

BOTANY SECTION Compiled by Richard E. Weaver, Jr., Ph.D.

For this period, 96 specimens were submitted to the Botany Section for identification, and 917 were received from other sections for identification/name verification (total 1,013). Also during this period, 155 specimens were added to the herbarium. Some of the samples sent in for identification are discussed below.

Anomatheca laxa (Thunb.) Goldblatt [= *Freesia laxa* (Thunb.) Goldblatt & Manning] (A genus of six species native to central and southern Africa.) Iridaceae. **False freesia.** Plants native to areas of South Africa with wet winters and dry summers are generally difficult to grow in the eastern United States; those native to areas of South Africa with wet summers are often able to adapt to our climate. This delightful little plant (20 cm tall) is one of the latter. Vegetatively, it resembles a slender gladiolus, and like that plant, it grows from a corm, eventually forming a tight clump. The flowers are held well above the foliage on long-stalked, one-sided spikes and are 2-3 cm across. They are salverform, like those of a phlox or plumbago, with a slender perianth tube and a six-parted limb at right angles to the tube. Flowers of the wild plants are red to coral, but forms with white or blue-lavender flowers are in cultivation as well. The perianth segments, known as tepals, are similar in shape, but the three lowermost are marked with a dark red, oval spot at their base. In the garden, the plants bloom in early summer and then go dormant. The foliage often re-appears in late winter, but it is quite frost resistant. The plants, easily propagated by seeds or offsets, are drought-tolerant, but prefer a spot that is shielded from the midday sun. (Marion County; B2004-82; Floyd J. McHenry; 17 February 2004) (Ogden 1994)

Corydalis micrantha (Engelm. ex Gray) Gray (A genus of ca. 400 species widely distributed in temperate areas of the northern hemisphere, with a marked concentration in the Sino-Himalayan region and a single isolated species in the high mountains of East Africa.) Fumariaceae. **Smallflower fumewort.** (*Honest, we do not make up these common names.*) Native to most of the eastern half of the United States, this is a plant of sandy or gravelly soils, usually in open and/or disturbed sites. In Florida, it is a weed, albeit an attractive and not particularly noxious one. It is a winter annual with the seeds germinating in the fall, and the plants passing the early winter as a rosette of finely-divided fernlike leaves. In late winter, the stems elongate and terminate in racemes of slender, yellow, vaguely slipper-shaped flowers. The plants are poisonous, but this is primarily a problem for livestock. Since they are bitter to the taste, humans would not likely ingest a toxic dose. An introduced weed, *Fumaria officinalis*, similar in form and growing in similar places, is closely related, but the flowers are lavender with purple tips. (Alachua County; B2004-83; Christine A. Zamora; 19 February 2004) (Mabberley 1997; Muenscher 1964)

Drosera capillaris Poir. (A genus of perhaps 110 species, nearly cosmopolitan in distribution, but most diverse in the southern hemisphere.) Droseraceae. **Pink sundew.** This is the most widely distributed carnivorous plant in the southeastern United States, and undoubtedly, the most common. It ranges mostly along the Coastal Plain from southern Virginia to eastern Texas, but also sparingly inland to the Cumberland Plateau of Tennessee. It grows in almost any available open, moist, sandy acidic habitat, from pocosin edges and savannahs to roadside ditches. It is a small plant, usually 2 - 4 cm in diameter, but occasionally reaching 7

cm. The tiny leaf blades are mostly spoon-shaped and are arranged in a low, dense rosette. As in all sundews, the leaves are covered with stalked glands, which turn bright red in full sun. These tentacles, as they are called, are also covered with a sticky mucous that ensnares small insects. The tentacles actually bend and hold the insect to the surface of the leaf, where it drowns and finally is digested. In some species, a meal induces flowering. In this species, the pink or white flowers are held well above the leaves in a one-sided, coiled inflorescence. This and other sundews are often cultivated as ornamentals or curiosities. They can be grown outdoors in a carefully tended artificial bog, but are best in pots which are set in standing water (Collier County; B2004-58; Scott Krueger; 8 February 2004) (Mabberley 1997; Pietropaolo and Pietropaolo 1986)

Ilex x attenuata Ashe (A genus of 400 or so species, nearly cosmopolitan in distribution, but most numerous in temperate and tropical Asia and America.) Aquifoliaceae. **Topel holly.** This is a natural hybrid of *Ilex opaca* and *Ilex cassine*, found occasionally in the wild where the ranges of the parent species overlap, particularly in the Coastal Plain of the Carolinas, Georgia and Florida. The hybrid has also been produced artificially. A variety of selections have been named, and several of these are among the most widely planted hollies in the Deep South. Most of these hollies are small trees, to 7 m tall, with red berries in clusters and leaves with at least a few spines on the upper half. One of the most popular cultivars is 'Savannah,' which forms a loosely pyramidal tree with spiny-margined leaves and large and extremely numerous bright red berries. The other popular cultivar, 'East Palatka,' was found in the wild near East Palatka, Florida, in 1927. It bears somewhat fewer berries than 'Savannah' but has more attractive, darker green and less spiny foliage. The plants make excellent ornamentals, and they can be grown in full sun or partial shade (Volusia County; B2004-93; Stephen P. Beidler; 19 February 2004) (Dirr 1990; Galle 1997; Mabberley 1997)

Linaria maroccana Hook.f. (A genus of 150 species, mostly Eurasian, with a concentration around the Mediterranean, and a few in North America; many have naturalized widely outside their native range.) Scrophulariaceae/Veronicaceae. **Toadflax.** At first glance, this native of Morocco is similar to the garden snapdragon (*Antirrhinum majus*), but like all linarias, the corolla tube is prolonged into a spur. We have several related species in Florida, the most familiar of which, *Linaria canadensis*, makes a mist of blue above our fallow fields in late winter and early spring. Although *Linaria maroccana* has been cultivated for many years, interest in the plant increased with the recent development of several particularly brightly colored violet, blue, pink, scarlet and yellow strains. These strains, such as 'Northern Lights' and 'Fantasy,' are cool-season annuals and are best sown directly in the garden in the fall, preferably in full sun. The bushy plants grow 20-30 cm tall and are covered with flowers for about two months (Manatee County; B2004-33; Mark L. Runnals; 21 January 2004) (Huxley 1992; Mabberley 1997)

Photinia x fraseri Dress (A genus of 65 species distributed in the warm temperate parts of Asia, from the Himalayas to Japan, with several (formerly *Aronia* Medikus) in eastern North America and Central America.) Rosaceae. **Red-tip photinia.** This is a spontaneous hybrid between *Photinia serrulata* and *Photinia glabra* which appeared among seedlings at the Fraser Nurseries in Birmingham, Alabama. The original clone was named 'Birmingham' and was widely propagated. Even today, most of the red-tips grown in the southeastern United States represent this clone. This is indeed a popular plant through much of the South, although several leaf-spot diseases limit its use in Florida. If left alone, photinia forms a graceful tree to

6 m tall, with clusters of white flowers, but because it is often grown as a hedge and cut back periodically, it does not bloom. After pruning, the bright red flush of new foliage at the tips of the branches, for which the plants are named, is seen to best advantage (Lake County; B2004-10; Tom L. Phillips; 5 January 2004) (Dirr 1990)

Santalum album L. (A genus of 25 species distributed from southern Asia through Indonesia to Australia, with outliers in Hawaii and the Juan Fernandez Islands.) Santalaceae.

Sandalwood. An evergreen tree growing to 18 m tall, this is the primary modern source of commercial sandalwood and sandalwood oil. Native to southern India and Sri Lanka and cultivated elsewhere, this species has recently become naturalized in Miami-Dade County. Like all members of its family, sandalwood is a hemiparasite or “half parasite.” The seedling grows normally for a period of time, but eventually its roots attach to the roots of another plant (often a leguminous tree or shrub) through structures known as haustoria. For the rest of its life, the sandalwood draws nutrients from the host plant. For centuries, rites of all major Asian religions have included burning fragrant sandalwood. It is also crafted into boxes, chests, figurines and other decorative objects. The oil distilled from the wood is used for scent-making and as treatment for a variety of ailments, including skin disorders, gonorrhoea, sciatica and lumbago (Miami-Dade County; B2004-51; Eduardo M. Varona; 7 February 2004) (Mabberley 1997; <http://www.himalayahealthcare.com>)

Stachys floridana Shuttlew. ex Benth. (A genus of ca. 300 species, almost cosmopolitan in distribution, but absent from Australia.) Labiatae. **Florida betony.** Native primarily along the Coastal Plain from southeastern Virginia to eastern Texas. This species is unusual in that it is one of few native plants generally considered to be a weed. In fact, North Carolina has officially classified it as a Category B Noxious Weed. It is widely distributed and very common in Florida and is weedy primarily in suburban and commercial landscapes. At least in the southernmost portions of its range, it commences growth during the winter and starts to bloom in late March when it may be only 10 cm tall. Florida betony is an attractive plant, with square stems, opposite crenate leaves and pink, two-lipped flowers borne in several whorls at the tip of the stem. The underground rhizomes develop into white, elongate segmented tubers that are succulent and edible, although somewhat insipid. They also break apart easily with disturbance, helping to propagate the plant (Suwannee County; B2004-89; W. Wayne Bailey; 20 February 2004) (Godfrey and Wooten 1981; Mabberley 1997)

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Entomology Section
Compiled by Susan E. Halbert, Ph.D.

For the month of January, there were 499 samples, consisting of 21,945+ specimens. In February, there were 604 samples, consisting of 23,966+ specimens. Some of the samples are listed below:

ORNAMENTALS, WOODY PLANTS, AND PALMS:

Cordia myxa (Assyrian plum, fragrant manjack) -- *Hemiberlesia latania* (Signoret), **latania scale**, *Parasaissetia nigra* (Nietner), **nigra scale**, and *Pinnaspis strachani* (Cooley), **lesser snow scale**: A slight infestation was found on a plant at a nursery in Homestead (Miami-Dade County; E2004-234; Eduardo M. Varona, USDA and Cheryl L. Lichkai; 9 January 2004). All finds are NEW DPI HOST RECORDS.

Inga sp. (inga) -- *Eucerospylla* sp., **a psyllid**: A slight infestation was found at a residence in Miami (Miami-Dade County; E2004-950; Haydee L. Escobar; 13 February 2004). NEW USA RECORD FOR GENUS. *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A moderate infestation was found at a residence in Miami (Miami-Dade County; E2004-951; Haydee L. Escobar; 13 February 2004). NEW DPI HOST RECORD.

Lagerstroemia speciosa (queen's crape myrtle, pride of India) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A moderate infestation on 25 plants was found at a business in Weston (Broward County; E2004-534; Scott Shea, Nury M. Marrone and William A. Thiel; 28 January 2004). NEW DPI HOST RECORD.

Nerium oleander (oleander, adelfa) -- *Pseudococcus odermatti* Miller & Williams, **a mealybug**: An infestation was found at a residence in Boca Grande (Lee County; E2004-1192; Lorrie R. Rigby; 24 February 2004). NEW DPI COUNTY RECORD, NEW DPI HOST RECORD.

Pachypodium lamerei (Madagascar-palm) -- *Pseudococcus viburni* (Signoret), **obscure mealybug**: A moderate infestation was found on a plant at a discount store in Marathon (Monroe County; E2004-350; Lynn D. Howerton; 7 January 2004). NEW DPI COUNTY RECORD.

Viburnum odoratissimum var. *awabuki* (mirror-leaf viburnum) -- *Aspidiotus spinosus* Comstock, **spinose scale**: A moderate infestation was found on 25 of 50 plants at a clubhouse in Port St. Lucie (St. Lucie County; E2004-1118; Kenneth L. Hibbard; 20 February 2004). NEW DPI COUNTY RECORD; NEW DPI HOST RECORD.

ORNAMENTALS, FOLIAGE PLANTS:

Danae racemosa (Alexandria laurel) -- Probably *Cacoecimorpha pronubana* (Hubner), **carnation tortrix**: A slight infestation was intercepted in a shipment from Italy at a nursery in Seville (Volusia County; E2004-680; Stacey S. Simmons; 30 January 2004). This moth is established in Europe and Oregon, but does not occur in Florida (Dr. John B. Heppner).

Pseudococcus longispinus (Targ.-Tozz.), **longtailed mealybug**: A slight infestation was intercepted in a shipment from Italy at a nursery in Seville (Volusia County; E2004-680; Stacey S. Simmons; 30 January 2004). NEW DPI HOST RECORD.

Ficus pumila (creeping fig, climbing fig) -- *Daidalotarsonemus* sp., **a tarsonemid mite**: Specimens were found at an amusement park in Lake Buena Vista (Orange County; E2003-6662; Amanda D. Melco, George D. Warden, and Lance A. Brown; 19 December 2003).

This probably is a new species. It is not a plant pest (Dr. W. C. 'Cal' Welbourn).

Ligustrum japonicum (waxleaf privet, Japanese privet, ligustrum) -- *Pseudaonidia trilobitiformis* (Green), **trilobe scale**: A slight infestation was found at the Miami International Airport (Miami-Dade County; E2004-659; Eduardo M. Varona, USDA; 26 January 2004). NEW DPI HOST RECORD.

Nephrolepis sp. (sword fern) -- *Ceroplastes floridensis* (Comstock), **Florida wax scale**: A slight infestation was found at a motel in La Belle (Hendry County; E2004-121; Jo Ann Pate; 5 January 2004). NEW DPI HOST RECORD.

ORNAMENTALS, FLOWERING PLANTS:

Aglaonema sp. (Chinese evergreen, emerald beauty) -- *Pseudococcus odermatti* Miller & Williams, **a mealybug**: An infestation was found on all of 100 plants at a nursery in Apopka (Orange County; E2004-1028; Ping Qiao; 12 February 2004). NEW DPI COUNTY RECORD.

Cestrum nocturnum (night-blooming jasmine) -- *Eucalymnatus tessellatus* (Signoret), **tessellated scale**: A slight infestation was found on all of ten plants at a warehouse in Miami (Miami-Dade County; E2004-655; Eduardo M. Varona, USDA; 29 January 2004). NEW DPI HOST RECORD.

Gardenia jasminoides (gardenia) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A slight infestation was found at a residence in Carol City (Miami-Dade County; E2004-334; Misael E. Igarza; 14 January 2004). NEW DPI HOST RECORD.

Hibiscus rosa-sinensis (hibiscus) -- *Cerococcus deklei* Kosztarab & Vest, **a cerococcid**: An infestation was found at a residence in Englewood (Charlotte County; E2004-1196; Lorrie R. Rigby; 24 February 2004). NEW DPI COUNTY RECORD. *Chondrocerca laticornis* Laporte, **a leaffooted bug**: A slight infestation was found on one of four plants at a residence in St. Petersburg (Pinellas County; E2004-1062; Joseph S. Beckwith, USDA, and Brian D. Saunders, CAPS; 19 February 2004). NEW DPI COUNTY RECORD. *Maconellicoccus hirsutus* (Green), **pink hibiscus mealybug**: An infestation was found at a residence in St. Petersburg (Pinellas County; E2004-856; Mary A. Dell, USDA; 5 February 2004). NEW DPI COUNTY RECORD.

Iochroma cyaneum (iochroma) -- *Ceroplastes cirripediformis* Comstock, **barnacle scale**: A moderate infestation was found on a plant at a residence in Miami (Miami-Dade County; E2004-1042; Haydee L. Escobar; 17 February 2004). NEW DPI HOST RECORD.

FOREST AND SHADE TREES:

Bursera simaruba (gumbo limbo) -- *Myllocerus undatus* Marshall, **a weevil**: A slight infestation was found on one of five plants at a nursery in Miami (Miami-Dade County; E2004-253; Duraid I. Hanna; 6 January 2004). NEW DPI HOST RECORD.

Pinus elliottii (slash pine) -- *Toumeyella parvicornis* (Cockerell), **pine tortoise scale**: A moderate to severe infestation was found on a plant at a nursery in Ft. Myers (Lee County; E2004-697; Walter W. Golden; 2 February 2004). NEW DPI COUNTY RECORD.

Polygala cowellii (violeta, violet tree, tortuguero) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A severe infestation was found on a plant at Chapman Field, Miami (Miami-Dade County; E2004-658; Eduardo M. Varona, USDA; 28 January 2004). NEW DPI HOST RECORD.

Quercus virginiana (live oak) -- *Eriococcus quercus* (Comstock), **oak eriococcin**: A severe infestation on four of 20 plants was found at a retirement home in Daytona Beach (Volusia County; E2004-1151; Raymond C. Jarrett; 23 February 2004). NEW DPI COUNTY RECORD.

Sapindus trifoliatus (South India soapnut, three-leaf soapberry) -- *Mylocerus undatus* Marshall, **a weevil**: A slight infestation was found on a plant at Chapman Field, Miami (Miami-Dade County; E2004-772; Frederick Hubbard; 5 February 2004). NEW DPI HOST RECORD.

Simarouba glauca (bitterwood paradise-tree) -- *Pseudococcus longispinus* (Targ.-Tozz.), **longtailed mealybug**: A slight infestation was found at a residence in Alva (Lee County; E2004-693; David L. Renz, USDA; 1 February 2004). NEW DPI HOST RECORD.

FOOD AND CROP PLANTS:

Cajanus cajan (pigeonpea, gandul, Congo bean, gungo bean) -- *Asterolecanium arabidis* (Signoret), **a pit scale**: A slight infestation on four plants was found at a residence in Miami (Miami-Dade County; E2004-195; Joseph S. Beckwith, USDA and Mario Jose Hernandez; 6 January 2004). NEW DPI HOST RECORD. *Melanagromyza obtusa* (Malloch), **pigeonpea pod fly**: A slight infestation was found at a residence in Delray Beach (Palm Beach County; E2004-55; Ellen J. Tannehill; 30 December 2003). A moderate infestation was found at a residence in Lauderhill (Broward County; E2004-342; Brian D. Cairns, USDA; 15 January 2004). A slight infestation was found at a residence in Port St. Lucie (St. Lucie County; E2004-624; Kenneth L. Hibbard; 28 January 2004). An infestation was found at a residence in Ft. Myers (Lee County; E2004-1233; Norm E. Barnes; 25 February 2004). All finds are NEW DPI COUNTY RECORDS. *Mylocerus undatus* Marshall, **a weevil**: A moderate infestation was found on a plant at a residence in Opa-Locka (Miami-Dade County; E2004-230; Eduardo M. Varona and Ramon A. Dones, both USDA; 8 January 2004). NEW DPI HOST RECORD. *Parasaissetia nigra* (Nietner), **nigra scale**: A slight infestation was found on one of five plants at a residence in Homestead (Miami-Dade County; E2004-181; Lynn D. Howerton; 5 January 2004). NEW DPI HOST RECORD. *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A moderate infestation was found on one of 20 plants at a residence in Miami (Miami-Dade County; E2004-211; Mario Jose Hernandez and Eduardo M. Varona, USDA; 8 January 2004). NEW DPI HOST RECORD.

Fragaria x ananassa (garden strawberry)-- *Chaetosiphon fragaefolii* (Cockerell), **strawberry aphid**: A moderate infestation was found on an experimental strawberry planting at a University greenhouse in Orange Lake (Marion County; E2004-278; Silvia I. Rondon, University of Florida; 14 January 2004). This species does not occur in Florida. The population was found to be limited to the greenhouse, and it was eradicated (Dr. Susan E. Halbert).

Mangifera indica (mango) -- *Cryptocephalus irroratus* Suffrian, **a chrysomelid beetle**: A slight infestation was found on one of four plants at a residence in Naples (Collier County; E2004-548; Scott D. Krueger; 28 January 2004). NEW DPI COUNTY RECORD. This is the first record of this species on the west coast of Florida (Dr. Michael C. Thomas). *Tenuipalpus anoplus* Baker & Prichard, **false spider mite**: A moderate infestation was found on a plant at a residence in Ft. Lauderdale (Broward County; E2004-781; Sallie H. Simmons; 4 February 2004). NEW DPI HOST RECORD.

Mimusops elengi (Spanish cherry, medlar) -- *Paratachardina lobata* (Chamberlin), **lobate lac**

scale: A moderate infestation was found on 700 plants at a nursery in Weston (Broward County; E2004-543; Scott Shea, Nury M. Marrone, and William A. Thiel; 28 January 2004).
NEW DPI HOST RECORD.

Ziziphus mauritiana (Indian jujube, cottony jujube) -- *Paratachardina lobata* (Chamberlin),

lobate lac scale: A slight infestation was found at a residence in Miami (Miami-Dade County; E2004-740; Maria C. Acosta; 3 February 2004). NEW DPI HOST RECORD.

WEEDS AND GRASSES:

Ficus microcarpa (Cuban laurel, Indian laurel, laurel fig, Chinese banyan, laurel rubber) --

Greenidea ficicola Takahashi, **an aphid:** Infestations were found at a residence in Naples and at the DPI office in Naples (Collier County; E2004-490, 849; Douglas L. Caldwell, University of Florida Extension Agent, Collier County, and Scott D. Krueger; 22 January 2004, 3 February 2004). NEW DPI COUNTY RECORD, NEW DPI HOST RECORD.

Flaveria linearis (narrowleaf yellowtops) -- *Paratachardina lobata* (Chamberlin), **lobate lac**

scale: A moderate infestation was found at a residence in Miami (Miami-Dade County; E2004-676; Haydee L. Escobar; 30 January 2004). NEW DPI HOST RECORD.

Hymenachne amplexicaulis (West Indian marsh grass, trompetilla) -- *Ischnodemus variegatus*

(Signoret), **a seed bug:** A slight infestation was found in Bonita Springs (Lee County; E2004-521; Rodrigo Diaz, University of Florida, IFAS, Ft. Pierce; 6 December 2003). NEW DPI COUNTY RECORD.

Neyraudia reynaudiana (silkreed, Burma reed, cane grass) -- *Chortinaspis subchortina* (Laing),

water grass scale: A slight infestation was found on more than 1,000 plants at a community college in Miami (Miami-Dade County; E2004-469; Edward T. Putland; 23 January 2004). NEW DPI HOST RECORD.

Schizachyrium sp. (bluestem) -- *Duplachionaspis divergens* Green, **an armored scale:** A severe infestation was found at a residence in Miami (Miami-Dade County; E2004-1144; Edward T. Putland; 23 February 2004). NEW DPI HOST RECORD.

Sesbania grandiflora (vegetable-hummingbird) -- *Heteropsylla cubana* Crawford, **tropical legume psyllid:** A moderate infestation was found on all of ten plants at a residence in Homestead (Miami-Dade County; E2004-42; Eduardo M. Varona, USDA; 29 December 2003). NEW DPI HOST RECORD.

Sonchus sp. (sowthistle) -- *Hyperomyzus carduellinus* (Theobald), **an Asian sowthistle aphid:** A moderate infestation was found on a plant at a residence in Orange Park (Clay County; E2004-178; Sol F. Looker; 9 January 2004). NEW DPI COUNTY RECORD.

Spermacoce verticillata (shrubby false buttonweed) -- *Aceria* sp., **an eriophyid mite:** A moderate infestation was found on two of four plants at a farmers' market in Ft. Pierce (St. Lucie County; E2003-6672; Kenneth L. Hibbard; 22 December 2003). NEW DPI HOST RECORD. *Paratachardina lobata* (Chamberlin), **lobate lac scale:** A moderate infestation was found on a plant at a residence in Miami (Miami-Dade County; E2004-684; Haydee L. Escobar; 30 January 2004). NEW DPI HOST RECORD.

Syzygium jambos (rose apple, Malabar apple) -- *Vinsonia stellifera* (Westwood), **stellate scale:** A moderate infestation was found at a residence in Miramar (Broward County; E2004-319; George N. Louissaint, USDA; 14 January 2004). NEW DPI HOST RECORD.

NATIVE AND NATURALIZED PLANTS:

Avicennia germinans (black mangrove) -- *Telmopsylla minuta* Hodkinson, **a mangrove psyllid**:

An infestation was found in Sarasota (Sarasota County; E2004-941; Julieta Brambila; 15 February 2004). NEW DPI COUNTY RECORD.

Cissus verticillata (possum-grape, seasonvine) -- *Eurhin magnificus* (Gyllenhal), **a weevil**: A slight infestation was found in a citrus grove in Homestead (Miami-Dade County; E2004-116; Jorge Luis Vergel, University of Florida, IFAS, Homestead; 1 December 2003). NEW DPI COUNTY RECORD.

Eugenia confusa (redberry eugenia, tropical ironwood) -- *Ceroplastes floridensis* (Comstock), **Florida wax scale**: A slight infestation was found on about 10 of more than 36 plants at a nursery in Tavernier (Monroe County; E2004-572; Lynn D. Howerton; 28 January 2004). NEW DPI HOST RECORD.

Hypelate trifoliata (inkwood, white ironwood, melochia) -- *Paratachardina lobata* (Chamberlin), **lobate lac scale**: A moderate infestation was found at a residence in Miami (Miami-Dade County; E2004-1031; Haydee L. Escobar; 17 February 2004). NEW DPI HOST RECORD.

Krugiodendron ferreum (black ironwood, leadwood) -- *Pseudaonidia trilobitiformis* (Green), **trilobe scale**: A moderate infestation was found at a botanical garden in Coral Gables (Miami-Dade County; E2004-284; Haydee L. Escobar; 12 January 2004). NEW DPI HOST RECORD.

Randia aculeata (white indigoberry) -- *Milviscutulus mangiferae* (Green), **mango shield scale**: An infestation was found in a conservation center, Sanibel Island (Lee County; E2004-573; Lorrie R. Rigby and Walter W. Golden; 30 January 2004). NEW DPI HOST RECORD.

Rapanea punctata (Florida rapanea, Guiana rapanea, myrsine, colicwood) -- *Myllocerus undatus* Marshall, **a weevil**: A slight infestation was found on a plant at a residence in Miami (Miami-Dade County; E2004-669; Eduardo M. Varona, USDA; 29 January 2004). NEW DPI HOST RECORD.

INSECT DETECTION:

Ceratinopsis laticeps Emerton, **a spider**: A specimen was found under fallen palm fronds in a vacant lot in Vero Beach (Indian River County; E2004-63; Kenneth L. Hibbard; 29 December 2004). NEW DPI STATE RECORD. This spider was known previously from Mississippi and North Carolina (Dr. G.B. Edwards).

Clubiona pygmaea Banks, **a spider**: An adult female was found on *Coccoloba uvifera* (seagrape) in Miramar (Broward County; E2004-978; George N. Louissaint, USDA; 11 February 2004). NEW DPI COUNTY RECORD.

Curtara insularis (Caldwell), **a leafhopper**: A specimen was found in a multi-lure fruit fly trap in a grapefruit tree at a residence in Thonotosassa (Hillsborough County; E2004-263; Rebecca A. Freeman, USDA; 6 January 2004). NEW USA RECORD. It has been found in four counties. Records for counties in addition to Hillsborough include a specimen on a Jackson trap in a sweet orange tree in Bradenton (Manatee County; E2004-1183; Frank B. Williams, USDA; 24 February 2004), a specimen on a Jackson trap in a loquat tree in Bartow (Polk County; E2004-927; Martha A. Simpson, USDA; 9 February 2004), and a specimen on

the trunk of a grapefruit tree in a grove in Vero Beach (Indian River County; E2004-1385; Susan E. Halbert, Kenneth L. Hibbard, and Timothy S. Schubert; 4 March 2004). Nothing is known about the biology of this leafhopper, which appears to be well-established in Florida. It was described from Puerto Rico. Further surveys are in progress (Dr. Susan E. Halbert).

Dictyna dauna Chamberlin & Gertsch, **a spider**: Two specimens were found in a vacant lot under fallen palm fronds in Vero Beach (Indian River County; E2004-395; Kenneth L. Hibbard; 16 January 2004). NEW DPI COUNTY RECORD.

Froeschneria multispinus Stål, **a seed bug**: A specimen was found in a vacant lot under fallen palm fronds in Vero Beach (Indian River County; E2004-61; Kenneth L. Hibbard; 29 December 2003). NEW DPI COUNTY RECORD.

Gardena poppaea McAtee & Malloch, **an assassin bug**: Two specimens were found in a vacant lot under fallen palm fronds in Vero Beach (Indian River County; E2004-1170; Kenneth L. Hibbard; 23 February 2004). NEW DPI COUNTY RECORD.

Neopamera albocincta (Barber), **a seed bug**: Three specimens were found in a vacant lot under fallen palm fronds in Vero Beach (Indian River County; E2004-393; Kenneth L. Hibbard; 20 January 2004). NEW DPI COUNTY RECORD.

Proba distanti (Atkinson), **a plant bug**: A specimen was found in a sweep sample along a roadside in Temple Terrace (Hillsborough County; E2004-91; Amy R. Simington; 26 December 2003). NEW DPI COUNTY RECORD.

Prytanus minima (Guérin-Méneville), **a seed bug**: A specimen was found in a vacant lot under fallen palm fronds in Vero Beach (Indian River County; E2004-393; Kenneth L. Hibbard; 16 January 2004). NEW DPI COUNTY RECORD.

Pseudopachybrachius basalis (Dallas), **a seed bug**: Four specimens were found in a vacant lot under fallen palm fronds in Vero Beach (Indian River County; E2004-61; Kenneth L. Hibbard; 29 December 2003). NEW DPI COUNTY RECORD.

Tagalis inornata Stål, **an assassin bug**: Three specimens were found in a vacant lot under fallen palm fronds in Vero Beach (Indian River County; E2004-836, 838; Kenneth L. Hibbard; 4 February 2004). NEW USA CONTINENTAL RECORD. This species is from Brazil. Nothing is known about its biology (Dr. Susan E. Halbert).

Trioza russellae group, **a psyllid**: Two specimens were collected in a suction trap in Kendall (Miami-Dade County; E2004-489; Gwen H. Myres; 22 January 2004). This is the new species on *Ficus aurea* in the Miami area. Suction trap collections indicate significant flight activity (Dr. Susan E. Halbert).

NEMATODOLOGY SECTION
Compiled by Janete A. Brito, Ph. D. and Jason D. Stanley

A total of 3,842 samples (2,736 for morphological and 1,106 for molecular identifications) were processed in January and February 2004. Details are shown below:

Certification and Regulatory Samples:	Other Samples:
Multi-state Certification for National and International Export2,012	Plant Problems..... 44
California Certification.....446	Intrastate Survey, Random 151
Burrowing Nematodes.....22	Molecular Identifications*1,106
Pre-movement (Citrus Nursery Certification)53	
Site or Pit Approval (Citrus Nursery and Other Certifications)8	*The majority of these analyses involved root-knot nematode species.

NEMATODES OF SPECIAL INTEREST:

Nematodes of special interest detected and/or identified in January and February 2004:

Cyperus spp. (nutsedge) - *Heterodera cyperi* Golden, Rau, and Cobb, 1962, **sedge cyst nematode**, was found infecting the roots of this weed (Miami-Dade County; N03-00540; Ana L. Ochoa; 10 April 2003).

Cyperus esculentus (yellow nutsedge) - *Heterodera cyperi* Golden, Rau, and Cobb, 1962, **sedge cyst nematode**, was found infecting the roots of this weed (Alachua County; N03- 01487; Jason D. Stanley; 8 October 2003). Nematode was identified from roots of nutsedge seedlings maintained in pots containing soil from Miami-Dade County. Nutsedge weeds infected by *Heterodera cyperi* occur commonly in Florida soils.

Lantana sp. (lantana) - *Meloidogyne mayaguensis* Rammah and Hirschmann, 1988, **a root-knot nematode**, was extracted from roots of declining stands of this landscape ornamental (Orange County; N03-01575; Ping Qiao; 10 October 2003). This finding is a **NEW HOST** and **COUNTY RECORD**.

COLLECTORS SUBMITTING FIVE OR MORE SAMPLES THAT WERE PROCESSED FOR NEMATOLOGICAL ANALYSIS DURING JANUARY AND FEBRUARY 2004:

Anderson, James L.290	Podris, Flewellyn W. 13
Bailey, W. Wayne23	Qiao, Ping..... 112
Brown, Lance A.6	Robinson, William L. 105
Etchells, Karen L.....11	Salisbury, Thomas L. 219
Golden, Lawrence 6	Simmons, Stacey S. 22
Harris, Jessie6	Stone, Carrie S..... 48
Jarrett, Raymond C.....22	
LeBoutillier, Karen W.....225	
Looker, Sol F.27	
Ochoa, Ana L.173	
Pate, Jo Ann.27	

PLANT PATHOLOGY SECTION Compiled by Robert M. Leahy

For this period, the Plant Pathology Section received and processed 2,310 specimens. These included 615 pathology, 18 miscellaneous and 3 soil samples. Full pathogenicity tests for citrus canker were performed on 511 samples from Southeast Florida, four samples from Central Gulf Coast Florida and 18 samples from Central Florida.

ORNAMENTALS, WOODY PLANTS AND PALMS:

- Carissa* sp. (carissa) -- *Phytophthora palmivora*, **root rot**: Collected at a nursery in Goulds, Miami-Dade County (13 January 2004, Eduardo Camero, P2004-0169).
- Cycadophyta* (miscellaneous cycads) -- *Mycoleptodiscus indicus*, **leaf spot**: Collected at a nursery in Gainesville, Alachua County (12 February 2004, Ken Bailey, M2004-0013).
- Ficus aurea* (strangler fig) -- *Ophidothella fici*, **tar spot**: Collected at a dooryard in Miami, Miami-Dade County (12 January 2004, Frederick Hubbard, P2004-0116).
- Ficus* sp. (fig) -- *Ophidothella fici*, **tar spot**: Collected at a dooryard in Melbourne, Brevard County (25 February 2004, Mr. Brown, P2004-0621).
- Ficus vogelii* (fig) -- *Ophidothella fici*, **tar spot**: Collected at a dooryard in Ft. Myers, Lee County (10 February 2004, Mr. Barnes, P2004-0470). [A showy **tar spot** disease of several species of *Ficus* in Florida]
- Hydrangea macrophylla* (hydrangea) -- *Virus - unknown*, **virus**, Collected at a nursery in Lithia, Hillsborough County (12 January 2004, Leyanis Gonzalez, P2004-0156). [An unknown viral infection on this host; pathogenicity tests were inconclusive.]
- Ilex cornuta* (Chinese holly) -- *Sphaeropsis tumefaciens*, **stem gall**: Collected at a nursery in Leesburg, Lake County (16 January 2004, Steve P. Beidler, P2004-0191).
- Jatropha integerrima* (jatropha, peregrina) -- *Phakopsora jatrophiicola*, **stem and leaf rust**: Collected at a dooryard in Coral City, Miami-Dade County (14 January 2004, Misael E. Igarza, P2004-0212).
- Salvia farinacea* (mealy cup sage) -- *Puccinia farinacea*, **rust**: Collected at a nursery in Mt. Dora, Lake County (11 February 2004, Tom Phillips, P2004-0544).
- Myrcianthes fragrans* (Simpson's stopper) -- *Puccinia psidii*, **leaf rust**: Collected at a nursery in San Antonio, Pasco County (14 January 2004, Mr. Williams, P2004-0219).
- Syzygium* sp. (rose apple) -- *Puccinia psidii*, **leaf rust**: Collected at a dooryard in Vero Beach, Indian River County (23 January 2004, Kenneth L. Hibbard, P2004-0244).
- Syzygium jambos* (rose apple) -- *Puccinia psidii*, **leaf rust**: Collected at a dooryard in Ft. Myers, Lee County (17 February 2004, Mr. Barnes, P2004-0537).
- Viburnum odoratissimum* (sweet viburnum) -- *Plasmopara viburni*, **downy mildew**: Collected at a nursery in Orlando, Orange County (30 December 2003, George Warden, P2004-0030).
- Viburnum suspensum* (viburnum) -- *Plasmopara viburni*, **downy mildew**: Collected at a nursery in Oviedo, Seminole County (5 February 2004, Amanda D. Melco, P2004-0407). [A downy mildew specific to *Viburnum* and recently becoming more common]

ORNAMENTALS, FOLIAGE PLANTS:

- Arachniodes aristata* 'Variegata' (East Indian holly fern) -- *Corynespora cassiicola*, **leaf spot**: Collected at a nursery in Apopka, Orange County (8 January 2004, Leslie J. Wilber, P2004-0163).

- Epipremnum pinnatum* (pothos) -- *Phytophthora tropicalis*, **leaf blight**: Collected at a nursery in

Sorrento, Orange County (28 January 2004, Lance A. Brown, P2004-0376).

Galax sp. (galax) -- *Clypeolella leemingii*, **black mildew**: Collected at a nursery in Sanford, Seminole County (26 January 2004, Mr. Garcia and Terrence D. Williams, P2004-0304).

Galax urceolata (galax, beetle weed) -- *Clypeolella leemingii*, **black mildew**: Collected at a nursery in Barberville, Volusia County (3 February 2004, Stacey S. Simmons, P2004-0371). [This black mildew can be found with some frequency on these cut greens from North Carolina]

ORNAMENTALS, FLOWERING PLANTS:

Allamanda cathartica (allamanda) -- *Phytophthora* sp., **root rot**: Collected at a dooryard in Pinellas Park, Pinellas County (7 January 2004, Dave Mooney, P2004-0098). NEW HOST RECORD.

Bougainvillea sp. (bougainvillea) -- *Cercosporidium bougainvilleae*, **leaf spot**, & *Pseudomonas andropogonis*, **bacterial leaf spot**: Collected at a dooryard in Miami, Miami-Dade County (22 January 2004, Maria C. Acosta, P2004-0253).

Hippeastrum sp. (*amaryllis*) -- *Phytophthora nicotianae*, **root rot**: Collected at a nursery in Jacksonville, Duval County (3 February 2004, Flewellyn W. Podris, P2004-0400).

Pelargonium x hortorum (geranium) -- *Xanthomonas hortorum* pv. *pelargonii*, **bacterial leaf spot**: Collected at a dooryard in Cape Coral, Lee County (23 January 2004, Alan J. Gambill, P2004-0247).

Scutellaria sp. (skullcap) -- *Papaya Mosaic Potexvirus*, **virus**: Collected at a home and garden center in Gainesville, Alachua County (5 January 2004, Robert M. Leahy and Jodi L. Hansen, P2004-0013). [This viral pathogen has been tentatively placed in the vicinity of papaya mosaic potexvirus. Further studies planned as time permits.]

Glandularia canadensis ('Homestead Purple') -- *Clover Yellow Mosaic Potexvirus*, **virus**: Collected at a nursery in Hawthorne, Alachua County (6 January 2004, David A. Davison, Carlye A. Baker, and Christine A. Zamora, P2004-0047 through P2004-0052). [Clover yellow mosaic is a non-insect transmitted virus. Until 2003, it was only known to occur in states west of the Mississippi.]

FOREST AND SHADE TREES:

Cassia fistula (golden shower tree) -- *Phyllachora canafistulae*, **tar spot**: Collected at a dooryard in St. Petersburg, Pinellas County (22 January 2004, Gabriela Bernard, P2004-0256).

Pinus sylvestris (scotch pine) -- *Cronartium* sp., **rust**: Collected on Christmas trees shipped in from Michigan at a nursery in Jacksonville, Duval County (1 December 2003, Flewellyn W. Podris, P2004-0007).

NATIVE OR NATURALIZED:

Melaleuca quinquenervia (melaleuca) -- *Puccinia psidii*, **leaf rust**: Collected at a dooryard in Alva, Lee County (12 January 2004, Walter W. Golden, P2004-0134).

Melaleuca sp. (melaleuca) -- *Puccinia psidii*, **leaf rust**: Collected at a dooryard in Hollywood, Broward County (11 February 2004, Lynda Davis, P2004-0612). [More evidence of the upsurge of this rust on members of the *Myrtaceae*, see other reports under Ornamentals, Woody Plants and Palms.]

Myrica cerifera (wax myrtle) -- *Septoria myricae*, **leaf spot**: Collected at a nursery in Gainesville, Alachua County (24 January 2004, Christine A. Zamora, P2004-0367).

Swietenia mahagoni (West Indian mahogany) -- *Pseudocercospora subsessilis*, **leaf spot**:

Collected at a nursery in Sanibel, Lee County (9 February 2004, Alan J. Gambil, Walter W. Golden and Lorrie R. Rigby, P2004-0429).

WEEDS AND GRASSES:

Solanum viarum (tropical soda apple) -- *Oidium* sp., **powdery mildew**: Collected at a dooryard in Citra, Marion County (12 February 2004, Christine A. Zamora and Floyd J. McHenry, P2004-0462)

FOOD OR CROP PLANTS:

Glycine max (soybean) -- *Colletotrichum truncatum*, **leaf spot**: Collected at a nursery in Homestead, Miami-Dade County (9 January 2004, Eduardo M. Varona, P2004-0115).

Gossypium sp. (cotton) -- *Phakopsora* sp., **leaf rust**: Collected at a nursery in Sanibel, Lee County (9 February 2004, Lorrie R. Rigby, P2004-0432).