

BOTANY SECTION

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

For this period, 90 specimens were submitted to the Botany Section for identification, and 1,263 were received from other sections for identification/name verification for a total of 1,353. Also during this period, 26 specimens and one seed vial were added to the herbarium. Some of the samples sent in for identification are discussed below:

Aeschynomene americana L. (A genus of approximately 150 species, in tropical and warm areas.)

Leguminosae/Fabaceae. **Shyleaf.** The plant family Leguminosae is often identified by its fruit



(a legume) that splits apart along two sides. Some species, including this one, have fruits (loments) that break across the pod—each segment holding one seed. Growing up to 2 m tall, it has pinnately compound leaves, 3-8 cm long, with 8-38 pairs of leaflets, 3-15 mm long by 1-3 mm wide. Members of this genus have “sensitive” leaves that close in response to touch and darkness, perhaps leading to the common name. The inflorescence is a loose raceme of papilionaceous (pea-like) flowers, 5-10 mm long and wide, ranging from pale pink to yellow with red or purple stripes. Although this native annual plant has been found throughout Florida, it has not been reported in every county. Usually seen growing in wet or seasonally

flooded areas and their borders, this nitrogen-fixing species has been used as forage for cattle and in wetland restoration projects. (Indian River County; B2006-627; Carlos Averrhof Chirino; 7 December 2006). (Mabberly 1997; <http://www.plantatlas.usf.edu>; <http://plant-materials.nrcs.usda.gov/pubs/flpmcpgaeamf149.pdf>).

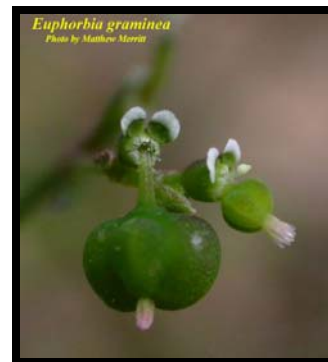
Bidens mitis (Michx.) Sherff. (A cosmopolitan genus of about 240 species, with species diversity concentrated in Mexico.) Compositae/ Asteraceae. **Smallfruit beggarticks.** These obligate

wetland annuals grow 30-90 cm tall and are usually found in marshes or along borders of estuaries. The leaves are quite variable: deltoid, ovate, or lanceolate, 30-100 × 10-50+ mm, with cuneate bases, acute to attenuate apices and sharply serrate to entire margins. The outer involucral bracts are usually narrower than inner ones, which vary in color, but often have purple specks. Flower heads are 3-6 cm in diameter with yellow ray flowers 1-3 cm long and disc flowers 1-1.5 cm across.



Achenes are dark brown to black with no barbs or cilia on their margins, 2.5-5mm long. Although this species is found throughout nearly all of Florida, south of Lake Okeechobee it has been documented only in Collier County. This late fall wildflower was used medicinally by Seminole people for diseases of the eyes and for fever. (St. Lucie County; B2006-621; Kenneth L. Hibbard; 5 December 2006). (Austin 2004; Godfrey and Wooten 1981; Mabberly 1997; <http://www.efloras.org>).

Euphorbia graminea Jacq. (A very large genus of approximately 2000 species found worldwide, especially in warm areas.) Euphorbiaceae. **Grass-leaved spurge.** Species in the genus *Euphorbia* are characterized by a milky latex that can be irritating on contact or toxic if eaten, and by fruits with three segments. Their flowers are reduced to eliminate the non-reproductive parts, but the central pistillate flower and surrounding staminate flowers are assembled into structures known as cyathia, with petal-like bracts, that taken altogether could be mistaken for a perfect flower (although some species within this genus have separate staminate only cyathia). Glands surrounding the flowers produce nectar to reward insect pollinators. *E. graminea* is a weedy, introduced species scattered mainly in southern and coastal Florida counties. (Broward County; B2006-608; Frank A. Burgos; 30 November 2006). (Mabberly 1997; Narbona *et al.* 2002; Zomlefer 1994).



Imperata cylindrica (L.) Beauv. (A genus of approximately 150 species, in tropical and warm areas.) Gramineae/Poaceae. **Cogongrass.** The Florida Exotic Pest Plant Council describes this species as, “one of the ten worst weeds in the world.” Both FDACS and USDA include cogongrass on their lists of noxious weeds. This perennial grass expands its territory with underground rhizomes creeping outward in all directions to produce new shoots while wind-dispersed seeds infiltrate more distant locations. This invasive plant can eventually exclude other vegetation from an area by forming dense mats that disrupt the ecological processes of germination, growth and decomposition of other species. Cogongrass flowers all year in Central and South Florida, but only in spring or fall in more northern locations. The striking white spike of flowers and the leaves with a pale, off-center midvein help identify this species. Its leaves can grow to 1 m or more in length and up to 5 cm in width.



Cogongrass was introduced in Florida for forage and erosion control. (Osceola County; B2006-614; Carlos Averrhof Chirino; 4 December 2006). (Coile and Shilling 1993; Langeland and Burks 1998; <http://edis.ifas.ufl.edu>; <http://www.invasive.org/eastern/biocontrol/28CogonGrass.html>).

Ludwigia arcuata Walter. (A genus of approximately 80 species, worldwide, especially in the Americas.) Onagraceae. **Piedmont primrosewillow.** This wetland perennial has a pubescent, creeping stem that often forms roots at the lower nodes. The leaves exhibit heterophylly (two leaf forms). Its 8-20 mm opposite leaves are sessile, oblanceolate or elliptic—unless it is growing underwater, when its leaves are linear. The four-petaled, 5-10 mm yellow flowers are solitary and usually arise in the axil of only one leaf at a node. This native is found in Florida wetlands nearly



throughout the state (but not in Atlantic coastal counties or the Keys) and has also found a home in the aquatic plant trade. In bright light, the submerged leaves can turn red, making this species



throughout the state (but not in Atlantic coastal counties or the Keys) and has also found a home in the aquatic plant trade. In bright light, the submerged leaves can turn red, making this species

an attractive addition to aquaria and backyard water gardens. Research on plant hormones has found that ethylene is concentrated in submerged shoots and that treating terrestrial plants of this species with ethylene produced the submerged leaf form. Submerged plants do not bloom, but when growing above water, the flowers add color to the banks of streams, marshes or ditches. (Levy County; B2006-634; Cheryl A. Jones; 5 December 2006). (Godfrey and Wooten 1981; Kuwabara *et al.* 2003; Zomlefer 1994).

Mikania cordifolia (L. f.) Willd. (A genus of approximately 150 species, in tropical and warm areas.) Compositae/Asteraceae. **Florida keys hempvine.**

This perennial vine has twining to scrambling six-angled, more or less tomentose stems and opposite petiolate leaves with ovate to deltoid leaf blades. Flowering heads are 7-10 mm across with phyllaries 6-9 mm long. The fruit is a glabrous tan achene, 3-4.5 mm long. This species is one in a complex of quite similar and variable species, including *M. micrantha* and *M. cordata*, both of which are listed as federal noxious weeds. *M. cordata* is also a serious weed in plantation crops, rapidly growing over the tops of trees. Unlike those species, *M. cordifolia* is a



Florida native found in wetlands and is not a serious pest. (Lake County; B2006-611; Roderick S. Grills; 1 December 2006). (Austin 2004; Holm *et al.* 1977; <http://www.aphis.usda.gov/ppq/weeds/weedlist2006.pdf>; <http://www.efloras.org>).

REFERENCES

- Austin, D. F. 2004. *Florida Ethnobotany*. CRC Press, Boca Raton, Florida. 909 p.
- Coile, N. C. and D. G. Shilling. 1993. *Cogongrass, Imperata cylindrica (L.) Beauv.: a good grass gone bad!* Botany Circular 28. Florida Department of Agriculture and Consumer Services. Division of Plant Industry. Gainesville, Florida, USA.
- 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.
- Holm, L. G., D. L. Plucknett, J. V. Pancho and J. P. Hergerger. 1977. *The world's worst weeds: distribution and biology*. University Press of Hawaii, Honolulu, Hawaii. 609 p.
- Kuwabara A, Ikegami K, Koshiha T, Nagata T. 2003. Effects of ethylene and abscisic acid upon heterophylly in *Ludwigia arcuata* (Onagraceae). *Planta* 217:880-887.
- Langeland, K. A. 2003. *Help Protect Florida's Natural Areas from Non-Native Invasive Plants*. Circular 1204, Agronomy Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. Available at <http://edis.ifas.ufl.edu>.
- Langeland, K. A. and K. C. Burks (eds.) 1998. *Identification & biology of non-native plants in Florida's natural areas*. University of Florida. Gainesville, Florida. 165 p.
- Mabberley, D. J. 1997. *The plant book*, 2nd edition. Cambridge University Press. Cambridge, UK. 858 p.
- Narbona, E., P. L. Ortiz and M. Arista. 2002. Functional andromonoecy in *Euphorbia* (Euphorbiaceae). *Annals of Botany* 89: 571-577.
- Zomlefer, W. B. 1994. *Guide to flowering plant families*. University of North Carolina Press. Chapel Hill, North Carolina. 430 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 November, there were 1,010 samples, consisting of 30,290+ specimens. In December, there were 729 samples, consisting of 35,556+ specimens. Some of the samples are listed below:

ORNAMENTALS, WOODY PLANTS AND PALMS:

Adonidia merrillii (Christmas palm)-- *Eutetranychus* sp., a **spider mite**: A severe infestation causing leaf bronzing was found in Homestead (Miami-Dade County; E2006-8527; Rita E. Duncan, University of Florida, IFAS, Homestead; 11 January 2006). NEW DPI HOST RECORD.

Caesalpinia sp. (no common name)-- *Freysuila dugesii* Aleman, a **psyllid**: A severe infestation was found at a residence in Miami (Miami-Dade County; E2006-7814; Olga Garcia; 18 October 2006). NEW DPI HOST RECORD, NEW DPI COUNTY RECORD.

Cocos nucifera (coconut palm)-- *Eutetranychus* sp., a **spider mite**: A severe infestation was found in Homestead (Miami-Dade County; E2006-8525; Jorge E. Peña, University of Florida, IFAS, Homestead; 11 January 2006). NEW DPI HOST RECORD. This is an undescribed species that first appeared in the Ft. Lauderdale area several years ago (Dr. W.C. 'Cal' Welbourn).

Rhododendron sp. (azalea)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A slight infestation was found at a residence in Sarasota (Sarasota County; E2006-7974; Karyn L. Pippenger; 19 October 2006). NEW DPI HOST RECORD.

ORNAMENTALS, FOLIAGE PLANTS:

Abies fraseri (Fraser's fir, southern balsam fir)-- *Gymnetron pascuorum* (Gyllenhal), a **weevil**: An infestation was found on 10 of 66 Christmas trees imported from Wisconsin at a discount store in Gainesville (Alachua County; E2006-8855; Christine A. Zamora; 28 November 2006). This is not a native weevil (Dr. Michael C. Thomas).

Abies sp. (fir)-- *Paradiplosus tumifex* Gagne, a **gall midge**: A slight infestation on 2% of 57 plants was found on Christmas trees imported from Washington State at a discount store in Gainesville (Alachua County; E2006-8890; Christine A. Zamora; 30 November 2006). The only reported host is *Abies*, and the distribution is northern USA and Canada (Dr. Gary J. Steck).

Bambusa sp. (bamboo)-- *Myloccerus undecimpustulatus undatus* Marshall, a **weevil**: A slight infestation was found on a plant at Chapman Field in Miami (Miami-Dade County; E2006-9457; Edward T. Putland; 27 December 2006). NEW DPI HOST RECORD.

Dracaena sp. (dracaena)-- *Chelisoches morio* (Fabricius), **black earwig**: A specimen was found in plants imported from Hawaii at a nursery in Fort Pierce (St. Lucie County; E2006-8942; Dagne A. Vasquez; 1 December 2006). This is an Oriental species, widely spread in commerce and intercepted sporadically in Florida (Dr. Gary J. Steck).

Pinus sylvestris (Scots pine, Scotch pine)-- *Platyphytoptus sabinianae* Keifer, an **erriophyid mite** and *Zetzellia silvicola* Gonzales, a **stigmaeid mite**: A moderate infestation on seven of 48 plants was found on Christmas trees imported from Wisconsin at a discount store in Gainesville (Alachua County; E2006-8853; Christine A. Zamora; 28 November 2006). The erriophyid is not established in Florida. It can cause some needle damage. The stigmaeid is a predator, which also is not established in Florida (Dr. W.C. 'Cal' Welbourn).

Pseudotsuga menziesii (Douglas fir)-- *Gymnetron pascuorum* (Gyllenhal), a **weevil**: A slight infestation was found on 10 of 66 plants imported from Wisconsin at a discount store in Gainesville (Alachua County; E2006-8854; Christine A. Zamora; 28 November 2006). This is not a native weevil (Dr. Michael C. Thomas).

Radermachera sp. (china doll)-- *Scirtothrips dorsalis* Hood, **chili thrips**: A severe infestation was found at a discount store in Gainesville (Alachua County; E2006-8332; Christine A. Zamora, David C. Ziesk, and Susan E. Halbert; 7 November 2006). NEW DPI HOST RECORD.

ORNAMENTALS, FLOWERING PLANTS:

Consolida ambigua (larkspur)-- *Diabrotica undecimpunctata undecimpunctata* Mannerheim, **western spotted cucumber beetle**: A specimen was found in a shipment of plants from California at a business in Tampa (Hillsborough County; E2006-9110; James R. Martin; 6 December 2006). This beetle does not occur in Florida. It is a pest of cucurbits and other crops (Dr. Michael C. Thomas).

Hibiscus rosa-sinensis (hibiscus)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A severe infestation was found at a residence at The Villages (Sumter County; E2006-8610; James R. Holm and Harry L. Morrison; 17 November 2006). NEW DPI COUNTY RECORD.

Philephedra tuberculosa Nakahara & Gill, a **soft scale**: A moderate infestation was found at a residence in The Villages (Sumter County; E2006-8600; James R. Holm and Harry L. Morrison; 17 November 2006). NEW DPI COUNTY RECORD.

Pentas lanceolata (star flower, pentas)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A moderate infestation was found on a plant at a residence in Oakland (Orange County; E2006-8231; Charles A. Leggett and Jesse M. Krok; 3 November 2006). NEW DPI HOST RECORD.

Trachelospermum asiaticum (Asian jasmine)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A moderate infestation was found on a plant at a residence in Oakland (Orange County; E2006-8235; Charles A. Leggett and Jesse M. Krok; 3 November 2006). NEW DPI HOST RECORD.

FOREST AND SHADE TREES:

Ficus aurea (Florida strangler fig)-- *Aleurotrachelus trachoides* (Back), a **whitefly**: An infestation was found along a roadside in Jupiter Island (Martin County; E2006-8441; Kenneth L. Hibbard; 7 November 2006). NEW DPI HOST RECORD.

FOOD OR CROP PLANTS:

Eriobotrya japonica (loquat, Japanese plum)-- *Parastenopa limata* (Coquillett), a **fruit fly**: A specimen was found in a Jackson trap at a pre-school in Bluewater Bay (Okaloosa County; E2006-8370; William L. 'Robbie' Robinson; 6 November 2006). NEW DPI COUNTY RECORD.

Gossypium sp. (cotton)-- *Ceroplastes rusci* (Linnaeus), **fig wax scale**: An infestation was found at a residence in Miami (Miami-Dade County; E2006-8960; Olga Garcia; 30 November 2006). NEW DPI HOST RECORD.

Persea americana (avocado, alligator pear, aguacate)-- *Xyloborus glabratus* Eichhoff, a **scolytid beetle**: A slight infestation was found at an experimental planting in Jacksonville (Duval County; E2006-9295; Jeffrey M. Eickwort and Albert E. 'Bud' Mayfield, both Department of Forestry; 13 December 2006). NEW DPI HOST RECORD. *Xyloborus glabratus* is developing as a serious pest of red bay, *Persea borbonia*. Its discovery in avocado, *P. americana*, confirms

suspicions that it can attack other members of the genus *Persea*, although it does not prove that the beetle will be a serious pest of avocado (Dr. Michael C. Thomas).

Pisum sativum (garden pea)-- *Liriomyza langei* Frick, **California pea leafminer**: An infestation was intercepted in five boxes of peas from California at the I-10 Agricultural Inspection Station in Live Oak (Suwanee County; E2006-8286; W. Wayne Bailey; 3 November 2006). This is a serious pest that does not occur in Florida (Dr. Gary J. Steck).

Vitis rotundifolia (muscadine)-- *Icerya genistae* Hempel, a **margarodid scale**: A slight infestation was found along a roadside in Dania Beach (Broward County; E2006-8834; William A. Thiel; 21 November 2006). NEW DPI HOST RECORD.

CITRUS:

Citrus sp. (citrus)-- *Diaphorina citri* Kuwayama, **Asian citrus psyllid**: A specimen was collected from a homeowner plant confiscated at the I-10 inspection station in Live Oak (Suwanee County; E2006-9460; W. Wayne Bailey; 28 December 2006). The plant originated in Gibsonton ((Hillsborough County). Another homeowner plant that originated in Palm City (Martin County) was confiscated the same day, but it had no insects.

WEEDS AND GRASSES:

Aeschynomene americana (shyleaf)-- *Icerya genistae* Hempel, a **margarodid scale**: An infestation was found at the Ft. Lauderdale airport in Ft. Lauderdale (Broward County; E2006-9141; William A. Thiel; 6 December 2006). NEW DPI HOST RECORD.

Asclepias curassavica (butterfly milkweed, scarlet milkseed, bloodflower)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A moderate infestation was found at a residence in Oakland (Orange County; E2006-8234; Charles A. 'Cal' Leggett and Jesse M. Krok; 3 November 2006). NEW DPI HOST RECORD.

Carex sp. (sedge)-- *Icerya genistae* Hempel, a **margarodid scale**: An infestation was found at the Ft. Lauderdale airport in Ft. Lauderdale (Broward County; E2006-9168; William A. Thiel; 6 December 2006). NEW DPI HOST RECORD.

Clusia sp. (clusia)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A slight infestation was found on two plants at a residence in Princeton (Miami-Dade County; E2006-8392; Edward T. Putland; 7 November 2006). NEW DPI HOST RECORD.

Crotalaria incana (rattlebox, shakeshake)-- *Icerya genistae* Hempel, a **margarodid scale**: A moderate infestation was found on ten plants at a residence in Miami (Miami-Dade County; E2006-8728; Olga Garcia; 16 November 2006). NEW DPI HOST RECORD.

Froelichia floridana (plains snakecotton)-- *Hypogeococcus pungens* Granara de Willink, a **mealybug**: A slight infestation was found along a roadside in Tangerine (Orange County; E2006-8160; Kathy A. Gonzalez; 31 December 2006). NEW DPI HOST RECORD.

Oxalis dillenii (Dillen's oxalis)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A moderate infestation was found on a plant at a residence in Oakland (Orange County; E2006-8233; Charles A. 'Cal' Leggett and Jesse M. Krok; 3 November 2006). NEW DPI HOST RECORD.

Passiflora lutea (yellow passion flower)-- *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: A moderate infestation was found at a residence in Oakland (Orange County; E2006-8241; Charles A. 'Cal' Leggett and Jesse M. Krok; 3 November 2006). NEW DPI HOST RECORD.

Senna polyphylla (desert cassia, retama prieta)-- *Icerya genistae* Hempel, a **margarodid scale**: An infestation was found at a residence in Dania Beach (Broward County; E2006-8918; William A. Thiel; 28 November 2006). NEW DPI HOST RECORD.

Sterculia sp. (sterculia)-- *Myllocerus undecimpustulatus undatus* Marshall, a **weevil**: A slight infestation was found on a plant at the DPI office in Miami (Miami-Dade County; E2006-8324; Olga Garcia and Edward T. Putland; 4 November 2006). NEW DPI HOST RECORD.

Stylosanthes biflora (sidebeak pencilflower)-- *Icerya genistae* Hempel, a **margarodid scale**: A slight infestation was found at Port Everglades in Ft. Lauderdale (Broward County; E2006-8259; William A. Thiel; 30 October 2006). NEW DPI HOST RECORD.

NATIVE AND NATURALIZED PLANTS:

Merremia dissecta (noyau vine, Alamo vine)-- *Myllocerus undecimpustulatus undatus* Marshall, a **weevil**: A slight infestation was found at a residence in Miami (Miami-Dade County; E2006-8773; Olga Garcia; 21 November 2006). NEW DPI HOST RECORD.

Osmanthus americanus (devilwood, wild olive)-- *Myllocerus undecimpustulatus undatus* Marshall, a **weevil**: A severe infestation was found at Chapman Field in Miami (Miami-Dade County; E2006-9454; Edward T. Putland; 27 December 2006). NEW DPI HOST RECORD.

Tournefortia hirsutissima (chiggery-grapes)-- *Nothopoda integra* Flechtmann & Etienne, an **erriophid mite**: A severe infestation was found on Florida endangered plants at Castello Hammock Preserve and Nature Center in Goulds. (Miami-Dade County; E2006-8103; Melba A. Otero; 26 October 2006). An earlier infestation was found at the same location (Miami-Dade County; E2000-1289; Nancy C. Coile, DPI Botany, retired, Barbara J. Wilder, and Gay M. Fortier, retired; 4 May 2000). NEW USA RECORD. Based on material received in October 2006, *Nothopoda integra* is a leaf vagrant on *Tournefortia hirsutissima*. I suspect *Nothopoda integra* will be found on *T. hirsutissima* throughout its range. The species was described in 2001, based on a collection from Guadeloupe, but no damage has been reported there. If this mite causes damage to the endangered *T. hirsutissima* in Florida, then control options should be explored (Dr. W.C. 'Cal' Welbourn).

Trema micranthum (Florida trema, nettletree)-- *Icerya genistae* Hempel, a **margarodid scale**: A moderate infestation was found at John Lloyd State Park in Dania Beach (Broward County; E2006-8837; 27 November 2006). NEW DPI HOST RECORD.

Typha latifolia (broadleaf cattail)-- *Holcocranum saturejae* Kolenati, **cattail seed bug**: A moderate infestation was found on a plant in Starke (Bradford County; E2006-7624; Julieta Brambila, USDA/APHIS/PPQ; 3 October 2006). NEW DPI COUNTY RECORD.

Zanthoxylum thomsonianum (St. Thomas pricklyash)-- *Toxoptera citricida* (Kirkaldy), **brown citrus aphid**: A severe infestation was found on a plant at the Fairchild Tropical Botanic Garden Conservatory in Coral Gables (Miami-Dade County; E2006-9002; Olga Garcia and Charles Gonzalez; 5 December 2006). NEW DPI HOST RECORD.

FEDERAL AND STATE PLANT PROTECTION AND QUARANTINE PROGRAMS:

Citrus reticulata (Clementine tangerine)-- *Ceratitis capitata* (Wiedemann), **Mediterranean fruit fly**: Three dead larvae were intercepted in fruit from Spain at a supermarket in Sarasota (Sarasota County; E2006-9024; L. Wayne Clifton and Matthew W. Clifton, store employee; 1 December 2006).

Citrus sp. (citrus)-- *Ceratitis capitata* (Wiedemann), **Mediterranean fruit fly**: Eight dead larvae were intercepted in fruit from Spain at a grocery store in Tampa (Hillsborough County; E2006-8909; Jason B. Sharp; 27 November 2006). 15 dead larvae were intercepted in fruit from Spain

at a warehouse in Lakeland (Polk County; E2006-8856; Warren J. 'Jim' Dowling; 27 November 2006). One dead larva was intercepted in fruit from Spain at a discount store distribution center in Arcadia (De Soto County; E2006-8665; Susan C. Griego; 16 November 2006).

ARTHROPOD DETECTION:

Heterobostrychus aequalis (Waterhouse), a **false powderpost beetle**: Several specimens were intercepted in a pool table manufactured in China at a residence in Rotonda West (Charlotte County; E2006-9056; Richard L. Blaney and Walter W. Golden; 6 December 2006). This is a commonly intercepted Asian false powderpost beetle (Dr. Michael C. Thomas).

Leucophenga maculosa (Coq.), a **drosophilid fly**: Several specimens were found in a multilure trap in a grapefruit tree in Lake Mary (Seminole County; E2006-9438; Eugene M. Monaghan, USDA/APHIS/PPQ; 20 December 2006). NEW DPI COUNTY RECORD.

Sirex areolatus (Cresson), a **horntail**: A specimen was found in a trap with an alpha-beta pinene lure in Jacksonville (Duval County; E2006-9231; Adam J. Silagyi, USDA/APHIS/PPQ/CAPS; 29 November 2006). Another specimen was found in a similar trap in Tallahassee (Leon County; E2006-9230; Michael A. Bentley; 7 December 2006). Both finds are NEW DPI COUNTY RECORDS.

Sirex nigricornis Fabricius, a **horntail**: A specimen was found in a trap with an alpha-beta pinene lure in Pensacola (Escambia County; E2006-9232; Chalin B. Street, USDA/APHIS/PPQ; 19 November 2006). Two specimens were found in similar traps in Jacksonville (Duval County; E2006-9229; Jeffrey M. Eickwort, Division of Forestry; 5 December 2006). Another specimen was found in a trap with an ethanol lure in Tallahassee (Leon County; E2006-9233; Michael A. Bentley; 17 November 2006). All finds are NEW DPI COUNTY RECORDS.

Thyropygus pococki (Demange), a **millipede** and *Tigridosphaera* sp, a **ball millipede**: Several specimens of both species were intercepted in a shipment manifested as "Live reptiles" intended for the pet trade and originating in Malaysia at the Miami International Airport in Miami (Miami-Dade County; E2006-8348; Ramon J. Montalvo, USDA/APHIS/PPQ; 8 September 2006). *Thyropygus pococki* is known only from the original description in 1961 from Johore, near Singapore. Four species of *Tigridosphaera* have been described, but this specimen cannot be diagnosed from the descriptions. It possibly is a new species (Dr. Richard L. Hoffman, Virginia Museum of Natural History).

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

A total of 1,918 samples (1,697 for morphological and 221 for molecular identifications) were processed in November and December 2006. Details are shown below:

<p>Certification and Regulatory Samples: Multistate Certification for National and International Export1018 California Certification..... 457 Pre movement (Citrus Nursery Certification)..... 40 Site or Pit Approval (Citrus Nursery and Other Certifications) 4</p>	<p>Other Samples: Plant Problems 16 Out of State Survey (via FL interception) 9 Intrastate Survey, Random..... 153</p> <p>Molecular Identifications* 221</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 November – December 2006:

Plectranthus scutellarioides (coleus)-*Meloidogyne incognita* (Kofoid & White, 1919) Chitwood, 1949, the **southern root-knot nematode**, was found infecting the roots of this ornamental plant (Alachua County; N06-1237; Ramandeep Kaur; 10 October 2006). Roots were galled and necrotic as a consequence of the nematode infection.

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

Anderson, James L.56	Podris, Flewellyn W.....6
Burgos, Frank A.....6	Qiao, Ping167
Edenfield, Carrie S.....31	Robinson, William L.....11
LeBoutillier, Karen W.55	Salisbury, Thomas L. ... 111
Ochoa, Ana L.65	Spriggs, Charles L.....246
Pate, JoAnn38	Stone, Carrie S.29

PLANT PATHOLOGY
Compiled by Robert M. Leahy

For this period, the Plant Pathology Section received and processed 1,347 specimens. These included 620 pathology, 5 soil, 22 bee, 231 citrus greening and 8 miscellaneous samples. Visual identification of citrus canker was also completed for 27 samples from southeast Florida, 85 from central gulf coast of Florida, 160 from southwest gulf coast Florida, 170 from central Florida and 19 from north Florida; full pathogenicity tests for citrus canker were performed on 14 of these samples.

ORNAMENTALS, WOODY PLANTS AND PALMS:

Chrysobalanus icaco (coco plum)-- *Colletotrichum acutatum*, **stem blight**: Collected at a nursery in Miramar (Broward County; P2006-0340712; Frank A. Burgos; December 2006). **NEW RECORD: HOST**

Rapanea punctata (myrsine)-- *Pseudocercospora* sp., **leaf spot**: Collected at a nursery in Naples (Collier County; P2006-03099; Scott D. Krueger; 13 November 2006). **NEW RECORD: HOST**

Pachysandra terminalis (pachysandra)-- *Gliocephalotrichum bulbilum* J.J. Ellis & Hesseltine, **stem blight**: Collected at a nursery in Williston (Marion County; P2006-03247; Cheryl A. Jones; 05 December 2006). **NEW RECORD: STATE**

Rosmarinus sp. (rosemary)-- *Oidium* sp., **powdery mildew**: Collected at a nursery in Gainesville (Alachua County; P2006-03130; Carolyn Baker; 17 November 2006). **NEW RECORD: HOST**

ORNAMENTALS, FLOWERING PLANTS:

Dietes iridoides (African iris)-- *Leptosphaeria* sp. and *Phaeoseptoria* sp., **leaf spot**: Collected at a dooryard in Apopka (Orange County; P2006-03515; James O. Strandberg; 15 November 2006). **NEW RECORD: HOST**