

# Plant Disease Clinic Annual Report 2012



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## 2012 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. 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, and turf; Christmas trees and forestry; all homeowner samples; legume forages, small grains, mushroom identification and wood rots. 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 field crops, grain forages, pecans, and vegetables.

In 2012, 747 commercial plant samples were processed for diagnosis at Athens and 684 commercial plant samples were processed for diagnosis at Tifton. For the homeowners, 393 samples were analyzed.

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: 2012 PLANT SPECIMEN DIAGNOSES

Crop	Commercial Samples	Homeowner Samples	Total
Field Crops	387	3	390
Fruits and Nuts	188	44	232
Herbaceous Ornamentals	100	27	127
Miscellaneous	6	6	12
Trees	28	44	72
Turf	319	169	488
Vegetables	288	50	338
Woody Ornamentals	117	58	175
<b>Total*</b>	<b>1433</b>	<b>401</b>	<b>1834</b>

\*The total number of diagnoses shown here is larger than the total number of samples received (shown by Monthly Sample Submission) because some samples have more than one problem or diagnosis.

The largest crop category for Commercial clinic submissions was Field Crops, followed by Turf and then Vegetables. The largest crop category for Homeowner clinic submission was Turf, followed by Woody Ornamentals and then Fruits and Nuts and Trees.

### MONTHLY SAMPLE SUBMISSION SUMMARY: 2012

<b>Month</b>	<b>Commercial Samples</b>	<b>Homeowner Samples</b>
January	14	3
February	48	4
March	71	29
April	128	42
May	168	77
June	172	62
July	132	28
August	176	32
September	125	15
October	126	42
November	42	5
December	10	3
<b>Total</b>	<b>1212</b>	<b>342</b>

**DISTRIBUTION OF COMMERCIAL SAMPLES SUBMITTED BY COUNTY FOR 2012**

County	Samples	County	Samples	County	Samples
Appling	25	Effingham	18	NA	166
Atkinson	7	Elbert	2	Newton	4
Bacon	27	Emanuel	11	Oconee	4
Banks	2	Evans	14	Oglethorpe	2
Barrow	2	Fayette	8	Paulding	4
Bartow	3	Floyd	8	Peach	12
Ben Hill	6	Forsyth	8	Pickens	3
Berrien	61	Franklin	1	Pierce	13
Bibb	21	Fulton	16	Pike	1
Brantley	4	Glynn	1	Polk	2
Brooks	4	Gordon	1	Pulaski	15
Bryan	1	Grady	5	Putnam	2
Bulloch	5	Greene	1	Rabun	1
Burke	3	Gwinnett	16	Richmond	17
Calhoun	2	Habersham	3	Seminole	12
Camden	1	Hall	3	Spalding	3
Candler	7	Harris	10	Stephens	1
Carroll	4	Hart	1	Sumter	24
Catoosa	1	Henry	5	Tattnall	4
Chatham	13	Houston	1	Taylor	8
Cherokee	5	Irwin	9	Telfair	6
Clarke	25	Jackson	4	Terrell	4
Clinch	1	Jenkins	1	Tift	35
Cobb	16	Johnson	1	Toombs	8
Coffee	24	Jones	3	Treutlen	3
Colquitt	25	Lanier	13	Troup	3
Columbia	23	Laurens	23	Turner	12
Cook	20	Lee	1	Walker	1
Coweta	8	Lowndes	27	Walton	6
Crawford	7	Macon	26	Ware	4
Dawson	3	Madison	3	Washington	8
Decatur	4	Marion	6	Wayne	10
DeKalb	25	McDuffie	26	Webster	10
Dodge	3	Meriwether	1	Wheeler	2
Dooley	6	Miller	21	Wilcox	7
Dougherty	6	Mitchell	1	Wilkes	2
Douglas	16	Montgomery	5	Worth	8
Early	3	Morgan	10		
Echols	3	Muscogee	10		

**DISTRIBUTION OF HOMEOWNER SAMPLES SUBMITTED BY COUNTY FOR 2012**

County	Samples		County	Samples
Appling	8		Liberty	1
Ben Hill	1		Madison	5
Bibb	24		Monroe	12
Bulloch	4		Montgomery	2
Burke	1		Morgan	7
Carroll	5		Murray	3
Chatham	4		NA	1
Cherokee	4		Newton	9
Clarke	19		Oconee	5
Cobb	21		Paulding	4
Columbia	4		Pierce	6
Coweta	6		Pike	1
Dade	4		Rabun	1
Dawson	4		Richmond	12
Decatur	1		Rockdale	7
DeKalb	4		Spalding	1
Dodge	1		Sumter	5
Dougherty	11		Thomas	5
Douglas	1		Union	2
Elbert	2		Unknown	4
Fannin	10		Upson	1
Fayette	6		Walton	1
Floyd	1		Ware	2
Forsyth	3		Whitfield	2
Fulton	17			
Gordon	1			
Greene	1			
Gwinnett	8			
Hall	1			
Harris	2			
Henry	22			
Jackson	9			
Jasper	5			
Jeff Davis	2			
Jefferson	3			
Jenkins	1			
Jones	4			
Laurens	10			
Lee	7			

## CROP SUMMARIES

The following sections contain summaries of diagnosed samples by crop category.

**C:** Commercial

**H:** Homeowner

### FIELD CROPS

(Total Diagnoses 390: C=387; H=3)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Alfalfa C = 1 H = 0	Leptosphaerulina Leaf Spot	<i>Leptosphaerulina</i> sp./spp.	1	0
Annual Ryegrass C = 1 H = 0	Environmental Stress; Problem	Abiotic disorder	1	0
Bahiagrass C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Barley C = 1 H = 0	Spot Blotch	<i>Cochliobolus</i> sp./spp.	1	0
Bermudagrass C = 9 H = 0	Helminthosporium Leaf Spot	<i>Cochliobolus (Bipolaris) cynodontis</i>	2	0
	Pink Snow Mold; Fusarium Patch	<i>Monographella (Microdochium) nivalis (nivale)</i>	1	0
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces graminis</i>	1	0
	Leaf Rust; rust	<i>Puccinia</i> sp./spp.	2	0
	Insect Damage	Unidentified Insect	1	0
	No Pathogen Found	No Pathogen Found	1	0
			<i>Bipolaris</i> sp./spp.	1
Clover C = 1 H = 0	Sclerotinia Stem/ Crown or Root Rot	<i>Sclerotinia trifoliorum</i>	1	0
Common Wheat C = 20 H = 0	Powdery Mildew	<i>Erysiphe</i> sp./spp.	2	0
	Fusarium Stem Rot	<i>Fusarium</i> sp./spp.	1	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Hessian Fly	<i>Mayetiola destructor</i>	1	0
	Environmental Stress; Problem	Abiotic disorder	1	0

	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
	Leaf Rust; rust	<i>Puccinia</i> sp./spp.	1	0
	Tan Spot; Yellow Leaf Spot	<i>Pyrenophora</i> (ana. <i>Drechslera</i> ) <i>tritici-repentis</i>	1	0
	Insufficient Sample	Identification Analysis	2	0
	No Pathogen Found	No Pathogen Found	6	0
		<i>Fusarium</i> sp./spp.	1	0
		Wheat Soil-borne Mosaic Virus (WSBMV)	1	0
Corn C = 88 H = 0	Southern Leaf Blight	<i>Cochliobolus</i> (ana. <i>Bipolaris</i> ) <i>heterostrophus</i> ( <i>maydis</i> )	3	0
	Unknown	General	10	0
	Charcoal Rot	<i>Macrophomina</i> <i>phaseolina</i>	1	0
	Fusarium Ear Rot	<i>Fusarium</i> sp./spp.	2	0
	Fusarium Stem Rot	<i>Fusarium</i> sp./spp.	2	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Common Corn Rust	<i>Puccinia sorghi</i>	9	0
	Smut	<i>Ustilago</i> sp./spp.	5	0
	Chemical Injury	Abiotic disorder	11	0
	Genetic Disorders	Abiotic disorder	1	0
	Corn Eyespot	<i>Kabatiella</i> ( <i>Aureobasidium</i> ) <i>zeae</i>	1	0
	Northern Corn Leaf Blight; Leaf Spot	<i>Setosphaeria</i> ( <i>Exserohilum</i> ) <i>turcica</i> ( <i>turcicum</i> )	16	0
	Southern Corn Rust	<i>Puccinia polysora</i>	9	0
	No Pathogen Found	No Pathogen Found	10	0
		Abiotic disorder	6	0
	Complex of Biotic; Abiotic Factors	1	0	
Corn (Seed) C = 6 H = 0	Unknown	General	1	0
	Smut	<i>Ustilago</i> sp./spp.	1	0
	Northern Corn Leaf Blight; Leaf Spot	<i>Setosphaeria</i> ( <i>Exserohilum</i> ) <i>turcica</i> ( <i>turcicum</i> )	2	0
	Southern Corn Rust	<i>Puccinia polysora</i>	1	0
	No Pathogen Found	No Pathogen Found	1	0
Cotton C = 79 H = 0	Cotton Boll Rot; Seedling Bl't	<i>Colletotrichum indicum</i>	2	0
	Ascochyta Blight	<i>Ascochyta gossypii</i>	1	0
	Fusarium Wilt	<i>Fusarium oxysporum</i>	2	0
	Unknown	General	13	0
	Cotton Boll Rot	<i>Botryosphaeria</i> ( <i>Diplodia</i> ) <i>rhodina</i> ( <i>natalensis</i> )	5	0

	Charcoal Rot	<i>Macrophomina phaseolina</i>	1	0
	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	3	0
	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	6	0
	Corynespora Leaf Spot	<i>Corynespora</i> sp./spp.	5	0
	Corynespora Leaf Spot	<i>Corynespora cassiicola</i>	12	0
	Stemphylium Leaf Spot	<i>Stemphylium</i> sp./spp.	16	0
	Chemical Injury	Abiotic disorder	1	0
	Nutritional Deficiency	Abiotic disorder	1	0
	Boll Rot	Various fungi	1	0
	No Pathogen Found	No Pathogen Found	7	0
		Unknown Agent	2	0
		Unknown cause	1	0
Grain Sorghum C = 4 H = 0	Anthracnose	<i>Colletotrichum graminicola</i>	1	0
	Charcoal Rot	<i>Macrophomina phaseolina</i>	1	0
	Fusarium Stem Rot	<i>Fusarium</i> sp./spp.	1	0
	No Pathogen Found	No Pathogen Found	1	0
Oats C = 5 H = 0	Environmental Stress; Problem	Abiotic disorder	2	0
	Helminthosporium Diseases	<i>Pyrenophora</i> (ana. <i>Drechslera</i> ) sp./spp.	1	0
	No Pathogen Found	No Pathogen Found	2	0
Peanut C = 73 H = 0	Anthracnose	<i>Glomerella</i> sp./spp.	1	0
	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	1	0
	Unknown	General	16	0
	Cylindrocladium Black Rot	<i>Cylindrocladium parasiticum</i>	4	0
	Collar Rot	<i>Diplodia</i> sp./spp.	1	0
	Aspergillus Crown Rot	<i>Aspergillus niger</i>	1	0
	Rhizoctonia Root and Stem Rot	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	2	0
	Southern Stem Rot	<i>Sclerotium rolfsii</i>	4	0
	Rhizoctonia Stem Rot	<i>Rhizoctonia</i> sp./spp.	2	0
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	3	0
	Chemical Injury	Abiotic disorder	5	0
	Unknown Abiotic Disorder	Abiotic disorder	2	0
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
Early Leaf Spot	<i>Mycosphaerella</i> (ana. <i>Cercospora</i> ) <i>arachidis</i> (	8	0	



		<i>arachidicola</i> )		
	Leaf Scorch; Pepper Spot	<i>Leptosphaerulina crassiasca</i>	3	0
	Neocosmospora Root or Fruit Rot	<i>Neocosmospora vasinfecta</i>	1	0
	Late Leaf Spot	<i>Mycosphaerella</i> (ana. <i>Passalora</i> ) <i>berkeleyi</i> ( <i>personata</i> )	2	0
	Insufficient Sample	Identification Analysis	1	0
	No Pathogen Found	No Pathogen Found	5	0
		<i>Aspergillus flavus</i>	2	0
		<i>Lasiodiplodia</i> ( <i>Botryodiplodia</i> ) <i>theobromae</i>	1	0
		No Pathogen Found	3	0
		Unknown cause	2	0
	Rhizoctonia limb rot	<i>Rhizoctonia solani</i>	1	0
	Rhizoctonia limb rot	<i>Rhizoctonia solani</i>	1	0
Pecan C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Ryegrass C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Soybean C = 52 H = 0	Anthracnose	<i>Glomerella</i> sp./spp.	1	0
	Southern Stem Blight	<i>Sclerotium rolfsii</i>	1	0
	Soybean Bacterial Pustule	<i>Xanthomonas campestris</i>	3	0
	Downy Mildew	<i>Peronospora</i> sp./spp.	6	0
	Soybean Downy Mildew	<i>Peronospora manshurica</i>	4	0
	Unknown	General	9	0
	Charcoal Rot	<i>Macrophomina phaseolina</i>	1	0
	Australasian Soybean Rust	<i>Phakopsora pachyrhizi</i>	7	0
	Chemical Injury	Abiotic disorder	1	0
	Pod and Stem Blight	<i>Diaporthe</i> ( <i>Phomopsis</i> ) sp./spp.	2	0
	No Pathogen Found	No Pathogen Found	15	0
		No Pathogen Found	1	0
	Unknown cause	1	0	
Sunflower C = 1 H = 0	Rhizopus Head Rot	<i>Rhizopus</i> sp./spp.	1	0
Tobacco (Flue-	Unknown	General	2	0

cured) C = 41 H = 0	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	2	0
	Black Shank	<i>Phytophthora nicotianae</i>	4	0
	Collar Rot	<i>Sclerotinia sp./spp.</i>	1	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Tobacco Etch	Tobacco Etch Virus (TEV)	2	0
	Tobacco Mosaic	Tobacco Mosaic Virus (TMV)	3	0
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	5	0
	Sclerotinia Rot	<i>Sclerotinia sclerotiorum</i>	1	0
	Potato Virus Y	Potato Virus Y (PVY)	2	0
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	2	0
	Pythium Damping Off	<i>Pythium sp./spp.</i>	5	0
	Rhizoctonia Foliar/ Aerial/ Web Blight	<i>Rhizoctonia solani</i>	2	0
	No Pathogen Found	No Pathogen Found	7	0
		<i>Alternaria sp./spp.</i>	1	0
		Potato Virus Y (PVY)	1	0
Unknown; No Site Specified C = 1 H = 3	Insufficient Sample	Identification Analysis	1	0
		Unknown cause	0	3
Wheat C = 1 H = 0	Chemical Injury	Abiotic disorder	1	0

**FRUITS AND NUTS**

(Total Diagnoses 232: C=188; H=44)

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>C</b>	<b>H</b>
Blackberry C = 12 H = 3	Cane Blotch	<i>Cephaleuros</i> sp./spp.	1	0
	Unknown	General	1	0
	Orange Rust	<i>Gymnoconia nitens</i>	1	0
	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	0	1
	Eriophyid Mites	Family Eriophyidae	2	0
	Raspberry Cane Borer	<i>Oberea bimaculata</i>	0	1
	Unknown Abiotic Disorder	Abiotic disorder	1	0
	Canker	Dieback; Leaf Blight	1	1
	Cane and Leaf Rust	<i>Kuehneola</i> sp./spp.	1	0
		<i>Botryosphaeria</i> sp./spp.	1	0
		<i>Cephaleuros virescens</i>	2	0
		<i>Mycosphaerella (Septoria) rubi</i>	0	1
	Unknown cause	1		
Blueberry C = 60 H = 5	Unknown	General	8	1
	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp./spp.	1	1
	Septoria Leaf Spot	<i>Septoria</i> sp./spp.	1	0
	Blueberry Red Ringspot	Blueberry Red Ringspot Virus (BRRV)	2	0
	Chemical Injury	Abiotic disorder	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	2
	Nutrient Imbalance	Abiotic disorder	2	1
	Scorch	Abiotic disorder	1	0
	Environmental Stress; Problem	Abiotic disorder	1	0
	Drought Stress Damage	Abiotic disorder	1	0
	Unknown Abiotic Disorder	Abiotic disorder	5	0
	Freeze; Frost; Cold Damage	Abiotic disorder	1	0
	Hemlock-Blueberry Rust	<i>Thekopsora minima</i>	5	0
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	2	0
	Dieback; Canker; Twig Blight	<i>Botryosphaeria</i> sp./spp.	1	0
	Canker	Dieback; Leaf Blight	1	1
	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	1	0
	Undetermined Injury or Pest	Identification Analysis	1	0
	No Pathogen Found	No Pathogen Found	1	0
	Blueberry Necrotic Ring Blotch	Blueberry Necrotic Ring Blotch Disorder virus suspected	3	0
	Abiotic disorder	2	0	

		<i>Alternaria</i> sp./spp.	2	0
		Blueberry Necrotic Ring Blotch Disorder virus suspected	4	0
		<i>Botryosphaeria</i> sp./spp.	6	0
		<i>Pestalotia</i> sp./spp.	4	0
		<i>Rhizoctonia</i> sp./spp.	1	0
		Unknown cause	2	0
Cherry C = 0 H = 2	Environmental Stress; Problem	Abiotic disorder	0	1
	Wound Canker	Abiotic disorder	0	1
Common Apple C = 0 H = 2	Sooty Blotch (Fruit)	<i>Gloeodes pomigena</i>	0	1
	Undetermined Injury or Pest	Identification Analysis	0	1
Common Fig	Winter Injury	Abiotic disorder	0	1
C = 0	Environmental Stress; Problem	Abiotic disorder	0	1
H = 4	Root Problems	Abiotic disorder	0	1
		<i>Gibberella (Fusarium)</i> sp./spp.	0	1
Crabapple C = 1 H = 1	Fire Blight	<i>Erwinia amylovora</i>	0	1
	Unknown	General	1	0
Domestic Apple C = 0 H = 1	Fire Blight	<i>Erwinia amylovora</i>	0	1
European Grape C = 1 H = 0	Grapevine Pierce's Disease (PD)	<i>Xylella fastidiosa</i> (PD)	1	0
Fig C = 1 H = 0	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
Grape C = 5 H = 8	Grape Downy Mildew	<i>Plasmopara viticola</i>	1	0
	Unknown	General	0	1
	Macrophoma Rot	<i>Botryosphaeria dothidea</i>	0	1
	Angular Leaf Spot	<i>Cercospora brachypus</i>	1	0
	Environmental Stress; Problem	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	0	1
	Black Rot	<i>Guignardia (Phyllosticta) bidwellii (ampelicida)</i>	1	3
	Spider Mite Injury	Unidentified Spider Mite	1	0

		Unknown cause	1	1
Japanese Persimmon C = 2 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
		<i>Botryosphaeria</i> sp./spp.	1	0
		Unidentified Wood Boring Insect	1	0
Mango C = 0 H = 1	Cultural/Environmental Problem	Abiotic disorder	0	1
Muscadine Grape C = 2 H = 2	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	2
	Unknown Abiotic Disorder	Abiotic disorder	1	0
Olive C = 2 H = 0	Freeze; Frost; Cold Damage	Abiotic disorder	1	0
		Abiotic disorder	1	0
Oval Kumquat (Chinese Orange) C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
Peach C = 4 H = 2	Unknown	General	1	0
	Chemical Injury	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	1	0
	Scale Insects	Order Homoptera	1	0
		<i>Rhizopus</i> sp./spp.	1	0
		Unknown cause	0	1
Pear C = 0 H = 3	Fire Blight	<i>Erwinia amylovora</i>	0	2
	Unknown Abiotic Disorder	Abiotic disorder	0	1
Pecan C = 58 H = 2	Anthracnose	<i>Gloeosporium</i> sp./spp.	3	0
	Anthracnose	<i>Glomerella</i> sp./spp.	2	0
	Anthracnose	<i>Glomerella (Colletotrichum) cingulata (gloeosporioides)</i>	4	0
	Phomopsis Blight	<i>Phomopsis</i> sp./spp.	1	0
	Pecan; Hickory Scab	<i>Cladosporium caryigenum</i>	6	0
	Unknown	General	2	1
	Mites	Order Acari	1	0
	Pecan Leaf Scorch Mite	<i>Eotetranychus hicoriae</i>	1	0
	Black Pecan Aphid	<i>Melanocallis caryaefoliae</i>	2	0
	Chemical Injury	Abiotic disorder	4	0
	Chemical; Environmental Injury	Abiotic disorder	1	0
Nutritional Deficiency	Abiotic disorder	3	0	

	Environmental Stress; Problem	Abiotic disorder	0	1
	Physiological Responses	Abiotic disorder	4	0
	Undetermined Injury or Pest	Identification Analysis	1	0
	No Pathogen Found	No Pathogen Found	13	0
		<i>Lasiodiplodia</i> ( <i>Botryodiplodia</i> ) <i>theobromae</i>	3	0
		<i>Lasiodiplodia</i> ( <i>Diplodia</i> ) <i>theobromae</i> ( <i>gossypina</i> )	2	0
		No Pathogen Found	3	0
		Unknown cause	2	0
Persimmon (Ornamental) C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
Plum C = 0 H = 2	Brown Rot	<i>Monilia</i> sp./spp.	0	1
	Nutrient Imbalance	Abiotic disorder	0	1
Pomegranate C = 13 H = 0	Anthrachnose Fruit Rot	<i>Colletotrichum</i> sp./spp.	4	0
	Crown and Root Rot	Pathogen complex	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	1
	No Pathogen Found	No Pathogen Found	1	0
		Abiotic disorder	1	0
		Complex of Biotic; Abiotic Factors	1	0
		No Pathogen Found	1	0
		<i>Pestalotia</i> sp./spp.	1	0
		Unknown cause	2	0
Raspberry C = 1 H = 2	Cultural/Environmental Problem	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	1	0
	Insect Damage	Unidentified Insect	0	1
Soybean C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Strawberry C = 25 H = 0	Unknown	General	2	0
	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Phytophthora Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia</i> sp./spp.	2	0
	Spider Mites	Family Tetranychidae	2	0
	Anthrachnose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	3	0
	Pythiaceus Root Rot	Family Pythiaceae	3	0
	Phytophthora Crown	Root and/or Stem Rot	5	5

	Phomopsis Leaf Blight	<i>Phomopsis obscurans</i>	1	0
		Abiotic disorder	1	0
		<i>Phytophthora cactorum</i>	4	0
Watermelon C = 0 H = 1	Unknown	General	0	1

**HERBACEOUS ORNAMENTALS**  
(Total Diagnoses 127: C=100; H=27)

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>C</b>	<b>H</b>
Agave C = 1 H = 0	Bacterial Soft Rot	<i>Pectobacterium carotovorum</i>	1	0
Asiatic Jasmine C = 1 H = 0	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia sp./spp.</i>	1	0
Begonia C = 6 H = 0	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	4	0
	Phytophthora Crown	Root and/or Stem Rot	1	1
	No Pathogen Found	No Pathogen Found	1	0
Black Mondo Grass C = 0 H = 2	Root Problems	Abiotic disorder	0	2
Butterfly-bush C = 1 H = 0	Phytophthora Crown	Root and/or Stem Rot	1	1
Chrysanthemum C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Coleus C = 2 H = 0	No Pathogen Found	No Pathogen Found	2	0
Copper-leaf C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Crowfoot Or Buttercup (Orna.) C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Dissotis C = 1 H = 0	Cercospora Leaf Spot	<i>Cercospora sp./spp.</i>	1	0
Double Impatiens C = 1 H = 0	Downy Mildew	<i>Plasmopara obducens</i>	1	0
Echinacea Coneflower	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia sp./spp.</i>	1	0



C = 1 H = 0				
Elephant Ear Plant C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
English Ivy C = 1 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
	No Pathogen Found	No Pathogen Found	1	0
Euphorbia C = 0 H = 1	Root Problems	Abiotic disorder	0	1
Garden Ginger C = 2 H = 0	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp./spp.	1	0
	Anthraco-nose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
Geranium ('cultivated') C = 9 H = 0	Saprophytic Fungus	<i>Chromelosporium</i> sp./spp.	1	0
	No Virus Found	No Virus Found	3	0
	No Pathogen Found	No Pathogen Found	3	0
		No Pathogen Found	2	0
Gerber Daisy (African Daisy) C = 0 H = 1	Powdery Mildew	<i>Oidium</i> sp./spp.	0	1
Heuchera C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
Hibiscus C = 3 H = 0	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	1	0
	Bacterial Leaf Spot	<i>Pseudomonas</i> sp./spp.	1	0
	Phytophthora Crown	Root and/or Stem Rot	1	1
Holly Fern C = 1 H = 0		No Pathogen Found	1	0
Hollyhock C = 0 H = 1	Mallow Rust; Hollyhock Rust	<i>Puccinia malvacearum</i>	0	1
Hosta C = 0 H = 1	Cultural/Environmental Problem	Abiotic disorder	0	1
Impatiens C = 6 H = 7	Downy Mildew	<i>Plasmopara obducens</i>	4	4
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	0	1
	No Virus Found	No Virus Found	1	0
	No Pathogen Found	No Pathogen Found	0	1

	Impatiens downy mildew	<i>Plasmopara obducens</i>	0	1
Ivy C = 1 H = 0		No Pathogen Found	1	0
Ivy Geranium C = 2 H = 0	No Virus Found	No Virus Found	1	0
		No Pathogen Found	1	0
Japanese Spurge C = 1 H = 0	Rhizoctonia Stem and Root Rot	Rhizoctonia sp./spp.	1	0
Jasmine C = 0 H = 4	Root Problems	Abiotic disorder	0	4
Johnny-Jump-Up C = 1 H = 0	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0
Kalanchoe C = 3 H = 0	No Virus Found	No Virus Found	1	0
	No Pathogen Found	No Pathogen Found	1	0
		No Pathogen Found	1	0
Lily Turf C = 2 H = 0	Phytophthora Crown	Root and/or Stem Rot	2	2
Lily-of-the-nile C = 2 H = 0	Fusarium Crown Rot	<i>Fusarium sp./spp.</i>	1	0
	Bacterial Soft Rot	Unidentified Bacterium	1	0
Lilyturf (Bordergrass) C = 3 H = 2	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	0
	Phytophthora Crown	Root and/or Stem Rot	2	2
Little Bluestem C = 1 H = 0	Tangle top	<i>Myriogenospora atramentosa</i>	1	0
Madagascar periwinkle; Vinca C = 6 H = 0	Aerial Stem Blight	<i>Phytophthora sp./spp.</i>	3	0
	Fusarium Stem Rot	<i>Fusarium sp./spp.</i>	1	0
	Alternaria Leaf Spot	<i>Alternaria sp./spp.</i>	1	0
	Phytophthora Crown	Root and/or Stem Rot	1	1
Mandevilla C = 2 H = 0	Fusarium Stem Rot	<i>Fusarium sp./spp.</i>	1	0
	Phytophthora Crown	Root and/or Stem Rot	1	1
Marigold	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia sp./spp.</i>	1	0

C = 2 H = 0	Phytophthora Crown	Root and/or Stem Rot	1	1
Mealy-cup (Blue) Salvia C = 1 H = 0	Phytophthora Crown	Root and/or Stem Rot	1	1
Mistflower C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Mondograss (Dwarf Lily Turf) C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Multiple hosts C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
New Guinea Impatiens C = 1 H = 0		No Pathogen Found	1	0
Oregano C = 2 H = 0	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Pansy C = 8 H = 3	Unknown	General	0	1
	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	2	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Environmental Stress; Problem	Abiotic disorder	0	1
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	2	1
	Phytophthora Crown	Root and/or Stem Rot	1	1
		Abiotic disorder	1	0
	No Pathogen Found	1	0	
Penstemon (Beard-tongue) C = 1 H = 0	Impatiens Necrotic Spot	Impatiens Necrotic Spot Virus (INSV)	1	0
Pentas C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Pepper C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Perennial Phlox		No Pathogen Found	1	0

C = 1 H = 0				
Petunias C = 2 H = 0	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	0
Pinks C = 1 H = 0		No Pathogen Found	1	0
Poinsettia C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Russian Sage C = 1 H = 0		No Pathogen Found	1	0
Shasta Daisy C = 1 H = 0	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
Sky Flower (Golden Dewdrop) C = 2 H = 0	Phytophthora Crown	Root and/or Stem Rot	1	1
	No Pathogen Found	No Pathogen Found	1	0
Snapdragon C = 1 H = 0	Phytophthora Stem Rot	<i>Phytophthora sp./spp.</i>	1	0
Stevia C = 1 H = 0	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
Stonecrop C = 1 H = 0		No Pathogen Found	1	0
Sunflower C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Thyme C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	0
Unknown; No Site Specified C = 0 H = 1	Unknown Abiotic Disorder	Abiotic disorder	0	1
Violas (Violet; Pansy)	Phytophthora Crown	Root and/or Stem Rot	1	1
		No Pathogen Found	1	0

C = 2 H = 0				
Woodland Sage C = 1 H = 0	Rhizoctonia Stem Rot	<i>Rhizoctonia</i> sp./spp.	1	0

**MISCELLANEOUS**

(Total Diagnoses 12: C=6; H=6)

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>C</b>	<b>H</b>
Fungus Id Request C = 1 H = 0	Birds Nest Fungus	Family Nidulariaceae	1	0
Household; Domestic Dwellings C = 1 H = 0		No Pathogen Found	1	0
Japanese Grass C = 0 H = 1	Japanese Stilt Grass	<i>Microstegium vimineum</i>	0	1
Pine C = 0 H = 1	Undetermined Injury or Pest	Identification Analysis	0	1
Potting Soil; growing media C = 1 H = 0		<i>Candida albicans</i>	1	0
Rape; Canola C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Rice C = 1 H = 0	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
Stevia C = 1 H = 0	Rhizoctonia Stem Rot	<i>Rhizoctonia sp./spp.</i>	1	0
Unknown; No Site Specified C = 0 H = 4	Unknown	General	0	3
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	0	1

## TREES

(Total Diagnoses 72: C=28; H=44)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Arborvitae C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
Arizona Cypress C = 1 H = 0	Poor Root Development	Abiotic disorder	1	0
Cherry-laurel C = 0 H = 1	Root Problems	Abiotic disorder	0	1
Chinese Lacebark elm C = 1 H = 0		Complex of Biotic; Abiotic Factors	1	0
Crabapple C = 4 H = 1	Fire Blight	<i>Erwinia amylovora</i>	4	1
Crape Myrtle C = 2 H = 0	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Leaf Spot	Unknown cause	1	0
Cryptomeria C = 0 H = 6	Cultural/Environmental Problem	Abiotic disorder	0	2
	Environmental Stress; Problem	Abiotic disorder	0	3
	No Pathogen Found	No Pathogen Found	0	1
Deodar Cedar C = 1 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
Dogwood C = 0 H = 2	Nutrient Imbalance	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
Eastern Red Cedar C = 2 H = 0	Decline; Dieback	Abiotic disorder	1	0
	No Pathogen Found	No Pathogen Found	1	0
Elm C = 0 H = 1	Unknown	General	0	1
Eucalyptus C = 0 H = 1		Unknown cause	0	1

Flowering Dogwood C = 1 H = 0	Insufficient Sample	Identification Analysis	1	0
Hemlock C = 0 H = 1	Cultural/Environmental Problem	Abiotic disorder	0	1
Japanese Dogwood (Kousa) C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Japanese Maple C = 2 H = 2	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Environmental Stress; Problem	Abiotic disorder	0	1
	Root Problems	Abiotic disorder	0	1
	No Pathogen Found	No Pathogen Found	1	0
Leyland Cypress C = 3 H = 2	Chemical Injury	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	0
	No Pathogen Found	No Pathogen Found	1	0
		No Pathogen Found	1	0
Live Oak C = 1 H = 0	Wood Boring Insect Damage	Unidentified Wood Boring Insect	1	0
Magnolia C = 0 H = 3	Chemical Injury	Abiotic disorder	0	1
	Leaf Spot; Black Mildew	<i>Sarcinella sp./spp.</i>	0	1
	Sooty Mold	Unidentified Fungus	0	1
Maple C = 0 H = 3	Cultural/Environmental Problem	Abiotic disorder	0	2
	Raffaelea Fungus	<i>Raffaelea sp./spp.</i>	1	0
Norway Maple C = 1 H = 0		No Pathogen Found	1	0
Oak C = 1 H = 8	Oak Leaf Blister	<i>Taphrina caerulescens</i>	0	3
	Unknown	General	0	1
	Herbicide Injury; Exposure	Abiotic disorder	0	1
	Insect Damage	Unidentified Insect	0	1
	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	1	0
	Undetermined Injury or Pest	Identification Analysis	0	1
		<i>Inonotus sp./spp.</i>	0	1
Pear C = 0	Fire Blight	<i>Erwinia amylovora</i>	0	3



H = 3				
Persimmon (Ornamental) C = 0 H = 2	Environmental Stress; Problem	Abiotic disorder	0	1
		<i>Botryosphaeria</i> sp./spp.	0	1
Pin Oak C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Pine C = 1 H = 0	Planting Too Deep	Abiotic disorder	1	0
Planetree (Sycamore) C = 2 H = 0	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	2	0
Red Maple C = 1 H = 0	Cryptosporiopsis Canker	<i>Cryptosporiopsis</i> sp./spp.	1	0
Red Oak C = 1 H = 0	Wood Decay Fungus	<i>Steccherinum ochraceum</i>	1	0
Red Oaks C = 0 H = 1		Abiotic disorder	0	1
River Birch C = 0 H = 1	Insect Damage	Unidentified Insect	0	1
Tulip Tree C = 0 H = 2	Tar Spot	<i>Rhytisma</i> sp./spp.	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
Unknown; No Site Specified C = 1 H = 0	Insufficient Sample	Identification Analysis	1	0
White Oak C = 0 H = 1	No Pathogen Found	No Pathogen Found	0	1
Willow C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1

**TURF**

(Total Diagnoses 488: C=319; H=169)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Bentgrass C = 43 H = 0	Brown Patch	<i>Rhizoctonia</i> sp./spp.	1	0
	Fairy Ring	Various fungi	1	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Algae	General	1	0
	Cultural/Environmental Problem	Abiotic disorder	1	0
	Environmental Stress; Problem	Abiotic disorder	1	0
	Anthracnose	<i>Colletotrichum cereale</i>	14	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	8	0
	Dollar Spot	<i>Sclerotinia homeocarpa</i>	1	0
	No Pathogen Found	No Pathogen Found	13	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Bermudagrass C = 4 H = 15	Anthracnose	<i>Gloeosporium</i> sp./spp.	0	1
	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	1
	Spring Dead Spot	<i>Ophiosphaerella</i> sp./spp.	0	1
	Bipolaris Spot Blotch	<i>Bipolaris</i> sp./spp.	1	0
	Slime Mold	Class myxomycetes; myxomycota	0	2
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	1
	Cultural/Environmental Problem	Abiotic disorder	0	9
	Large Patch	<i>Thanatephorus</i> ( <i>Rhizoctonia</i> ) <i>cucumeris</i> ( <i>solani</i> )	1	0
	Leaf Rust; rust	<i>Puccinia</i> sp./spp.	0	1
		<i>Puccinia</i> sp./spp.	0	1
Bermudagrass C = 94 H = 17	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	1
	Spring Dead Spot	<i>Ophiosphaerella</i> sp./spp.	3	2
	Bipolaris Spot Blotch	<i>Bipolaris</i> sp./spp.	4	0
	Fairy Ring	Various fungi	3	0
	Unknown	General	1	1
	Slime Mold	Class myxomycetes; myxomycota	0	2
	Rhizoctonia Stem and Root Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia Crown and Root Rot	<i>Thanatephorus</i> ( <i>Rhizoctonia</i> ) <i>cucumeris</i> ( <i>solani</i> )	1	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	2	0

	Bipolaris Leaf Spot	<i>Cochliobolus setariae</i>	4	0
	Helminthosporium Leaf Spot	<i>Cochliobolus (Bipolaris) cynodontis</i>	1	0
	Cultural/Environmental Problem	Abiotic disorder	4	8
	Environmental Stress; Problem	Abiotic disorder	8	1
	Plant Parasitic Nematodes	Unspecified Genera	1	0
	Pink Snow Mold; Fusarium Patch	<i>Monographella (Microdochium) nivalis (nivale)</i>	5	0
	Leaf Spot	<i>Bipolaris</i> sp./spp.	1	0
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	11	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	5	2
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces graminis</i>	10	0
	Leaf Rust; rust	<i>Puccinia</i> sp./spp.	2	0
	Dollar Spot	<i>Sclerotinia homeocarpa</i>	1	0
	Rhizoctonia Leaf Spot and/or Leaf Blight	<i>Rhizoctonia</i> sp./spp.	1	0
	Insect Damage	Unidentified Insect	3	0
	No Pathogen Found	No Pathogen Found	7	0
		<i>Bipolaris</i> sp./spp.	8	0
		No Pathogen Found	3	0
		<i>Rhizoctonia</i> sp./spp.	1	0
		<i>Rhizoctonia zeae</i>	1	0
		Saprophytic Fungi and Yeasts	1	0
Centipedegrass C = 80 H = 54	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	18
	Fairy Ring	Various fungi	4	0
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	4
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	2	0
	Cultural/Environmental Problem	Abiotic disorder	8	29
	Environmental Stress; Problem	Abiotic disorder	14	0
	Decline; Dieback	Abiotic disorder	5	0
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	18	0
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces graminis</i>	10	0
	Insect Damage	Unidentified Insect	0	1

	No Pathogen Found	No Pathogen Found	13	2
		<i>Rhizoctonia solani</i>	2	0
		<i>Rhizoctonia sp./spp.</i>	4	0
Common Wheat C = 1 H = 0	Tan Spot; Yellow Leaf Spot	<i>Pyrenophora</i> (ana. <i>Drechslera</i> ) <i>tritici-repentis</i>	1	0
Fescues C = 0 H = 4	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	1
	Cultural/Environmental Problem	Abiotic disorder	0	2
	No Pathogen Found	No Pathogen Found	0	1
Ryegrass C = 2 H = 0	Melting Out (Turfgrass)	<i>Drechslera sp./spp.</i>	2	0
Seashore Paspalum C = 1 H = 0		No Pathogen Found	1	0
St. Augustinegrass C = 24 H = 27	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	4
	Fairy Ring	Various fungi	1	0
	Unknown	General	0	1
	Take-all	<i>Gaeumannomyces sp./spp.</i>	1	15
	Gray Leaf Spot	<i>Magnaporthe</i> (ana. <i>Pyricularia</i> ) <i>grisea</i>	1	2
	Cultural/Environmental Problem	Abiotic disorder	0	4
	Leaf Spot	<i>Bipolaris sp./spp.</i>	0	1
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	2	0
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces graminis</i>	13	0
	Insect Damage	Unidentified Insect	2	0
	No Pathogen Found	No Pathogen Found	1	0
		<i>Rhizoctonia solani</i>	1	0
		<i>Rhizoctonia sp./spp.</i>	2	0
Turfgrass C = 1 H = 1	Slime Mold	Class myxomycetes; myxomycota	0	1
		<i>Rhizoctonia sp./spp.</i>	1	0
Zoysia (Japanese Lawngrass) C = 0 H = 5	Anthracoese	<i>Gloeosporium sp./spp.</i>	0	1
	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	1
	Cultural/Environmental Problem	Abiotic disorder	0	3

Zoysia Grass C = 69 H = 46	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	11
	Bipolaris Spot Blotch	<i>Bipolaris</i> sp./spp.	1	0
	Fairy Ring	Various fungi	6	0
	Unknown	General	1	1
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	4
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	5	1
	Cultural/Environmental Problem	Abiotic disorder	8	22
	Environmental Stress; Problem	Abiotic disorder	7	3
	Unknown Abiotic Disorder	Abiotic disorder	0	1
	Curvularia Blight; Leaf Spot	<i>Curvularia</i> sp./spp.	1	0
	Large Patch	<i>Thanatephorus</i> ( <i>Rhizoctonia</i> ) <i>cucumeris</i> ( <i>solani</i> )	10	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	0	2
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces</i> <i>graminis</i>	2	0
	Leaf Rust; rust	<i>Puccinia</i> sp./spp.	3	0
	Insect Damage	Unidentified Insect	2	0
	Insufficient Sample	Identification Analysis	3	0
	No Pathogen Found	No Pathogen Found	12	1
		<i>Bipolaris</i> sp./spp.	2	0
		No Pathogen Found	1	0
		<i>Rhizoctonia</i> sp./spp.	5	0

**VEGETABLES**

(Total Diagnoses 338: C=288; H=50)

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>C</b>	<b>H</b>
Autumn-winter Squash C = 1 H = 0	Cucurbit Downy Mildew	<i>Pseudoperonospora cubensis</i>	1	0
Bean C = 12 H = 3	Anthracnose Fruit Rot	<i>Colletotrichum</i> sp./spp.	1	0
	Charcoal Rot	<i>Macrophomina phaseolina</i>	1	0
	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Herbicide Injury; Exposure	Abiotic disorder	2	0
	Root Problems	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	0	1
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	4	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
	Insect Damage	Unidentified Insect	0	1
Cucurbit Leaf Crumple	Cucurbit Leaf Crumple Virus (CuLCrV)	1	0	
Bell Pepper C = 6 H = 0	Southern Stem Blight	<i>Sclerotium rolfsii</i>	1	0
	Bacterial Soft Rot	<i>Erwinia</i> sp./spp.	1	0
	Bacterial Leaf Spot	<i>Xanthomonas</i> sp./spp.	1	0
	Pythium Damping Off	<i>Pythium</i> sp./spp.	1	0
	No Pathogen Found	No Pathogen Found	2	0
Broccoli C = 4 H = 0	Unknown	General	1	0
	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	1	0
	Freeze; Frost; Cold Damage	Abiotic disorder	2	0
Butternut Squash C = 1 H = 0	Physiological Responses	Abiotic disorder	1	0
Cabbage C = 22 H = 1	Unknown	General	3	0
	Black Rot	<i>Xanthomonas campestris</i>	2	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	3	0
	Rhizoctonia Crown and Root Rot	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	1	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Bacterial Leaf Spot	<i>Xanthomonas</i> sp./spp.	4	0

	Unknown Abiotic Disorder	Abiotic disorder	0	1
	Sclerotinia Rot	<i>Sclerotinia sclerotiorum</i>	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
	Insufficient Sample	Identification Analysis	1	0
		Abiotic disorder	1	0
		No Pathogen Found	3	0
		<i>Xanthomonas campestris</i>	1	0
Cantalope; Cantaloupe C = 11 H = 0	Downy Mildew	<i>Peronospora</i> sp./spp.	1	0
	Unknown	General	1	0
	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	3	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	1	0
	Poor pollination	Abiotic disorder	1	0
	Gummy Stem Blight	<i>Didymella</i> (ana. <i>Phoma</i> ) <i>bryonae</i> ( <i>cucurbitacearum</i> )	1	0
	Phytophthora Crown	Root and/or Stem Rot	1	1
	No Pathogen Found	No Pathogen Found	1	0
		Abiotic disorder	1	0
Carrot C = 4 H = 0	Unknown	General	1	0
	Sclerotinia Rot	<i>Sclerotinia sclerotiorum</i>	2	0
		No Pathogen Found	1	0
Cole Crops C = 1 H = 0		Unidentified Spider Mite	1	0
Collards C = 2 H = 0	Black Rot	<i>Xanthomonas campestris</i>	1	0
		No Pathogen Found	1	0
Cucumber C = 6 H = 0	Downy Mildew	<i>Peronospora</i> sp./spp.	1	0
	Cucurbit Downy Mildew	<i>Pseudoperonospora cubensis</i>	2	0
	Unknown	General	1	0
	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	1	0
	Anthracoise; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
Dill C = 0 H = 1	Herbicide Injury; Exposure	Abiotic disorder	0	1
Dry Bean C = 2 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
	Phytophthora Crown	Root and/or Stem Rot	1	1
Eggplant C = 4 H = 0	Phomopsis Fruit Rot	<i>Phomopsis</i> sp./spp.	1	0
	Physiological Responses	Abiotic disorder	1	0
		<i>Phomopsis</i> sp./spp.	1	0

		Unknown Agent	1	0
Kale C = 2 H = 0	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	1	0
Lettuce C = 4 H = 0	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
	Pythium Damping Off	<i>Pythium</i> sp./spp.	1	0
		No Pathogen Found	1	0
Okra C = 1 H = 1	Charcoal Rot	<i>Macrophomina</i> sp./spp.	1	0
	Root Problems	Abiotic disorder	0	1
Onion C = 8 H = 0	Unknown	General	2	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Insufficient Sample	Identification Analysis	1	0
	No Pathogen Found	No Pathogen Found	2	0
	Yellow Bud	<i>Pseudomonas</i> sp./spp.	1	0
		Unknown cause	1	0
Pepper C = 8 H = 0	Chemical Injury	Abiotic disorder	1	0
	Herbicide Injury; Exposure	Abiotic disorder	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	2	0
	No Pathogen Found	No Pathogen Found	3	0
		No Pathogen Found	1	0
Potato C = 3 H = 0	Southern Stem Rot	<i>Sclerotium rolfsii</i>	1	0
	Herbicide Injury; Exposure	Abiotic disorder	1	0
Pumpkin C = 5 H = 0		<i>Streptomyces scabies</i>	1	0
	Powdery Mildew	<i>Sphaerotheca</i> sp./spp.	1	0
	Fusarium Fruit Rot	<i>Fusarium</i> sp./spp.	1	0
	Phytophthora Fruit Rot	<i>Phytophthora capsici</i>	1	0
	Unidentified Virus	Unidentified Virus	1	0
Radish C = 1 H = 0		<i>Pseudoperonospora cubensis</i>	1	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
Southern peas; Cowpeas Blackeye Peas C = 4 H = 0	Southern Stem Blight	<i>Sclerotium rolfsii</i>	1	0
	Fusarium Crown Rot	<i>Fusarium</i> sp./spp.	1	0
	Southern Stem Rot	<i>Sclerotium rolfsii</i>	1	0
	Herbicide Injury; Exposure	Abiotic disorder	1	0
Spinach C = 2	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	1	0
	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0



H = 0				
Squash C = 11 H = 3	Cucurbit Downy Mildew	<i>Pseudoperonospora cubensis</i>	1	0
	Powdery Mildew	<i>Sphaerotheca</i> sp./spp.	1	0
	Unknown	General	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	1	0
	Silverleaf Whitefly (Sweetpo.)	<i>Bemisia argentifolii</i>	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Physiological Responses	Abiotic disorder	3	0
	Squash Vine Borer	<i>Melittia cucurbitae</i>	0	1
	No Pathogen Found	No Pathogen Found	3	0
		<i>Rhizopus</i> sp./spp.	0	1
Sweetpea C = 1 H = 0	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
Sweetpotato C = 2 H = 0	Unknown	General	1	0
	Charcoal Rot	<i>Macrophomina</i> sp./spp.	1	0
Tomatillo; Tree Tomato C = 1 H = 0	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
Tomato C = 29 H = 34	Late Blight	<i>Phytophthora infestans</i>	0	2
	Southern Stem Blight	<i>Sclerotium rolfsii</i>	1	0
	Fusarium Wilt	<i>Fusarium oxysporum</i>	0	2
	Unknown	General	3	3
	Leaf Mold	<i>Fulvia fulva</i>	0	1
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	0	1
	Septoria Leaf Spot	<i>Septoria</i> sp./spp.	0	1
	Bacterial Leaf Spot	<i>Xanthomonas</i> sp./spp.	7	0
	Tobacco Mosaic	Tobacco Mosaic Virus (TMV)	1	0
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	3	2
	Spider Mites	Family Tetranychidae	0	1
	Chemical Injury	Abiotic disorder	0	2
	Herbicide Injury; Exposure	Abiotic disorder	0	4
	Cultural/Environmental Problem	Abiotic disorder	0	5
	Nutrient Imbalance	Abiotic disorder	1	0
	Environmental Stress; Problem	Abiotic disorder	0	1
Unknown Abiotic Disorder	Abiotic disorder	0	3	
Septoria Leaf Blight	<i>Septoria lycopersici</i>	0	3	

	Bacterial Wilt	<i>Ralstonia solanacearum</i>	2	0
	Early Blight; Leaf Spot	<i>Alternaria solani</i>	1	1
	Rust Mites	Order acari	0	1
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	0	1
	Bacterial Pathogens	General	0	2
	Insufficient Sample	Identification Analysis	1	0
	No Pathogen Found	No Pathogen Found	6	0
		Abiotic disorder	1	0
Turnip C = 3 H = 2	Downy Mildew	<i>Peronospora</i> sp./spp.	1	0
	Nutritional Deficiency	Abiotic disorder	1	0
	White Leaf Spot; Gray Stem	<i>Mycosphaerella</i> (ana. <i>Pseudocercospora</i> <i>capsellae</i>	0	1
	Insect Damage	Unidentified Insect	0	1
		No Pathogen Found	1	0
Vegetables C = 1 H = 0	Fruit Rot	<i>Sclerotium rolfsii</i>	1	0
Watermelon C = 116 H = 2	Anthracnose	<i>Gloeosporium</i> sp./spp.	1	0
	Watermelon Fruit Blotch	<i>Acidovorax avenae</i>	7	0
	Powdery Mildew	<i>Sphaerotheca</i> sp./spp.	3	0
	Fusarium Wilt	<i>Fusarium oxysporum</i>	34	0
	Unknown	General	7	1
	Phytophthora Fruit Rot	<i>Phytophthora capsici</i>	1	0
	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia Stem and Root Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia Stem Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Pythium Fruit Rot; Cottony Leak	<i>Pythium</i> sp./spp.	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	4	0
	Chemical Injury	Abiotic disorder	1	0
	Herbicide Injury; Exposure	Abiotic disorder	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Physiological Responses	Abiotic disorder	1	0
	Unknown Abiotic Disorder	Abiotic disorder	1	0
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	7	0
	Gummy Stem Blight	<i>Didymella</i> (ana. <i>Phoma</i> ) <i>bryonae</i> ( <i>cucurbitacearum</i> )	18	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	2	0
No Virus Found	No Virus Found	2	0	

	Insufficient Sample	Identification Analysis	2	0
	No Pathogen Found	No Pathogen Found	13	0
		Abiotic disorder	6	0
Yellow Squash C = 6 H = 3	Unknown	General	0	1
	Unidentified Virus	Unidentified Virus	1	0
	Phytophthora Crown	Root and/or Stem Rot	2	2
	Insect Damage	Unidentified Insect	0	2
	Cucurbit Leaf Crumple	Cucurbit Leaf Crumple Virus (CuLCrv)	3	0
Zucchini Squash C = 4 H = 0	Phytophthora Fruit Rot	<i>Phytophthora</i> sp./spp.	1	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	1	0
		Abiotic disorder	1	0

**WOODY ORNAMENTALS**  
(Total Diagnoses 175: C=117; H=58)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Alder C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Arborvitae C = 2 H = 0	No Pathogen Found	No Pathogen Found	1	0
Azalea; Rhododendron C = 15 H = 1	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	2	0
	Azalea Leaf Spot	<i>Cercospora handelii</i>	1	0
	Canker	<i>Leptosphaeria</i> sp./spp.	1	0
	Dieback; Canker; Twig Blight	<i>Botryosphaeria</i> sp./spp.	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	4	0
	Phytophthora Crown	Root and/or Stem Rot	1	1
	No Pathogen Found	No Pathogen Found	4	1
	No Pathogen Found	1	0	
Banana Shrub C = 0 H = 1	No Pathogen Found	No Pathogen Found	0	1
Bigleaf Hydrangea C = 4 H = 0	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Fungal Leaf Spot	<i>Cercospora hydrangeae</i>	1	0
	Sunscald	Abiotic disorder	1	0
	Additional Sample Requested	Identification Analysis	1	0
Blueberry C = 1 H = 0		No Pathogen Found	1	0
Boxwood C = 10 H = 10	Crown and Root Rot	<i>Phytophthora</i> sp./spp.	0	1
	Chemical Injury	Abiotic disorder	0	1
	Cultural/Environmental Problem	Abiotic disorder	3	2
	Environmental Stress; Problem	Abiotic disorder	0	4
	Root Problems	Abiotic disorder	0	1
	Verticillium Dieback	<i>Verticillium</i> sp./spp.	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
	Phytophthora Crown	Root and/or Stem Rot	4	4
	Insect Damage	Unidentified Insect	0	1
	Insufficient Sample	Identification Analysis	1	0
Camellia C = 6 H = 2	Anthraxnose	<i>Glomerella</i> ( <i>Colletotrichum</i> ) <i>cingulata</i> ( <i>gloeosporioides</i> )	1	0
	Camellia Yellow Mottle	Camellia Yellow Mottle Virus	1	0

	Cultural/Environmental Problem	Abiotic disorder	0	1
	Oedema; Edema	Abiotic disorder	1	0
	Unknown Abiotic Disorder	Abiotic disorder	0	1
	Freeze; Frost; Cold Damage	Abiotic disorder	1	0
	Stem Canker	<i>Colletotrichum</i> (teleo. <i>Glomerella</i> ) sp./spp.	1	0
	No Pathogen Found	No Pathogen Found	1	0
Cherry C = 0 H = 1	Shothole Borer	<i>Scolytus rugulosus</i>	1	1
Cherry-laurel C = 2 H = 0	Insufficient Sample	Identification Analysis	1	1
	Undetermined Injury or Pest	Identification Analysis	1	1
Chinese Fringe Flower C = 3 H = 0	Pseudomonas Canker	<i>Pseudomonas</i> sp./spp.	1	0
	No Pathogen Found	No Pathogen Found	1	0
		<i>Pseudomonas savastanoi</i>	1	0
Common Boxwood C = 3 H = 0	Boxwood Volutella Blight; Canker	<i>Volutella buxi</i>	1	0
	No Pathogen Found	No Pathogen Found	2	0
Common Camellia C = 3 H = 0	Glomerella Canker	<i>Glomerella</i> ( <i>Colletotrichum</i> ) <i>cingulata</i> ( <i>gloeosporioides</i> )	2	0
	Camellia Leaf Gall	<i>Exobasidium camelliae</i>	1	0
Common Gardenia (Cape Jasmine) C = 2 H = 0	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Phytophthora Crown	Root and/or Stem Rot	1	1
Confederate Rose C = 0 H = 1	Unknown	General	0	1
Crape Myrtle C = 0 H = 2	Unknown	General	0	1
	Insect Damage	Unidentified Insect	0	1
Edging Boxwood C = 2 H = 0	Planting Too Deep	Abiotic disorder	1	0
	Boxwood Volutella Blight; Canker	<i>Volutella buxi</i>	1	0
Euonymus C = 0	Cultural/Environmental Problem	Abiotic disorder	0	1

H = 1				
Gardenia C = 4 H = 0	Phytophthora Crown	Root and/or Stem Rot	1	1
	No Pathogen Found	No Pathogen Found	3	0
Hawthorn C = 1 H = 0	Cedar-Hawthorn Rust	<i>Gymnosporangium globosum</i>	1	0
Heavenly Bamboo C = 2 H = 0	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
		No Pathogen Found	1	0
Hinoki Falsecypress C = 1 H = 0	Dieback; Canker; Twig Blight	<i>Botryosphaeria</i> sp./spp.	1	0
Holly C = 4 H = 3	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	0	1
	No Pathogen Found	No Pathogen Found	2	0
		No Pathogen Found	1	0
Hydrangea C = 5 H = 5	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	0	1
	Mites	Order Acari	1	0
	Granulate Ambrosia Beetle	<i>Xylosandrus crassiusculus</i>	1	1
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
	Insect Damage	Unidentified Insect	0	1
	No Virus Found	No Virus Found	1	0
No Pathogen Found	No Pathogen Found	1	0	
Japanese Barberry C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Japanese Cleyera C = 1 H = 1	Cultural/Environmental Problem	Abiotic disorder	0	1
	No Pathogen Found	No Pathogen Found	1	0
Japanese Plum-yew C = 1 H = 0	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia</i> sp./spp.	1	0

Japanese Privet C = 0 H = 5	Leaf Spot	<i>Pseudocercospora</i> sp./spp.	0	2
	Cultural/Environmental Problem	Abiotic disorder	0	2
	Environmental Stress; Problem	Abiotic disorder	0	1
Japanese Yew C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	0
Jasmine C = 0 H = 1	No Pathogen Found	No Pathogen Found	1	1
Juniper C = 5 H = 8	Phomopsis Blight	<i>Phomopsis</i> sp./spp.	1	1
	Spider Mites	Family <i>Tetranychidae</i>	1	1
	Cultural/Environmental Problem	Abiotic disorder	4	4
	Environmental Stress; Problem	Abiotic disorder	2	2
	Phomopsis Tip Blight; Needle Blight	<i>Phomopsis juniperovora</i>	1	1
	Insect Damage	Unidentified Insect	1	1
	No Pathogen Found	No Pathogen Found	3	3
Leucothoe C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	1	1
Ligustrum; Privet C = 4 H = 2	Thrips	<i>Thrips</i> sp./spp.	1	1
	Environmental Stress; Problem	Abiotic disorder	2	2
	No Pathogen Found	No Pathogen Found	3	3
Lilac C = 0 H = 1	White Peach Scale	<i>Pseudaulacaspis</i> <i>pentagona</i>	1	1
Loquat C = 1 H = 0	Anthracoise; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	1
Loropetalum C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	1	1
Lusterleaf Holly C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	1
Magnolia C = 0 H = 1	Chemical Injury	Abiotic disorder	1	1
Mountain Laurel C = 1		No Pathogen Found	1	1

H = 0				
Nellie R. Stevens Holly C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	1
Oakleaf Hydrangea C = 0 H = 1	Armillaria Root Rot	<i>Armillaria (Armillariella)</i> sp./spp.	1	1
Osmanthus C = 0 H = 2	Environmental Stress; Problem	Abiotic disorder	1	1
	Root Problems	Abiotic disorder	1	1
Rhododendron C = 2 H = 2	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	1
	Broad Mite	<i>Polyphagotarsonemus</i> <i>latus</i>	1	1
	Environmental Stress; Problem	Abiotic disorder	1	1
	Insect Damage	Unidentified Insect	1	1
Rose C = 12 H = 2	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	1
	Root Girdling	Abiotic disorder	1	1
	Unknown Abiotic Disorder	Abiotic disorder	1	1
	Phomopsis Dieback; Tip Blight; Canker	<i>Phomopsis</i> sp./spp.	1	1
	Phytophthora Crown	Root and/or Stem Rot	1	1
	Rose Rosette Disease	Rose rosette-associated virus (RRaV)	1	1
	No Pathogen Found	No Pathogen Found	8	8
Rosemary C = 0 H = 1	Chemical Injury	Abiotic disorder	1	1
Rubus (Ornamental) C = 2 H = 0	Phytophthora Crown	Root and/or Stem Rot	2	2
Sasanqua Camellia C = 2 H = 0		No Pathogen Found	2	2
Saucer Magnolia C = 1 H = 0	Bacterial Leaf Spot	<i>Pseudomonas</i> sp./spp.	1	1
Snowbell C = 1	Insufficient Sample	Identification Analysis	1	1



H = 0				
Southern Bayberry; Wax Myrtle C = 1 H = 0	No Pathogen Found	No Pathogen Found	1	1
Sweet (Tea) Olive C = 1 H = 0	False oleander scale	<i>Pseudaulacaspis cockerelli</i>	1	1
Trumpet Honeysuckle C = 1 H = 0	Honeysuckle Leaf Blight	<i>Insolibasidium (Herpobasidium) deformans</i>	1	1
Viburnum C = 4 H = 1	Armillaria Root Rot/ Mushroom Rot	<i>Armillaria (Clitocybe) tabescens</i>	1	1
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	1
	No Pathogen Found	No Pathogen Found	3	3
Wisteria C = 0 H = 1	Nutrient Imbalance	Abiotic disorder	1	1
Yew C = 2 H = 0	Phytophthora Crown	Root and/or Stem Rot	1	1
		No Pathogen Found	1	1