

## Plant Diseases in Lee, Collier, Charlotte and Sarasota Counties April – June, 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 stresses, 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
Areca Palm	<i>Chrysalidocarpus lutescens</i>	Anthrachnose; Colletotrichum Leaf Spot <i>Colletotrichum sp.</i>		Collier
Areca Palm	<i>Chrysalidocarpus lutescens</i>		Abiotic Disorder	Collier
Begonia	<i>Begonia sp.</i>	Anthrachnose; Colletotrichum Leaf Spot <i>Colletotrichum sp.</i> Leaf Spot <i>Phyllosticta sp.</i>		Lee
Cabbage Palm	<i>Sabel palmetto</i>	Ganoderma Butt Rot <i>Ganoderma zonatum</i>		Lee
Canary Island Date Palm	<i>Phoenix canariensis</i>	False Smut <i>Graphiola phoenicis</i> 3 samples submitted		Sarasota
Christmas Palm	<i>Adonidia veitchia merrillii</i>	Anthrachnose; Colletotrichum Leaf Spot <i>Colletotrichum sp.</i>	Abiotic Disorder Cold Damage	Lee
Christmas Palm	<i>Adonidia veitchia merrillii</i>		Abiotic Disorder Cold Damage	Lee
Coconut Palm	<i>Cocos nucifera</i>	Phomopsis Blight <i>Phomopsis sp.</i> 2 samples submitted	Abiotic Disorder Cold Damage	Collier
Cocoplum	<i>Chrysobalanus icaco</i>	Pestalotia Die Back <i>Pestalotia sp.</i>	Abiotic Disorder Mineral; Elemental Toxicity	Lee
Cocoplum	<i>Chrysobalanus icaco</i>	Leaf Spot <i>Pestalotia sp.</i> Alternaria Leaf Spot <i>Alternaria sp.</i>		Sarasota
Coontie	<i>Zamia floridana</i>	Phyllosticta Leaf Spot <i>Phyllosticta sp.</i>		Sarasota
Date Palm	<i>Phoenix dactylifera</i>	False Smut <i>Graphiola phoenicis</i>		Collier

Common Name	Botanical Name	Pathogen Confirmed	No Pathogen Found	County
Date Palm	<i>Phoenix dactylifera</i>	Slime Mold Class Myxomycetes		Sarasota
Elephant Ear	<i>Alocasia taro</i>	Anthraxnose; Colletotrichum Leaf Spot <i>Colletotrichum sp.</i>		Lee
Flax Lily	<i>Dianella tasmanica</i>	Rust <i>Uredo dianellae</i>		Lee
Foxtail Palm	<i>Wodyetia bifurcata</i>	Wood Rot Fungus <i>Ganoderma sp.</i>		Sarasota
Hibiscus	<i>Hibiscus rosa-sinensis</i>	Alternaria Leaf Spot <i>Alternaria sp.</i>		Lee
Japanese Yew	<i>Podocarpus sp.</i>	Dieback; Canker <i>Seiridium sp.</i>		Sarasota
Jatropha	<i>Jatrophia intergerrima</i>	Anthraxnose; Colletotrichum Leaf Spot <i>Colletotrichum sp.</i> Fire Blight <i>Erwinia amylovora</i>		Lee
Ligustrum; Privet	<i>Ligustrum sp.</i>		Insufficient sample No pathogen found	Collier
Lisianthus	<i>Lisianthus sp.</i>	Petal Spot <i>Alternaria sp.</i>		Lee
Mother-in-Law's Tongue	<i>Sanservaeria sp.</i>	Anthraxnose; Colletotrichum Leaf Spot <i>Colletotrichum sp.</i>		Lee
Philodendron 'Xanadu'	<i>Philodendron spp.</i>	Anthraxnose; Colletotrichum Leaf Spot <i>Colletotrichum sp.</i>		Lee
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Large/Brown Patch <i>Rhizoctonia solani</i>		Charlotte
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Root Decline of Warm Season Grasses <i>Gaeumannomyces graminis var. graminis</i>		Charlotte
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Pythium Root Rot <i>Pythium sp.</i>		Charlotte
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Pythium Root and/or Crown Rot <i>Pythium sp.</i>		Charlotte
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Root Decline of Warm Season Grasses <i>Gaeumannomyces graminis var. graminis</i> 2 samples submitted		Collier
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Large/Brown Patch <i>Rhizoctonia solani</i>		Lee

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St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Pythium Root/Crown Rot <i>Pythium sp.</i>		Lee
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Root Decline of Warm Season Grasses <i>Gaeumannomyces graminis</i> var. <i>graminis</i>		Lee
St. Augustinegrass	<i>Stenotaphrum secundatum</i>		Insufficient sample	Lee
St. Augustinegrass	<i>Stenotaphrum secundatum</i>		Abiotic Disorder	Lee
St. Augustinegrass	<i>Stenotaphrum secundatum</i>		Abiotic Disorder Insect Damage	Lee
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Gray Leaf Spot <i>Magnaporthe grisea</i>		Sarasota
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Large/Brown Patch <i>Rhizoctonia solani</i>		Sarasota
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Pythium Root/Crown Rot <i>Pythium sp.</i>		Sarasota
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Root Decline of Warm Season Grasses <i>Gaeumannomyces graminis</i> var. <i>graminis</i> 2 samples submitted		Sarasota
St. Augustinegrass	<i>Stenotaphrum secundatum</i>	Root Decline of Warm Season Grasses <i>Gaeumannomyces graminis</i> Pythium Root/Crown Rot <i>Pythium sp.</i>		Sarasota
St. Augustinegrass	<i>Stenotaphrum secundatum</i>		Abiotic Disorder	Sarasota
Senegal Date Palm	<i>Phoenix reclinata</i>		Abiotic Disorder Cultural/ Environmental Problem	Collier
Senegal Date Palm	<i>Phoenix reclinata</i>		Abiotic Disorder Cultural/ Environmental Problem	Sarasota
Snap Peas; Green Bean	<i>Phaseolus vulgaris</i>		Abiotic Disorder 2 samples submitted	Collier
Silver Buttonwood	<i>Conocarpus erectus</i>		Abiotic Disorder Insect Damage	Lee
Sorghum	<i>Sorghum bicolor</i>	Phytophthora Root Rot <i>Phytophthora sp.</i>		Collier
Southern Magnolia	<i>Magnolia grandiflora</i>	Sooty Mold <i>Meliola sp.</i>		Lee

Common Name	Botanical Name	Pathogen Confirmed	No Pathogen Found	County
Tomato	<i>Lycopersicon esculentum</i>	Alternaria Fruit Rot and Spot <i>Alternaria sp.</i>		Collier
Tomato	<i>Lycopersicon esculentum</i>	Soybean Target Spot <i>Corynespora cassiicola</i>		Collier
Tomato	<i>Lycopersicon esculentum</i>	Stemphylium Leaf Spot <i>Stemphylium sp.</i>		Collier
Tomato	<i>Lycopersicon esculentum</i>		Abiotic Disorder 2 samples submitted	Collier
Tomato	<i>Lycopersicon esculentum</i>		Abiotic Disorder Nutritional Pathology	Collier
Triangle Palm	<i>Dypsis decaryi</i>	Date Palm Wilt <i>Fusarium oxysporum</i> f.sp. canariensis	Abiotic Disorder Cultural/ Environmental Problem	Collier
Washington Palm	<i>Washingtonia sp.</i>	Phomopsis Blight <i>Phomopsis sp.</i>		Sarasota
Watermelon	<i>Citrullus lantus</i>	Gummy Stem Blight <i>Didymella bryonae</i>		Collier
Weeping Fig	<i>Ficus bengimina</i>	Canker; Stem Blight; Dieback <i>Botryosphaeria dothidea</i>		Lee
West Indies Mahogany	<i>Swietenia mahagoni</i>		Abiotic Disorder & Mite damage	Lee
Zoysiagrass	<i>Zoysia japonica</i>	Large/Brown Patch <i>Rhizoctonia solani</i>		Lee
Zoysiagrass	<i>Zosia japonica</i>	Pythium Root Rot <i>Pythium sp.</i>		Lee
Zucchini Squash	<i>Cucurbita pepo melopepo</i>	Bacterial Soft Rot <i>Erwinia carotovora</i>		Collier

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

Disease	Plants Affected	Incidences
Anthracnose: <i>Colletotrichum sp.</i>	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 var. graminis</i>	St. Augustinegrass	7
Pythium Root/Crown Rot <i>Pythium sp.</i>	St. Augustinegrass; Zoysiagrass	6
Alternaria Leaf Spot <i>Alternaria sp.</i>	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

## Images and Fact Sheets

Powerpoint of some May diseases in Lee County

Root Decline of Warm Season Grasses (Take-all Root Rot) Fact Sheet

Pythium Root Rot Fact Sheet

False Smut Fact Sheet

Large/Brown Patch Fact Sheet

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.

This fact sheet was reviewed by Carrie Harmon, Director, Plant Disease Clinic, University of Florida, Gainesville, Florida.

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