

# Plant Disease Clinic Annual Report 2022

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College of Agricultural and Environmental Sciences  
Department of Plant Pathology  
Diagnosticians: Ansuya Jogi and Jason Brock  
Extension Specialists: Phillip Brannen, Jason Brock, Bhabesh Dutta,  
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Alfredo Martinez-Espinoza, Jean Williams-Woodward

## **JASON BROCK**

At the end of 2022, Jason Brock retired from his position as the UGA Plant Disease Diagnostician/Extension specialist with the UGA Tifton Plant Disease Clinic. Jason provided excellent guidance, expertise and high quality work. We are very grateful for his dedicated and impressive service to the UGA Tifton and Athens Plant Disease Clinics, the UGA Department of Plant Pathology, UGA Cooperative Extension, the National Plant Diagnostic Network and many other projects and programs.

## **2022 ANNUAL PLANT DISEASE CLINIC REPORT – PClinic**

The data in this report is taken from PClinic. There is a portion of unlogged samples that are not represented here (samples responded to directly by email, phone, text and in-person). In PClinic, there are Plant Pathology Plant Disease Clinic Homeowner and Commercial samples and within those categories, the sample types are Physical only, Physical & Digital and Digital only.

This report represents samples that were logged in PClinic and diagnosed by the Plant Pathology Diagnosticians (Jason Brock and Ansuya Jogi) and Extension specialists (Phillip Brannen, Jason Brock, Bhabesh Dutta, Bob Kemeraite, Elizabeth Little, Jonathan Oliver, Alfredo Martinez-Espinoza, Jean Williams-Woodward).

## PLANT DISEASE CLINICS ANNUAL SUMMARY

Extension Plant Pathology maintains plant disease clinics at Athens and Tifton to aid county extension faculty in diagnosing and correcting disease related plant problems. Additionally, a laboratory for analysis for nematodes is maintained at Athens and a laboratory for molecular diagnostics is maintained in Tifton. The Plant Disease Clinic at Athens, operated by Ansuya Jogi, is located in Room 2405 Miller Plant Science Building.

Samples analyzed in this clinic include commercial fruit, ornamentals, turf, trees and homeowner samples. The Plant Disease Clinic at Tifton, operated by Jason Brock, is located in Room 116 of the Horticulture Building. Samples analyzed in this clinic include commercial samples of row crops, pecans, and vegetables.

Diagnoses and educational recommendations are returned to the county faculty. The clinics maintain a computerized database of samples and their diagnoses through the DDDI system.

### CLINIC SUMMARIES: 2022 CROP/ID Category Summary

Sample totals by major crop categories

<b>Crop</b>	<b>Total</b>
Field Crops	89
Forage	2
Fruit (Tree Crops)	57
Fruit (Small Fruits)	114
Miscellaneous	1
Nut Crops (Pecan)	19
Ornamental - Herbaceous	67
Ornamental - Woody	165
Tree - Forest/Christmas Tree	5
Tree - Shade/Conifer	90
Turfgrass	138
Vegetable	190
No Crop Type Specified	30
<b>Total*</b>	<b>967</b>

The largest crop category was Vegetables, followed by Woody Ornamentals and then Turfgrass.

## 2022 MONTHLY SAMPLE SUBMISSION SUMMARY

Number of samples received by month

<b>Month</b>	<b># Samples</b>
January	31
February	55
March	66
April	63
May	160
June	144
July	117
August	130
September	64
October	79
November	38
December	20
<b>Total*</b>	<b>967</b>

**DISTRIBUTION OF 2022 SAMPLES SUBMITTED BY COUNTY**

<b>County</b>	<b>#Samples</b>	<b>County</b>	<b>#Samples</b>	<b>County</b>	<b>#Samples</b>
Appling	12	Fannin	9	NA	10
Atkinson	2	Fayette	5	Oconee	19
Bacon	27	Floyd	6	Paulding	6
Baker	3	Forsyth	8	Peach	1
Baldwin	2	Fulton	56	Pickens	1
Barrow	1	Glynn	6	Pierce	17
Bartow	3	Gordon	1	Pike	2
Ben Hill	3	Grady	5	Polk	1
Berrien	20	Greene	6	Pulaski	4
Bibb	12	Gwinnett	29	Rabun	4
Bleckley	1	Habersham	2	Richmond	16
Brantley	2	Hall	1	Rockdale	1
Brooks	4	Harris	1	Schley	1
Bryan	6	Hart	1	Screven	5
Bulloch	19	Henry	6	Seminole	2
Burke	6	Houston	4	Spalding	6
Butts	2	Irwin	9	Stephens	1
Calhoun	8	Jackson	11	Sumter	1
Camden	2	Jeff Davis	12	Tattnall	27
Candler	4	Jefferson	11	Telfair	3
Carroll	3	Jones	6	Terrell	1
Chatham	14	Lanier	4	Thomas	3
Cherokee	2	Laurens	16	Tift	22
Clarke	21	Liberty	1	Toombs	6
Clinch	5	Lincoln	2	Treutlen	1
Cobb	27	Long	1	Troup	24
Coffee	7	Lowndes	25	Turner	8
Colquitt	83	Lumpkin	2	Upton	3
Cook	18	Macon	2	Walker	2
Coweta	11	Madison	5	Walton	7
Crisp	5	Marion	4	Ware	10
Dawson	1	Mcduffie	45	Wayne	9
De Kalb	34	Mcintosh	2	Webster	2
Decatur	2	Miller	3	White	1
Dougherty	7	Mitchell	3	Wilcox	1
Douglas	5	Morgan	3	Wilkes	1
Echols	2	Murray	1	Worth	10
Effingham	2	Muscogee	26		

## CROP DIAGNOSES SUMMARIES

The following sections contain summaries of sample diagnoses by crop category. Samples are divided into Commercial and Homeowner. The data in the following tables represents data logged in PCLinic and related to Plant Pathology PCLinic samples diagnosed by Plant Pathology Diagnosticians and Extension Specialists.

### FIELD CROPS

HOST	DISEASE	CAUSAL ORGANISM	#
Corn			
	Aspergillus ear; Kernel rot	<i>Aspergillus</i> sp./spp.	1
	Corn tar spot	<i>Phyllachora maydis</i>	1
	Environmental/cultural		1
	Fusarium ear rot	<i>Fusarium</i> sp./spp.	1
	Gibberella root rot	<i>Fusarium graminearum</i>	1
	No pathogen found	Identification Analysis	2
	No pest or disease of concern found	Identification Analysis	1
	Northern corn leaf spot	<i>Bipolaris zeicola</i>	1
	Southern corn rust	<i>Puccinia polysora</i>	1
	Southern leaf blight	<i>Bipolaris maydis</i>	2
	Unknown	General	2
	No Diagnosis or Sample Quality Entered		1
	Total for Corn		15
Cotton			
	Boll rot	Various Fungi	2
	Cotton leafroll dwarf (CLRDV)	Polerovirus Cotton Leafroll Dwarf Virus	5
	No pathogen found	Identification Analysis	2
	Stemphylium leaf spot	<i>Stemphylium</i> sp./spp.	1
	Unknown	General	1
	Total for Cotton		11
Field Corn			
	Northern corn leaf spot	<i>Bipolaris zeicola</i>	1
	Southern corn rust	<i>Puccinia polysora</i>	1
	Southern leaf blight	<i>Bipolaris maydis</i>	1
	Total for Field Corn		3

Millet, Pearl			
	Gray leaf spot		1
	Total for Millet, Pearl		1
Oats			
	Environmental/Cutural		1
	Total for Oats		1
Peanut			
	Aspergillus	<i>Aspergillus sp./spp.</i>	1
	Chemical injury	Abiotic disorder	7
	Cylindrocladium black rot	<i>Calonectria ilicicola</i>	2
	Diplodia root; Stalk rot	<i>Diplodia sp./spp.</i>	3
	No pathogen found	Identification Analysis	16
	Peanut early leaf spot	<i>Passalora arachidicola</i>	5
	Peanut late leaf spot	<i>Passalora personata</i>	3
	Rhizoctonia limb rot	<i>Rhizoctonia sp./spp.</i>	2
	Southern blight	<i>Sclerotium rolfsii</i>	1
	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	10
	Unknown	General	2
	Total for Peanut		52
Rye			
	Environmental/cultural		1
	Total for Rye		1
Soybean			
	Charcoal rot	<i>Macrophomina sp./spp.</i>	1
	Chemical injury	Abiotic disorder	1
	No pathogen found	Identification Analysis	7
	Phytophthora		1
	No Diagnosis or Sample Quality Entered		1
	Total for Soybean		11
Sweet Corn			
	No pathogen found	Identification Analysis	1
	Total for Sweet Corn		1
Tobacco			



	Alternaria leaf spot	<i>Alternaria sp./spp.</i>	1
	Black root rot	<i>Berkeleyomyces basicola</i>	1
	Black shank	<i>Phytophthora nicotianae</i>	3
	Brown spot	<i>Alternaria alternata</i>	1
	No pathogen found	Identification Analysis	2
	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	2
	Tobacco mosaic (TMV)	Tobamovirus Tobacco Mosaic Virus	1
	Tobacco ringspot (TRSV)	<i>Nepovirus Tobacco Ringspot Virus</i>	1
	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	2
	Total for Tobacco		14
Wheat			
	Root and Crown Rot	<i>Pythium spp.</i>	1
	Tan spot		2
	Total for Wheat		3

**FORAGE**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Alfalfa			
	Anthracnose	<i>Colletotrichum spp.</i>	1
	Total for Alfalfa		1
Perennial Ryegrass			
	Leaf spot	<i>Drechslera</i>	1
	Pythium sp.	<i>Pythium</i>	1
	Total for Perennial Ryegrass		2

**FRUIT – TREE CROPS**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Apple			
	Environmental/cultural		1
	Fire blight	<i>Erwinia amylovora</i>	2
	Glomerella leaf spot	<i>Glomerella</i> sp./spp.	4
	No pathogen found	Identification Analysis	1
	Unknown	General	1
	Total for Apple		9
Cantaloupe			
	Downy mildew	<i>Pseudoperenoposa cubensis</i>	1
	Gummy Stem blight	<i>Staganosporopsis</i>	1
	Nutritional pathology	Abiotic disorder	1
	Xanthomonas leaf spot	<i>Xanthomonas</i>	1
	No Diagnosis or Sample Quality Entered		1
	Total for Cantaloupe		5
Citrus			
	Citrus - Alternaria Brown Spot	<i>Alternaria alternata</i>	3
	Citrus - Anthracnose	<i>Colletotrichum</i> sp./spp.	7
	Citrus - Greasy spot	<i>Mycosphaerella citri</i>	5
	Citrus - Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Citrus - Stylar End Rot;Black Rot;Alternaria	<i>Alternaria</i> sp.	1
	Citrus - Unknown		4
	Citrus - Unknown; Insect Damage Suspected		6
	Citrus Canker - NOT DETECTED		8
	Citrus scab	<i>Elsinoe fawcettii</i>	1
	Citrus tristeza (CTV); Quick decline - NOT DETECTE	Closterovirus Citrus Tristeza Virus	2
	Citrus tristeza virus (CTV)	Closterovirus Citrus Tristeza Virus	4
	Dieback; Canker	<i>Coniothyrium</i> sp./spp.	1
	Root damage	Abiotic disorder	1
	Total for Citrus		44
Crabapple			

	Rust		1
	Total for Crabapple		1
Grape			
	Bitter rot	<i>Colletotrichum sp./spp.</i>	1
	Black rot	<i>Phyllosticta ampellicida</i>	2
	Grape downy mildew	<i>Plasmopara viticola</i>	2
	Phytophthora root and crown rot	<i>Phytophthora cinnamomi</i>	1
	Rhizoctonia	<i>spp</i>	1
	Root damage	Abiotic disorder	1
	Root problem; root damage	Unidentified Agent	1
	Total for Grape		9
Grapefruit			
	Citrus - Alternaria Brown Spot	<i>Alternaria alternata</i>	2
	Citrus - Anthracnose	<i>Colletotrichum sp./spp.</i>	2
	Citrus - Greasy spot	<i>Mycosphaerella citri</i>	2
	Citrus - Unknown; Insect Damage Suspected		1
	Citrus canker	<i>Xanthomonas axonopodis</i>	1
	Citrus Canker - NOT DETECTED		1
	Total for Grapefruit		9
Lemon			
	Environmental/cultural		3
	No pathogen found	Identification Analysis	1
	Total for Lemon		4
Mandarin Orange			
	Citrus - Alternaria Brown Spot	<i>Alternaria alternata</i>	1
	Citrus - Anthracnose	<i>Colletotrichum sp./spp.</i>	1
	Citrus - Phytophthora root rot	<i>Phytophthora sp./spp.</i>	1
	Citrus - Unknown; Insect Damage Suspected		1
	Citrus Canker - NOT DETECTED		1
	Citrus tristeza (CTV); Quick decline - NOT DETECTE	Closterovirus Citrus Tristeza Virus	1
	Total for Mandarin Orange		6
Mayhaw; May Hawthorne			
	Fire blight	<i>Erwinia amylovora</i>	1

	Sphaeropsis	<i>Sphaeropsis</i> sp./spp.	1
	Total for Mayhaw; May Hawthorne		2
Orange			
	Citrus - Dry Root Rot	<i>Fusarium</i> sp./spp.	1
	Citrus - Unknown; Insect Damage Suspected		1
	Total for Orange		2
Peach			
	Environmental/cultural		2
	Total for Peach		2
Persimmon, Japanese			
	Persimmon - Insect Damage		1
	Total for Persimmon, Japanese		1
Satsuma			
	Chemical injury	Abiotic disorder	1
	Citrus - Anthracnose	<i>Colletotrichum</i> sp./spp.	1
	Citrus - Dry Root Rot	<i>Fusarium</i> sp./spp.	1
	Citrus - Greasy spot	<i>Mycosphaerella citri</i>	1
	Citrus - Phytophthora root rot	<i>Phytophthora</i> sp./spp.	2
	Citrus - Unknown		3
	Citrus - Unknown; Insect Damage Suspected		2
	Citrus Canker - NOT DETECTED		3
	Citrus tristeza (CTV); Quick decline - NOT DETECTE	Closterovirus Citrus Tristeza Virus	3
	Total for Satsuma		17

**FRUIT- SMALL FRUITS (BERRIES)**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Blackberry			
	Blackberry - Cane and leaf rust	<i>Kuehneola</i> sp./spp.	3
	Blackberry - Cane Blight	<i>Paraconiothyrium fuckelii</i>	1
	Blackberry - Colletotrichum sp.	<i>Colletotrichum gloeosporioides</i>	1
	Blackberry - Insects		3
	Blackberry - Orange Cane Blotch (Orange Felt)	<i>Cephaleuros virescens</i>	3
	Blackberry - Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Blackberry - Pseudocercospora Leaf spot	<i>Pseudocercospora</i> sp./spp.	2
	Blackberry - Sooty mold	Unidentified Fungus	1
	Rust		1
	Total for Blackberry		16
Blueberry			
	Blackberry - Sooty mold	Unidentified Fungus	1
	Blueberry - Anthracnose fruit rot and leaf spot	<i>Colletotrichum</i> sp.	3
	Blueberry - Botryosphaeria stem blight; Dieback	<i>Botryosphaeria</i> sp./spp.	2
	Blueberry - Cladosporium	<i>Cladosporium</i> sp./spp.	2
	Blueberry - Fusicoccum twig blight or stem canker	<i>Fusicoccum</i> sp./spp.	1
	Blueberry - Insect Damage		3
	Blueberry - Phytophthora root rot	<i>Phytophthora cinnamomi</i>	16
	Blueberry - Rhizoctonia root rot	<i>Rhizoctonia</i> sp.	16
	Blueberry - Sooty mold	Unidentified Fungus	3
	Blueberry - Tip Blight and Cankers	<i>Pestalotia</i> sp./spp.	4
	Blueberry - Unknown; No Pathogen Found		3
	Blueberry - Unknown; Root Issue Suspected		1
	Blueberry - Unknown; Unidentified		2
	Blueberry leaf rust	<i>Pucciniastrum vaccinii</i>	1
	Blueberry red ringspot (BRRV)	Soymovirus Blueberry Red Ringspot Virus	1
	Unknown	General	1

	Total for Blueberry		60
Highbush Blueberry			
	Blueberry - Botryosphaeria stem blight; Dieback	<i>Botryosphaeria</i> sp./spp.	1
	Blueberry - Fusicoccum twig blight or stem canker	<i>Fusicoccum</i> sp./spp.	1
	Blueberry - Insect Damage		2
	Blueberry - Sooty mold	Unidentified Fungus	2
	Blueberry - Unknown; No Pathogen Found		1
	Blueberry - Unknown; Unidentified		2
	Blueberry leaf rust	<i>Pucciniastrum vaccinii</i>	1
	Total for Highbush Blueberry		10
Muscadine			
	Ripe rot	<i>Colletotrichum</i> sp./spp.	1
	Unknown	General	2
	Total for Muscadine		3
Rabbit-eye Blueberry			
	Blueberry - Anthracnose fruit rot and leaf spot	<i>Colletotrichum</i> sp.	1
	Blueberry - Exobasidium leaf and fruit spot	<i>Exobasidium maculosum</i>	3
	Blueberry - Insect Damage		2
	Blueberry - Phomopsis twig blight or fruit rot	<i>Phomopsis vaccinii</i>	1
	Blueberry - Phytophthora root rot	<i>Phytophthora cinnamomi</i>	4
	Blueberry - Rhizoctonia root rot	<i>Rhizoctonia</i> sp.	2
	Blueberry - Sooty mold	Unidentified Fungus	1
	Blueberry - Unknown; Unidentified		1
	Blueberry leaf rust	<i>Pucciniastrum vaccinii</i>	2
	Total for Rabbit-eye Blueberry		17
Raspberry			
	Environmental/cultural		1
	Total for Raspberry		1
Southern Highbush			

Blueberry			
	Blueberry - Anthracnose fruit rot and leaf spot	<i>Colletotrichum</i> sp.	6
	Blueberry - Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1
	Blueberry - Botryosphaeria stem blight; Dieback	<i>Botryosphaeria</i> sp./spp.	3
	Blueberry - Cladosporium	<i>Cladosporium</i> sp./spp.	1
	Blueberry - Fusicoccum twig blight or stem canker	<i>Fusicoccum</i> sp./spp.	4
	Blueberry - Insect Damage		6
	Blueberry - Phomopsis twig blight or fruit rot	<i>Phomopsis vaccinii</i>	2
	Blueberry - Phytophthora root rot	<i>Phytophthora cinnamomi</i>	21
	Blueberry - Rhizoctonia root rot	<i>Rhizoctonia</i> sp.	17
	Blueberry - Sooty mold	Unidentified Fungus	3
	Blueberry - Unknown; No Pathogen Found		4
	Blueberry - Unknown; Root Issue Suspected		1
	Blueberry - Unknown; Unidentified		7
	Blueberry leaf rust	<i>Pucciniastrum vaccinii</i>	3
	Total for Southern Highbush Blueberry		79
Strawberry			
	Anthracnose	<i>Colletotrichum acutatum</i>	3
	Botrytis fruit rot	<i>Botrytis</i> sp./spp.	4
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1
	Cladosporium leaf spot	<i>Cladosporium</i> sp./spp.	1
	Environmental/cultural		1
	European red mite	<i>Panonychus ulmi</i>	2
	Fruit rot	<i>Alternaria alternata</i>	1
	Fruit rot	<i>Neopestalotiopsis</i> sp./spp.	1
	Insect damage	Class Insecta	1
	Leaf blotch	<i>Gnomoniopsis comari</i>	2
	Leaf spot	<i>Neopestalotiopsis</i> sp./spp.	1
	Nutrient imbalance	Abiotic disorder	2
	Phytophthora root and crown rot	<i>Phytophthora cactorum</i>	13
	Phytotoxicity	Abiotic disorder	1
	Rhizoctonia root canker	<i>Rhizoctonia</i> sp./spp.	1
	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1
	Strawberry angular leaf spot	<i>Xanthomonas fragariae</i>	1
	Thrips	Order Thysanoptera	1



	Twospotted spider mite	<i>Tetranychus urticae</i>	11
	Total for Strawberry		49

MISCELLANEOUS

HOST	DISEASE	CAUSAL ORGANISM	#
Hemp			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Hemp		1

## NUT CROPS (PECAN)

HOST	DISEASE	CAUSAL ORGANISM	#
Fig, common			
	Unknown	General	1
	Total for Fig, common		1
Olive			
	Olive - Alternaria leaf spot	<i>Alternaria alternata</i>	1
	Olive - Cercospora leaf spot	<i>Cercospora cladosporioides</i>	2
	Total for Olive		3
Pecan			
	Anthrachnose	<i>Glomerella</i> sp./spp.	4
	No pathogen found	Identification Analysis	3
	Pecan; Hickory scab	<i>Fusicladium caryigenum</i>	1
	Physiological responses	Abiotic disorder	2
	Tetranychid mite	<i>Eotetranychus</i> sp./spp.	2
	Unknown	General	3
	Total for Pecan		15
Plum			
	Environmental/cultural		1
	Total for Plum		1
Pomegranate			
	Botrytis gray mold	<i>Botrytis cinerea</i>	1
	Colletotrichum (Anthrachnose)	<i>Colletotrichum gloeosporioides</i>	1
	Mites	Order Acari	1
	Total for Pomegranate		3

**ORNAMENTAL – HERBACEOUS**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Ajuga, bugleweed			
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Ajuga, bugleweed		1
Anemone, Japanese			
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Anemone, Japanese		1
Begonia Reigor			
	Fusarium crown rot	<i>Fusarium</i> sp./spp.	1
	Total for Begonia Reigor		1
Chrysanthemum			
	Fusarium crown rot	<i>Fusarium</i> sp./spp.	1
	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1
	Total for Chrysanthemum		2
Creeping Jenny			
	Environmental/cultural		1
	Total for Creeping Jenny		1
Dahlia			
	No pathogen found	Identification Analysis	1
	Total for Dahlia		1
Daisy, Gerbera			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Unknown	General	1
	Total for Daisy, Gerbera		2
Daylily			
	Unidentified virus	Unidentified Virus	1
	Total for Daylily		1
Dianthus			
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	2

	Rhizoctonia foliar/ aerial/ web blight	<i>Rhizoctonia solani</i>	1
	Total for Dianthus		3
Fern			
	No pathogen found	Identification Analysis	1
	Total for Fern		1
Foxglove			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Unspecified pathology	<i>Colletotrichum</i> sp./spp.	1
	Total for Foxglove		2
Giant Hyssop			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Giant Hyssop		1
Greater Periwinkle / Vinca major			
	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1
	Scale insects		1
	Total for Greater Periwinkle / Vinca major		2
Guava, pineapple			
	Environmental/Cutural		1
	Total for Guava, pineapple		1
Hellebore, black			
	Cucumber mosaic (CMV)	Cucumovirus Cucumber Mosaic Virus	1
	No pathogen found	Identification Analysis	1
	Xanthomonas leaf spot	<i>Xanthomonas</i>	1
	Total for Hellebore, black		3
Hibiscus			
	No Diagnosis or Sample Quality Entered		1
	Total for Hibiscus		1
Horsetail			
	No Diagnosis or Sample Quality		1

	Entered		
	Total for Horsetail		1
Hosta			
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Hosta		1
Jade			
	Environmental/cultural		1
	Total for Jade		1
Jasmine, Asian			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Rhizoctonia	<i>spp</i>	1
	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1
	Total for Jasmine, Asian		3
Lavender			
	Rhizoctonia foliar/ aerial/ web blight	<i>Rhizoctonia solani</i>	2
	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.	1
	Total for Lavender		3
Lenten Rose			
	Downy mildew	<i>Peronospora pulveracea</i>	2
	Total for Lenten Rose		2
Lily, cultivars/hybrids			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Lily, cultivars/hybrids		1
Liriope, lily turf			
	Anthraxnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	3
	Total for Liriope, lily turf		4
Lisianthus, Prairie Gentian			
	Pythium sp.	<i>Pythium</i>	1
	Total for Lisianthus, Prairie Gentian		1
Mint			

	Environmental/Cutural		1
	Total for Mint		1
Mondograss; Dwarf Lily Turf			
	Citrus - Rhizoctonia root rot or "damping-off"	<i>Rhizoctonia</i> sp./spp.	1
	Root damage	Abiotic disorder	1
	Total for Mondograss; Dwarf Lily Turf		2
New Guinea Impatiens			
	Root Rot	<i>Pythium</i>	1
	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	1
	Total for New Guinea Impatiens		2
Pansy			
	Black root rot	<i>Berkeleyomyces basicola</i>	1
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Pansy		3
Peony			
	Chemical injury	Abiotic disorder	1
	Total for Peony		1
Philodendron			
	No Diagnosis or Sample Quality Entered		1
	Total for Philodendron		1
Phlox			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Phlox		1
Poinsettia			
	Bacterial leaf spot	<i>Xanthomonas</i> sp./spp.	1
	Citrus - Rhizoctonia root rot or "damping-off"	<i>Rhizoctonia</i> sp./spp.	1
	No pathogen found	Identification Analysis	1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Saprophytic fungus	<i>Chromelosporium</i> sp./spp.	1

	No Diagnosis or Sample Quality Entered		1
	Total for Poinsettia		6
Poppy, Iceland			
	No pest or disease of concern found	Identification Analysis	1
	No Diagnosis or Sample Quality Entered		2
	Total for Poppy, Iceland		3
Purple Queen, Purple Heart			
	No pest or disease of concern found	Identification Analysis	1
	Total for Purple Queen, Purple Heart		1
Ranunculus			
	No pathogen found	Identification Analysis	1
	No Diagnosis or Sample Quality Entered		2
	Total for Ranunculus		3
Rudbeckia			
	Environmental/cultural		1
	Total for Rudbeckia		1
Salvia			
	No pathogen found	Identification Analysis	1
	Total for Salvia		1
Sedge			
	Phytophthora dieback; Blight	<i>Phytophthora</i> sp./spp.	1
	Total for Sedge		1
Vinca / periwinkle			
	Botrytis blight	<i>Botrytis</i> sp./spp.	1
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Vinca / periwinkle		2
Vinca minor			
	Unknown	General	1
	Total for Vinca minor		1



Viola			
	Phytophthora		1
	Total for Viola		1
Wax Begonia			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Wax Begonia		1
Yarrow			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Yarrow		1
Yucca			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Yucca		1
Zinnia			
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	1
	Total for Zinnia		1

**ORNAMENTAL – WOODY**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Abelia			
	Rhizoctonia	<i>spp</i>	1
	Root Rot	<i>Pythium</i>	1
	Total for Abelia		2
Agarista, Florida Leucothoe			
	Anthracnose; Twig dieback	<i>Colletotrichum sp./spp.</i>	1
	Total for Agarista, Florida Leucothoe		1
American Holly			
	No Diagnosis or Sample Quality Entered		2
	Total for American Holly		2
Anise Tree			
	No pathogen found	Identification Analysis	1
	No pest or disease of concern found	Identification Analysis	1
	Phytophthora root rot	<i>Phytophthora sp./spp.</i>	1
	Root problem; root damage	Unidentified Agent	1
	Unknown	General	1
	No Diagnosis or Sample Quality Entered		1
	Total for Anise Tree		6
Asiatic Jasmine			
	No pathogen found	Identification Analysis	1
	Total for Asiatic Jasmine		1
Azalea			
	Azalea leaf spot	<i>Pseudocercospora handelii</i>	1
	Environmental/cultural		2
	Leaf spot	<i>Pseudocercospora sp./spp.</i>	1
	No pathogen found	Identification Analysis	2
	Phytophthora dieback; Blight	<i>Phytophthora sp./spp.</i>	1
	Phytophthora root rot	<i>Phytophthora sp./spp.</i>	2
	Rhizoctonia foliar/ aerial/ web blight	<i>Rhizoctonia solani</i>	1
	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1

	Root Rot	<i>Pythium</i>	2
	Spider mites	Family Tetranychidae	1
	Unknown	General	1
	No Diagnosis or Sample Quality Entered		5
	Total for Azalea		20
Bamboo			
	No Diagnosis or Sample Quality Entered		1
	Total for Bamboo		1
Banana Shrub			
	Environmental/cultural		1
	Total for Banana Shrub		1
Bigleaf Hydrangea			
	Carlavirus Group	Carlavirus Group	1
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Environmental/cultural		2
	Potexvirus Group	Potexvirus Group	1
	Pseudomonas spp	<i>Pseudomonas</i>	1
	Total for Bigleaf Hydrangea		6
Boxwood			
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	3
	Boxwood leafminer	<i>Monarthropalpus flavus (buxi)</i>	1
	Boxwood Macrophoma leaf spot	<i>Dothiorella candollei</i>	1
	Boxwood Volutella blight; Canker	<i>Pseudonectria buxi</i>	4
	Dieback	<i>Colletotrichum theobromicola</i>	1
	Environmental/cultural		7
	Environmental/Cutural		3
	No pathogen found	Identification Analysis	9
	No pest or disease of concern found	Identification Analysis	2
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	3
	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1
	Root damage	Abiotic disorder	2
	Root problem; root damage	Unidentified Agent	3
	No Diagnosis or Sample Quality		12

	Entered		
	Total for Boxwood		52
Burford Holly			
	Environmental/Cutural		1
	Total for Burford Holly		1
Camellia			
	Anthracnose	<i>Glomerella</i> sp./spp.	1
	Environmental/cutural		1
	Environmental/Cutural		1
	No pathogen found	Identification Analysis	2
	Total for Camellia		5
Clematis			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Clematis		1
Cleyera			
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1
	Total for Cleyera		1
Common Boxwood			
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	5
	Boxwood Volutella blight; Canker	<i>Pseudonectria buxi</i>	4
	Dieback	<i>Colletotrichum theobromicola</i>	1
	Environmental/Cutural		1
	No pathogen found	Identification Analysis	2
	No pest or disease of concern found	Identification Analysis	1
	No Diagnosis or Sample Quality Entered		2
	Total for Common Boxwood		16
Daphne			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Daphne		1
Elderberry			
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1
	No pathogen found	Identification Analysis	1

	Powdery mildew	<i>Oidium</i> sp./spp.	1
	Total for Elderberry		3
Forsythia			
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Forsythia		1
Fothergilla, dwarf			
	Unspecified pathology	<i>Colletotrichum</i> sp./spp.	1
	Total for Fothergilla, dwarf		1
Fothergilla, large			
	Root problem; root damage	Unidentified Agent	1
	Total for Fothergilla, large		1
Fuchsia			
	Pythium sp.	<i>Pythium</i>	1
	Total for Fuchsia		1
Gardenia			
	Chemical injury	Abiotic disorder	1
	Phytophthora		1
	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1
	Total for Gardenia		3
Holly			
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1
	Black root rot	<i>Berkeleyomyces basicola</i>	1
	Environmental/cultural		2
	No pathogen found	Identification Analysis	2
	Scale insects		1
	Total for Holly		7
Holly, Yaupon			
	Environmental/cultural		1
	Total for Holly, Yaupon		1
Hydrangea			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Environmental/cultural		1

	No pathogen found	Identification Analysis	1
	Phytophthora dieback; Blight	<i>Phytophthora</i> sp./spp.	1
	No Diagnosis or Sample Quality Entered		1
	Total for Hydrangea		5
Japanese Boxwood			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Environmental/cultural		1
	Total for Japanese Boxwood		2
Japanese Cedar			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Phytophthora dieback; Blight	<i>Phytophthora</i> sp./spp.	1
	Total for Japanese Cedar		2
Japanese Yew			
	No pathogen found	Identification Analysis	1
	Total for Japanese Yew		1
Juniper			
	Environmental/cultural		1
	Environmental/Cutural		1
	No Diagnosis or Sample Quality Entered		2
	Total for Juniper		4
Korean Boxwood			
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Korean Boxwood		2
Laurel			
	Environmental/Cutural		1
	Root damage	Abiotic disorder	1
	Total for Laurel		2
Ligustrum			
	Leaf spot	<i>Pseudocercospora</i> sp./spp.	1
	Rhizoctonia	<i>spp</i>	1

	No Diagnosis or Sample Quality Entered		1
	Total for Ligustrum		3
Loropetalum; Chinese Fringe Flower			
	No pathogen found	Identification Analysis	1
	No pest or disease of concern found	Identification Analysis	1
	Total for Loropetalum; Chinese Fringe Flower		2
Multiple hosts			
	No pest or disease of concern found	Identification Analysis	1
	Total for Multiple hosts		1
Panicle Hydrangea			
	No Diagnosis or Sample Quality Entered		1
	Total for Panicle Hydrangea		1
Pittosporum			
	No pathogen found	Identification Analysis	1
	Total for Pittosporum		1
Privet			
	Environmental/cultural		1
	Environmental/Cutural		1
	Total for Privet		2
Rhododendron			
	Entomosporium leaf spot	<i>Diplocarpon sp./spp.</i>	1
	Total for Rhododendron		1
Rose			
	Environmental/cultural		1
	No Diagnosis or Sample Quality Entered		2
	Total for Rose		3
Sambucus Lemony Lace			

	Black root rot	<i>Berkeleyomyces basicola</i>	1
	Total for Sambucus Lemony Lace		1
Sawara Falsecypress			
	Dieback; Canker	<i>Seiridium</i> sp./spp.	1
	Total for Sawara Falsecypress		1
Serviceberry			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Granulate Ambrosia beetle	<i>Xylosandrus crassiusculus</i>	1
	Total for Serviceberry		2
Viburnum			
	Phomopsis blight	<i>Phomopsis</i> sp./spp.	1
	Total for Viburnum		1
Viburnum, Sweet			
	Citrus - Rhizoctonia root rot or "damping-off"	<i>Rhizoctonia</i> sp./spp.	1
	Total for Viburnum, Sweet		1
Weigela			
	Olive - Cercospora leaf spot	<i>Cercospora cladosporioides</i>	1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Weigela		2



**TREE - FOREST/CHRISTMAS TREE**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Fraser Fir			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Total for Fraser Fir		1
Longleaf Pine			
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Longleaf Pine		1
Palm, Areca			
	No pest or disease of concern found	Identification Analysis	1
	Total for Palm, Areca		1
Palm, Sabal			
	Unknown	General	1
	Total for Palm, Sabal		1
Slash Pine			
	Lophodermium needle cast	<i>Lophodermium pinastri</i>	1
	Total for Slash Pine		1

**TREE - SHADE/CONIFER**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Alaskan Cedar			
	Environmental/Cutural		1
	Total for Alaskan Cedar		1
Arborvitae			
	Blackberry - Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Environmental/cultural		2
	No Diagnosis or Sample Quality Entered		1
	Total for Arborvitae		4
Arborvitae, White (American) Cedar			
	No pathogen found	Identification Analysis	1
	No pest or disease of concern found	Identification Analysis	1
	No Diagnosis or Sample Quality Entered		1
	Total for Arborvitae, White (American) Cedar		3
Ash, Green			
	No Diagnosis or Sample Quality Entered		1
	Total for Ash, Green		1
Beech			
	No pathogen found	Identification Analysis	1
	Total for Beech		1
Cedar			
	No Diagnosis or Sample Quality Entered		1
	Total for Cedar		1
Cherry			
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1

	Phytophthora dieback; Blight	<i>Phytophthora</i> sp./spp.	1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Unknown	General	1
	Xanthomonas leaf spot	<i>Xanthomonas</i>	1
	Total for Cherry		5
Chinese fringetree			
	Root problem; root damage	Unidentified Agent	1
	Total for Chinese fringetree		1
Crabapple			
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Root problem; root damage	Unidentified Agent	1
	Unknown	General	1
	Total for Crabapple		3
Dogwood			
	Environmental/cultural		1
	Total for Dogwood		1
Eastern Hemlock			
	No pathogen found	Identification Analysis	1
	Rosellinia blight	<i>Rosellinia herpotrichoides</i>	1
	Total for Eastern Hemlock		2
Elm			
	Unknown	General	1
	Total for Elm		1
Flowering Dogwood			
	Canker; Stem blight; Dieback	<i>Botryosphaeria dothidea</i>	1
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Dogwood anthracnose	<i>Discula destructiva</i>	1
	Environmental/cultural		3
	Environmental/Cutural		1
	Unknown	General	1
	No Diagnosis or Sample Quality Entered		1
	Total for Flowering Dogwood		9

Green Giant Arborvitae			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Environmental/cultural		2
	Total for Green Giant Arborvitae		3
Japanese Lanceleaf Maple			
	No pathogen found	Identification Analysis	1
	Total for Japanese Lanceleaf Maple		1
Japanese Maple			
	Canker; Stem blight; Dieback	<i>Botryosphaeria dothidea</i>	1
	Environmental/cultural		1
	Insect damage	Class Insecta	1
	No pathogen found	Identification Analysis	1
	Root problem; root damage	Unidentified Agent	1
	No Diagnosis or Sample Quality Entered		2
	Total for Japanese Maple		7
Juniper			
	Environmental/cultural		1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Total for Juniper		2
Leyland Cypress			
	Environmental/cultural		2
	Environmental/Cutural		1
	Passalora needle blight	<i>Passalora sequoiae</i>	1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Root problem; root damage	Unidentified Agent	1
	No Diagnosis or Sample Quality Entered		1
	Total for Leyland Cypress		7
London Planetree			
	No pest or disease of concern found	Identification Analysis	1
	Total for London Planetree		1
Loquat			
	No Diagnosis or Sample Quality		1

	Entered		
	Total for Loquat		1
Magnolia			
	Environmental/Cutural		1
	Total for Magnolia		1
Magnolia, Southern			
	Environmental/cultural		1
	Environmental/Cutural		1
	Total for Magnolia, Southern		2
Maple			
	Wound canker	Abiotic disorder	1
	Total for Maple		1
Oak			
	Environmental/cultural		1
	Fusarium		1
	Insect damage	Class Insecta	1
	Unknown	General	2
	No Diagnosis or Sample Quality Entered		1
	Total for Oak		6
Pear			
	Environmental/cultural		1
	Fire blight	<i>Erwinia amylovora</i>	1
	Insect damage	Class Insecta	1
	No pathogen found	Identification Analysis	1
	Unknown	General	1
	Total for Pear		5
Pine			
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Rhizoctonia spp.	<i>Rhizoctonia</i>	1
	No Diagnosis or Sample Quality Entered		1
	Total for Pine		3
Pine, Loblolly			

	Fusarium stem; Root rot	<i>Fusarium</i> sp./spp.	1
	Wound canker	Abiotic disorder	1
	Total for Pine, Loblolly		2
Pine, Mugo			
	Lophodermium leaf spot; Needle cast	<i>Lophodermium</i> sp./spp.	1
	Total for Pine, Mugo		1
Post Oak			
	No Diagnosis or Sample Quality Entered		1
	Total for Post Oak		1
Red Maple			
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Cryptosporiopsis canker	<i>Pezicula/Neofabraea</i> sp./spp.	1
	Thread blight	<i>Ceratobasidium ochroleucum</i>	1
	No Diagnosis or Sample Quality Entered		1
	Total for Red Maple		4
Red Oak			
	Environmental/cultural		1
	Leaf spot	<i>Tubakia</i> sp./spp.	1
	Root damage	Abiotic disorder	1
	Total for Red Oak		3
Redbud			
	Environmental/cultural		1
	Total for Redbud		1
Sawtooth Oak			
	Unknown	General	1
	Total for Sawtooth Oak		1
Smooth Arizona Cypress; Carolina Sapphire			
	No pathogen found	Identification Analysis	1
	No Diagnosis or Sample Quality Entered		1

	Total for Smooth Arizona Cypress; Carolina Sapphire		2
Water Oak			
	No Diagnosis or Sample Quality Entered		1
	Total for Water Oak		1
White oak			
	Insect damage	Class Insecta	1
	Wound canker	Abiotic disorder	1
	Total for White oak		2
Willow			
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1
	Total for Willow		1

**TURFGRASS**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Bahia			
	Bipolaris Leaf spot	<i>Bipolaris cynodontis</i>	1
	Dollar spot	<i>Clariireedia spp</i>	1
	Rhizoctonia	<i>spp</i>	1
	Total for Bahia		3
Bentgrass			
	Environmental/cultural		1
	Excessive thatch layer		1
	Pythium sp.	<i>Pythium</i>	2
	Root and Crown Rot	<i>Pythium spp.</i>	1
	Shallow root system		1
	Total for Bentgrass		6
bermudagrass			
	Bipolaris Leaf spot	<i>Bipolaris cynodontis</i>	6
	Dollar spot	<i>Clariireedia spp</i>	1
	Environmental/cultural		10
	Environmental/Cutural		1
	Excessive thatch layer		3
	Insect damage	Class Insecta	1
	Leaf and sheath spot	<i>Rhizoctonia zeae</i>	1
	Leaf spot	<i>Drechslera</i>	1
	Melting out	<i>Drechslera</i>	2
	Nematodes		1
	Nutritional imbalance		2
	Pythium sp.	<i>Pythium</i>	1
	Rhizoctonia	<i>spp</i>	3
	Rhizoctonia Large Patch	<i>Rhizoctonia Solani</i>	5
	Root and Crown Rot	<i>Pythium spp</i>	2
	Root and Crown Rot	<i>Pythium spp.</i>	4
	Take All Root Rot	<i>Gaeumannomyces graminis</i>	4
	Total for bermudagrass		48
Bermudagrass, Tifeagle			
	Bipolaris Leaf spot	<i>Bipolaris cynodontis</i>	2



	Environmental/cultural		1
	Nematodes		1
	Poor root system		2
	Pythium sp.	<i>Pythium</i>	3
	Root Rot	<i>Pythium</i>	1
	Shallow root system		2
	Total for Bermudagrass, Tifeagle		12
Centipedegrass			
	Bipolaris Leaf spot	<i>Bipolaris cynodontis</i>	1
	Environmental/cultural		10
	Environmental/Cutural		10
	Fairy Ring	Basidiomycetes	1
	No pathogen found	Identification Analysis	1
	Rhizoctonia	<i>spp</i>	2
	Rhizoctonia Large Patch	<i>Rhizoctonia Solani</i>	7
	Root Rot	<i>Pythium</i>	3
	Take All Root Rot	<i>Gaeumannomyces graminis</i>	2
	Total for Centipedegrass		37
Creeping Bentgrass			
	Anthrachnose	<i>Colletotrichum spp.</i>	1
	Pythium sp.	<i>Pythium</i>	1
	Total for Creeping Bentgrass		2
Fescue			
	Environmental/cultural		4
	Total for Fescue		4
Grass, turf			
	Environmental/cultural		7
	Environmental/Cutural		1
	Melting out	<i>Drechslera</i>	2
	Rhizoctonia Large Patch	<i>Rhizoctonia Solani</i>	2
	Root and Crown Rot	<i>Pythium spp.</i>	1
	Root problem; root damage	Unidentified Agent	1
	Rust		2
	Take All Root Rot	<i>Gaeumannomyces graminis</i>	2
	No Diagnosis or Sample Quality Entered		1
	Total for Grass, turf		19

St. Augustinegrass			
	Environmental/cultural		9
	Environmental/Cutural		1
	Gray leaf spot		3
	Insect damage	Class Insecta	1
	Large patch	<i>Rhizoctonia solan</i>	1
	Rhizoctonia Large Patch	<i>Rhizoctonia Solani</i>	7
	Root Rot	<i>Pythium</i>	1
	Take All Root Rot	<i>Gaeumannomyces graminis</i>	12
	No Diagnosis or Sample Quality Entered		2
	Total for St. Augustinegrass		37
Zoysia			
	Dollar spot	<i>Clariireedia spp</i>	3
	Environmental/cultural		17
	Environmental/Cutural		5
	Excessive thatch layer		2
	Fairy Ring	Basidiomycetes	4
	Melting out	<i>Drechslera</i>	7
	Nutritional imbalance		1
	Pythium sp.	<i>Pythium</i>	1
	Rhizoctonia	<i>spp</i>	1
	Rhizoctonia Large Patch	<i>Rhizoctonia Solani</i>	12
	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1
	Root and Crown Rot	<i>Pythium spp.</i>	4
	Root Rot	<i>Pythium</i>	1
	Rust		1
	Take All Root Rot	<i>Gaeumannomyces graminis</i>	6
	No Diagnosis or Sample Quality Entered		1
	Total for Zoysia		67

**VEGETABLE**

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>#</b>
Bean, green			
	Chemical injury	Abiotic disorder	1
	Environmental/cultural		1
	Unknown	General	1
	Total for Bean, green		3
Bean, snap			
	Pythium sp.	<i>Pythium</i>	2
	Total for Bean, snap		2
Bok Choy; Chinese Cabbage			
	No pathogen found	Identification Analysis	1
	Total for Bok Choy; Chinese Cabbage		1
Broccoli			
	No pathogen found	Identification Analysis	1
	Total for Broccoli		1
Cabbage			
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1
	Black rot	<i>Xanthomonas campestris</i>	1
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	2
	No pathogen found	Identification Analysis	5
	Pseudomonas spp	<i>Pseudomonas</i>	1
	Pythium sp.	<i>Pythium</i>	2
	Rhizoctonia	<i>spp</i>	1
	Unknown	General	1
	Total for Cabbage		14
Cantalope; Cantaloupe			
	Gummy Stem blight	<i>Staganosporopsis</i>	1
	Phytophthora		1
	Total for Cantalope; Cantaloupe		2
Carrot			

	No pathogen found	Identification Analysis	1
	No Diagnosis or Sample Quality Entered		1
	Total for Carrot		2
Cauliflower			
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1
	Cucumber mosaic (CMV)	Cucumovirus Cucumber Mosaic Virus	1
	<i>Pseudomonas marginalis</i>	<i>Pseudomonas marginalis</i>	1
	Total for Cauliflower		3
Collards			
	No pathogen found	Identification Analysis	2
	<i>Pseudomonas</i> spp	<i>Pseudomonas</i>	1
	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1
	Unknown	General	1
	No Diagnosis or Sample Quality Entered		1
	Total for Collards		6
Cucumber			
	Citrus - Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1
	Downy mildew	<i>Pseudoperenoposa cubensis</i>	1
	Nutritional pathology	Abiotic disorder	1
	<i>Pseudomonas</i> spp.	<i>Pseudomonas</i>	1
	Total for Cucumber		5
Eggplant			
	No pathogen found	Identification Analysis	1
	Total for Eggplant		1
Garlic			
	Bulb mite	<i>Rhizoglyphus</i> sp./spp.	1
	Total for Garlic		1
Kale			
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	1
	Black rot	<i>Xanthomonas campestris</i>	1
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1
	No pathogen found	Identification Analysis	1

	Rhizoctonia root and stem rot	<i>Rhizoctonia solani</i>	1
	Total for Kale		5
Kohlrabi; Wild Cabbage			
	No pathogen found	Identification Analysis	1
	Total for Kohlrabi; Wild Cabbage		1
Lettuce			
	No pathogen found	Identification Analysis	1
	Thrips	Order Thysanoptera	1
	No Diagnosis or Sample Quality Entered		1
	Total for Lettuce		3
Mustard greens			
	Crucifer leaf spot	<i>Cercospora</i>	1
	No Diagnosis or Sample Quality Entered		1
	Total for Mustard greens		2
Okra			
	Fusarium wilt	<i>Fusarium oxysporum</i>	1
	Unknown	General	1
	Total for Okra		2
Onion			
	Black Mold	<i>Aspergillus niger</i>	1
	No pathogen found	Identification Analysis	1
	Pseudomonas spp	<i>Pseudomonas</i>	2
	Sour Skin	<i>Burkholderia cepacia</i>	1
	No Diagnosis or Sample Quality Entered		2
	Total for Onion		7
Pepper			
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	3
	Bacterial soft rot	<i>Erwinia sp./spp.</i>	1
	Choanephora fruit rot	<i>Choanephora</i>	1
	Crown rot; Root rot; Stem rot	<i>Phytophthora sp./spp.</i>	6
	Environmental/Cutural		1
	No pathogen found	Identification Analysis	2
	Phytophthora		1

	Stemphylium leaf spot	<i>Stemphylium</i> sp./spp.	2
	Xanthomonas leaf spot	<i>Xanthomonas</i>	1
	Total for Pepper		18
Pepper, Bell			
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1
	Phytophthora		1
	Phytophthora root rot	<i>Phytophthora</i> sp./spp.	1
	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	1
	Total for Pepper, Bell		4
Potato			
	Bacterial soft rot	<i>Pectobacterium</i> sp./spp.	1
	Total for Potato		1
Squash			
	Downy mildew	<i>Pseudoperenoposa cubensis</i>	1
	Environmental/cultural		2
	No pathogen found	Identification Analysis	3
	Powdery mildew	<i>Podosphaera xanthii</i>	1
	Total for Squash		7
Squash, all varieties			
	Environmental/Cutural		1
	Total for Squash, all varieties		1
Tomato			
	Alternaria leaf blight and head rot	<i>Alternaria</i>	1
	Bacterial wilt suspect		8
	Chemical injury	Abiotic disorder	5
	Environmental/cultural		1
	Environmental/Cutural		1
	Insect damage	Class Insecta	1
	Leaf mold	<i>Passalora fulva</i>	4
	No pathogen found	Identification Analysis	8
	Pseudomonas spp	<i>Pseudomonas</i>	1
	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.	1
	Southern Blight of tomato	<i>Sclerotium rolfsii</i>	3
	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	6

	Unknown	General	3
	Xanthomonas leaf spot	<i>Xanthomonas</i>	1
	Xanthomonas spp.	<i>Xanthomonas</i>	1
	No Diagnosis or Sample Quality Entered		1
	Total for Tomato		46
Turnip			
	Erwinia soft rot	<i>Erwinia</i>	1
	Total for Turnip		1
Watermelon			
	Anthraxnose	<i>Colletotrichum spp.</i>	1
	Bacterial fruit blotch	<i>Acidovorax citrulli</i>	10
	Botrytis	<i>Botrytis cinerea</i>	1
	Crown rot; Root rot; Stem rot	<i>Phytophthora sp./spp.</i>	1
	Environmental/cultural		1
	Fusarium wilt	<i>Fusarium oxysporum</i>	5
	Gummy Stem blight	<i>Staganosporopsis</i>	7
	No pathogen found	Identification Analysis	9
	Nutritional pathology	Abiotic disorder	1
	Physiological responses	Abiotic disorder	3
	Powdery mildew	<i>Podosphaera xanthii</i>	1
	Pseudomonas spp	<i>Pseudomonas</i>	2
	Pseudomonas spp.		1
	Pythium sp.		2
	Pythium sp.	<i>Pythium</i>	4
	Rhizoctonia	<i>spp</i>	1
	Rhizoctonia spp.	<i>Rhizoctonia</i>	1
	Spider mites	Family Tetranychidae	1
	Sunscald	Abiotic disorder	1
	Xanthomonas leaf spot	<i>Xanthomonas</i>	1
	No Diagnosis or Sample Quality Entered		2
	Total for Watermelon		56
Zucchini Squash			
	Crown rot; Root rot; Stem rot	<i>Phytophthora sp./spp.</i>	1
	Downy mildew	<i>Pseudoperenoposa cubensis</i>	1
	Total for Zucchini Squash		2

**NO CROP TYPE SPECIFIED**

HOST	DISEASE	CAUSAL ORGANISM	#
Carpetgrass			
	Environmental/cultural		1
	Rhizoctonia Large Patch	Rhizoctonia solani	1
	Total for Carpetgrass		2
Cryptomeria			
	No Diagnosis or Sample Quality Entered		1
	Total for Cryptomeria		1
Habanero Pepper; Datil Pepper			
	Crown rot; Root rot; Stem rot	Phytophthora sp./spp.	1
	Total for Habanero Pepper; Datil Pepper		1
Indian Hawthorn			
	Entomosporium leaf spot	Diplocarpon sp./spp.	1
	Total for Indian Hawthorn		1
Little bluestem			
	No Diagnosis or Sample Quality Entered		1
	Total for Little bluestem		1
multiple			
	Chemical injury	Abiotic disorder	1
	Unknown	General	1
	Total for multiple		2
Oriental Sesame			
	Alternaria leaf spot	Alternaria sp./spp.	1
	Corynespora leaf spot	Corynespora sp./spp.	2
	Total for Oriental Sesame		3
Osmanthus			



	Chemical injury	Abiotic disorder	1
	Total for Osmanthus		1
Pink muhlygrass			
	No Diagnosis or Sample Quality Entered		1
	Total for Pink muhlygrass		1
Prairie Dropseed			
	No Diagnosis or Sample Quality Entered		1
	Total for Prairie Dropseed		1
Saw Palmetto			
	No pathogen found	Identification Analysis	1
	Total for Saw Palmetto		1
Sweet Flag; Myrtle Flag			
	Phytophthora root rot	Phytophthora sp./spp.	1
	Total for Sweet Flag; Myrtle Flag		1
Sweetgum			
	Environmental/cultural		1
	Total for Sweetgum		1
Texas Sedge			
	No Diagnosis or Sample Quality Entered		1
	Total for Texas Sedge		1
NO CROP TYPE SPECIFIED			
HOST	DISEASE	CAUSAL ORGANISM	#
Carpetgrass			
	Environmental/cultural		1
	Rhizoctonia Large Patch	Rhizoctonia solani	1
	Total for Carpetgrass		2

Cryptomeria			
	No Diagnosis or Sample Quality Entered		1
	Total for Cryptomeria		1

**13 SAMPLES WITH NO HOST SPECIFIED**