

# Plant Disease Clinic Annual Report 2013



The University of Georgia  
College of Agricultural and Environmental Sciences  
Department of Plant Pathology  
Compiled by Phillip Corbiere and Ansuya Jogi  
Diagnosticians: Ansuya Jogi and Jason Brock  
Extension Specialists: Phillip Brannen, Bob Kemerait, David Langston,  
Elizabeth Little, Alfredo Martinez-Espinoza, Jean Williams Woodward  
DDDI: Sherri Clark

## 2013 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 2013, 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: 2013 PLANT SPECIMEN DIAGNOSES

Crop	Commercial Samples	Homeowner Samples	Total
Field Crops	367	2	369
Fruits and Nuts	208	42	250
Herbaceous Ornamentals	92	11	103
Miscellaneous	6	10	16
Trees	82	82	164
Turf	300	207	507
Vegetables	284	70	354
Woody Ornamentals	134	94	228
<b>Total*</b>	<b>1473</b>	<b>518</b>	<b>1991</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: 2013

<b>Month</b>	<b>Commercial Samples</b>	<b>Homeowner Samples</b>
January	16	10
February	43	2
March	47	17
April	107	20
May	161	70
June	131	64
July	137	50
August	186	44
September	110	39
October	118	45
November	37	24
December	37	2
<b>Total</b>	<b>1130</b>	<b>387</b>

**DISTRIBUTION OF COMMERCIAL SAMPLES SUBMITTED BY COUNTY FOR 2013**

County	Samples	County	Samples	County	Samples	County	Samples
Appling	19	Effingham	30	McIntosh	1	Ware	4
Atkinson	9	Elbert	1	Meriwether	1	Washington	7
Bacon	20	Emanuel	6	Miller	20	Wayne	14
Baker	1	Evans	2	Mitchell	3	Webster	2
Banks	3	Fayette	2	Monroe	1	Wheeler	5
Barrow	1	Floyd	4	Montgomery	4	White	1
Bartow	5	Forsyth	4	Morgan	8	Whitfield	3
Ben Hill	3	Franklin	4	Muscogee	6	Wilcox	3
Berrien	22	Fulton	15	NA	208	Wilkes	3
Bibb	9	Gilmer	5	Newton	3	Worth	17
Brantley	2	Glynn	1	Oconee	5		
Brooks	3	Gordon	2	Oglethorpe	1		
Bulloch	5	Grady	3	Paulding	5		
Burke	13	Greene	3	Peach	10		
Calhoun	2	Gwinnett	19	Pickens	4		
Camden	2	Habersham	3	Pierce	29		
Candler	5	Hall	10	Polk	5		
Carroll	6	Harris	5	Pulaski	4		
Chatham	10	Hart	1	Randolph	5		
Cherokee	7	Henry	1	Richmond	15		
Clarke	33	Houston	3	Rockdale	3		
Clay	1	Irwin	10	Schley	1		
Clinch	1	Jackson	12	Screven	13		
Cobb	22	Jasper	1	Seminole	16		
Coffee	14	Jeff Davis	3	Spalding	4		
Colquitt	44	Jefferson	3	Stephens	1		
Columbia	7	Jenkins	1	Sumter	12		
Cook	28	Johnson	1	Tattnall	11		
Coweta	7	Jones	2	Taylor	9		
Crawford	3	Lamar	1	Telfair	3		
Crisp	6	Lanier	21	Terrell	11		
Dawson	4	Laurens	12	Thomas	4		
Decatur	7	Lee	4	Tift	27		
DeKalb	11	Lowndes	22	Toombs	10		
Dodge	8	Lumpkin	3	Troup	3		
Dooly	9	Macon	30	Turner	27		
Dougherty	1	Madison	6	Union	3		
Douglas	11	Marion	11	Upson	1		
Echols	13	McDuffie	12	Walton	6		

**DISTRIBUTION OF HOMEOWNER SAMPLES SUBMITTED BY COUNTY FOR 2013**

County	Samples	County	Samples	County	Samples
Appling	4	Houston	3	Washington	1
Atkinson	1	Irwin	3	Wayne	1
Bacon	4	Jackson	1	White	1
Baldwin	4	Jasper	1	Whitfield	4
Berrien	1	Jefferson	3		
Bibb	36	Jenkins	1		
Burke	1	Laurens	8		
Camden	2	Lee	12		
Candler	2	Lowndes	1		
Carroll	4	Lumpkin	1		
Charlton	1	Macon	1		
Chatham	3	Madison	6		
Cherokee	1	McDuffie	1		
Clarke	31	Monroe	15		
Clinch	1	Montgomery	3		
Cobb	18	Morgan	13		
Colquitt	1	Murray	3		
Columbia	1	Muscogee	6		
Coweta	8	NA	7		
Crawford	1	Newton	10		
Dade	8	Oconee	10		
Decatur	1	Oglethorpe	1		
DeKalb	3	Paulding	3		
Dodge	2	Pierce	12		
Dougherty	8	Pulaski	5		
Douglas	1	Putnam	1		
Effingham	1	Randolph	1		
Elbert	4	Richmond	7		
Fannin	8	Rockdale	6		
Fayette	1	Seminole	1		
Franklin	1	Stephens	1		
Fulton	12	Sumter	3		
Gilmer	1	Thomas	4		
Greene	7	Towns	1		
Gwinnett	5	Treutlen	1		
Hall	1	Union	1		
Hancock	1	Walker	1		
Harris	3	Walton	5		
Henry	21	Warren	1		

## CROP SUMMARIES

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

**C:** Commercial

**H:** Homeowner

### FIELD CROPS

(Total Diagnoses 369: C=367; H=2)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Alfalfa C = 6 H = 0	Alfalfa Anthracnose	<i>Colletotrichum trifolii</i>	1	0
	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Spring Black Stem	<i>Phoma medicaginis</i>	1	0
	Alfalfa Fusarium Wilt	<i>Fusarium oxysporum</i>	1	0
	Leptosphaerulina Leaf Spot; Blight	<i>Leptosphaerulina trifolii (briosoana)</i>	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Bahagrass C = 3 H = 0	Gray Leaf Spot	<i>Magnaporthe (ana. Pyricularia) grisea</i>	1	0
	Leaf Rust; rust	<i>Puccinia</i> sp./spp.	1	0
		<i>Bipolaris</i> sp./spp.	1	0
Bermudagrass C = 12 H = 0	Cultural/Environmental Problem	Abiotic disorder	1	0
	Leaf Spot	<i>Bipolaris</i> sp./spp.	3	0
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	1	0
	Leaf Rust; rust	<i>Puccinia</i> sp./spp.	2	0
		<i>Bipolaris</i> sp./spp.	3	0
		<i>Rhizoctonia solani</i>	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Common Wheat C = 39 H = 0	Scab	<i>Fusarium</i> sp./spp.	1	0
	Powdery Mildew	<i>Erysiphe</i> sp./spp.	6	0
	Unknown	General	1	0
	Take-all	<i>Gaeumannomyces</i> sp./spp.	1	0
	Bacterial Mosaic	<i>Clavibacter</i>	1	0

		<i>michiganensis</i>		
	Cultural/Environmental Problem	Abiotic disorder	6	0
	Tan Spot; Yellow Leaf Spot	<i>Pyrenophora</i> (ana. <i>Drechslera</i> ) <i>tritici-repentis</i>	1	0
	Insects	Class insecta	1	0
		Abiotic disorder	1	0
		Barley Yellow Dwarf Virus (BYDV-RPV)	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
		No Pathogen Found	15	0
		Viruses	1	0
	Stripe Rust; Yellow Rust	<i>Puccinia striiformis</i>	1	0
	No Pathogen Found	Identification Analysis	1	0
Corn C = 61 H = 1	Southern Leaf Blight	<i>Cochliobolus</i> (ana. <i>Bipolaris</i> ) <i>heterostrophus</i> ( <i>maydis</i> )	6	0
	Unknown	General	8	0
	Charcoal Rot	<i>Macrophomina phaseolina</i>	1	0
	Fusarium Ear Rot	<i>Fusarium</i> sp./spp.	4	0
	Rhizoctonia Root and Stem Rot	<i>Thanatephorus</i> ( <i>Rhizoctonia</i> ) <i>cucumeris</i> ( <i>solani</i> )	1	0
	Rhizoctonia Stem Rot	<i>Rhizoctonia</i> sp./spp.	2	0
	Bacterial Soft Rot	<i>Erwinia</i> sp./spp.	1	0
	Common Corn Rust	<i>Puccinia sorghi</i>	3	0
	Northern Corn Leaf Spot	<i>Cochliobolus</i> ( <i>Bipolaris</i> ) <i>carbonum</i> ( <i>zeicola</i> )	1	0
	Chemical Injury	Abiotic disorder	5	0
	Environmental Stress; Problem	Abiotic disorder	0	1
	Genetic Disorders	Abiotic disorder	1	0
	Unknown Abiotic Disorder	Abiotic disorder	3	0
	Northern Corn Leaf	<i>Setosphaeria</i>	8	0

	Blight; Leaf Spot	<i>(Exserohilum turcica (turcicum))</i>		
	Southern Corn Rust	<i>Puccinia polysora</i>	3	0
	Thrips Damage	Unidentified Thrips	1	0
		Abiotic disorder	1	0
		No Pathogen Found	6	0
		Unknown cause	2	0
	Fertilizer Injury	Abiotic disorder	2	0
	No Pathogen Found	Identification Analysis	2	0
Corn (Seed) C = 9 H = 0	Southern Leaf Blight	<i>Cochliobolus (ana. Bipolaris) heterostrophus (maydis)</i>	2	0
	Unknown	General	1	0
	Fusarium Ear Rot	<i>Fusarium sp./spp.</i>	1	0
	Corynespora Leaf Spot	<i>Corynespora cassicola</i>	1	0
	Unknown Abiotic Disorder	Abiotic disorder	1	0
	Northern Corn Leaf Blight; Leaf Spot	<i>Setosphaeria (Exserohilum) turcica (turcicum)</i>	2	0
	Southern Corn Rust	<i>Puccinia polysora</i>	1	0
Cotton C = 119 H = 0	Ascochyta Blight	<i>Ascochyta sp./spp.</i>	3	0
	Ascochyta Blight	<i>Ascochyta gossypii</i>	10	0
	Fusarium Wilt	<i>Fusarium oxysporum</i>	3	0
	Unknown	General	6	0
	Rhizoctonia Stem Rot	<i>Rhizoctonia sp./spp.</i>	2	0
	Angular Leaf Spot	<i>Cercospora sp./spp.</i>	1	0
	Alternaria Leaf Spot	<i>Alternaria sp./spp.</i>	2	0
	Cercospora Leaf Spot	<i>Cercospora sp./spp.</i>	20	0
	Corynespora Leaf Spot	<i>Corynespora sp./spp.</i>	26	0
	Corynespora Leaf Spot	<i>Corynespora cassicola</i>	24	0
	Phomopsis Leaf Spot	<i>Phomopsis sp./spp.</i>	3	0
	Stemphylium Leaf Spot	<i>Stemphylium</i>	5	0



		sp./spp.		
	Chemical Injury	Abiotic disorder	1	0
	Physiological Responses	Abiotic disorder	2	0
	Unknown Abiotic Disorder	Abiotic disorder	3	0
	Phomopsis Dieback; Tip Blight; Canker	<i>Phomopsis</i> sp./spp.	1	0
	Rhizoctonia Leaf Spot and/or Leaf Blight	<i>Rhizoctonia</i> sp./spp.	2	0
		<i>Cercospora</i> sp./spp.	1	0
		<i>Rhizoctonia solani</i>	3	0
		Unknown cause	1	0
Grain Sorghum C = 9 H = 0	Anthracnose	<i>Colletotrichum graminicola</i>	7	0
	Sorghum Gray Leaf Spot	<i>Cercospora sorghi</i>	1	0
		<i>Fusarium</i> sp./spp.	1	0
Oats C = 7 H = 0	Cultural/Environmental Problem	Abiotic disorder	2	0
		<i>Drechslera</i> sp./spp.	1	0
		No Pathogen Found	4	0
Oriental Sesame C = 1 H = 0		<i>Rhizoctonia</i> sp./spp.	1	0
Peanut C = 21 H = 0	Phomopsis Blight	<i>Phomopsis</i> sp./spp.	1	0
	Unknown	General	6	0
	Pythium Pod Rot	<i>Pythium</i> sp./spp.	1	0
	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia Root and Stem Rot	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	1	0
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	3	0
	Chemical Injury	Abiotic disorder	1	0
	Early Leaf Spot	<i>Mycosphaerella (ana. Cercospora) arachidis (arachidicola)</i>	2	0
	Insects	Class insecta	1	0

		<i>Aspergillus flavus</i>	1	0
		No Pathogen Found	1	0
		<i>Pratylenchus</i> sp./spp.	1	0
	No Pathogen Found	Identification Analysis	1	0
Ryegrass C = 3 H = 0	Cultural/Environmental Problem	Abiotic disorder	1	0
		No Pathogen Found	2	0
Sorghum C = 3 H = 0	Anthracnose	<i>Colletotrichum graminicola</i>	1	0
		<i>Drechslera</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	1	0
Soybean C = 30 H = 1	Soybean Bacterial Pustule	<i>Xanthomonas campestris</i>	1	0
	Downy Mildew	<i>Peronospora</i> sp./spp.	1	0
	Soybean Downy Mildew	<i>Peronospora manshurica</i>	2	0
	Unknown	General	6	0
	Australasian Soybean Rust	<i>Phakopsora pachyrhizi</i>	1	0
	Corynespora Leaf Spot	<i>Corynespora</i> sp./spp.	1	0
	Physiological Responses	Abiotic disorder	1	0
	Unknown Abiotic Disorder	Abiotic disorder	1	0
	Soybean Anthracnose	<i>Glomerella (Colletotrichum) glycines (destructivum)</i>	0	1
	Pod and Stem Blight	<i>Diaporthe (Phomopsis) sp./spp.</i>	1	0
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	2	0
		No Pathogen Found	3	0
		Unknown cause	2	0
	No Pathogen Found	Identification Analysis	8	0

Tobacco (Flue-cured) C = 38 H = 0	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0
	Black Shank	<i>Phytophthora nicotianae</i>	14	0
	Southern Stem Rot	<i>Sclerotium rolfsii</i>	1	0
	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Bacterial Soft Rot	<i>Erwinia sp./spp.</i>	3	0
	Tobacco Mosaic	Tobacco Mosaic Virus (TMV)	7	0
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	2	0
	Sclerotinia Rot	<i>Sclerotinia sclerotiorum</i>	1	0
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	0
		No Pathogen Found	4	0
		<i>Pseudomonas sp./spp.</i>	1	0
	<i>Rhizoctonia solani</i>	2	0	
Watermelon C = 1 H = 0		No Pathogen Found	1	0
Wheat C = 2 H = 0	Nutritional Deficiency	Abiotic disorder	1	0
	Helminthosporium Leaf Spot/ Leaf Blight	<i>Helminthosporium sp./spp.</i>	1	0
Yellow Nutsedge C = 3 H = 0	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	0
	Insects	Class insecta	1	0
		<i>Rhizoctonia sp./spp.</i>	1	0

**FRUITS AND NUTS**

(Total Diagnoses 250: C=206; H=44)

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>C</b>	<b>H</b>
Blackberry C = 12 H = 0	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	2	0
	Algae	General	1	0
	Viruses	Viruses	1	0
	Cane and Leaf Rust	<i>Kuehneola uredinis</i>	1	0
	Cane Blight; Canker	<i>Leptosphaeria (Coniothyrium) coniothyrium (fuckelli)</i>	3	0
		<i>Botryosphaeria</i> sp./spp.	2	0
	Unknown cause		2	0
Blueberry C = 115 H = 8	Anthracnose Fruit Rot	<i>Colletotrichum</i> sp./spp.	1	0
	Crown Gall	<i>Agrobacterium</i> sp./spp.	1	0
	Unknown	General	5	0
	Mummy Berry	<i>Monilinia vaccinii-corymbosi</i>	3	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	2	0
	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia</i> sp./spp.	2	0
	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp./spp.	1	0
	Septoria Leaf Spot	<i>Septoria</i> sp./spp.	2	0
	Blueberry Red Ringspot	Blueberry Red Ringspot Virus (BRRV)	1	0
	Algae	General	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	5
	Nutrient Imbalance	Abiotic disorder	5	1
	Environmental Stress; Problem	Abiotic disorder	2	0
	Oedema; Edema	Abiotic disorder	5	0
	Oxygen Deficiency	Abiotic disorder	1	0
	Unknown Abiotic Disorder	Abiotic disorder	2	0
	Canker	<i>Leptosphaeria</i> sp./spp.	1	0
	Freeze; Frost; Cold Damage	Abiotic disorder	2	0
	Hemlock-Blueberry Rust	<i>Thekopsora minima</i>	2	0
	Canker, Dieback; Leaf Blight	<i>Fusicoccum</i> sp./spp.	1	0
	Leaf Spot	<i>Pestalotiopsis (Pestalotia) sp./spp.</i>	1	0
	Phomopsis Dieback; Tip Blight; Canker	<i>Phomopsis</i> sp./spp.	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	11	0
	Leaf Rust	<i>Naohidemyces (Pucciniastrum) vacciniorum (vaccinii)</i>	5	0
	Sooty Mold	Unidentified Fungus	1	0

	Insect Damage	Unidentified Insect	0	2
		Identification Analysis	0	1
		Abiotic disorder	5	0
		Blueberry Red Ringspot Virus (BRRV)	3	0
		<i>Botryosphaeria</i> sp./spp.	6	0
		<i>Cladosporium</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
		Complex of Biotic; Abiotic Factors	2	0
		Environmental Stresses	9	0
		<i>Fusicoccum</i> sp./spp.	1	0
		<i>Naohidemycetes</i> ( <i>Pucciniastrum</i> ) <i>vacciniorum</i> ( <i>vaccinii</i> )	1	0
		No Pathogen Found	1	0
		<i>Pestalotia</i> sp./spp.	1	0
		<i>Phyllosticta</i> sp./spp.	1	0
		<i>Phytophthora</i> sp./spp.	4	0
		<i>Rhizoctonia</i> sp./spp.	3	0
		<i>Rhizopus</i> sp./spp.	1	0
		Unknown Agent	2	0
		Unknown cause	9	0
	No Pathogen Found	Identification Analysis	0	1
Cherry C = 0 H = 2	Unknown	General	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
Coffee Plant C = 1 H = 0		<i>Colletotrichum</i> sp./spp.	1	0
Common Apple C = 3 H = 8	Fire Blight	<i>Erwinia amylovora</i>	1	1
	Bitter Rot	<i>Glomerella</i> ( <i>Colletotrichum</i> ) <i>cingulata</i> ( <i>gloeosporioides</i> )	0	2
	Rust	<i>Gymnosporangium</i> sp./spp.	1	2
	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	0	1
	Chemical Injury	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	0	1
		Abiotic disorder	1	0
		<i>Alternaria</i> sp./spp.	1	0
Cotton C = 1 H = 0	Corynespora Leaf Spot	<i>Corynespora</i> sp./spp.	1	0

Grape C = 4 H = 5	Downy Mildew	<i>Peronospora</i> sp./spp.	0	1
	Ripe Rot	<i>Colletotrichum</i> sp./spp.	1	0
	Sap Beetles	Family Nitidulidae	1	0
	Environmental Stress; Problem	Abiotic disorder	0	1
	Undetermined Injury or Pest	Identification Analysis	0	2
		Abiotic disorder	0	1
		<i>Botryosphaeria</i> sp./spp.	1	0
		Unknown cause	1	0
Japanese Pear C = 0 H = 1	Fire Blight	<i>Erwinia amylovora</i>	0	1
Lemon C = 0 H = 2	Cultural/Environmental Problem	Abiotic disorder	0	1
	Insect Damage	Unidentified Insect	0	1
Muscadine Grape C = 2 H = 0		Abiotic disorder	1	0
		<i>Botryosphaeria</i> sp./spp.	1	0
Peach C = 0 H = 4	Peach Leaf Curl	<i>Taphrina deformans</i>	0	1
	Unknown	General	0	1
	Root Problems	Abiotic disorder	0	1
	Insect Damage	Unidentified Insect	0	1
Peanut C = 0 H = 2	Environmental Stress; Problem	Abiotic disorder	0	1
	Southern Blight	<i>Sclerotium rolfsii</i>	0	1
Pear C = 1 H = 1	Cedar-Quince Rust	<i>Gymnosporangium clavipes</i>	0	1
	Scale Insects	Order homoptera	1	0
Pecan C = 31 H = 2	Anthracnose	<i>Glomerella</i> sp./spp.	3	0
	Anthracnose	<i>Glomerella (Colletotrichum) cingulata (gloeosporioides)</i>	2	0
	Pecan; Hickory Scab	<i>Cladosporium caryigenum</i>	2	1
	Brown Leaf Spot	<i>Sirosporium (Cercospora) diffusum (fusca)</i>	1	0
	Phomopsis Leaf Spot	<i>Phomopsis</i> sp./spp.	3	0
	Pecan Leaf Scorch Mite	<i>Eotetranychus hicoriae</i>	2	0
	Black Pecan Aphid	<i>Melanocallis caryaefoliae</i>	1	0
	Physiological Responses	Abiotic disorder	1	0
	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	2	0
	Undetermined Injury or Pest	Identification Analysis	0	1
		<i>Lasiodiplodia (Botryodiplodia) theobromae</i>	2	0
		No Pathogen Found	4	0

		Unknown Agent	1	0
		Unknown cause	5	0
	Fertilizer Injury	Abiotic disorder	1	0
	No Pathogen Found	Identification Analysis	1	0
Plum C = 0 H = 6	Brown Rot	<i>Monilia</i> sp./spp.	0	1
	Bacterial Canker	<i>Pseudomonas syringae</i>	0	1
	Unknown Abiotic Disorder	Abiotic disorder	0	1
	Insect Damage	Unidentified Insect	0	3
Pomegranate C = 2 H = 0	Anthracnose Fruit Rot	<i>Colletotrichum</i> sp./spp.	2	0
Raspberry C = 1 H = 0	Mites	Order Acari	1	0
Satsuma Tangerine C = 1 H = 0		Unknown cause	1	0
Strawberry C = 34 H = 0	Botrytis Blight	<i>Botrytis</i> sp./spp.	1	0
	Unknown	General	2	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Angular Leaf Spot	<i>Xanthomonas</i> sp./spp.	2	0
	Spider Mites	Family Tetranychidae	5	0
	Twospotted Spider Mite	<i>Tetranychus urticae</i>	2	0
	Nutrient Imbalance	Abiotic disorder	1	0
	Boron Toxicity	Abiotic disorder	1	0
	Unknown Abiotic Disorder	Abiotic disorder	1	0
	Viruses	Viruses	2	0
	Leaf Scorch	<i>Diplocarpon</i> (ana. <i>Marssonina</i> ) <i>earlianum</i> ( <i>fragariae</i> )	3	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	2	0
		<i>Alternaria</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
		No Pathogen Found	1	0
		<i>Phytophthora</i> sp./spp.	4	0
		<i>Rhizoctonia</i> sp./spp.	1	0
	Unknown cause	2	0	
	Viruses	1	0	
Watermelon C = 0 H = 1	Gummy Stem Blight	<i>Didymella</i> (ana. <i>Phoma</i> ) <i>bryonae</i> ( <i>cucurbitacearum</i> )	0	1

**HERBACEOUS ORNAMENTALS**  
(Total Diagnoses 103: C=92; H=11)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Anemone C = 2 H = 0	Root Knot Nematodes	<i>Meloidogyne</i> sp./spp.	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Angel-wing Begonia C = 2 H = 0	Aphids (Plant Lice)	Family Aphididae	1	0
		No Pathogen Found	1	0
Asiatic Jasmine C = 2 H = 0	Cultural/Environmental Problem	Abiotic disorder	1	0
		No Pathogen Found	1	0
Bamboo C = 0 H = 1	Unknown	General	0	1
Begonia C = 6 H = 0	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Root Knot Nematodes	<i>Meloidogyne</i> sp./spp.	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	2	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	2	0
Bird Of Paradise C = 1 H = 0	Armored Scales	Family Diaspididae	1	0
Broomsedge Bluestem C = 1 H = 0	Tangle Top	<i>Myriogenospora atramentosa</i>	1	0
Bugle-weed C = 0 H = 2	Environmental Stress; Problem	Abiotic disorder	0	1
		<i>Phytophthora</i> sp./spp.	0	1
Cigarette Plant; Elfin Herb C = 1 H = 0	Broad Mite	<i>Polyphagotarsonemus latus</i>	1	0
Coleus C = 1 H = 0	Slug Damage	Unidentified Slug	1	0
Creeping Jenny C = 1	Unspecified Pathology	<i>Cladosporium</i> sp./spp.	1	0



H = 0				
Creeping Phlox C = 4 H = 0	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	4	0
Daylily C = 5 H = 0	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Twospotted Spider Mite	<i>Tetranychus urticae</i>	1	0
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum sp./spp.</i>	2	0
		No Pathogen Found	1	0
Euphorbia C = 1 H = 0	Twospotted Spider Mite	<i>Tetranychus urticae</i>	1	0
Florist's Chrysanthemum C = 1 H = 0	Bacterial Leaf Spot	<i>Pseudomonas sp./spp.</i>	1	0
Geranium ('cultivated') C = 1 H = 0		No Pathogen Found	1	0
Greater Periwinkle C = 2 H = 0	Nutritional Deficiency	Abiotic disorder	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora sp./spp.</i>	1	0
Hibiscus C = 3 H = 0	Bacterial Leaf Spot	<i>Xanthomonas sp./spp.</i>	1	0
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum sp./spp.</i>	1	0
		<i>Fusarium sp./spp.</i>	1	0
Hosta C = 1 H = 1	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	0	1
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum sp./spp.</i>	1	0
Impatiens C = 2 H = 0	Downy Mildew	<i>Plasmopara obducens</i>	1	0
		<i>Oomycetes</i>	1	0
Impatiens C = 2 H = 0	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	0
Japanese Spurge C = 2 H = 0	Leaf and Stem Blight	<i>Volutella pachysandrae</i>	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora sp./spp.</i>	1	0
Kudzu		Unknown cause	0	1

C = 0 H = 1				
Lily-of-the-nile C = 1 H = 0	Anthraco-nose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
Lilyturf (Bordergrass) C = 1 H = 0	Anthraco-nose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
Madagascar periwinkle; Vinca C = 5 H = 0	Rhizoctonia Stem and Root Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Fusarium Root; Crown Rot	<i>Fusarium</i> sp./spp.	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	2	0
Million Bells C = 3 H = 0	Botrytis Blight	<i>Botrytis</i> sp./spp.	1	0
	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Mondograss (Dwarf Lily Turf) C = 3 H = 2	Root Knot Nematodes	<i>Meloidogyne</i> sp./spp.	1	0
	Root Problems	Abiotic disorder	0	2
	Anthraco-nose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Mouse-ear Cress C = 1 H = 0	Damping Off	<i>Fusarium</i> sp./spp.	1	0
New Guinea Impatiens C = 2 H = 1	Root Knot Nematodes	<i>Meloidogyne</i> sp./spp.	1	0
	Environmental Stress; Problem	Abiotic disorder	0	1
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Osteospermum C = 4 H = 0	Bacterial Leaf Spot	<i>Pseudomonas</i> sp./spp.	2	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	2	0
Pansy C = 9 H = 1	Botrytis Blight	<i>Botrytis</i> sp./spp.	1	0
	Powdery Mildew	<i>Oidium</i> sp./spp.	0	1
	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	2	0
	Fusarium Root; Crown Rot	<i>Fusarium</i> sp./spp.	2	0
	Cercospora Leaf Spot	<i>Cercospora violae</i>	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	3	0
Parlor Maple C = 1	Bacterial Leaf Spot	<i>Xanthomonas</i> sp./spp.	1	0

H = 0				
Petunias C = 2 H = 0	Slug Damage	Unidentified Slug	1	0
	No Pathogen Found	Identification Analysis	1	0
Poinsettia C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Rosemary C = 1 H = 0		<i>Colletotrichum</i> sp./spp.	1	0
Rudbeckia C = 0 H = 2	Downy Mildew	<i>Plasmopara</i> sp./spp.	0	2
Schefflera C = 2 H = 0	Armored Scales	Family Diaspididae	1	0
		No Pathogen Found	1	0
Siberian Bugloss C = 1 H = 0		<i>Aphelenchoides fragariae</i>	1	0
Sunflower C = 1 H = 0	No Pathogen Found	Identification Analysis	1	0
Ti Plant; Cabbage Palm C = 1 H = 0		No Pathogen Found	1	0
Tulips C = 2 H = 0	Fusarium Basal Rot	<i>Fusarium</i> sp./spp.	1	0
	Bulb Mite	<i>Rhizoglyphus</i> sp./spp.	1	0
Verbena C = 5 H = 0	Bacterial Leaf Spot	Unidentified Bacteria	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
Wave Petunia C = 1 H = 0		<i>Fusarium</i> sp./spp.	1	0
		No Pathogen Found	1	0
Wax Begonia C = 1 H = 0	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
Wild Blue Phlox C = 2	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	2	0

H = 0				
Zinnia	Pythium Blight; Cottony Blight	<i>Pythium</i> sp./spp.	1	0
C = 1				
H = 0				

**MISCELLANEOUS**

(Total Diagnoses 16: C=8; H=8)

<b>HOST</b>	<b>DISEASE</b>	<b>CAUSAL ORGANISM</b>	<b>C</b>	<b>H</b>
Almond C = 1 H = 0		Abiotic disorder	1	0
Insect Id Request C = 1 H = 0	Little Black Ant	<i>Monomorium minimum</i>	1	0
Multiple hosts C = 1 H = 0		Abiotic disorder	1	0
Mushroom C = 0 H = 2	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	0	1
	Armillaria Root Rot	<i>Armillaria (Armillariella)</i> sp./spp.	0	1
Not Found On List C = 2 H = 0		No Pathogen Found	1	0
	No Pathogen Found	Identification Analysis	1	0
Oriental Sesame C = 2 H = 0	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.	1	0
	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
Unknown; No Site Specified C = 1 H = 6	Unknown	General	0	1
	Jelly Fungus	<i>Tremella</i> sp./spp.	0	1
	Mushroom	Unidentified Fungus	0	1
		<i>Aspergillus</i> sp./spp.	0	1
		No Pathogen Found	1	0
		Unknown cause	0	1
	Earth Ball	<i>Scleroderma</i> sp./spp.	0	1

## TREES

(Total Diagnoses 164: C=81; H=83)

HOST	DISEASE	CAUSAL ORGANISM	C	H
American Chestnut C = 1 H = 0	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	1	0
American Sycamore C = 0 H = 1	Sycamore Anthracnose	<i>Apiognomonia (Gnomonia)</i> (ana. <i>Discula</i> ) <i>veneta</i> ( <i>platani</i> )	0	1
Arborvitae C = 1 H = 1	Decline; Dieback	Abiotic disorder	1	0
		Abiotic disorder	0	1
Arizona Cypress C = 0 H = 2	Environmental Stress; Problem	Abiotic disorder	0	1
	Phomopsis Tip Blight; Needle Blight	<i>Phomopsis juniperovora</i>	0	1
Ash C = 0 H = 2	Undetermined Injury or Pest	Identification Analysis	0	2
Baldcypress (Ornamental) C = 2 H = 0	Sooty Mold	<i>Septobasidium</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	1	0
Callery Pear C = 0 H = 3	Fire Blight	<i>Erwinia amylovora</i>	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
	Wood Rot Fungus	<i>Inonotus</i> sp./spp.	0	1
Cherry C = 0 H = 2	Wound Canker	Abiotic disorder	0	1
		Unknown cause	0	1
Chinese Elm C = 1 H = 0	Black Spot	<i>Stegophora (Asteroma)</i> <i>ulmea (ulmeum)</i>	1	0
Common Apple C = 0 H = 1	Insect Damage	Unidentified Insect	0	1
Cryptomeria C = 0 H = 4	Environmental Stress; Problem	Abiotic disorder	0	3
		Abiotic disorder	0	1

Deodar Cedar C = 1 H = 0	Branch and Twig Borers	Family Bostrichidae	1	0
Dogwood C = 0 H = 5	Environmental Stress; Problem	Abiotic disorder	0	1
	Root Problems	Abiotic disorder	0	1
	Dogwood Powdery Mildew	<i>Erysiphe pulchra</i>	0	1
	Spot Anthracnose	<i>Elsinoe corni</i>	0	1
	Undetermined Injury or Pest	Identification Analysis	0	1
Eastern Black Cherry C = 1 H = 0	Stone Fruit Rust	<i>Tranzschelia pruni-spinosae</i>	1	0
Eastern Hemlock C = 1 H = 0	Rosellinia Blight	<i>Rosellinia herpotrichioides</i>	1	0
Eastern Red Cedar C = 1 H = 0	Phomopsis Tip Blight; Needle Blight	<i>Phomopsis juniperovora</i>	1	0
Elm C = 1 H = 0	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
Eucalyptus C = 3 H = 1	Unknown	General	0	1
	Leaf Spot	<i>Cristulariella sp./spp.</i>	2	0
	Leaf Spot	<i>Pseudocercospora sp./spp.</i>	1	0
Fir C = 1 H = 0	Mites	Order Acari	1	0
Flowering Cherry C = 0 H = 1	Root Problems	Abiotic disorder	0	1
Flowering Dogwood C = 2 H = 0	Granulate Ambrosia Beetle	<i>Xylosandrus crassiusculus</i>	1	0
	Spot Anthracnose	<i>Elsinoe corni</i>	1	0
Ginkgo C = 0 H = 1	Scorch	Abiotic disorder	0	1
Hemlock C = 0 H = 4	Unknown	General	0	1
	Elongate Hemlock Scale	<i>Fiorinia externa</i>	0	1
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1

Italian Cypress C = 5 H = 0	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Spider Mites	Family Tetranychidae	1	0
	Root Problems	Abiotic disorder	1	0
	Spider Mite Injury	Unidentified Spider Mite	1	0
		No Pathogen Found	1	0
Japanese Cedar C = 3 H = 0	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Decline; Dieback	Abiotic disorder	1	0
	Root Problems	Abiotic disorder	1	0
Japanese Maple C = 1 H = 3	Environmental Stress; Problem	Abiotic disorder	0	1
	Root Problems	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	0	1
		No Pathogen Found	1	0
Juniper C = 0 H = 3	Environmental Stress; Problem	Abiotic disorder	0	2
	Root Problems	Abiotic disorder	0	1
Leyland Cypress C = 10 H = 13	Dieback; Canker	<i>Seiridium</i> sp./spp.	1	0
	Root Girdling	Abiotic disorder	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	3
	Planting Too Deep	Abiotic disorder	1	0
	Environmental Stress; Problem	Abiotic disorder	0	7
	Root Problems	Abiotic disorder	2	0
	Needle Cast; Blight	<i>Passalora (Cercospora)</i> <i>sequoiae</i>	2	0
		Abiotic disorder	0	1
		No Pathogen Found	3	0
		<i>Passalora (Phaeoramularia)</i> <i>calotropidis</i>	0	1
	<i>Phytophthora</i> sp./spp.	0	1	
Longleaf Pine C = 10 H = 0	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	5	0
	Lophodermium Leaf Spot; Needle Cast	<i>Lophodermium</i> sp./spp.	5	0
Magnolia C = 0 H = 9	Algal Leaf Spot	<i>Cephaleuros</i> sp./spp.	0	1
	Cultural/Environmental Problem	Abiotic disorder	0	2
	Environmental Stress; Problem	Abiotic disorder	0	4
	Insect Damage	Unidentified Insect	0	2
Maple	Leaf Spot	<i>Cristulariella</i> sp./spp.	1	0



C = 2 H = 4	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	0	1
		Family Eriophyidae	1	0
		Unknown cause	0	1
Norfolk Island Pine C = 1 H = 0		No Pathogen Found	1	0
Nuttall Oak C = 1 H = 0	Wood Rot Fungus	<i>Biscogniauxia (Hypoxylon) atropunctata (atropunctatum)</i>	1	0
Oak C = 3 H = 13	Anthracnose	<i>Apiognomonia sp./spp.</i>	0	1
	Oak Leaf Blister	<i>Taphrina caerulescens</i>	0	1
	Powdery Mildew	<i>Oidium sp./spp.</i>	0	1
	Armored Scales	Family Diaspididae	0	1
	Herbicide Injury; Exposure	Abiotic disorder	0	1
	Scorch	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	4
	Wood Rot Fungus	<i>Inonotus sp./spp.</i>	1	0
	Insect Damage	Unidentified Insect	0	2
		<i>Heterobasidion (Fomes) annosum (annosus)</i>	0	1
	No Pathogen Found	2	0	
Overcup Oak C = 2 H = 0	Southern Fusiforme Rust	<i>Cronartium fusiforme</i>	1	0
		Abiotic disorder	1	0
Pecan C = 1 H = 0	Insufficient Sample	Identification Analysis	1	0
Pin Oak C = 3 H = 0	Mechanical Damage	Abiotic disorder	1	0
	Dieback; Canker; Twig Blight	<i>Botryosphaeria sp./spp.</i>	1	0
		No Pathogen Found	1	0
Pine C = 2 H = 2	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	0	1
	Pitch Canker	<i>Gibberella (Fusarium) sp./spp.</i>	0	1
	Lophodermium Leaf Spot; Needle Cast	<i>Lophodermium sp./spp.</i>	2	0
Queen Palm C = 1		No Pathogen Found	1	0

H = 0				
Red Maple C = 1 H = 3	Obscure Scale	<i>Melanaspis obscura</i>	1	0
	Scorch	Abiotic disorder	0	1
	Root Problems	Abiotic disorder	0	1
	Wound Canker	Abiotic disorder	0	1
Red Oak C = 1 H = 0	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	1	0
Red Oaks C = 1 H = 0	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	1	0
Snowbell C = 1 H = 0	Branch and Twig Borers	Family Bostrichidae	1	0
Southern Magnolia C = 3 H = 0	Algal Leaf Spot	<i>Cephaleuros virescens</i>	1	0
	Branch and Twig Borers	Family Bostrichidae	1	0
		No Pathogen Found	1	0
Sugar Hackberry C = 2 H = 0	Petiolegall Psyllid	<i>Pachypsylla venusta</i>	1	0
	Sooty Mold	Unidentified Fungus	1	0
Sugar Maple C = 2 H = 0	Verticillium Wilt	<i>Verticillium</i> sp./spp.	1	0
		No Pathogen Found	1	0
Sweet Bay Magnolia C = 1 H = 0	Additional Sample Requested	Identification Analysis	1	0
Trifoliolate orange C = 1 H = 0	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Tulip Tree C = 0 H = 1	Undetermined Injury or Pest	Identification Analysis	0	1
Tupelo; Gum C = 1 H = 0	Sooty Mold	<i>Septobasidium</i> sp./spp.	1	0
Water Oak C = 0 H = 3	Oak Leaf Blister	<i>Taphrina caerulescens</i>	0	1
	Wood Rot Fungus	<i>Fomes</i> sp./spp.	0	1
	Bacterial Wetwood; Slime Flux	Various Pathogens	0	1
White Oaks C = 1 H = 0	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	1	0

Willow C = 0 H = 1	Unknown	General	0	1
Willow Oak C = 2 H = 0	Oak Leaf Blister	<i>Taphrina caerulescens</i>	1	0
	Chemical Injury	Abiotic disorder	1	0
Winged Elm C = 2 H = 0	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp./spp.	1	0
	Dutch Elm Disease	<i>Ophiostoma</i> sp./spp.	1	0
Yoshino Cherry C = 1 H = 0		No Pathogen Found	1	0
			81	83

## TURF

(Total Diagnoses 505: C=296; H=209)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Bentgrass C = 76 H = 0	Brown Patch	<i>Rhizoctonia</i> sp./spp.	1	0
	Take-all	<i>Gaeumannomyces</i> sp./spp.	4	0
	Cultural/Environmental Problem	Abiotic disorder	7	0
	Environmental Stress; Problem	Abiotic disorder	10	0
	Anthracnose	<i>Colletotrichum cereale</i>	19	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	17	0
	Black Layer of Turfgrass	Abiotic disorder	1	0
	Insect Damage	Unidentified Insect	1	0
		Abiotic disorder	1	0
		<i>Bipolaris</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	4	0
		Environmental Stresses	1	0
		No Pathogen Found	6	0
		<i>Rhizoctonia</i> sp./spp.	2	0
		No Pathogen Found	Identification Analysis	1
Bermudagrass C = 0 H = 7	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	1
	Rhizoctonia Crown and Root Rot	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	0	1
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	1
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	3
Bermudagrass C = 73 H = 20	Anthracnose	<i>Colletotrichum graminicola</i>	0	1
	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	4
	Spring Dead Spot	<i>Ophiosphaerella</i> sp./spp.	1	1
	Melting Out (Turfgrass)	<i>Drechslera</i> sp./spp.	2	0
	Fairy Ring	Various fungi	7	1
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	1
	Cultural/Environmental Problem	Abiotic disorder	5	6
	Dense Thatch Layer	Abiotic disorder	3	0
	Environmental Stress; Problem	Abiotic disorder	0	4
	Drought Stress Damage	Abiotic disorder	1	0
	Plant Parasitic Nematodes	Unspecified Genera	2	0
	Pink Snow Mold; Fusarium Patch	<i>Monographella (Microdochium) nivalis (nivale)</i>	3	0
	Red Leaf and Sheath Spot	<i>Rhizoctonia zeae</i>	1	0
Pythium Blight; Cottony Blight	<i>Pythium</i> sp./spp.	2	0	

	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	7	0
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces graminis</i>	1	0
	Dollar Spot	<i>Sclerotinia homeocarpa</i>	0	1
	Rhizoctonia Leaf Spot and/or Leaf Blight	<i>Rhizoctonia</i> sp./spp.	1	0
	Insects	Class insecta	1	0
	Insect Damage	Unidentified Insect	1	0
		Abiotic disorder	1	0
		<i>Bipolaris</i> sp./spp.	19	0
		Environmental Stresses	2	0
		No Pathogen Found	2	0
		<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia solani</i>	3	0
		<i>Rhizoctonia</i> sp./spp.	3	1
		<i>Rhizoctonia zeae</i>	1	0
	No Pathogen Found	Identification Analysis	3	0
Centipedegrass C = 62 H = 70	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	28
	Fairy Ring	Various fungi	3	2
	Unknown	General	1	0
	Rhizoctonia Root and Stem Rot	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	1	0
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	3
	Algae	General	0	2
	Cultural/Environmental Problem	Abiotic disorder	15	23
	Soil Compaction	Abiotic disorder	1	0
	Environmental Stress; Problem	Abiotic disorder	3	9
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	4	0
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces graminis</i>	6	0
	Insect Damage	Unidentified Insect	2	0
	Insufficient Sample	Identification Analysis	2	0
		Abiotic disorder	0	1
		<i>Bipolaris</i> sp./spp.	2	0
		<i>Gaeumannomyces graminis</i>	0	1
		No Pathogen Found	5	0
		<i>Rhizoctonia solani</i>	16	0
		<i>Rhizoctonia</i> sp./spp.	0	1
		No Pathogen Found	Identification Analysis	1

Common Wheat C = 1 H = 0		No Pathogen Found	1	0
Fescues C = 0 H = 5	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	2
	Gray Leaf Spot	<i>Magnaporthe</i> (ana. <i>Pyricularia</i> ) <i>grisea</i>	0	1
	Environmental Stress; Problem	Abiotic disorder	0	2
Grain Sorghum C = 1 H = 0	Anthracnose	<i>Colletotrichum graminicola</i>	1	0
Perennial Ryegrass C = 2 H = 0		<i>Drechslera</i> sp./spp.	1	0
		Environmental Stresses	1	0
Ryegrass C = 5 H = 0		<i>Bipolaris</i> sp./spp.	1	0
		<i>Drechslera</i> sp./spp.	1	0
		No Pathogen Found	1	0
		<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Seashore Paspalum C = 4 H = 0	Slime Mold	Class myxomycetes; myxomycota	1	0
		<i>Bipolaris</i> sp./spp.	1	0
		Environmental Stresses	1	0
		<i>Rhizoctonia solani</i>	1	0
St. Augustinegrass C = 24 H = 49	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	15
	Fairy Ring	Various fungi	3	0
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	12
	Gray Leaf Spot	<i>Magnaporthe</i> (ana. <i>Pyricularia</i> ) <i>grisea</i>	2	4
	Cultural/Environmental Problem	Abiotic disorder	1	6
	Environmental Stress; Problem	Abiotic disorder	1	9
	Root Problems	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	0	1
	Large Patch	<i>Thanatephorus</i> ( <i>Rhizoctonia</i> ) <i>cucumeris</i> ( <i>solani</i> )	1	0
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces graminis</i>	9	0
	Insect Damage	Unidentified Insect	2	0
		<i>Rhizoctonia solani</i>	2	0
		<i>Rhizoctonia</i> sp./spp.	3	0
		Unknown cause	0	1

Tall Fescue C = 11 H = 0	Brown Patch	<i>Rhizoctonia</i> sp./spp.	3	0
	Fairy Ring	Various fungi	1	0
	Cultural/Environmental Problem	Abiotic disorder	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	4	0
	Insect Damage	Unidentified Insect	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Unknown; No Site Specified C = 2 H = 0		<i>Bipolaris</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Zoysia Grass C = 35 H = 58	Anthracnose	<i>Colletotrichum graminicola</i>	0	2
	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	18
	Melting Out (Turfgrass)	<i>Drechslera</i> sp./spp.	1	0
	Fairy Ring	Various fungi	1	0
	Rhizoctonia Crown and Root Rot	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	0	1
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	6
	Cultural/Environmental Problem	Abiotic disorder	7	16
	Environmental Stress; Problem	Abiotic disorder	1	13
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	2	0
	Root Decline of Warm Season Grasses	<i>Gaeumannomyces graminis</i>	2	0
	Leaf Rust; rust	<i>Puccinia</i> sp./spp.	2	0
	Dollar Spot	<i>Sclerotinia homeocarpa</i>	1	1
	Insufficient Sample	Identification Analysis	1	0
		<i>Bipolaris</i> sp./spp.	2	0
		No Pathogen Found	4	0
		<i>Rhizoctonia solani</i>	8	0
		<i>Rhizoctonia</i> sp./spp.	2	1
		No Pathogen Found	1	0

**VEGETABLES**

(Total Diagnoses 354: C=277; H=77)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Allium; Onions; Leeks; Garlic C = 1 H = 0	Unknown Abiotic Disorder	Abiotic disorder	1	0
Asparagus C = 1 H = 4	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	1
	Environmental Stress; Problem Root Rot	Abiotic disorder Unidentified Agent	0 0	2 1
Bean C = 3 H = 6	Sclerotinia Blight	<i>Sclerotinia</i> sp./spp.	1	0
	Rhizoctonia Blight	<i>Rhizoctonia solani</i>	0	1
	Rust	<i>Uromyces</i> sp./spp.	0	1
	Environmental Stress; Problem	Abiotic disorder	0	2
	Root Problems	Abiotic disorder	0	2
		No Pathogen Found	1	0
		Unknown cause	1	0
Bell Pepper C = 23 H = 0	Unknown	General	1	0
	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Bacterial Leaf Spot	<i>Xanthomonas</i> sp./spp.	4	0
	Physiological Responses	Abiotic disorder	1	0
	Sclerotinia Rot	<i>Sclerotinia sclerotiorum</i>	1	0
	Pythiaceous Root Rot	Family Pythiaceae	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	3	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
	Pythium Damping Off	<i>Pythium</i> sp./spp.	1	0
		Abiotic disorder	4	0
	No Pathogen Found	5	0	
Broccoli C = 4 H = 0	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Physiological Responses	Abiotic disorder	1	0
		No Pathogen Found	1	0
		<i>Xanthomonas campestris</i>	1	0
Brussels-sprouts C = 1 H = 0		Unknown Bacterial Disease	1	0
Cabbage C = 12 H = 2	Black Rot	<i>Xanthomonas campestris</i>	1	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Bacterial Leaf Spot	<i>Xanthomonas</i> sp./spp.	1	0



	Cultural/Environmental Problem	Abiotic disorder	0	2
	Nutritional Deficiency	Abiotic disorder	1	0
		No Pathogen Found	3	0
		Unknown cause	1	0
		<i>Xanthomonas campestris</i>	3	0
	No Pathogen Found	Identification Analysis	1	0
Cantaloupe; Cantaloupe C = 14 H = 0	Cucurbit Downy Mildew	<i>Pseudoperonospora cubensis</i>	1	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Alternaria Leaf Spot	<i>Alternaria sp./spp.</i>	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	3	0
	Nutrient Imbalance	Abiotic disorder	1	0
		Abiotic disorder	1	0
		No Pathogen Found	3	0
		Unknown cause	1	0
	No Pathogen Found	Identification Analysis	2	0
Carrot C = 3 H = 0	Unknown	General	1	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Alternaria Leaf Spot	<i>Alternaria sp./spp.</i>	1	0
		No Pathogen Found	1	0
Cole Crops C = 1 H = 0				
Collards C = 3 H = 2	Unknown	General	1	1
	Environmental Stress; Problem	Abiotic disorder	0	1
		<i>Xanthomonas campestris</i>	1	0
	Bacterial Leaf Spot	<i>Xanthomonas campestris</i>	1	0
Cucumber C = 15 H = 1	Downy Mildew	<i>Peronospora sp./spp.</i>	1	0
	Phytophthora Stem Rot	<i>Phytophthora sp./spp.</i>	1	0
	Bacterial Soft Rot	Unidentified Bacterium	1	0
	Corynespora Leaf Spot	<i>Corynespora sp./spp.</i>	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	1	0
	Nutritional Analysis	Abiotic disorder	1	0
	Physiological Responses	Abiotic disorder	1	0
	Bacterial Leaf Spot	Unidentified Bacteria	1	0
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum sp./spp.</i>	2	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora sp./spp.</i>	1	0
	Undetermined Injury or Pest	Identification Analysis	0	1
		Abiotic disorder	2	0

		Unknown Agent	1	0
		Unknown cause	1	0
Eggplant C = 9 H = 0	Phomopsis Leaf Spot	<i>Phomopsis sp./spp.</i>	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	1	0
	Bacterial Wilt	<i>Ralstonia solanacearum</i>	1	0
		Abiotic disorder	3	0
		No Pathogen Found	1	0
		Oomycetes	1	0
		No Pathogen Found	Identification Analysis	1
Garden Beet C = 1 H = 0	No Pathogen Found	Identification Analysis	1	0
Gourd C = 1 H = 0		Abiotic disorder	1	0
Indian Mustard C = 0 H = 1	Septoria Leaf Spot	<i>Septoria sp./spp.</i>	0	1
Kale C = 8 H = 0	Black Rot	<i>Xanthomonas campestris</i>	3	0
	Bacterial Leaf Spot	<i>Xanthomonas sp./spp.</i>	1	0
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	2	0
		No Pathogen Found	1	0
		<i>Xanthomonas campestris</i>	1	0
Lettuce C = 3 H = 0	Botrytis Blight	<i>Botrytis sp./spp.</i>	1	0
	Fusarium Root; Crown Rot	<i>Fusarium sp./spp.</i>	1	0
	Bacterial Leaf Spot	<i>Pseudomonas sp./spp.</i>	1	0
Mustard Family C = 3 H = 1	White Leaf Spot; Gray Stem	<i>Mycosphaerella (ana. Pseudocercospora) capsellae</i>	0	1
	Pythium Blight; Cottony Blight	<i>Pythium sp./spp.</i>	1	0
	Pythium Root and/or Crown Rot	<i>Pythium sp./spp.</i>	1	0
		Unknown Bacterial Disease	1	0
Okra C = 0 H = 2	Bacterial Leaf Spot	<i>Xanthomonas sp./spp.</i>	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
Onion C = 11 H = 0	Botrytis Blight	<i>Botrytis sp./spp.</i>	2	0
	Unknown	General	1	0
	Stemphylium Leaf Spot	<i>Stemphylium sp./spp.</i>	1	0
	Thrips	<i>Thrips sp./spp.</i>	1	0
	Herbicide Injury; Exposure	Abiotic disorder	1	0
	Center Rot	<i>Pantoea ananatis</i>	1	0
	Insufficient Sample	Identification Analysis	1	0

		<i>Botrytis allii</i>	1	0
		No Pathogen Found	2	0
Pepper C = 6 H = 3	Anthracnose Fruit Rot	<i>Colletotrichum gloeosporioides</i>	0	1
	Southern Stem Rot	<i>Sclerotium rolfsii</i>	1	0
	Bacterial Leaf Spot	<i>Xanthomonas sp./spp.</i>	0	1
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	1	0
	Environmental Stress; Problem	Abiotic disorder	0	1
	Pythium Damping Off	<i>Pythium sp./spp.</i>	1	0
		Abiotic disorder	1	0
		No Pathogen Found	1	0
		<i>Rhizoctonia solani</i>	1	0
Snap Bean; Green Bean C = 2 H = 0	Ashy Stem Blight	<i>Macrophomina phaseolina</i>	1	0
	Bacterial Leaf Spot	<i>Xanthomonas sp./spp.</i>	1	0
Southern peas; Cowpeas Blackeye Peas C = 6 H = 0	Powdery Mildew	<i>Oidium sp./spp.</i>	2	0
	Fusarium Crown Rot	<i>Fusarium oxysporum</i>	1	0
	Cercospora Leaf Spot	<i>Cercospora sp./spp.</i>	2	0
		No Pathogen Found	1	0
Spinach C = 2 H = 0	Cercospora Leaf Spot	<i>Cercospora sp./spp.</i>	1	0
		Abiotic disorder	1	0
Squash C = 3 H = 3	Cucurbit Yellow Vine Disease	<i>Serratia marcescens</i>	0	1
	Powdery Mildew	<i>Erysiphe sp./spp.</i>	1	0
	Pythium Fruit Rot;Cottony Leak	<i>Pythium sp./spp.</i>	1	0
	Chemical Injury	Abiotic disorder	0	1
	Insect Damage	Unidentified Insect	0	1
		No Pathogen Found	1	0
Sweetpotato C = 1 H = 1	Cultural/Environmental Problem	Abiotic disorder	0	1
		No Pathogen Found	1	0
Tomato C = 30 H = 50	Fusarium Wilt Complex	<i>Fusarium sp./spp.</i>	1	0
	Fusarium Wilt	<i>Fusarium oxysporum</i>	2	1
	Unknown	General	0	2
	Southern Stem Rot	<i>Sclerotium rolfsii</i>	2	1
	Alternaria Leaf Spot	<i>Alternaria sp./spp.</i>	0	1
	Septoria Leaf Spot	<i>Septoria sp./spp.</i>	0	4
	Bacterial Leaf Spot	<i>Xanthomonas sp./spp.</i>	4	3
	Mealybugs	Family Pseudococcidae	1	0
	Herbicide Injury; Exposure	Abiotic disorder	1	3

	Herbicide Drift	Abiotic disorder	0	2
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	9
	Root Problems	Abiotic disorder	0	1
	Unknown Abiotic Disorder	Abiotic disorder	0	1
	Septoria Leaf Blight	<i>Septoria lycopersici</i>	0	4
	Unidentified Virus	Unidentified Virus	1	0
	Early Blight; Leaf Spot	<i>Alternaria solani</i>	0	6
	Rust Mites	Order acari	0	1
	Pythium Blight; Cottony Blight	<i>Pythium</i> sp./spp.	0	1
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	3	0
	Rhizopus Head Rot	<i>Rhizopus</i> sp./spp.	1	0
	Bacterial Pathogens	General	0	1
	Insufficient Sample	Identification Analysis	3	0
	Undetermined Injury or Pest	Identification Analysis	0	1
		Abiotic disorder	0	1
		<i>Fusarium</i> sp./spp.	0	1
		No Pathogen Found	8	0
		Unknown Agent	1	0
		Unknown Bacterial Disease	1	0
		Unknown cause	1	0
	No Pathogen Found	Identification Analysis	0	4
	Southern Blight	<i>Sclerotium rolfsii</i>	0	1
Turnip C = 2 H = 1	White Leaf Spot; Gray Stem	<i>Mycosphaerella</i> (ana. <i>Pseudocercospora</i> <i>capsellae</i>	0	1
		No Pathogen Found	1	0
		Unknown Bacterial Disease	1	0
Watermelon C = 91 H = 0	Gummy Stem Blight	<i>Didymella</i> sp./spp.	1	0
	Watermelon Fruit Blotch	<i>Acidovorax avenae</i>	3	0
	Downy Mildew	<i>Peronospora</i> sp./spp.	1	0
	Fusarium Wilt	<i>Fusarium oxysporum</i>	12	0
	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	14	0
	Ozone Damage	Abiotic disorder	1	0
	Physiological Responses	Abiotic disorder	3	0
	Anthracoise; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
	Pythiaceous Root Rot	Family Pythiaceae	1	0
	Gummy Stem Blight	<i>Didymella</i> (ana. <i>Phoma</i> ) <i>bryonae</i> ( <i>cucurbitacearum</i> )	12	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	5	0

	Pythium Damping Off	<i>Pythium</i> sp./spp.	3	0
	Insufficient Sample	Identification Analysis	1	0
		Abiotic disorder	7	0
		Environmental Stresses	1	0
		No Pathogen Found	21	0
		Unknown Agent	1	0
		Unknown cause	1	0
	No Pathogen Found	Identification Analysis	1	0
Yellow Squash C = 14 H = 0	Phytophthora Fruit Rot	<i>Phytophthora capsici</i>	1	0
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	2	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
	Insufficient Sample	Identification Analysis	1	0
		Abiotic disorder	2	0
		No Pathogen Found	3	0
		Unknown Agent	1	0
	Unknown cause	1	0	
Zucchini Squash C = 3 H = 0	Downy Mildew	<i>Peronospora</i> sp./spp.	1	0
	Bacterial Leaf Spot	<i>Pseudomonas syringae</i>	1	0
	No Pathogen Found	Identification Analysis	1	0

**WOODY ORNAMENTALS**  
(Total Diagnoses 226: C=134; H=92)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Anise Tree C = 1 H = 0	No Pathogen Found	Identification Analysis	1	0
Arborvitae C = 0 H = 2	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
Azalea; Rhododendron C = 5 H = 7	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Flea Beetles	Subfamily Alticinae	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	3
	Root Problems	Abiotic disorder	0	2
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	2	0
	Insect Damage	Unidentified Insect	1	1
Bamboo C = 0 H = 2	Rust	<i>Uromyces</i> sp./spp.	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
Banana Shrub C = 0 H = 2	Environmental Stress; Problem	Abiotic disorder	0	1
	Insect Damage	Unidentified Insect	0	1
Bigleaf Hydrangea C = 1 H = 0	Botrytis Blight	<i>Botrytis</i> sp./spp.	1	0
Boxleaf Japanese Holly C = 0 H = 1	Root Problems	Abiotic disorder	0	1
Boxwood C = 19 H = 16	Leaf Blight	<i>Volutella buxi</i>	1	0
	Granulate Ambrosia Beetle	<i>Xylosandrus crassiusculus</i>	1	0
	Cultural/Environmental Problem	Abiotic disorder	1	2
	Planting Too Deep	Abiotic disorder	1	0
	Environmental Stress; Problem	Abiotic disorder	0	7
	Root Problems	Abiotic disorder	1	5
	Boxwood Macrophoma Leaf Spot	<i>Dothiorella (Macrophoma) sempervirens (candollei)</i>	3	0
	Macrophoma Blight; Dieback	<i>Macrophoma</i> sp./spp.	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	0	1

	Boxwood Volutella Blight; Canker	<i>Volutella buxi</i>	6	1
	Root Rot	Unidentified Agent	1	0
	No Pathogen Found	No Pathogen Found	2	0
	No Pathogen Found	Identification Analysis	1	0
Boxwood Hybrids C = 2 H = 0	Boxwood Macrophoma Leaf Spot	<i>Dothiorella (Macrophoma) sempervirens (candollei)</i>	1	0
	Boxwood Volutella Blight; Canker	<i>Volutella buxi</i>	1	0
Butterfly Bush; Summer Lilac C = 1 H = 1	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
		Unknown cause	0	1
Camellia C = 6 H = 9	Camellia Petal; Flower Blight	<i>Ciborinia camelliae</i>	0	1
	Glomerella Canker	<i>Glomerella (Colletotrichum) cingulata (gloeosporioides)</i>	0	1
	Not Pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	0	1
	Camellia Yellow Mottle	Camellia Yellow Mottle Virus	0	1
	Tea Scale	<i>Fiorinia theae</i>	0	1
	Cultural/Environmental Problem	Abiotic disorder	0	1
	Nutrient Imbalance	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1
	Oedema; Edema	Abiotic disorder	2	0
	Root Problems	Abiotic disorder	0	1
	Anthracnose; Colletotrichum Leaf Spot	<i>Colletotrichum</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
		No Pathogen Found	2	0
Cherry-laurel C = 0 H = 3	Cultural/Environmental Problem	Abiotic disorder	0	2
	Environmental Stress; Problem	Abiotic disorder	0	1
Chinese Fringe Flower C = 1 H = 0	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Chinese Fringe-flower C = 1 H = 0		No Pathogen Found	1	0
Chinese Holly C = 1 H = 0	Dieback; Canker; Twig Blight	<i>Botryosphaeria</i> sp./spp.	1	0
Citrus		No Pathogen Found	1	0

C = 1 H = 0				
Common Boxwood C = 7 H = 0	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Boxwood Macrophoma Leaf Spot	<i>Dothiorella (Macrophoma)</i> <i>sempervirens (candollei)</i>	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	3	0
	Boxwood Volutella Blight; Canker	<i>Volutella buxi</i>	2	0
Confederate (Star-j.) Jasmine C = 0 H = 2	Environmental Stress; Problem	Abiotic disorder	0	1
	Root Problems	Abiotic disorder	0	1
Crape Myrtle C = 1 H = 2	Unknown	General	0	1
	Oedema; Edema	Abiotic disorder	1	0
	Insect Damage	Unidentified Insect	0	1
Cryptomeria C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
Dogwood C = 0 H = 1	Cultural/Environmental Problem	Abiotic disorder	0	1
Elaeagnus C = 0 H = 2	Cultural/Environmental Problem	Abiotic disorder	0	1
	Root Problems	Abiotic disorder	0	1
Euonymus C = 0 H = 1	Insect Damage	Unidentified Insect	0	1
Firethorn C = 0 H = 1		Unknown cause	0	1
Florida Anisetree C = 1 H = 0	Root Rot	<i>Thielaviopsis</i> sp./spp.	1	0
Gardenia C = 6 H = 0	Cultural/Environmental Problem	Abiotic disorder	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	4	0
	Bacterial Leaf Spot	<i>Xanthomonas campestris</i>	1	0
Glossy Abelia C = 1 H = 0	Root Problems	Abiotic disorder	1	0
Grapefruit C = 1	Additional Sample Requested	Identification Analysis	1	0



H = 0				
Heavenly Bamboo C = 4 H = 0	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	2	0
	Bacterial Leaf Spot	<i>Xanthomonas</i> sp./spp.	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Hibiscus C = 0 H = 1	Root Problems	Abiotic disorder	0	1
Hinoki Falsecypress C = 1 H = 0	Rhizoctonia Foliar/ Aerial/ Web Blight	<i>Rhizoctonia solani</i>	1	0
Holly C = 2 H = 6	Cultural/Environmental Problem	Abiotic disorder	0	1
	Environmental Stress; Problem	Abiotic disorder	0	3
	Root Problems	Abiotic disorder	0	2
	Boxwood Macrophoma Leaf Spot	<i>Dothiorella (Macrophoma) sempervirens (candollei)</i>	1	0
		No Pathogen Found	1	0
Hydrangea C = 4 H = 2	Rhizoctonia Crown and Stem Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	0	1
	Cyclamen Mite	<i>Phytonemus (Steneotarsonemus) pallidus</i>	1	0
	Granulate Ambrosia Beetle	<i>Xylosandrus crassiusculus</i>	1	0
	Cultural/Environmental Problem	Abiotic disorder	0	1
		No Pathogen Found	1	0
Indian Hawthorn C = 3 H = 1	Cercospora Leaf Spot	<i>Cercospora</i> sp./spp.	1	0
	Root Girdling	Abiotic disorder	1	0
	Oedema; Edema	Abiotic disorder	1	0
	Root Problems	Abiotic disorder	0	1
Japanese Barberry C = 1 H = 0	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Japanese Cedar C = 0 H = 1	Cultural/Environmental Problem	Abiotic disorder	0	1
Japanese Cleyera C = 4 H = 0	Rhizoctonia Root; Crown Rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Root Problems	Abiotic disorder	1	0
	Pythium Root and/or Crown Rot	<i>Pythium</i> sp./spp.	1	0
		No Pathogen Found	1	0
Japanese Holly C = 2 H = 3	Cultural/Environmental Problem	Abiotic disorder	0	3
		Abiotic disorder	1	0
		<i>Botryosphaeria</i> sp./spp.	1	0

Jasmine C = 2 H = 0	Mites	Order Acari	1	0
	Anthracnose; Twig Dieback	<i>Colletotrichum</i> sp./spp.	1	0
Juniper C = 2 H = 3	Environmental Stress; Problem	Abiotic disorder	0	2
	Phomopsis Tip Blight; Needle Blight	<i>Phomopsis juniperovora</i>	0	1
	Root Rot	Unidentified Agent	1	0
		Abiotic disorder	1	0
Ligustrum; Privet C = 1 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
		No Pathogen Found	1	0
Loropetalum C = 1 H = 1	Bacterial Gall	<i>Pseudomonas syringae</i>	0	1
	Salt Damage	Abiotic disorder	1	0
Lowbush Blueberry C = 2 H = 0	Hemlock-Blueberry Rust	<i>Thekopsora minima</i>	1	0
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Myrtle-leaved Distylium C = 2 H = 0	Root Rot	Unidentified Agent	1	0
		Environmental Stresses	1	0
Oakleaf Hydrangea C = 1 H = 0	Bacterial Leaf Spot	<i>Xanthomonas</i> sp./spp.	1	0
Osmanthus C = 0 H = 1	Root Problems	Abiotic disorder	0	1
Palm C = 0 H = 1	Unknown	General	0	1
Pittosporum C = 1 H = 0	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	1	0
Pondberry C = 1 H = 0	Sooty Mold	Unidentified Fungus	1	0
Prunus C = 2 H = 0		No Pathogen Found	1	0
	Bacterial shot hole	<i>Pseudomonas syringae</i>	1	0
Rhododendron C = 3	Algae	General	0	1
	Environmental Stress; Problem	Abiotic disorder	0	1

H = 2	Oedema; Edema	Abiotic disorder	1	0
	Root Problems	Abiotic disorder	1	0
	No Pathogen Found	Identification Analysis	1	0
Rose C = 31 H = 10	Crown Gall	<i>Agrobacterium tumefaciens</i>	1	0
	Powdery Mildew	<i>Oidium</i> sp./spp.	1	0
	Unknown	General	0	1
	Crown and Root Rot	<i>Phytophthora</i> sp./spp.	0	1
	Roseslug	<i>Endelomyia aethiops</i>	1	0
	Herbicide Injury; Exposure	Abiotic disorder	0	1
	Root Girdling	Abiotic disorder	2	0
	Environmental Stress; Problem	Abiotic disorder	0	1
	Poor Root Development	Abiotic disorder	1	0
	Root Problems	Abiotic disorder	3	2
	Phytophthora Crown, Root and/or Stem Rot	<i>Phytophthora</i> sp./spp.	2	0
	Rose Rosette Disease	Rose rosette-associated virus (RRaV)	11	3
	Insufficient Sample	Identification Analysis	1	0
		No Pathogen Found	5	0
		Unknown Agent	1	0
		Unknown cause	0	1
		No Pathogen Found	Identification Analysis	2
Rose-of-sharon (Shrub-althea) C = 0 H = 1	Hibiscus Rust	<i>Kuehneola malvicola</i>	0	1
Rusty Lyonia C = 1 H = 0	Leaf and flower gall	<i>Exobasidium ferrugineae</i>	1	0
Sago Palm C = 0 H = 1		Unknown cause	0	1
Sasanqua Camellia C = 1 H = 0	Camellia Leaf Gall	<i>Exobasidium camelliae</i>	1	0
Sawara Falsecypress C = 1 H = 0	No Pathogen Found	Identification Analysis	1	0
Southern Bayberry; Wax Myrtle C = 1	Cultural/Environmental Problem	Abiotic disorder	1	0

H = 0				
Sweet (Tea) Olive C = 0 H = 1		<i>Poria sp./spp.</i>	0	1
Unknown; No Site Specified C = 0 H = 1	Insect Damage	Unidentified Insect	0	1
Viburnum C = 2 H = 1	Granulate Ambrosia Beetle	<i>Xylosandrus crassiusculus</i>	1	0
	Root Problems	Abiotic disorder	0	1
		No Pathogen Found	1	0
Wax-leaf Privet C = 1 H = 0	Cercospora Leaf Spot	<i>Cercospora sp./spp.</i>	1	0
Weeping Cherry C = 0 H = 1	Environmental Stress; Problem	Abiotic disorder	0	1
Yew C = 1 H = 0		No Pathogen Found	1	0