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DPI's Bureau of Entomology, Nematology and Plant Pathology (the botany section is included in this bureau) produces TRI-OLOGY six times a year, covering two months of activity in each issue. The report includes detection activities from nursery plant inspections, routine and emergency program surveys, and requests for identification of plants and pests from the public. Samples are also occasionally sent from other states or countries for identification or diagnosis.



Longidorus orientalis (a needle nematode) female from Arizona Photography courtesy of J. D. Stanley, DPI



Baldulus tripsaci, eastern gammagrass leafhopper Photograph courtesy of Susan E. Halbert, DPI



Kordyana tradescantiae, a fungal pathogen, causes these typical leaf spots on the foliage of Tradescantia ohiensis.

Photograph courtesy of M. L. Schubert



Tradescantia ohiensis (Ohio spiderwort: blueiacket) Photograph courtesy of Michael Drummond http://florida.plantatlas.usf.edu/photo. aspx?ID=2089



Highlights

Longidorus orientalis, 1982, a needle nematode, was found infecting the roots of date palm, Phoenix dactylifera. The presence of this infection led to interest in finding more information about this nematode on palms. A needle nematode survey was conducted in date palm orchards in California, on shipments from Arizona when they arrived in Florida and imported date palms that had been transplanted in Florida for no less than two years. Nematologists from the Florida Department of Agriculture and Consumer Services conducted a morphological and molecular study of these needle nematode populations, in cooperation with nematologists from other areas. The results of this survey indicate that these needle nematodes are able to survive in the humid Florida environment, but at low densities.

Baldulus tripsaci, eastern gammagrass leafhopper, a new Florida State record. This species is a vector of corn pathogens. Its host, Tripsacum dactyloides, is a relative of corn.

Kordyana tradescantiae, a leaf spot pathogen, was found on Ohio spiderwort (Tradescantia ohiensis). Kordyana first appeared in 2009 in North America, it reappeared meagerly in the next season, and then seemingly disappeared until 2014 when it showed up again in a few locations in North Florida. It has returned for the second consecutive year.

Tradescantia ohiensis Rafinesque (Ohio spiderwort; bluejacket) is perennial, herbaceous species is native from Ontario, Canada, southward through much of the eastern half of the United States, and in Florida, it is frequently found from northern counties through the central peninsula. This species hybridizes readily and many cultivars that are sold include this species in their parentage. Tradescantia ohiensis is often seen along roadsides, fields and railroad tracks and can be an attractive addition to home landscapes and woodland gardens.

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Photograph courtesy of Jeff Lotz, DPI

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We welcome your suggestions for improvement of TRIOLOGY. Please feel free to contact me or Dr. Patti Anderson, Managing Editor, with your comments.

Dr. Greg S. Hodges, Editor Assistant Director, DPI

🕅 R I - O L O G Y

Botany Section

Compiled by Patti J. Anderson, Ph.D.

This section identifies plants for the Division of Plant Industry, as well as for other governmental agencies and private individuals. The Botany Section maintains a reference herbarium with over 11,000 plants and nearly 1,400 vials of seeds.

A sample received for identification is discussed below:

Tradescantia ohiensis Rafinesque (Ohio spiderwort; bluejacket) from a genus of about 70 species native to temperate and tropical areas of the New World. Commelinaceae. This perennial, herbaceous species is native from Ontario, Canada, southward through much of the eastern half of the United States, and in Florida, it is frequently found in northern counties through the central peninsula. The erect or ascending stems grow from 15-115 cm tall and are usually glabrous. The sessile leaves are spirally arranged, with linear to linear-lanceolate blades that range from 5-45 cm in length. Inflorescences are always terminal, but can be both terminal and axillary. The inflorescence includes leaf-like bracts and umbel-like cymes. The flowers have glabrous pedicels 0.7-3 cm long and sepals that are 4-15 mm long and may be glabrous or have an apical tuft of eglandular hairs. The three deep blue to rose-colored petals are broadly ovate and 0.8-2 cm long. Occasionally, individuals with white petals are seen. The six stamens are all fertile and have distinctively bearded filaments. This species hybridizes readily and many cultivars that are sold include this species in their parentage. Tradescantia ohiensis is often seen along roadsides, fields and railroad tracks and can be an attractive addition to home landscapes and woodland gardens. (Manatee County; B2015-179; James E. (Eddie) Anderson; 12 March 2015 and Clay County; B2015-233; Sol F. Looker; 13 January 2015.) (Mabberley 2008; Wunderlin and Hansen 2011; http://efloras.org/florataxon.aspx?flora_id=1&taxon_id=133268 [accessed 2015] May 5]; http://www.missouribotanicalgarden.org/PlantFinder/PlantFinderDetails. aspx?kempercode=r820 [accessed 2015 May 6]).

References

- **Mabberley, D.J. 2008.** Mabberley's plant-book: a portable dictionary of plants, their classification and uses, 3rd edition. Cambridge University Press, New York, New York. 1,021 p.
- Wunderlin, R. P. and B. F. Hansen. 2011. Guide to the vascular plants of Florida, 3rd edition. University Press of Florida, Gainesville, Florida. 783 p.

The following table provides information about samples identified during the time period of the current issue. The table is organized alphabetically by plant species, but with new county records listed before all other entries.

Sample Submissions

	March April	Year to date
Samples submitted by other DPI sections	1,139	1,918
Samples submitted for botanical identification only	168	309
Total Sam- ples Submit- ted	1,307	2,227
Specimens added to the herbarium	41	138



Tradescantia ohiensis (Ohio spiderwort; bluejacket) Photograph courtesy of Michael Drummond http://florida.plantatlas.usf.edu/photo.aspx?ID=2089



Tradescantia ohiensis (Ohio spiderwort; bluejacket) white form Photograph courtesy of Bob Upcavage http://florida.plantatlas.usf.edu/photo.aspx?ID=2089

New County Record	Plant Species	Common Name	1st Collector	2nd Collector	County	Sample Number	Collection Date
*	Allium canadense	meadow garlic	Linda G. McRay		Pinellas	2015-286	21 Apr 2015
*	Ardisia crenata	coralberry	Sol F. Looker		Putnam	2015-241	3 Apr 2015
*	Canna flaccida	bandanna of the Everglades	Sol F. Looker		Clay	2015-271	15 Apr 2015
*	Cinnamomum camphora	camphortree	Sol F. Looker		Flagler	2015-253	8 Apr 2015
*	Echinochloa crus-galli	barnyardgrass	Jason B. Sharp		Manatee	2015-297	17 Apr 2015
*	Freesia laxa	false freesia	Lisa M. Hassell		Duval	2015-146	3 Mar 2015
*	Ligustrum sinense	Chinese privet	Sol F. Looker		Putnam	2015-299	24 Apr 2015
*	Lonicera japonica	Japanese honeysuckle	Sol F. Looker		Putnam	2015-260	10 Apr 2015
*	Malvaviscus penduliflorus	Turkscap mallow	Linda G. McRay		Pinellas	2015-155	10 Mar 2015
*	Nephrolepis cordifolia	sword fern	Sol F. Looker		Putnam	2015-259	13 Apr 2015
*	Prunus serotina	black cherry	Sol F. Looker		Putnam	2015-176	10 Mar 2015
*	Pueraria montana	kudzu	Sol F. Looker	Cheryl A. Jones	Putnam	2015-235	2 Apr 2015
*	Richardia grandiflora	largeflower Mexican clover	Linda G. McRay		Pinellas	2015-287	21 Apr 2015
*	Sapium sebiferum	Chinese tallow tree	Sol F. Looker		Flagler	2015-272	15 Apr 2015
*	Solanum carolinense	Carolina horsenettle	M. 'Janie' Echols		Union	2015-301	27 Apr 2015
*	Solanum viarum	tropical soda-apple	Sol F. Looker		Putnam	2015-206	20 Mar 2015
*	Tradescantia ohiensis	Ohio spiderwort	James E. (Eddie) Anderson		Manatee	2015-179	12 Mar 2015
*	Tradescantia ohiensis	Ohio spiderwort	Sol F. Looker		Clay	2015-233	1 Apr 2015
*	Utricularia resupinata	lavender bladderwort	Jason B. Sharp		Manatee	2015-195	19 Mar 2015
	Abutilon permolle	coastal Indian mallow	Ana L. Ochoa		Miami-Dade	2015-221	24 Mar 2015
	Acacia sp.		Anthony Gubler		Brevard	2015-242	3 Apr 2015
	Acacia sp.		Roberto Delcid		Miami-Dade	2015-214	21 Mar 2015
	Albizia lebbeck	woman's tongue tree	LeAnn M. West		Martin	2015-304	24 Apr 2015
	Alternanthera ficoidea	Joseph's-coat	Haylett Cruz- Escoto		Miami-Dade	2015-164	10 Mar 2015
	Amaranthus blitum	purple amaranth	Kaleigh Hire		Duval	2015-294	21 Apr 2015
	Ardisia crenata	coralberry	Sol F. Looker		Clay	2015-144	26 Feb 2015
	Ardisia sp.		Bryce J. Merritt		Orange	2015-307	27 Apr 2015
	Ardisia sp.		Roberto Delcid		Miami-Dade	2015-217	21 Mar 2015
	Asparagus setaceus	common asparagus fern	Jake M. Farnum		Monroe	2015-226	27 Mar 2015
	Asparagus setaceus	common asparagus fern	James A. Pernsteiner		Palm Beach	2015-183	9 Mar 2015
	Balduina angustifolia	coastalplain honeycombhead	Jason B. Sharp		Manatee	2015-198	19 Mar 2015

New County Record	Plant Species	Common Name	1st Collector	2nd Collector	County	Sample Number	Collection Date
	Bauhinia divaricata	butterfly orchid tree	Haylett Cruz- Escoto		Miami-Dade	2015-166	10 Mar 2015
	Beaumontia grandiflora	herald's trumpet	Richard T. Bloom	Scott D. Berryman	Highlands	2015-239	1 Apr 2015
	Bejaria racemosa	tar-flower	Anthony Gubler		Brevard	2015-289	17 Apr 2015
	Berlandiera subacaulis	Florida greeneyes	Theresa R. Estok	Cheryl A. Jones	Levy	2015-295	23 Apr 2015
	Blutaparon vermiculare	samphire	Bobbe A. Rose		Pinellas	2015-266	14 Apr 2015
	Borrichia frutescens	sea oxeye	Bobbe A. Rose		Pinellas	2015-267	14 Apr 2015
	Callisia repens	creeping inchplant	Haylett Cruz- Escoto		Miami-Dade	2015-163	10 Mar 2015
	Callisia repens	creeping inchplant	Lane M. Smith		Broward	2015-186	11 Mar 2015
	Carex longii	Long's sedge	Jason B. Sharp		Manatee	2015-197	19 Mar 2015
	Castilleja indivisa	entireleaf Indian paintbrush	Cheryl A. Jones		Alachua	2015-275	16 Apr 2015
	Chromolaena odorata	Jack-in-the-bush	Phellicia P. Perez		Miami-Dade	2015-159	8 Mar 2015
	Cichorium endivia	endive	Mary C. Sellers		Lake	2015-281	16 Apr 2015
	Cinnamomum burmannii	Malaysian cinnamon	Scott D. Krueger		Collier	2015-180	11 Mar 2015
	Cirsium sp.	thistle	W. Wayne Bailey		Suwannee	2015-170	9 Mar 2015
	Citharexylum caudatum	juniper berry	Olga Garcia		Miami-Dade	2015-222	26 Mar 2015
	Citrus sp.	citrus	Jake M. Farnum		Miami-Dade	2015-149	5 Mar 2015
	<i>Citrus</i> sp.	citrus	Jake M. Farnum		Miami-Dade	2015-204	20 Mar 2015
	<i>Citrus</i> sp.	possibly sweet orange	Kaleigh Hire		Duval	2015-200	12 Mar 2015
	Coccinia grandis	ivy gourd	Matt W. Brodie		Collier	2015-261	10 Apr 2015
	Coccoloba diversifolia	pigeon plum	Antonio I. Perez		Palm Beach	2015-203	17 Mar 2015
	Commelina benghalensis	tropical spiderwort	Theresa R. Estok		Alachua	2015-283	21 Apr 2015
	Commelina erecta	whitemouth dayflower	Theresa R. Estok	Cheryl A. Jones	Levy	2015-296	23 Apr 2015
	Cornus florida	flowering dogwood	William J. Salway		Pinellas	2015-265	14 Apr 2015
	Crotalaria pumila	low rattlebox	Jake M. Farnum		Miami-Dade	2015-191	17 Mar 2015
	Cupaniopsis anacardioides	carrotwood	Antonio I. Perez		Palm Beach	2015-274	8 Apr 2016
	Dicliptera sexangularis	sixangle foldwing	Roberto Delcid		Collier	2015-142	27 Feb 2015
	Dolichandra unguis-cati	catclaw vine	Edgardo Vargas		Orange	2015-153	3 Mar 2015
	Dyschoriste humistrata	swamp snakeherb	Cheryl A. Jones	Kelly Douglas	Alachua	2015-262	14 Apr 2015
	Elaeocarpus sylvestris	woodland Elaeocarpus	Steven Reams		Orange	2015-237	1 Apr 2015
	Epipremnum aureum	golden pothos	James C. Lee		Palm Beach	2015-223	27 Mar 2015
	Eragrostis ciliaris	gophertail lovegrass	Jason B. Sharp		Manatee	2015-150	5 Mar 2015
	Erigeron quercifolius	oakleaf fleabane	Karen R. Destefano	Diana E. Bozeman	Pasco	2015-277	16 Apr 2015

New County Record	Plant Species	Common Name	1st Collector	2nd Collector	County	Sample Number	Collection Date
	Erythrina herbacea	Cherokee bean	Dagne A. Vasquez		Brevard	2015-273	16 Apr 2015
	Eugenia Iuschnathiana	Pitomba	Olga Garcia		Miami-Dade	2015-188	17 Mar 2015
	Fraxinus caroliniana	pop ash	Cheryl A. Jones	Kelly Douglas	Gilchrist	2015-263	14 Apr 2015
	Fraxinus profunda	pumpkin ash	Stephen R. Jenner	Stacey S. Simmons	Citrus	2015-201	16 Mar 2015
	Fraxinus sp.	ash	Jason M. Spiller		Hillsborough	2015-303	27 Apr 2015
	Fraxinus sp.	ash	Stephen R. Jenner	Stacey S. Simmons	Citrus	2015-202	16 Mar 2015
	Fuirena pumila	dwarf umbrellasedge	Jason B. Sharp		Manatee	2015-196	19 Mar 2015
	Galactia regularis	downy milkpea	Jason B. Sharp		Manatee	2015-298	23 Apr 2015
	Galactia volubilis	downy milkpea	Lane M. Smith		Broward	2015-185	11 Mar 2015
	Galium sp.	bedstraw	Linda G. McRay		Pinellas	2015-156	10 Mar 2015
	Geranium carolinianum	Carolina cranesbill	Jake M. Farnum		Miami-Dade	2015-178	12 Mar 2015
	Gleditsia aquatica	water locust	Scott D. Berryman		Hardee	2015-181	9 Mar 2015
	Halleria lucida	tree fuchsia	Roberto Delcid		Miami-Dade	2015-216	21 Mar 2015
	Heterocentron floribundum	trailing princess flower	Roberto Delcid		Miami-Dade	2015-212	21 Mar 2015
	Hibiscus rosa- sinensis	hibiscus	Jake M. Farnum		Miami-Dade	2015-220	25 Mar 2015
	Holmskioldia sanguinea	Chinese-hat plant	Haylett Cruz- Escoto		Miami-Dade	2015-161	10 Mar 2015
	Hypericum hypericoides	St. Andrew's-cross	William J. Salway		Hillsborough	2015-245	7 Apr 2015
	<i>Ipomoea</i> sp.	morning glory	Lauren L. Dorval		Volusia	2015-182	11 Mar 2015
	Juncus sp.	rush	Lane M. Smith		Palm Beach	2015-256	10 Apr 2015
	Lasiacis divaricata	smallcane	Jake M. Farnum		Monroe	2015-225	27 Mar 2015
	Leucophyllum frutescens	Texas sage	Haylett Cruz- Escoto		Miami-Dade	2015-165	10 Mar 2015
	Ligustrum sinense	Chinese privet	Cheryl A. Jones	Michael Bentley	Leon	2015-276	16 Apr 2015
	Linaria canadensis	blue toadflax	Lane M. Smith		Palm Beach	2015-193	18 Mar 2015
	Lupinus diffusus	sky-blue lupine	Diana E. Bozeman		Pasco	2015-171	10 Mar 2015
	Lupinus texensis	Texas bluebonnet	Lisa M. Hassell		Duval	2015-251	8 Apr 2015
	Macroptilium lathyroides	wild bushbean	Scott D. Berryman	Keith Clanton	Hardee	2015-247	6 Apr 2015
	Malpighia coccigera	miniature holly	Haylett Cruz- Escoto		Miami-Dade	2015-162	10 Mar 2015
	Malvaviscus arboreus	Texas waxmallow	Haylett Cruz- Escoto		Miami-Dade	2015-160	10 Mar 2015
	Melaleuca decora	white feather honeymyrtle	Thomas S. Lastrapes		Pinellas	2015-175	11 Mar 2015
	Melilotus indicus	annual yellow sweetclover	Linda G. McRay		Pinellas	2015-231	31 Mar 2015
	Melothria pendula	creeping cucumber	Jeanie P. Frechette	Dagne A. Vasquez	Brevard	2015-292	22 Apr 2015

New County Record	Plant Species	Common Name	1st Collector	2nd Collector	County	Sample Number	Collection Date
	Michelia champaca	champaca	Gay Durrance		Polk	2015-143	25 Feb 2015
	Mikania micrantha	climbing hempweed	Jake M. Farnum		Miami-Dade	2015-305	27 Apr 2015
	Millettia pinnata	karum tree	Mark J. Aubry		Palm Beach	2015-172	11 Mar 2015
	Moringa oleifera	horseradish tree	James A. Pernsteiner		Palm Beach	2015-258	6 Apr 2015
	Nasturtium officinale	watercress	Linda G. McRay	Mark A. Spearman	Pinellas	2015-173	11 Mar 2015
	Nephrolepis biserrata	giant sword fern	Jake M. Farnum		Monroe	2015-187	13 Mar 2015
	Nephrolepis cordifolia	sword fern	Shelly M. Wayte		Marion	2015-290	20 Apr 2015
	Oplismenus sp.	basketgrass	Nermaret Canales		Orange	2015-238	30 Mar 2015
	Oxalis sp.	sorrel	Kaleigh Hire		Duval	2015-293	21 Apr 2015
	Pachira glabra	French peanut	Junior L. Williams		Palm Beach	2015-189	17 Mar 2015
	Packera glabella	butterweed	Lane M. Smith		Palm Beach	2015-154	5 Mar 2015
	Parietaria praetermissa	clustered pellitory	Jason M. Spiller		Hillsborough	2015-227	31 Mar 2015
	Parthenium hysterophorus	Santa Maria feverfew	Lane M. Smith		Palm Beach	2015-240	3 Apr 2015
	Pennisetum sp.	purple fountain grass	Haylett Cruz- Escoto		Miami-Dade	2015-167	10 Mar 2015
	Persea americana	avocado	Steven Reams		Orange	2015-224	26 Mar 2015
	Persea borbonia	redbay	Richard L. Blaney		Charlotte	2015-254	6 Apr 2015
	Persea palustris	swamp bay	Esteban Godinez		Miami-Dade	2015-157	10 Mar 2015
	Persea palustris	swamp bay	Esteban Godinez		Miami-Dade	2015-158	10 Mar 2015
	Physalis walteri	Walter's groundcherry	Lisa M. Hassell		Duval	2015-250	8 Apr 2015
	Piper magnificum	lacquered pepper	Roberto Delcid		Miami-Dade	2015-211	21 Mar 2015
	Pityopsis graminifolia	narrowleaf silkgrass	P. Karen Coffey		Volusia	2015-219	23 Mar 2015
	Polygala violacea	showy milkwort	William J. Salway		Hillsborough	2015-244	7 Apr 2015
	Polyscias fruticosa	ming aralia	Mary C. Sellers		Lake	2015-210	20 Mar 2015
	Pteridium aquilinum	western brackenfern	Kaleigh Hire		St. Johns	2015-308	27 Apr 2015
	Ptilimnium capillaceum	mock bishopsweed	Linda G. McRay		Pinellas	2015-230	31 Mar 2015
	Pyrus calleryana	callery pear	Cheryl A. Jones		Santa Rosa	2015-177	11 Mar 2015
	Quercus glauca	ring-cupped oak	M. 'Janie' Echols		Baker	2015-151	5 Mar 2015
	Radermachera hainanensis	golden tree jasmine	Roberto Delcid		Miami-Dade	2015-213	21 Mar 2015
	Rhaphiolepis umbellata	yedda hawthorn	Haylett Cruz- Escoto		Miami-Dade	2015-168	10 Mar 2015
	Rhododendron.	hybrid azalea	M. 'Janie' Echols		Baker	2015-218	20 Mar 2015
	Rhus copallinum	winged sumac	Kaleigh Hire		St. Johns	2015-309	27 Apr 2015

New County Record	Plant Species	Common Name	1st Collector	2nd Collector	County	Sample Number	Collection Date
	Rhynchospora caduca	anglestem beaksedge	Linda G. McRay		Pinellas	2015-288	21 Apr 2015
	Rhynchospora colorata	starrush whitetop	Karen R. Destefano	Diana E. Bozeman	Pasco	2015-278	16 Apr 2015
	Rorippa teres	southern marsh yellowcress	Lane M. Smith		Palm Beach	2015-192	18 Mar 2015
	Rubus cuneifolius	sand blackberry	Cheryl A. Jones		Marion	2015-236	3 Apr 2015
	Rudbeckia hirta	black-eyed Susan	Karen R. Destefano	Diana E. Bozeman	Pasco	2015-279	16 Apr 2015
	Rumex verticillatus	swamp dock	Linda G. McRay		Pinellas	2015-229	31 Mar 2015
	Sabatia stellaris	rose of Plymouth	Jake M. Farnum		Miami-Dade	2015-306	27 Apr 2015
	Salix sp.	willow	Maria C. Acosta		Miami-Dade	2015-300	16 Apr 2015
	Salvia misella	southern river sage	Mark A. Spearman		Pinellas	2015-190	17 Mar 2015
	Saururus cernuus	lizard's tail	Sol F. Looker		Flagler	2015-246	3 Apr 2015
	Schefflera actinophylla	schefflera	Jeanie P. Frechette	Dagne A. Vasquez	Brevard	2015-291	22 Apr 2015
	Schefflera elegantissima	false aralia	Mary C. Sellers		Lake	2015-207	20 Mar 2015
	Schefflera elegantissima	false aralia	Mary C. Sellers		Lake	2015-208	20 Mar 2015
	Schefflera elegantissima	false aralia	Mary C. Sellers		Lake	2015-209	20 Mar 2015
	Senna latifolia		George D. Warden		Orange	2015-152	3 Mar 2015
	Senna obtusifolia	sicklepod	Jessica V. Tromer		Pinellas	2015-285	21 Apr 2015
	Sesbania sp.	riverhemp	Kaleigh Hire		St. Johns	2015-248	7 Apr 2015
	Solanum carolinense	Carolina horsenettle	M. 'Janie' Echols		Union	2015-302	27 Apr 2015
	Solanum viarum	tropical soda-apple	Theresa R. Estok		Alachua	2015-252	9 Apr 2015
	Solidago sempervirens	salt-marsh goldenrod	Bobbe A. Rose		Pinellas	2015-145	3 Mar 2015
	Solidago sp.	Canada goldenrod	Lisa M. Hassell		Duval	2015-264	14 Apr 2015
	Sphagneticola trilobata	creeping oxeye	Bobbe A. Rose		Pinellas	2015-268	14 Apr 2015
	Spiranthes vernalis	spring ladiestresses	Stephen R. Jenner		Hernando	2015-284	21 Apr 2015
	Tephrosia rugelii	Rugel's hoarypea	Jason B. Sharp		Manatee	2015-234	30 Mar 2015
	Thunbergia fragrans	whitelady	Bobbe A. Rose		Pinellas	2015-269	14 Apr 2015
	Tithonia diversifolia	Mexican sunflower	Gay Durrance		Polk	2015-270	14 Apr 2015
	Tradescantia ohiensis	Ohio spiderwort	Kaleigh Hire		Duval	2015-199	17 Mar 2015
	<i>Typha</i> sp.	cattail	Kaleigh Hire		St. Johns	2015-249	7 Apr 2015
	Urtica chamaedryoides	heartleaf nettle	Mary C. Sellers		Lake	2015-184	11 Mar 2015
	Urtica chamaedryoides	heartleaf nettle	Sharon Garrett	Jaimie Canto	Polk	2015-147	4 Mar 2015
	Vaccinium darrowii	Darrow's blueberry	Richard T. Bloom	Scott D. Berryman		2015-280	15 Apr 2015
	Vaccinium stamineum	deerberry	Terrence D. Wiliams		Osceola	2015-232	31 Mar 2015

New County Record	Plant Species	Common Name	1st Collector	2nd Collector	County	Sample Number	Collection Date
	Viburnum odoratissimum	sweet arrowwood	Haylett Cruz- Escoto		Miami-Dade	2015-169	10 Mar 2015
	Vicia acutifolia	fourleaf vetch	Lane M. Smith		Palm Beach	2015-194	18 Mar 2015
	Vicia acutifolia	fourleaf vetch	William R. Stokes		Hillsborough	2015-174	9 Mar 2015
	Vitis shuttleworthii	calloose grape	Scott D. Berryman	Keith Clanton	De Soto	2015-257	9 Apr 2015
	Youngia japonica	oriental false hawksbeard	Jake M. Farnum		Miami-Dade	2015-205	19 Mar 2015
	Zephyranthes simpsonii	redmargin zephyrlily	Linda G. McRay		Pinellas	2015-228	31 Mar 2015
	Ziziphus mauritiana	Indian jujube	Michael L. Cartrett		Palm Beach	2015-148	25 Feb 2015

Sample/Specimen Submissions

March	
Samples Submitted	639
Specimens Identified	12,144
April	
Samples Submitted	612
Specimens Identified	12,729
Year to Date	
Samples Submtted	2,121
Specimens Identified	39,545

Entomology Section

Compiled by Susan E. Halbert, Ph.D.

This section provides the division's plant protection specialists and other customers with accurate identifications of arthropods. The entomology section also builds and maintains the arthropod reference and research collection (the Florida State Collection of Arthropods with over 9 million specimens), and investigates the biology, biological control and taxonomy of arthropods.

Baldulus tripsaci, eastern gammagrass leafhopper, a new Florida

State record. This species is a vector of corn pathogens (Granados and Whitcomb 1971). Its host, *Tripsacum dactyloides* is a relative of corn. (Miami-Dade County; E2015-1330; Olga Garcia; 23 March 2015.) (Dr. K. G. Andrew Hamilton, Agriculture and Agri-Food Canada and Dr. Susan E. Halbert.)

Contarinia citrina, linden twig gall gnat, a new Florida State record.

American linden (*Tilia americana*) is a primarily northeastern tree whose range extends southward to Texas and Florida. The linden twig gall gnat (*Contarinia citrina*) can be recognized by its unique gall shape on American linden. This midge apparently occurs throughout the range of its host, including Florida, but had not been recorded previously by DPI. This is likely because American linden is not an agricultural commodity and is not common in Florida. Additionally, the adult flies themselves are small and inconspicuous. (Citrus County; E2015-1262; Brian D. Sanders, Stacey S. Simmons and Stephen R. Jenner; 16 March 2015.) (Dr. Kevin A. Williams.)

REFERENCES

Granados, R.R. and R.F.Whitcomb. 1971. Transmission of corn stunt mycoplasma by the leafhopper *Baldulus tripsaci*. Phytopathology 61: 240-241.

Entomology Specimen Report

Following are tables with entries for records of new hosts or new geographical areas for samples identified in the current volume's time period as well as samples of special interest. An abbreviated table, with all the new records, but less detail about them, is presented in the body of this web page and another version with more complete data is downloadable as a PDF or an Excel spreadsheet.

The tables are organized alphabetically by plant host if the specimen has a plant host. Some arthropod specimens are not collected on plants and are not necessarily plant pests. In the table below, those entries that have no plant information included are organized by arthropod name.



Baldulus tripsaci, eastern gammagrass leafhopper Photograph courtesy of Susan E. Halbert, DPI



Abandoned galls of *Contarinia citrina* on *Tilia americana* stem Photograph courtesy of Kevin A. Williams, DP

Plant Name	Plant Common Name	Arthropod	Arthropod Common Name	County	Records
Cichorium endivia	endive, escarole, frisee	Nothodelphax consimilis	a delphacid planthopper	Escambia	INTERDICTION INTERCEPTION
Citrus sinensis	sweet orange, navel orange	Megacopta cribraria	bean plataspid	Lake	COUNTY
Citrus sp.		Hibana velox	yellow ghost spider	St. Johns	COUNTY
Citrus x paradisi	grapefruit	Caccoleptus kacka	a dermestid beetle	Lee	COUNTY
Citrus x paradisi	grapefruit	Suillia quinquepunctata	a heliomyzid fly	Polk	COUNTY
Coccoloba uvifera	seagrape	Chrysomya megacephala	a blow fly	Miami-Dade	COUNTY
Cupressus sp.	cypress	Leptoglossus occidentalis	western conifer seed bug	Escambia	INTERDICTION INTERCEPTION
Cupressus sp.	cypress	Rhipidothrips brunneus	a thrips	Escambia	NOTABLE FIND
Dracaena braunii	lucky bamboo, Belgian evergreen, ribbonplant	Lepidosaphes chinensis	an armored scale	Orange	INTERDICTION INTERCEPTION
Dracaena braunii	lucky bamboo, Belgian evergreen, ribbonplant	Lepidosaphes sp.	an armored scale	Miami-Dade	REGULATORY INCIDENT
Eriobotrya japonica	loquat, Japanese plum	Choropleca terpsichorella	dancing moth	Polk	COUNTY
Eriobotrya japonica	loquat, Japanese plum	Polistes annularis	paper wasp	Polk	COUNTY
Fragaria x ananassa	garden strawberry	Chaetosiphon fragaefolii	strawberry aphid	Suwannee	INTERDICTION INTERCEPTION
Fragaria x ananassa	garden strawberry	Chaetosiphon fragaefolii	strawberry aphid	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Atomoscelis onustus	an atriplex bug	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Autographa californica	alfalfa looper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	<i>Bactericera</i> sp.	a psyllid	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Pinellas	REGULATORY INCIDENT
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia californica	a leafhopper	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia longula	a leafhopper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia longula	a leafhopper	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Ceratagallia sp.	a leafhopper	Pinellas	REGULATORY INCIDENT
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Deltocephalus fuscinervosus	a leafhopper	Suwannee	INTERDICTION INTERCEPTION

Plant Name	Plant Common Name	Arthropod	Arthropod Common Name	County	Records
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Deltocephalus fuscinervosus	a leafhopper	Pinellas	REGULATORY INCIDENT
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Deltocephalus fuscinervosus	a leafhopper	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Liriomyza langei	California pea leafminer	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Liriomyza langei	California pea leafminer	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Lygus elisus	pale legume bug	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Lygus elisus	pale legume bug	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Lygus elisus	pale legume bug	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	<i>Lygus</i> sp.	a lygus bug	Escambia	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Metopolophium dirhodum	rose grass aphid	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Nothodelphax consimilis	a delphacid planthopper	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Phytoliriomyza	a leaf miner fly	Suwannee	INTERDICTION INTERCEPTION
Lactuca sativa	lettuce, romaine lettuce, leaf lettuce	Tuberculatus quercifolii	an oak aphid	Suwannee	INTERDICTION INTERCEPTION
Palmae	palm	Phoenicococcus marlatti	red date scale	Escambia	INTERDICTION INTERCEPTION
Pelargonium tomentosum	herb-scent geranium, peppermint geranium, pennyroyal pelargonium	Acyrthosiphon malvae	an aphid	Miami-Dade	REGULATORY INCIDENT
Pelargonium tomentosum	herb-scent geranium, peppermint geranium, pennyroyal pelargonium	<i>Bryobia</i> sp.	a spider mite	Miami-Dade	REGULATORY INCIDENT
Persea americana	avocado; alligator pear; aguacate	Abgrallaspis aguacatae	an avocado armored scale	Escambia	INTERDICTION INTERCEPTION
Persea americana	avocado; alligator pear; aguacate	Abgrallaspis aguacatae	an avocado armored scale	Escambia	INTERDICTION INTERCEPTION
Persea americana	avocado; alligator pear; aguacate	Abgrallaspis aguacatae	an avocado armored scale	Suwannee	INTERDICTION INTERCEPTION
Persea americana	avocado; alligator pear; aguacate	Clavaspis persea	an avocado armored scale	Escambia	INTERDICTION INTERCEPTION
Persea americana	avocado; alligator pear; aguacate	Toxotrypana curvicauda	papaya fruit fly	Hendry	COUNTY
Petroselinum crispum	parsley	Cavariella aegopodii	carrot aphid	Escambia	INTERDICTION INTERCEPTION
Phoenix dactylifera	date palm	Phoenicococcus marlatti	red date scale	Suwannee	INTERDICTION INTERCEPTION
Phoenix dactylifera	date palm	Phoenicococcus marlatti	red date scale	Suwannee	INTERDICTION INTERCEPTION
Phoenix dactylifera	date palm	Phoenicococcus marlatti	red date scale	Suwannee	INTERDICTION INTERCEPTION
Phoenix dactylifera	date palm	Phoenicococcus marlatti	red date scale	Suwannee	INTERDICTION INTERCEPTION
Pittosporum tobira	pittosporum, Japanese pittosporum, Japanese cheesewood	Cacopsylla tobirae	pittosporum psyllid	Escambia	INTERDICTION INTERCEPTION
<i>Polygala</i> sp.		Lehmannia valentiana	three-banded garden slug	Seminole	REGULATORY INCIDENT

Plant Name	Plant Common Name	Arthropod	Arthropod Common Name	County	Records
Protea cynaroides	king protea	Delottococcus confusus	a mealybug	Miami-Dade	REGULATORY INCIDENT
Protea cynaroides	king protea	Ochetellus glaber	an ant	Miami-Dade	REGULATORY INCIDENT
Proteaceae		Badumna longiqua	a cribellate sheetweaver	Broward	NOTABLE FIND
Proteaceae		Forficula auricularia	European earwig	Broward	REGULATORY INCIDENT
Psychotria nervosa	wild-coffee, Seminole balsamo	Tenuipalpus dasples	false spider mite	Palm Beach	HOST
Quercus alba	white oak	Xyleborus glabratus	redbay ambrosia beetle	Escambia	COUNTY
Quercus chapmanii	Chapman's oak	Neuroterus quercusirregularis	gall wasp	Marion	COUNTY
Quercus sp.	oak	Hemiptera: Anthocoridae	a minute pirate bug	Miami-Dade	COUNTY
Quercus sp.	oak	Hentzia mitrata	a jumping spider	Lee	COUNTY
Sedum sp.		Lehmannia valentiana	three-banded garden slug	Alachua	REGULATORY INCIDENT
Tilia americana	American basswood, American linden	Contarinia citrina	linden twig gall gnat	Citrus	STATE
Tripsacum dactyloides	eastern gamagrass, Fakahatchee grass	Baldulus tripsaci	eastern gammagrass leafhopper	Miami-Dade	STATE
Tripsacum dactyloides	eastern gamagrass, Fakahatchee grass	Delphacodes sp.	a delphacid planthopper	Miami-Dade	HOST
Tripsacum dactyloides	eastern gamagrass, Fakahatchee grass	Reventazonia lawsoni	a leafhopper	Miami-Dade	COUNTY
Undetermined, but suspect fennel		Cavariella aegopodii	carrot aphid	Escambia	INTERDICTION INTERCEPTION
		Acizzia sp.	a psyllid	Collier	COUNTY
		Agrilus fallax	a buprestid beetle	Hillsborough	COUNTY
		Amorbia concavana	a leafroller moth	Palm Beach	COUNTY
		Bassaniana floridana	a crab spider	Lake	COUNTY
		Cithaeron praedonius	swift ground spider	Orange	COUNTY
		<i>Eustigmaeus</i> sp.	a stigmaeid mite	Alachua	HOST
		Hylocurus rudis	a scolytid beetle	Alachua	COUNTY
		Loxosceles rufescens	Mediterranean recluse spider	Orange	NOTABLE FIND
		Loxosceles rufescens	Mediterranean recluse spider	Orange	NOTABLE FIND
		Loxosceles rufescens	Mediterranean recluse spider	Orange	NOTABLE FIND
		Otala lactea	milk snail	Pinellas	NOTABLE FIND
		Pomacea maculata	island apple snail	Flagler	COUNTY
		Xyleborus intrusus	a scolytid beetle	Lee	COUNTY

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Nematology Section

Compiled by <u>Jason D. Stanley, M.S., Renato N. Inserra, Ph.D., Leroy A. Whilby,</u> <u>Larry L. Violett</u> and <u>Janete A. Brito, Ph.D.</u>

This section analyzes soil and plant samples for nematodes, conducts pest detection surveys and provides diagnoses of plant problems, in addition to completing identification of plant parasitic nematodes involved in regulatory and certification programs. State of Florida statutes and rules mandate the predominant regulatory activities of the section. Analyses of plant and soil samples include those from in-state programs, plant shipments originating in Florida destined for other states and countries, as well as samples intercepted in Florida from outside the United States.

Nematodes of Special Interest

Longidorus orientalis, **1982**, a needle nematode, was found infecting the roots of date palm, *Phoenix dactylifera*. (Orange County; N13-01355; Larry L. Violett; 5 December 2013.)

Since 1989, needle nematode populations, Longidorus sp. with either elongated or hemispherical tails have been found in samples collected in the root balls of date palms imported from California into Florida. Specimens with an elongateconoid tail were identified as L. africanus, a species occurring on vegetables in California. The specimens with a hemispherical tail were tentatively identified as Longidorus belloi, L. belondiroides and L. orientalis; however, these identifications were not validated by molecular and supplemental morphological analyses. In recent years, there has been an increase in the detection of needle nematodes on date palm shipments at Florida inspection stations. The documentation accompanying these date palm shipments indicates that the origin of these nematodes are Yuma County in Arizona and Imperial and Riverside counties in California. Since there are no reports of needle nematodes on date palms in Arizona and California, a needle nematode survey was conducted in date palm orchards in California. It was not possible to collect samples directly in date palm orchards in Arizona, therefore, shipments from Arizona were sampled when they arrived in Florida. The survey was extended to imported date palms that had been transplanted in Florida for no less than two years.

Nematologists from the Florida Department of Agriculture and Consumer Services conducted a morphological and molecular study of these needle nematode populations from Arizona, California and Florida, in cooperation with other nematologists from California, Greece, Iran and Spain. The results of this study have confirmed the association in the sampled needle nematode populations of specimens with both elongated-conoid and hemispherical tails. The needle nematode populations with elongate-conoid tails were morphologically and molecularly identified as L. africanus validating previous identifications made in Florida. The examination of populations with hemispherical tails indicated that they have morphological and molecular characteristics that match those of L. orientalis, rather than those of L. belloi and L. belondiroides. They differed from L. belloi by the shorter body length (3840-4554 (AZ) and 3580-4840 (CA) vs 5000-8600 µm) and symmetrically bilobed vs asymetrically bilobed amphidial fovea and from L. belondiroides by a bilobed vs pouch-like, non-bilobed amphidial fovea. These findings confirm an unverified previous report of L. orientalis made by Esser in 1995 based on a date palm shipment from California. This new record validates the occurrence of L. orientalis in the United States and the Americas.

Sample Submissions

	March April	Year to date
Morphological Identifications	2,278	3,557
Molecular Identifications	166	407
Total Samples Submitted	2,444	3,964

Certification and Regulatory Samples

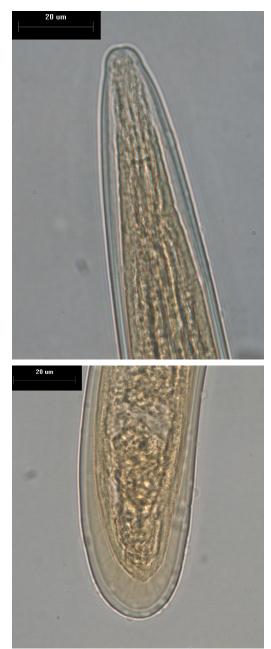
	March April	Year to date
Multistate Certification for National and International Export	1,761	2,699
California Certification	235	483
Pre- movement (Citrus Nursery Certification)	24	62
Site or Pit Approval (Citrus Nursery and Other Certifications)	99	101

Other Samples

	March April	Year to date
Identifications (invertebrate)	3	10
Plant Problems	17	22
Intrastate Survey, Random	139	183
Molecular Identifica- tions*	166	407

* The majority of these analyses involved root-knot nematode species.

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Longidorus orientalis (a needle nematode) female from Arizona Top: Anterior region. Bottom: Posterior region. Note the hemispherical tail terminus. (Body width at guiding ring = 20,5 m μ . Body width at anus = 33 m μ). Photography courtesy of J. D. Stanley, DPI Longidorus orientalis is a species native to the arid environment of Middle East where it has been reported on date palms in Iran, Iraq and Saudi Arabia. It occurs also on grapevines in Greece (Crete) and Spain. Needle nematode samples from California indicated that both L. africanus and L. orientalis occurred in 30% of date palm orchards. Longidorus orientalis densities ranged 1-30 specimens/100 cm³ of soil. Seventy-eight date palm shipments from Arizona were sampled at Florida inspection stations. Longidorus orientalis and L. africanus were detected in 43% and 5% of these samples, respectively. Longidorus orientalis densities were low, 1-3/100 cm³ of soil. The majority of 258 samples collected from Arizona and California date palm trees established in Florida were free of Longidorus species. Longidorus orientalis and L. africanus were detected in 5.8% and 1.2% of the samples, respectively. Soil densities were less than 1 specimen/ 100 cm³ of soil. The results of this survey indicate that these needle nematodes are able to survive in the humid Florida environment, but at low densities. Studies are in progress to determine the ability of this population of root-knot nematode to reproduce on pecan, and also to determine the phylogenetic relations between *M. partityla* individuals infecting oaks with those reported on pecan.

Collectors submitting five or more samples that were processed for nematological analysis during March - April

Anderson, James E.	7	Ochoa, Ana L.	119
Bailey, W. Wayne	11	Said Gonzalez, Roaida C.	9
Burgos, Frank A.	187	Sharp, Jason B.	8
Clanton, Keith B.	125	Smith, Larry W.	11
Echols, M. Janie	7	Spriggs, Charles L.	139
Flores, Mary Ann	8	Terrell, Mark R.	51
LeBoutillier, Karen W.	243	Violett, Larry L.	130
Llanos, Jose L.	5	Wallace, Howard L.	30
Merced, Daniel	9		

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Subbotin, S. A., J. D. Stanley, A. T. Ploeg, Z. Thana-Maafi, E. A.
Tzortzakakis, J. J. Chitambar, J. E. Palomares-Rius, P. Castillo and R.
N. Inserra. 2015. Characterisation of populations of *Longidorus orientalis* Loof, 1982 (Nematoda: Dorylaimida) from date palm (*Phoenix dactylifera* L.)
in the USA and other countries and incongruence of phylogenies inferred
from ITS1 rRNA and *coxl* genes. Nematology 17: 459–477.

Plant Pathology Section

Compiled by Timothy S. Schubert, Ph.D.

The Plant Pathology section provides plant disease diagnostic services for department. The agency-wide goal of protecting the flora of Florida very often begins with accurate diagnoses of plant problems. Management recommendations are offered where appropriate and available. Our plant pathologists are dedicated to keeping informed about endemic plant diseases along with those diseases and disorders active outside Florida in order to be prepared for potential introductions of new pathogens to our area.

Several items during this two-month period deserve special mention:

Kordyana tradescantiae on Ohio spiderwort. The prominent leaf spots caused by this pathogen in the Exobasidiales are hard to overlook. When *Kordyana* first appeared in 2009 in North America, it reappeared meagerly in the next season, and then seemingly disappeared until 2014 when it showed up again in a few locations in North Florida. Whereas at one time establishment of this new pathogen may have been questionable, present circumstances indicate otherwise. (Putnam County; P-83890; Sol F. Looker and Cheryl A. Jones; 10 April 2015).

New Eucalyptus foliar pathogen discovered in North America. The red gum eucalyptus (*Eucalyptus camaldulensis*) is one of the more widely planted Australian-native eucalypts, prized for aesthetic, timber and land remediation values. Several mature specimens at the St. Johns Agricultural Center in St. Augustine have survived occasional light freezes and are growing well. This spring for the first time, a foliar pathogen recently described from South Africa was found infecting foliage of the trees at the Agricultural Center. Since the fungus is relatively new to science and its geographical range largely undetermined, it is too early to know how the pathogen got to North America. The source of the original trees planted years ago in St. Augustine has not been determined. (St. John's County; P-83703; Robert M. Leahy, USDA and Bradley A. Danner; 12 March 2015.)

Revised phenology of the foliar disease caused by *Hinomyces moricola.* In the September-October 2014 edition of Tri-ology, a mention was made about the predictable appearance of the zonate leaf spot pathogen *Hinomyces moricola* (sexual stage *Grovesinia pyrimidalis*) in the wet, hot weather of late summer. Surprisingly, a spring appearance of the disease was recorded on *Vitis rotundifolia* growing wild in a natural area in Alachua County, although the spring weather in North Florida has not been noticeably different from others in recent memory. We should no longer associate the arrival of late summer with the appearance of this disease. (Alachua County; P-84258; Timothy S. Schubert; 23 April 2015.)

Sample Submissions

	March April	Year to date		
Citrus black spot	20	41		
Citrus canker	31	117		
Citrus greening / HLB	98	228		
Honeybees	0	1		
Interdictions	1	2		
Laurel wilt	10	13		
Pathology, general	646	1,119		
Soil	2	11		
Sudden oak death	1	3		
Sweet orange scab-like disease	0	0		
Texas Phoenix palm decline	1	3		
Water	0	0		
Miscellaneous	3	5		
Total	813	1,543		

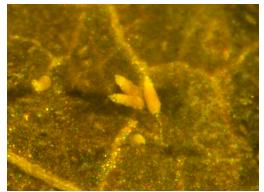


Kordyana tradescantiae, a fungal pathogen, causes these typical **leaf spots on the foliage of** *Tradescantia ohiensis.* Photograph courtesy of M. L. Schubert

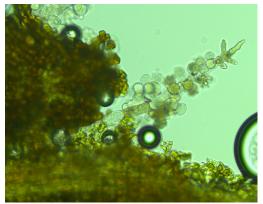


Hinomyces moricola causing zonate leaf spot on muscadine grape foliage

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Hinomyces moricola pyramidal conidiophores, visible with hand lens, ${\approx}40x$



Hinomyces moricola conidiophores, 400x Photographs by T. S. Schubert, DPI

Boxwood blight arrives in Florida. *Cylindrocladium psuedonaviculatum*, the pathogen that causes boxwood blight, apparently has been plaguing the United Kingdom since the mid 20th century. When the disease showed up in New Zealand in 2002, the pathogen was formally named and described for the first time. In the fall of 2011, the disease appeared in Connecticut, constituting the first known record in the Western Hemisphere. Since that time has been spreading gradually through the United States to include Ohio, Oregon, Maryland, North Carolina, New York, Rhode Island, Pennsylvania and Virginia, plus the three Canadian provinces of British Columbia, Ontario and Quebec. In the last few days of this reporting period, samples with convincing symptoms of boxwood blight came into the clinic from Gadsden County, Florida, and we fully expect to add Florida to the list of states where the disease restricted to recently acquired plants from an infested state, but only time will tell. (Gadsden County; P-84135; Michael A. Bentley; 29 April 2015.)

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Summerell, B.A., J.Z.Groenwald, A.Carnegie, R.C.Summerbell and P.W.Crous. 2006. Eucalyptus microfungi known from culture. 2. *Alysidiella, Fusculina,* and *Phlogicylindrium* genera nova, with notes on some other poorly known taxa. Fungal Diversity 23: 323-350.

Plant Species	Plant Common Name	Casual Agent	Disease Name	Location Type	Speci- men Number	County	Collector	Date	New Records	Comments
Ardisia crenata	coralberry, coral ardisia	Sphaerobolus stellatus	glebal masses	Residence	83914	Osceola	Terrence D. Williams, USDA	3/31/2015	Host	Reproductive structures from this saprophytic fungus are splashed onto foliage of plants. The structures resemble small scale insects and can result in erroneus phytosanitary rejection.
Buxus sempervirens	boxwood	Cylindrocladium pseudonaviculatum	boxwood blight	Nursery	84135	Gadsden	Michael A. Bentley	4/29/2015	State	This disease has been active in states north of Florida for several years. More on this new state record in future reports.
Commelina communis	Asiatic dayflower	Potyvirus Commelina mosaic potyvirus	Commelina mosaic	Weed in nursery	83815	Citrus	Training class # 86	3/25/2015		This virus is restricted to the Commelinaceae and is transmitted by aphids.
Eucalyptus camaldulensis	Red gum	Alysidiella parasitica	leaf spot	Agricultural Center	83703	St. John's	Robert M. Leahy, USDA; Bradley A. Danner	3/12/2015	Continent	This leaf spot pathogen has not been reported previously in the Western Hemisphere. The host is native to Australia; the pathogen was recently descibed from diseased trees in South Africa.
Hylocereus sp.	night- blooming cereus, dragon fruit	Phomopsis sp.	fruit spots	Farm	83628	Polk	Suzi C. Distelberg	3/19/2015	Host	This unusual sub-tropical to tropical fruit does not have a large disease record in Florida. Though <i>Phomopsis</i> fruit spots are newly reported in Florida, they are not unexpected.
Leucophyllum frutescens	cenizo, Texas-sage	Nectriella pironii	stem gall	Nursery	83834	Hernando	Training class # 86	3/24/2015		The anamorph stage of the pathogen (<i>Kutilakesa</i> <i>pironii</i>) was sporulating heavily on the galls. This host is especially susceptible to this fungal gall pathogen.
Nerium oleander	oleander	Xylella fastidiosa	oleander leaf scorch	Nursery	83731	Miami- Dade	Jake M. Farnum	3/18/2015		A particular strain of X. <i>fastidiosais</i> responsible for oleander leaf scorch.

Plant Species	Plant Common Name	Casual Agent	Disease Name	Location Type	Speci- men Number	County	Collector	Date	New Records	Comments
Rosmarinus officianalis	rosemary	Nectriella pironii	stem gall	Nursery	83860	Miami- Dade	Haylett Cruz- Escoto	4/1/2015		Another case of <i>Nectriella</i> stem gall in the <i>Kutilakesa</i> stage. Spring appears to be an optimal time to encounter sporulation in the galls.
Sapium sebiferum	Chinese tallow tree, popcorn tree	Thielaviopsis basicola	root rot	Experimental planting in pots	83988	Alachua	Susan A. Wright, USDA	4/7/2015	Host	Root rot on this hardy invasive plant grown in containers for biocontrol research was due to pathogen- contaminated commercial soil mix. A soil bait of unopened bags of product confirmed the contamination, probably from poor quality peat or compost in the mix.
Tradescantia ohiensis	Ohio spiderwort	Kordyana tradescantiae	leaf spot	Wildflower in yard	83890	Putnam	Sol F. Looker, Cheryl A. Jones	4/10/2105		This marks two years running that this pathogen has appeared plentifully on spiderwort in the North Florida area. After appearing for the first time in North America in 2009, detection had been spotty with several years of absence.
Vitis rotundifolia	muscadine grape	Hinomyces moricola	zonate leaf spot	Natural area	84258	Alachua	Timothy S. Schubert	4/23/2015		Normally appearing in late summer, this pathogen made a surprise appearance in spring.