

## Plant Diseases in Lee, Collier, Charlotte and Sarasota Counties July – September, 2010

Below is a list of confirmed plant diseases and disorders diagnosed on Lee, Collier, Charlotte and Sarasota Counties samples by the University of Florida Plant Disease Clinic in Gainesville, Florida. The analyses are primarily of ornamental plants. Disease diagnosis is a useful tool in determining why a plant has declined and what pesticide or management method to use in its recovery. In some cases, some plants had more than one disease confirmed. In other cases, no pathogens were found on samples sent to the clinic. The decline of these plants was attributed to abiotic (non-living) factors. These factors also known as stress, include too little or too much water, constricted roots, compacted soils, over-pruning, excess fertilization, and more.

Common Name	Botanical Name	Pathogen Confirmed	No Pathogen Found	County
Arugula	<i>Eruca sativa</i>		No pathogen found	Lee
Bald Cypress (ornamental)	<i>Taxodium distichum</i>	Alternaria leaf blight <i>Alternaria sp.</i> Anthracnose <i>Colletotrichum sp.</i> Pestalotia dieback <i>Pestalotia sp.</i>		Lee
Bald Cypress (natural area)	<i>Taxodium distichum</i>		Abiotic disorder Insect damage <a href="#">2 samples submitted</a>	Lee
Chinese Jupiter	<i>Juniperus chinensis</i>	Needle blight Various fungi		Lee
Crape Myrtle	<i>Lagerstroemia indica</i>	Alternaria leaf spot <i>Alternaria sp.</i> Dieback, canker, twig blight <i>Botryosphaeria sp.</i> Phomopsis tip blight <i>Phomopsis sp.</i>		Lee
Dwarf Schefflera	<i>Schefflera arboricola</i>	Anthracnose; Colletotrichum leaf spot <i>Colletotrichum sp.</i>		Lee
Fig (ornamental)	<i>Ficus sp.</i>	Dieback, canker, twig blight <i>Botryosphaeria sp.</i> <a href="#">2 samples submitted</a>		Lee
Fig (ornamental)	<i>Ficus sp.</i>	Anthracnose; Colletotrichum leaf spot <i>Colletotrichum sp.</i>		Lee
Fig (ornamental)	<i>Ficus sp.</i>	Phomopsis tip blight <i>Phomopsis sp.</i>		Lee
Foxtail Palm	<i>Wodyetia bifurcata</i>	Anthracnose <i>Gloeosporium sp.</i>		Lee
Foxtail Palm	<i>Wodyetia bifurcata</i>		No Pathogens found	Lee
Indian Hawthorn	<i>Raphiolepis indica</i>	Anthracnose; Colletotrichum leaf spot <i>Colletotrichum sp.</i> Cercospora leaf spot <i>Cercospora sp.</i>		Lee

Common Name	Botanical Name	Pathogen Confirmed	No Pathogen Found	County
Indian Hawthorn	<i>Rhaphiolepis indica</i>	Dieback, canker, twig blight <i>Botryosphaeria sp.</i>		Sarasota
Indian Hawthorn	<i>Rhaphiolepis indica</i>		Insufficient sample	Sarasota
Ixora	<i>Ixora coccinea</i>	Anthrachnose; Colletotrichum leaf spot <i>Colletotrichum sp.</i> Pestalotia dieback <i>Pestalotia sp.</i>	Also abiotic disorder; Insect frass; pupal casings	Lee
Jujube	<i>Ziziphus sp.</i>	Phomopsis blight <i>Phomopsis sp.</i>		Lee
Lantana	<i>Lantana sp.</i>	Fusarium root rot <i>Fusarium sp.</i>		Lee
Leylandii Cypress	<i>Cupressocyparis leylandii</i>	Pestalotia dieback <i>Pestalotia sp.</i> Phomopsis tip blight, needle blight <i>Phomopsis juniperovora</i>		Charlotte
Mahogany	<i>Swietenia mahagoni</i>	Dieback, canker, twig blight <i>Botryosphaeria sp.</i>	Abiotic disorder Insect damage	Collier
Mandevilla	<i>Mandevilla sp.</i>	Anthrachnose <i>Gloeosporium sp.</i>		Lee
Okra	<i>Abelmoschus esculentus</i>	Fusarium wilt <i>Fusarium oxyspora</i> Root knot nematodes <i>Meloidogyne sp.</i>		Collier
Royal Palm	<i>Roystonea regia</i>	Wood rot fungus <i>Polyporus sp.</i>		Lee
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Gray leaf spot <i>Magnaporthe grisea</i> 2 samples submitted		Charlotte
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Pythium root and/or crown rot <i>Pythium sp.</i>		Charlotte
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Root decline of warm season grasses <i>Gaeumannomyces graminis</i> var. <i>graminis</i> 2 samples submitted		Charlotte
St. Augustine-grass	<i>Stenotaphrum secundatum</i>		No Pathogen found	Collier
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Gray leaf spot <i>Magnaporthe grisea</i>		Lee
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Root decline of warm season grasses <i>Gaeumannomyces graminis</i> var. <i>graminis</i> 6 samples submitted		Lee
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Pythium root rot and/or crown rot <i>Pythium sp.</i> 3 samples submitted		Lee

Common Name	Botanical Name	Pathogen Confirmed	No Pathogen Found	County
St. Augustine-grass	<i>Stenotaphrum secundatum</i>		Insect damage	Lee
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Gray leaf spot <i>Magnaporthe grisea</i> 4 samples submitted		Sarasota
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Root decline of warm season grasses <i>Gaeumannomyces graminis</i> var. <i>graminis</i> 6 samples submitted		Sarasota
St. Augustine-grass	<i>Stenotaphrum secundatum</i>	Pythium root rot and/or crown rot <i>Pythium</i> sp. 2 samples submitted		Sarasota
St. Augustine-grass	<i>Stenotaphrum secundatum</i>		Chinch bug complex <i>Blissus</i> sp.	Sarasota
St. Augustine-grass	<i>Stenotaphrum secundatum</i>		Abiotic disorder Insect damage	Sarasota
St. Augustine-grass	<i>Stenotaphrum secundatum</i>		Insufficient sample	Sarasota
Shattercane	<i>Sorghum</i> sp.	Sorghum gray leaf spot <i>Cercospora sorghi</i> Pythium root and/or crown rot <i>Pythium</i> sp.		Collier
Southern Red Cedar	<i>Juniperus silicicola</i>	Pestalotiopsis needle blight, tip blight <i>Botryosphaeria</i> sp.		Sarasota
Southern Red Cedar	<i>Juniperus silicicola</i>		Abiotic disorder Transplant shock; stress	Sarasota
Viburnum	<i>Viburnum</i> sp.		Insufficient sample Sample too degraded	Collier
Wax myrtle	<i>Myrica cerifera</i>	Leaf spot and tip blight <i>Pestalotiopsis</i> sp.	Blister mites Family Eriophyidae	Lee
Wax myrtle	<i>Myrica cerifera</i>	Dieback, canker, twig blight <i>Botryosphaeria</i> sp. Rust <i>Gymnosporangium</i> sp.		Lee
Zoysiagrass	<i>Zoysia japonica</i>	Root decline of warm season grasses <i>Gaeumannomyces graminis</i> var. <i>graminis</i>		Collier
Zoysiagrass	<i>Zoysia japonica</i>		Insufficient sample Dense thatch layer Abiotic disorder	Collier
Zoysiagrass	<i>Zoysia japonica</i>		No Pathogen found	Lee

The top six ornamental plant diseases confirmed in four Southwest Florida Counties by the Plant Disease Clinic, Gainesville, July — September, 2010.

Diseases	Plants Affected	Incidences
Root Decline of Warm Season Grasses (Take-all-Root Rot) <i>Gaeumannomyces graminis</i> var. <i>graminis</i>	St. Augustinegrass; Zoysiagrass	15
Pythium Root/Crown Rot <i>Pythium</i> sp.	St. Augustinegrass	7
Anthracnose <i>Colletotrichum</i> sp.	Bald cypress; dwarf schefflera; fig; foxtail palm; Indian Hawthorn; ixora; mandevilla	7
Gray Leaf Spot <i>Magnaporthe grisea</i>	St. Augustinegrass	6
Dieback, canker, twig blight <i>Botryosphaeria</i> sp.	Crape myrtle; Indian Hawthorn; mahogany; wax myrtle	4
Tip blight, needle blight <i>Phomopsis</i> sp.	Crape myrtle; fig; jujube; Leylandii cypress	4

The top six ornamental plant diseases confirmed in four Southwest Florida Counties by the Plant Disease Clinic, Gainesville, April — June, 2010.

Diseases	Plants Affected	Incidences
Anthracnose <i>Colletotrichum</i> sp.	Areca Palm; Begonia; Christmas Palm; Elephant Ear; Jatropha; Mother-in-Law's Tongue; Philodendron 'Xanadu'	7
Root Decline of Warm Season Grasses (Take-all-Root Rot) <i>Gaeumannomyces graminis</i> var. <i>graminis</i>	St. Augustinegrass	7
Pythium Root/Crown Rot <i>Pythium</i> sp.	St. Augustinegrass; Zoysiagrass	6
Alternaria Leaf Spot <i>Alternaria</i> sp.	Cocoplum; Hibiscus; Lisianthus; Tomato	4
False Smut <i>Graphiola phoenicis</i>	Canary Island Date Palm; Date Palm	4
Large/Brown Patch <i>Rhizoctonia solani</i>	St. Augustinegrass; Zoysiagrass	4

To submit a plant sample to the Plant Disease Clinic, [click here](#) for a Plant Disease Diagnosis Form, complete it and follow the instructions for submission.

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