tinctoria
Photo courtesy of Virginia Tech Forestry Department

Syzygium samarangense (Blume) Merr. & Perry [sih-zij-EE-um sah-mah-ran-GHEN-see] (A



Syzygium samarangense
Photo courtesy of Montoso Gardens,
Maricao Puerto Rico

genus of about 1000 tropical Old World species.) Myrtaceae. **Java apple; wax apple; wax jambu.** This evergreen tree, 5-15 m tall, shares the identifying characteristics of opposite leaves and flaking bark with other members of the myrtle family. Its yellowish-green to dark bluish-green leaves (5-12 cm by 10-25 cm) are nearly sessile, elliptic to oblong, slightly auriculate at the base and aromatic when crushed. Flowers are borne in panicles and are fragrant, yellowish-white, four-petaled, with numerous stamens. The waxy pear-shaped fruit, usually light-red, pink or even cream-colored, has four persistent calyx lobes at the apex and white, spongy flesh that is sweet, but bland. This species is native to Malaya, but was long ago introduced to the Philippines and passed along throughout Southeast

Asia. It eventually reached the Caribbean and is occasionally grown in South Florida, more as an ornamental than for fruit. In Asian countries, the fruit is eaten raw or cooked to make fruit preserves. Tannins in the flowers have led to their use as a medicine, and they have some anti-bacterial action. (Miami-Dade County; B2007-301; Juan Garcia Lopez; 1 June 2007) (Kunkel 1984; Morton 1987; <http://www.montosogardens.com>)

REFERENCES.

- Al-Awadi, F.M., T.S. Srikumar, J.T. Anim, and I. Khan. 2001. Anti-inflammatory effects of *Cordia myxa* fruit on experimentally induced colitis in rats. *Nutrition* 17: 391-396.
- Austin, D.F. 2004. Florida ethnobotany. CRC Press, Boca Raton, Florida. 909 p.
- Bennett, M., 2003. Pulmonarias and the borage family. Timber Press, Portland, Oregon. 240 p.
- Coile, N.C. (updated by M.A. Garland). 2003. Notes on Florida's endangered and threatened plants, 4th edition. Division of Plant Industry, FDACS, Gainesville, Florida. 120 p.
- Godfrey, R.K. and J.W. Wooten. 1981. Aquatic and wetland plants of southeastern United States: dicotyledons. University of Georgia Press, Athens, Georgia. 933 p.
- Hammer, R. 2004. Florida Keys wildflowers: a field guide to wildflowers, trees, shrubs, and woody vines of the Florida Keys. Falcon Press, Guilford, Connecticut. 231 p.
- Huxley, A.J. (editor). 1992. Royal Horticultural Society dictionary of gardening. 4 volumes. Macmillan Press, London. 3,240 p.
- 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. 858 p.
- Miller, J.H. and K.V. Miller. 2005. Forest plants of the southeast and their wildlife uses, revised edition. University of Georgia Press, Athens, Georgia. 454 p.
- Morton, J.F. 1987. Fruits of warm climates. Julia F. Morton. Miami, Florida. Distributed by Creative Resources Systems, Winterville, North Carolina. 505 p.
- Nelson, G. 2005. East Gulf coastal plain wildflowers: a field guide to the wildflowers of the east Gulf coastal plain, including southwest Georgia, northwest Florida, southern Alabama, southern Mississippi, and parts of southeastern Louisiana. Falcon Press, Guilford, Connecticut. 272 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, Hawai'i. 908 p.
- Taita, P. 2003. Use of woody plants by locals in Mare aux Hippopotames Biosphere Reserve in western Burkina Faso. *Biodiversity and Conservation*. 12: 1205-1217.
- Tomlinson, P. B. 1980. The biology of trees native to tropical Florida. Harvard University Printing Office, Allston, Massachusetts. 480 p.
- Wunderlin, R. P. and B. F. Hansen. 2003. Guide to the vascular plants of Florida, 2nd edition. University Press of Florida, Gainesville, Florida. 787 p.
- 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 May, there were 1,308 samples, consisting of 47,891+ specimens. In June, there were 1,160 samples, consisting of 41,511+ specimens. Some of the samples are listed below:

ORNAMENTALS, WOODY PLANTS, AND PALMS:

Acoelorrhaphe wrightii (Everglades palm, saw cabbage palm, paurotis palm) -- *Palmanychnus steganus* (Prichard & Baker), **a spider mite** and *Tenuipalpus dasples* Baker & Pritchard, **a false spider mite**: An infestation was found at a botanical garden in Miami (Miami-Dade County; E2007-1870; W.C. 'Cal' Welbourn, Gwen H. Myres, and Susan E. Halbert; 29 March 2007). Both finds are NEW DPI HOST RECORDS. Both species are restricted to palms (Dr. W.C. 'Cal' Welbourn).

Bambusa sp. (bamboo) -- *Kuwanaspis linearis* (Green), **an armored scale**: A moderate infestation was found at a residence in Homestead (Miami-Dade County; E2007-3425; Catherine M. Mannion, Holly B. Glenn (both University of Florida, IFAS, Homestead) and Dan Hodgman, homeowner; 23 May 2007). NEW FLORIDA COUNTY RECORD.

Takecallis arundinariae (Essig), **an Asian bamboo aphid**: A slight infestation was found at a botanical garden in Clemson, SC (Pickens County; E2007-3013; W.C. 'Cal' Welbourn, Greg S. Hodges, Susan E. Halbert, Karolynne M. Griffiths, USDA/APHIS/PPQ, Miami, Laura T. Miller, West Virginia Department of Agriculture, and Lyle J. Buss, University of Florida, IFAS, Gainesville; 9 May 2007). Probable NEW STATE RECORD.

Unachionaspis tenuis (Maskell), **an armored scale**: A slight infestation was found at a botanical garden in Clemson, SC (Pickens County; E2007-3180; W.C. 'Cal' Welbourn, Greg S. Hodges, Susan E. Halbert, Karolynne M. Griffiths, USDA/APHIS/PPQ, Miami, Laura T. Miller, West Virginia Department of Agriculture, and Lyle J. Buss, University of Florida, IFAS, Gainesville; 9 May 2007). This species is considered an invasive scale insect on bamboo. It is reported from Tennessee and recently, from Alabama. This find probably represents a NEW STATE RECORD (Dr. Greg S. Hodges).

Buxus microphylla (Japanese boxwood, littleleaf boxwood) -- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A slight infestation was found at a residence in Miami Beach (Miami-Dade County; E2007-3455; Olga Garcia; 23 May 2007). NEW DPI HOST RECORD.

Erythrina herbacea (Cherokee bean, coral bean) -- *Quadrastichus erythrinae* Kim, **Erythrina gall wasp**: A slight infestation was reared from plants at an IFAS unit in Ft. Lauderdale (Broward County; E2007-2950; Bryan Steinberg, Forrest W. 'Bill' Howard, and Sergio A. Gallo, all University of Florida, IFAS, Ft. Lauderdale; 1 May 2007). NEW DPI HOST RECORD.

Plumeria rubra (frangipani) -- *Aphis spiraecola* Patch, **spirea aphid**: A slight infestation was found on flowers of plants at a residence in Miami (Miami-Dade County; E2007-3152; Edward T. Putland and Olga Garcia; 14 May 2007). NEW DPI HOST RECORD.

ORNAMENTALS, FOLIAGE PLANTS:

Dioon sp. (a cycad) -- *Poliaspis cycadis* Comstock, **poliaspis cycad scale**: A moderate infestation was found at an IFAS unit in Homestead (Miami-Dade County; E2007-2925; Catherine M. Mannion and Holly B. Glenn, both University of Florida, IFAS, Homestead; 2 April 2007). NEW FLORIDA STATE RECORD. This scale insect is cited in literature as being present in

the United States around 1942 in California. There is no information about economic importance (Dr. Greg S. Hodges).

Syngonium podophyllum (nephthytis, arrowhead vine) -- *Maconellicoccus hirsutus* (Green) **pink hibiscus mealybug**: A severe infestation was found at a residence in St. Petersburg (Pinellas County; E2007-3709; Mark A. Spearman; 30 May 2007). NEW DPI HOST RECORD.

ORNAMENTALS, FLOWERING PLANTS:

Poinsettia cyathophora (wild poinsettia, fire-on-the-mountain) -- *Myllocerus undecimpustulatus undatus* Marshall, **a weevil**: An infestation was found at a residence in Miami (Miami-Dade County; E2007-4153; Eduardo I. Mendoza and Haydee L. Escobar; 15 June 2007). NEW DPI HOST RECORD.

Rosa sp. (rose) -- *Scirtothrips citri* (Moulton), **a thrips**: A slight infestation was found at a nursery in Summerfield (Marion County; E2007-3199; Cheryl A. Jones, David C. Ziesk, and Susan E. Halbert; 16 May 2007). NEW DPI HOST RECORD. Although the related *Scirtothrips dorsalis* is a significant rose pest, this is the first time *S. citri* has been reported (Dr. G.B. Edwards).

Strelitzia nicolai (white bird-of-paradise) -- *Gynaikothrips uzeli* Zimmerman, **weeping fig thrips**: A moderate infestation was found on plants at a nursery in Princeton (Miami-Dade County; E2007-3439; W.C. 'Cal' Welbourn and Edward T. Putland; 23 May 2007). NEW DPI HOST RECORD. This thrips is usually found on *Ficus benjamina* (Dr. G.B. Edwards).

FOREST AND SHADE TREES:

Eucalyptus sp. (eucalyptus) -- *Blastopsylla occidentalis* Taylor, **a eucalyptus psyllid**: A slight infestation was found on trees at a residence in Boynton Beach (Palm Beach County; E2007-3130; Ellen J. Tannehill; 11 May 2007). NEW DPI HOST RECORD.

Glycaspis brimblecombei Moore, **red gum lerp psyllid**: A slight infestation was found at a residence in Alva (Lee County; E2007-3497; David L. Renz, USDA/APHIS/PPQ; 25 May 2007). NEW DPI COUNTY RECORD.

Paulownia tomentosa (princesstree) -- *Heterobostrychus hamatipennis* Lesne, **a false powderpost beetle**: An infestation was found in lumber from China at a lumber import business in Green Cove Springs (Clay County; E2007-4301; Christine A. Zamora and M. Janie Echols; 21 June 2007). This is an exotic beetle not known to be established in Florida (Dr. Michael C. Thomas).

FOOD AND CROP PLANTS:

Cajanus cajan (pigeonpea, gandul, congo bean) -- *Melanagromyza obtusa* (Malloch), **pigeonpea pod fly**: A slight infestation was found at a residence in Safety Harbor (Pinellas County; E2007-3323; Ralph J. McNeill and Thomas W. Turner, Agricultural and Environmental Sciences; 6 May 2007). NEW DPI COUNTY RECORD.

Cocos nucifera (coconut palm) -- *Raoiella indica* Hirst, **red palm mite**: A specimen was intercepted in a shipment of seed coconuts from Jamaica at a nursery in Bokeelia (Lee County E2007-3647; David L. Renz, USDA/APHIS/PPQ, Douglas A. 'Doug' Restom Gaskill, DPI/CAPS, Michael Patterson, USDA/APHIS/PPQ/CAPS, Richard L. Blaney, and Ronald G. Lee, USDA/APHIS/PPQ; 31 May 2007). The condition of the specimen suggests that it was alive when it was found, but we cannot confirm its status (Dr. W.C. 'Cal' Welbourn).

Diospyros virginiana (common persimmon) -- *Trioza diospyri* (Ashmead), **persimmon psyllid**: A severe infestation was found at a residence in Marco (Collier County; E2007-4175; Scott D. Krueger; 14 June 2007). NEW DPI COUNTY RECORD.

Lactuca sativa (lettuce, romaine lettuce, leaf lettuce) -- *Nasonovia ribisnigri* (Mosley), **currant-lettuce aphid**: A moderate infestation was intercepted in lettuce from California for sale in Lakeland (Polk County; E2007-3666; John P. Tice; 31 May 2007).

Mangifera indica (mango) -- *Scirtothrips dorsalis* Hood, **chili thrips**: An infestation was found at an IFAS unit in Homestead (Miami-Dade County; E2007-3417; Andrew I. Derkson, Catherine M. Mannion, Holly B. Glenn, all University of Florida, IFAS, Homestead; 22 May 2007). NEW DPI HOST RECORD.

Persea americana (avocado, alligator pear, aguacate) -- *Elaphidion clavis* Linsley, **a cerambycid beetle**: A specimen was collected at a residence in Cape Coral (Lee County; E2007-4117; Patricia L. McMackins; 14 June 2007) This is a very rare, native species (Dr. Michael C. Thomas).

CITRUS:

Citrus sp. (citrus) -- *Scirtothrips dorsalis* Hood, **chili thrips**: A moderate infestation was found at a retail outlet in St. Augustine (St. Johns County; E2007-3211; Isabelle S. James; 16 May 2007). NEW DPI COUNTY RECORD.

WEEDS AND GRASSES:

Argemone mexicana (Mexican prickly poppy) -- *Conotrachelus leucophaeatus* Fahraeus, **a weevil**: A severe infestation was found at a residence in Homestead (Miami-Dade County; E2007-3786; Catherine M. Mannion, Chubby Barbare, and Holly B. Glenn; 1 June 2007). NEW FLORIDA STATE RECORD. This little known species, native to the United States, has not previously been found in Florida (Dr. Michael C. Thomas and Dr. Charles W. O'Brien)

Datura metel (horn-of-plenty, apple-of-sodom, angel's trumpet) -- *Tetragonoderus laevigatus* Chaudoir, **a carabid beetle**: A specimen was found at a residence in Miami (Miami-Dade County; E2007-1698; Haydee L. Escobar; 21 March 2007). NEW USA CONTINENTAL RECORD. The native range of this beetle is Bolivia, Argentina and Uruguay (Dr. Michael C. Thomas).

Emilia sonchifolia (lilac tasselflower) -- *Phenacoccus solani* Ferris, **solanum mealybug**: A moderate infestation was found at a residence in Ft. Myers (Lee County; E2007-3824; David L. Renz and Reuben E. Sibert, both USDA/APHIS/PPQ; 6 June 2007). NEW DPI HOST RECORD.

Malpighia emarginata (Barbados cherry) -- *Aphis craccivora* Koch, **cowpea aphid**: A severe infestation was found at a residence in Miami (Miami-Dade County; E2007-3809; Olga Garcia; 5 June 2007). NEW DPI HOST RECORD.

NATIVE AND NATURALIZED PLANTS:

Kalmia latifolia (mountain laurel, calico bush) -- *Aleuroplatus myricae* Quaintance & Baker, **a whitefly**: A moderate infestation on two of three plants was found at a botanical garden in Clemson, SC (Pickens County; E2007-3179; W.C. 'Cal' Welbourn, Greg S. Hodges, Susan E. Halbert, Karolynne M. Griffiths, USDA/APHIS/PPQ, Miami, Laura T. Miller, West Virginia Department of Agriculture, and Lyle J. Buss, University of Florida, IFAS, Gainesville; 9 May

2007). Probable NEW STATE RECORD. This whitefly is common from Georgia and North Carolina, but has not been reported before in South Carolina (Dr. Greg S. Hodges).

Massileurodes alabamensis Jensen, a **whitefly**: A moderate infestation was found at a botanical garden in Clemson, SC (Pickens County; E2007-3179; W.C. 'Cal' Welbourn, Greg S. Hodges, Susan E. Halbert, Karolynne M. Griffiths, USDA/APHIS/PPQ, Miami, Laura T. Miller, West Virginia Department of Agriculture, and Lyle J. Buss, University of Florida, IFAS, Gainesville; 9 May 2007). Probable NEW STATE RECORD. This whitefly is from Alabama, Florida and Georgia, but has not been reported before in South Carolina. It likely goes undetected due to host preference (Dr. Greg S. Hodges).

Lysiloma latisiliquum (wild tamarind, false tamarind) -- *Heteropsylla cubana* Crawford, **tropical legume psyllid**: A moderate infestation was found in a vacant lot in Anna Maria (Manatee County; E2007-2980; Mark L. Runnals; 9 May 2007). NEW DPI HOST RECORD for a common pest.

FEDERAL AND STATE PLANT PROTECTION AND QUARANTINE PROGRAMS:

Lactuca sativa (lettuce, romaine lettuce, leaf lettuce) -- *Liriomyza langei* Frick, **pea leafminer**: An infestation was intercepted in a shipment from California at a discount store distribution center in Arcadia (De Soto County; E2007-4214; Susan C. Griego; 18 June 2007).

ARTHROPODS OF MEDICAL AND VETERINARY IMPORTANCE:

Loxosceles rufescens Dufour, **Mediterranean recluse spider**: Two specimens were found at a residence in Jacksonville (Duval County; E2007-3799; homeowner and Lyle J. Buss, University of Florida, IFAS, Gainesville; 29 May 2007). NEW DPI COUNTY RECORD. There are two previous records for *Loxosceles reclusa* from Jacksonville, but this is the first record for *L. rufescens* (Dr. G.B. Edwards).

ARTHROPOD DETECTION:

Blissus insularis Barber, **southern chinch bug**: A specimen was found on a citrus tree at a residence in Ocala (Marion County; E2007-3764; Cheryl A. Jones, David C. Ziesk, Laura A. Fleites, Lisa A. Jones, Pei-ling Li, and Susan E. Halbert; 5 June 2007). NEW DPI COUNTY RECORD.

Euleia fratria (Loew), a **fruit fly**: A specimen was found in a multi-lure trap in a citrus tree at a residence in Apopka (Orange County; E2007-3512; Wayland C. Smith; 21 May 2007). NEW DPI COUNTY RECORD.

Euaresta bella (Loew), a **fruit fly**: A specimen was found in a sweep sample at a residence in Limona (Hillsborough County; E2007-4489; Jason B. Sharp; 21 June 2007). NEW DPI COUNTY RECORD.

Odontomera limbata Steyskal, an **otitid fly**: A specimen was found in a multi-lure trap in a citrus tree at a residence in Wauchula (Hardee County; E2007-3510; Cecilia Carrero-Turnbull, USDA/APHIS/PPQ; 22 May 2007). NEW DPI COUNTY RECORD.

Olbiogaster sackeni Edwards, a **fly**: A specimen was found in a multi-lure trap in a citrus tree at a residence in Spring Hill (Hernando County; E2007-3192; Bonnie S. Lanier; 15 May 2007). NEW DPI COUNTY RECORD.

Sassacus vitis (Cockerell), a **jumping spider**: A specimen was found at a residence in Naples (Collier County; E2007-3269; Scott D. Krueger; 18 May 2007). NEW DPI COUNTY

RECORD. This introduced species was known previously only from Miami-Dade County (Dr. G.B. Edwards).

Selenops submaculosus Bryant, **flat crab spider**: A specimen was found at a nursery in Naples (Collier County; E2007-3720; Scott D. Krueger; 29 May 2007). NEW DPI COUNTY RECORD. This introduced species was known previously only from southeastern counties (Indian River to Miami-Dade Counties) in Florida (Dr. G.B. Edwards).

Senopterina varia Coquillett, **a fly**: A specimen was found at a residence in Citra (Marion County; E2007-4319; Floyd J. McHenry, retired, DPI; 14 June 2007). NEW DPI COUNTY RECORD.

Sobarocephala flaviseta (Johnson), **a clusiid fly**: A specimen was found in a multi-lure trap in a sweet orange tree at a residence in Orlando (Orange County; E2007-3735; Terrance P. McDermott, USDA/APHIS/PPQ; 31 May 2007). NEW DPI COUNTY RECORD.

Spermophora senoculata (Duges), **a spider**: A specimen was found at a botanical garden in Fort Myers (Lee County; E2007-4295; David L. Renz, USDA/APHIS/PPQ; 19 June 2007). NEW DPI COUNTY RECORD. This introduced species was known previously only from Alachua County (Dr. G.B. Edwards).

Trachelas volutus Gertsch, **a spider**: A specimen was found at a residence in North Port (Sarasota County; E2007-3798; homeowner; June 2007). NEW DPI COUNTY RECORD.

Tephritis subpura (Johnson), **a fruit fly**: A specimen was found in a multi-lure trap in *Schinus terebinthifolius* (Brazilian pepper tree, Florida holly, Christmas berry) at the Manatee County Airport in Port Manatee (Manatee County; E2007-2924; Thomas N. Nelson, USDA/APHIS/PPQ; 1 May 2007). NEW DPI COUNTY RECORD.

Xyleborus glabratus Eichhoff, **an Asian ambrosia beetle**: Specimen was found in a Lindgren funnel trap at a residence in Gainesville (Alachua County; E2007-3360; Albert E. 'Bud' Mayfield, Division of Forestry; 25 April 2007). NEW DPI COUNTY RECORD.

Zoosphaerium sp., **a millipede**: Three adult specimens were intercepted at the Miami International Airport in a shipment to a Miami import business (Miami-Dade County; E2007-3738; Alice M. McGarry and James S. Lord, Jr., USDA/APHIS/PPQ; 5 April 2007). This is an exotic species from Madagascar imported for the pet trade (Dr. G.B. Edwards).

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

A total of samples 2,981 (2,789 for morphological and 192 for molecular identifications) were processed in May and June 2007. Details are shown below:

<p>Certification and Regulatory Samples: Multi-state Certification for National and International Export..... 1,454 California Certification 957 Pre-movement (Citrus Nursery Cert.) 55 Site or Pit Approval (Citrus Nursery and Other Certifications)..... 97</p>	<p>Other Samples: Identification (invertebrate) 3 Nematology Investigations 1 Plant Problems 49 Intrastate Survey, Random..... 173</p> <p>Molecular Identifications* 192</p> <p><small>*The majority of these analyses involved root-knot nematode species</small></p>
---	--

Nematodes of Special Interest

Nematodes of special interest detected and/or identified in May – June 2007:

Hygrophila difformis (water wisteria) - *Hirschmanniella caudacrena* Sher, 1968, **a rice root nematode**, was found infecting the roots of this aquatic plant (Broward County; N07-00579; Thomas L. Salisbury; 3 May 2007). The damaging effect and distribution of *H. caudacrena* on water wisteria (Fig. 1) in Florida are not known.



Fig. 1. *Hygrophila difformis*
Photo courtesy of Rhonda Wilson
<http://naturalaquariums.com>

COLLECTORS SUBMITTING FIVE OR MORE SAMPLES THAT WERE PROCESSED FOR NEMATOLOGICAL ANALYSIS DURING MAY AND JUNE 2007:

Anderson, James L.30	Qiao, Ping 205
Edenfield, Carrie S.122	Salisbury, Thomas L..... 219
LeBoutillier, Karen W.251	Shelley, J. Brooks..... 23
Ochoa, Ana L.290	Spriggs, Charles L. 118
Pate, Jo Ann49	Toral, Angelina M. 20

PLANT PATHOLOGY

Compiled by: Robert M. Leahy

For this period, the Plant Pathology Section received and processed 1,419 specimens. These included 525 pathology, 8 miscellaneous, 8 soil, 647 citrus greening, and 14 bee samples. No full pathogenicity tests for citrus canker were performed, but visual identifications were needed for 14 regular citrus canker samples from Southeast Florida, 94 from Southwest Gulf Coast Florida, 19 from Central Gulf Coast Florida, 67 from Central Florida and 23 from North Florida.

ORNAMENTALS, FOLIAGE PLANTS:

Agastache sp. (giant hyssop) -- *Peronospora lamii*, **downy mildew**: Collected at a nursery in Gainesville, Alachua County (05/16/2007, P200700957, Robert M. Leahy and Timothy S. Schubert).

Coleus sp. (coleus) -- *Peronospora* sp., **downy mildew**: Collected at a nursery in Gainesville, Alachua County (05/16/2007, P200700952, Robert M. Leahy and Timothy S. Schubert).

Coleus sp. (coleus) -- *Peronospora* sp., **downy mildew**: Collected at a nursery in Jacksonville, Duval County (05/28/2007, P200702225, Mr. Garben.).

Dracaena fragrans 'Massangeana' (corn plant) -- *Endophragmia* sp., **secondary pathogen**: Collected at a nursery in Mount Dora, Lake County (06/24/2007, P200701147, Mary E. Sellers). NEW RECORD: HOST

Salvia greggii 'Stampede' (autumn sage) -- *Peronospora lamii*, **downy mildew**: Collected at a nursery in Gainesville, Alachua County (05/16/2007, P200700950, Robert M. Leahy and Timothy S. Schubert).

Salvia greggii x *S. karwinskii*, (Karwinski's red salvia) -- *Peronospora lamii*, **downy mildew**: Collected at a nursery in Gainesville, Alachua County (05/16/2007, P200700893, Robert M. Leahy and Timothy S. Schubert).

Salvia guarantica (blue anise sage; giant blue sage; Brazilian sage) -- *Peronospora lamii*, **downy mildew**: Collected at a nursery in Gainesville, Alachua County (05/16/2007, P200700952, Robert M. Leahy and Timothy S. Schubert).

Salvia patens 'Patio Deep Blue' (gentian sage) -- *Peronospora lamii*, **downy mildew**: Collected at a nursery in Gainesville, Alachua County (05/16/2007, P200700955, Robert M. Leahy and Timothy S. Schubert).

Salvia patens 'Patio Sky Blue' (gentian sage) -- *Pseronospora lamii*, **downy mildew**: Collected at a nursery in Gainesville, Alachua County (05/16/2007, P200700956, Robert M. Leahy and Timothy S. Schubert).

ORNAMENTALS, FLOWER PLANTS:

Gladiolus x *hortulanus* (garden gladiolus) -- *Uromyces transversalis*, **gladiolus rust**: Collected at a grocery store in Bonita Springs, Collier County (05/02/2007, P200700873, Lori R. Rigby).

Pelargonium x *hortorum* (geranium) -- *Puccinia pelargonii-zonalis*, **geranium rust**: Collected at a retail store in Arcadia, Desoto County (06/08/2007, P200702266, Susan C. Griego).

Collected at a chain retail store in Winter Haven, Polk County (06/07/2007, P200701146, John P. Tice and Randall A. Dean). Collected at a chain retail store in Sebring, Highlands County (06/06/2007, P200701120, Susan C. Griego). Collected at a chain retail store in North Port, Sarasota County (06/05/2007, P200701112, Karen L. Etchels). Collected at a chain retail store in Spring Hill, Hernando County (06/05/2007, P200701100, Corinne M. Hermle).

Pelargonium sp. (geranium) -- *Puccinia pelargonii-zonalis*, **geranium rust**: Collected at a Wal-Mart in Haines City, Polk County (05/30/2007, P200701073, Sharon B. Garrett).