

Plant Disease Clinic Annual Report 2017

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2017 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 2017, 603, physical commercial plant samples were processed for diagnosis at Athens and Griffin and 618 physical commercial plant samples were processed for diagnosis at Tifton. For the homeowners, 249 physical 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: 2017 PLANT SPECIMEN DIAGNOSES

Crop	Commercial Samples	Homeowner Samples	Total
Field Crops	295	2	297
Fruits and Nuts	224	40	264
Herbaceous Ornamentals	100	23	123
Miscellaneous	3	3	6
Trees	108	96	204
Turf	306	111	417
Vegetables	450	74	524
Woody Ornamentals	252	122	374
Total*	1738	471	2209

*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. This data is for commercial physical, homeowner physical and homeowner digital samples.

The largest crop category for Commercial clinic submissions was Vegetables, followed by Turf. The largest crop category for Homeowner clinic submissions was Woody Ornamentals and then Turf.

MONTHLY SAMPLE SUBMISSION SUMMARY: 2017

Month	Commercial Samples	Homeowner Samples
January	25	21
February	67	27
March	82	34
April	93	31
May	172	88
June	199	91
July	118	42
August	152	49
September	117	33
October	127	29
November	57	17
December	21	5
Total*	1230	467

*The total number of samples received shown here is smaller than the diagnoses shown in the clinic summaries because some samples have more than one problem or diagnosis. This data is for commercial physical, homeowner physical and homeowner digital samples.

DISTRIBUTION OF COMMERCIAL SAMPLES SUBMITTED BY COUNTY FOR 2017

County	Samples	County	Samples	County	Samples
Appling	8	Echols	12	NA	60
Atkinson	7	Effingham	4	Newton	2
Bacon	36	Elbert	3	Oconee	10
Baker	4	Emanuel	7	Paulding	3
Baldwin	1	Evans	5	Peach	4
Banks	1	Fayette	4	Pierce	10
Barrow	5	Floyd	6	Polk	1
Bartow	1	Forsyth	6	Pulaski	8
Ben Hill	5	Franklin	4	Putnam	1
Berrien	13	Fulton	29	Rabun	4
Bibb	5	Gilmer	4	Randolph	1
Bleckley	1	Gordon	5	Richmond	7
Brantley	5	Grady	11	Rockdale	2
Brooks	20	Greene	2	Screven	10
Bryan	5	Gwinnett	32	Spalding	4
Bulloch	5	Hall	5	Stephens	1
Burke	12	Harris	7	Sumter	12
Butts	2	Hart	4	Tattnall	22
Candler	5	Henry	8	Taylor	4
Carroll	7	Houston	8	Telfair	9
Chatham	4	Irwin	19	Terrell	3
Chattooga	1	Jackson	7	Thomas	11
Cherokee	5	Jasper	1	Tift	96
Clarke	41	Jeff Davis	5	Toombs	10
Cobb	13	Jefferson	9	Troup	1
Coffee	6	Jenkins	5	Turner	36
Colquitt	113	Lanier	3	Twiggs	2
Columbia	1	Laurens	5	Union	1
Cook	34	Lee	6	Upton	3
Coweta	4	Lowndes	22	Walker	5
Crawford	1	Lumpkin	1	Walton	2
Crisp	9	Macon	5	Ware	8
Dawson	1	Madison	6	Washington	3
De Kalb	15	Marion	1	Wayne	6
Decatur	11	McDuffie	84	Webster	6
Dodge	5	Meriwether	2	Wheeler	1
Dooly	13	Mitchell	7	White	1
Dougherty	10	Morgan	6	Wilcox	10
Douglas	13	Murray	2	Worth	16
Early	3	Muscogee	17		

DISTRIBUTION OF HOMEOWNER SAMPLES SUBMITTED BY COUNTY FOR 2017

County	Samples	County	Samples
Appling	1	Jeff Davis	10
Bacon	2	Jenkins	2
Baker	2	Jones	3
Baldwin	2	Lamar	1
Banks	1	Laurens	1
Barrow	18	Lee	11
Bartow	1	Liberty	1
Ben Hill	3	Macon	1
Bibb	14	McDuffie	9
Brooks	2	Monroe	12
Bulloch	1	Montgomery	1
Burke	4	Morgan	20
Camden	2	Muscogee	18
Carroll	5	Newton	8
Catoosa	7	Oconee	4
Chatham	4	Paulding	3
Cherokee	4	Pickens	4
Clarke	46	Pierce	10
Cobb	20	Polk	1
Coffee	1	Rabun	5
Colquitt	6	Randolph	1
Columbia	2	Richmond	2
Coweta	2	Rockdale	5
Crawford	1	Screven	1
Dade	6	Spalding	1
De Kalb	6	Stephens	1
Decatur	1	Sumter	1
Dooly	1	Tattnall	1
Dougherty	10	Thomas	5
Douglas	4	Tift	2
Evans	2	Towns	5
Fayette	5	Troup	7
Forsyth	5	Turner	1
Fulton	25	Twiggs	2
Greene	7	Union	16
Gwinnett	20	Walton	9
Habersham	2	Ware	7
Hall	1	Washington	2
Harris	3	Wayne	1
Henry	15	Whitfield	3
Jackson	1	Wilkes	2
Jasper	2		

CROP SUMMARIES

The following sections contain summaries of diagnosed samples by crop category for commercial physical samples, homeowner physical samples and homeowner digital samples.

C: Commercial

H: Homeowner

FIELD CROPS

(Total Diagnoses 297: C=295; H=2)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Alfalfa C = 3 H = 0	Summer black stem; Leaf spot	<i>Cercospora medicaginis</i>	1	0
		<i>Colletotrichum sp./spp.</i>	1	0
	Leptosphaerulina leaf spot; Blight	<i>Leptosphaerulina trifolii</i>	1	0
Annual Ryegrass C = 2 H = 0		<i>Ascochyta sp./spp.</i>	1	0
		<i>Drechslera sp./spp.</i>	1	0
Bermudagrass C = 17 H = 0	Rust	<i>Uromyces sp./spp.</i>	1	0
	Leaf spot	<i>Bipolaris sp./spp.</i>	8	0
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	1	0
	Leaf rust; Rust	<i>Puccinia sp./spp.</i>	3	0
	No pathogen found	Identification Analysis	2	0
	Large patch	<i>Rhizoctonia solani</i>	2	0
Common Wheat C = 18 H = 0	Powdery mildew	<i>Erysiphe sp./spp.</i>	1	0
	Leaf spot	<i>Stagonospora sp./spp.</i>	1	0
	Cultural/environmental problem	Abiotic disorder	1	0
	Nutritional deficiency	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	1	0
	Root problems	Abiotic disorder	1	0
	Leaf spot	<i>Bipolaris sp./spp.</i>	1	0
	Insects	Class insecta	1	0
	Tan spot	<i>Drechslera sp./spp.</i>	1	0
	Root rot	Various Fungi	1	0
		<i>Drechslera sp./spp.</i>	1	0
		<i>Rhizoctonia sp./spp.</i>	2	0
		Secondary Agents; Saprophytes; Unspecif.	1	0
	Stripe rust; Yellow rust	<i>Puccinia striiformis</i>	3	0
No pathogen found	Identification Analysis	1	0	
Corn C = 16 H = 2	Unknown	General	1	0
	Charcoal rot	<i>Macrophomina phaseolina</i>	1	0
	Common corn rust	<i>Puccinia sorghi</i>	3	0
	Cercospora leaf spot	<i>Cercospora sp./spp.</i>	1	0

	Chemical injury	Abiotic disorder	4	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Unknown abiotic disorder	Abiotic disorder	1	0
	Curvularia blight; Leaf spot	<i>Curvularia</i> sp./spp.	1	0
	Southern corn rust	<i>Puccinia polysora</i>	1	0
	Insect damage	Unidentified Insect	0	1
		Unknown cause	1	0
	Southern leaf blight	<i>Bipolaris maydis</i>	2	0
Cotton C = 64 H = 0	Bacterial blight	<i>Xanthomonas campestris</i>	16	0
	Fusarium wilt	<i>Fusarium oxysporum</i>	5	0
	Unknown	General	11	0
	Rhizoctonia root rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia damping off	<i>Rhizoctonia</i> sp./spp.	3	0
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	1	0
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1	0
	Corynespora leaf spot	<i>Corynespora cassiicola</i>	2	0
	Stemphylium leaf spot	<i>Stemphylium</i> sp./spp.	3	0
	Southern root-knot nematode	<i>Meloidogyne incognita</i>	1	0
	Chemical injury	Abiotic disorder	1	0
	Nutritional deficiency	Abiotic disorder	2	0
		No Pathogen Found	7	0
		Unknown cause	2	0
		<i>Ramularia gossypii</i>	1	0
		False mildew	<i>Ramularia gossypii</i>	1
	Target spot	<i>Corynespora cassiicola</i>	6	0
Crowfoot Grass C = 2 H = 0		<i>Colletotrichum</i> sp./spp.	1	0
		<i>Drechslera</i> sp./spp.	1	0
Orchardgrass C = 2 H = 0	Soil compaction	Abiotic disorder	1	0
	Leaf spot	<i>Bipolaris</i> sp./spp.	1	0
Peanut C = 88 H = 0	Unknown	General	13	0
	Diplodia collar rot	<i>Diplodia gossypina</i>	10	0
	Aspergillus crown rot	<i>Aspergillus niger</i>	5	0
	Rhizoctonia pod rot	<i>Rhizoctonia</i> sp./spp.	2	0
	Rhizoctonia root rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Southern stem rot	<i>Sclerotium rolfsii</i>	1	0
	Rhizoctonia damping off	<i>Rhizoctonia</i> sp./spp.	1	0
	Lesion nematodes	<i>Pratylenchus</i> sp./spp.	3	0
	Chemical injury	Abiotic disorder	8	0
	Zinc deficiency	Abiotic disorder	1	0
	Leaf scorch; Pepper spot	<i>Leptosphaerulina crassiasca</i>	1	0

		No Pathogen Found	14	0
		<i>Rhizoctonia solani</i>	4	0
		<i>Sclerotium rolfsii</i>	1	0
		Unknown cause	1	0
	No pathogen found	Identification Analysis	1	0
	Southern blight	<i>Sclerotium rolfsii</i>	1	0
	Root-knot nematodes	<i>Meloidogyne sp./spp.</i>	1	0
	Rhizoctonia limb rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Cylindrocladium black rot	<i>Calonectria sp./spp.</i>	3	0
	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	2	0
	Rhizoctonia stem rot	<i>Rhizoctonia solani</i>	4	0
	Peanut late leaf spot	<i>Passalora personata</i>	4	0
	Peanut early leaf spot	<i>Passalora arachidicola</i>	5	0
Pearl Millet C = 3 H = 0	Gray leaf spot	<i>Pyricularia grisea</i>	3	0
Perennial Peanut C = 1 H = 0	Unknown abiotic disorder	Abiotic disorder	1	0
Perennial Ryegrass C = 6 H = 0	Cultural/environmental problem	Abiotic disorder	1	0
	Leaf rust; Rust	<i>Puccinia sp./spp.</i>	2	0
		<i>Drechslera sp./spp.</i>	1	0
		<i>Rhizoctonia sp./spp.</i>	2	0
Ryegrass C = 5 H = 0	Helminthosporium leaf spot	<i>Drechslera sp./spp.</i>	2	0
	Nutritional deficiency	Abiotic disorder	1	0
	Root rot	Various Fungi	2	0
Sericea Lespedeza C = 1 H = 0	Charcoal rot	<i>Macrophomina phaseolina</i>	1	0
Sorghum C = 3 H = 0	Anthraxnose	<i>Colletotrichum graminicola</i>	1	0
	Leaf spot	Unknown cause	1	0
		<i>Fusarium sp./spp.</i>	1	0
Soybean C = 16 H = 0	Unknown	General	2	0
	Charcoal rot	<i>Macrophomina phaseolina</i>	1	0
	Fusarium root rot; Stalk rot	<i>Fusarium oxysporum</i>	1	0
		No Pathogen Found	1	0
	No pathogen found	Identification Analysis	1	0
	Southern blight	<i>Sclerotium rolfsii</i>	1	0
	Cercospora stem blight	<i>Cercospora kikuchii</i>	2	0
	Soybean anthracnose	<i>Colletotrichum destructivum</i>	1	0
	Target spot	<i>Corynespora cassiicola</i>	2	0

	Soybean Phomopsis blight	<i>Diaporthe phaseolorum</i>	4	0
Sugarcane C = 2 H = 0	Unknown	General	1	0
	Eye spot	<i>Bipolaris sacchari</i>	1	0
Sunflower C = 2 H = 0	Unknown	General	1	0
		<i>Alternaria sp./spp.</i>	1	0
Tall Fescue C = 2 H = 0	Brown patch	<i>Rhizoctonia sp./spp.</i>	1	0
	Leaf rust; Rust	<i>Puccinia sp./spp.</i>	1	0
Tobacco (Flue-cured) C = 39 H = 0	Unknown	General	1	0
	Blue mold	<i>Peronospora hyoscyami</i>	4	0
	Black shank	<i>Phytophthora nicotianae</i>	3	0
	Chemical; Environmental injury	Abiotic disorder	1	0
	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1	0
	Pythium damping off	<i>Pythium sp./spp.</i>	8	0
		Abiotic disorder	2	0
		No Pathogen Found	13	0
		<i>Rhizoctonia solani</i>	1	0
	No pathogen found	Identification Analysis	1	0
	Potyvirus Group	<i>Potyvirus sp./spp.</i>	1	0
	Potato virus Y (PVY)	Potyvirus Potato Virus Y	1	0
Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	2	0	
Triticale C = 2 H = 0	Leaf spot	<i>Stagonospora sp./spp.</i>	1	0
	No pathogen found	Identification Analysis	1	0
Watermelon C = 1 H = 0		No Pathogen Found	1	0

FRUITS AND NUTS

(Total Diagnoses 264: C=224; H=40)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Apricot C = 0 H = 1	Stem canker	Unidentified Canker	0	1
Blackberry C = 15 H = 2	Cane blotch	<i>Cephaleuros</i> sp./spp.	0	1
	Mites	Order Acari	1	0
	Spider mites	Family Tetranychidae	2	0
	Thrips	<i>Thrips</i> sp./spp.	1	0
	Cane and leaf rust	<i>Kuehneola uredinis</i>	2	0
	Cane and leaf rust	<i>Kuehneola</i> sp./spp.	2	0
		<i>Cephaleuros virescens</i>	0	1
		<i>Coniothyrium</i> sp./spp.	1	0
		<i>Leptosphaeria</i> sp./spp.	1	0
		<i>Phytophthora</i> sp./spp.	1	0
		<i>Pseudocercospora</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
		Unknown cause	1	0
Blueberry C = 123 H = 7	Crown gall	<i>Agrobacterium</i> sp./spp.	1	0
	Unknown	General	1	1
	Rhizoctonia stem and root rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Nutritional deficiency	Abiotic disorder	1	0
	Nutrient imbalance	Abiotic disorder	1	1
	Winter injury	Abiotic disorder	0	1
	Root problems	Abiotic disorder	1	1
	Viruses	Viruses	2	0
	Phytotoxicity	Abiotic disorder	1	0
	Unspecified pathology	<i>Cladosporium</i> sp./spp.	1	0
	Hemlock-blueberry rust	<i>Thekopsora minima</i>	1	0
	Scale insects	Order homoptera	1	0
	Basidiomycete	Unidentified Basidiomycete	1	0
	Insects	Class insecta	1	0
	Sooty mold	Unidentified Fungus	1	0
	Root rot	Various Fungi	1	0
	Insect damage	Unidentified Insect	2	0
		Abiotic disorder	2	0
		Blueberry Necrotic Ring Blotch Disorder virus	1	0

		suspected		
		<i>Botryosphaeria</i> sp./spp.	5	0
		<i>Colletotrichum</i> sp./spp.	13	0
		Complex of Biotic; Abiotic Factors	1	0
		Environmental Stresses	4	0
		<i>Fusicoccum</i> sp./spp.	3	0
		<i>Pestalotia</i> sp./spp.	4	0
		<i>Phomopsis</i> sp./spp.	5	0
		<i>Phytophthora cinnamomi</i>	22	0
		<i>Phytophthora</i> sp./spp.	2	0
		<i>Pucciniastrum</i> sp./spp.	7	0
		<i>Rhizoctonia</i> sp./spp.	12	0
		<i>Septoria</i> sp./spp.	2	0
		<i>Thrips</i> sp./spp.	1	0
		Unknown Agent	2	0
		Unknown cause	1	1
		Viruses	2	0
	Root problem	Unknown cause	4	0
	Phytophthora root and crown rot	<i>Phytophthora cinnamomi</i>	1	0
	Cylindrocladium blight; Root rot	<i>Calonectria</i> sp./spp.	2	0
	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	7	1
	Blueberry red ringspot (BRRV)	Soymovirus Blueberry Red Ringspot Virus	2	0
Citrus C = 9 H = 2	Nutritional deficiency	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	0	2
	Scale insects	Order homoptera	1	0
	Insect damage	Unidentified Insect	1	0
		<i>Cercospora</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
		<i>Phytophthora</i> sp./spp.	2	0
		Unknown cause	1	0
Common Apple C = 1 H = 3	Fire blight	<i>Erwinia amylovora</i>	0	1
	Unknown	General	0	1
	Unidentified fungus	Unidentified Fungus	1	0
	Insect damage	Unidentified Insect	0	1
Common Fig C = 1 H = 5	Cultural/environmental problem	Abiotic disorder	0	2
	Environmental stress; Problem	Abiotic disorder	0	3
	Fig rust	<i>Cerotelium fici</i>	1	0
Common Guava	Leaf spot	<i>Pseudocercospora</i> sp./spp.	1	0

C = 1 H = 0				
Grape C = 6 H = 3	Grape downy mildew	<i>Plasmopara viticola</i>	1	0
	Powdery mildew	<i>Erysiphe sp./spp.</i>	1	0
	Mites	Order Acari	1	0
	Environmental stress; Problem	Abiotic disorder	0	2
	Unknown abiotic disorder	Abiotic disorder	0	1
		Unknown Agent	1	0
		Unknown cause	2	0
Lemon C = 0 H = 1	Insect damage	Unidentified Insect	0	1
May Hawthorne C = 3 H = 0	Rust	<i>Gymnosporangium sp./spp.</i>	1	0
		<i>Cercospora sp./spp.</i>	1	0
		<i>Corynespora sp./spp.</i>	1	0
Olive C = 6 H = 0	Drought stress damage	Abiotic disorder	1	0
		Abiotic disorder	2	0
		Unknown cause	2	0
	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1	0
Oriental Pear; Shinglo C = 3 H = 0		<i>Colletotrichum sp./spp.</i>	1	0
		<i>Erwinia sp./spp.</i>	1	0
		<i>Fusicoccum sp./spp.</i>	1	0
Peach C = 2 H = 2	Unknown	General	2	1
	Insect damage	Unidentified Insect	0	1
Pear C = 2 H = 3	Fire blight	<i>Erwinia amylovora</i>	1	1
	Unknown	General	0	1
	Bitter rot	<i>Colletotrichum sp./spp.</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
Pecan C = 6 H = 3	Anthraxnose	<i>Glomerella sp./spp.</i>	1	0
	Pecan Phylloxera	<i>Phylloxera devastatrix</i>	0	1
	Chemical injury	Abiotic disorder	2	0
	Root problems	Abiotic disorder	0	1
		No Pathogen Found	3	0
		<i>Phylloxera sp./spp.</i>	0	1
Persimmon (Ornamental) C = 0 H = 1	Insect damage	Unidentified Insect	0	1
Plum	Brown rot	<i>Monilia sp./spp.</i>	0	1

C = 0 H = 3	Wound canker	Abiotic disorder	0	1
	Black knot	<i>Apiosporina morbosa</i>	0	1
Pomegranate C = 10 H = 1	Dieback; Canker; Twig blight	<i>Botryosphaeria sp./spp.</i>	0	1
	Beetles	Order coleoptera	1	0
	Insect damage	Unidentified Insect	1	0
		<i>Cercospora sp./spp.</i>	1	0
		<i>Colletotrichum sp./spp.</i>	1	0
		<i>Pestalotia sp./spp.</i>	1	0
		Unknown cause	5	0
Raspberry C = 3 H = 0	Dieback; Canker	<i>Coniothyrium sp./spp.</i>	1	0
	Spider mites	Family Tetranychidae	1	0
		<i>Cercospora sp./spp.</i>	1	0
Satsuma Tangerine C = 3 H = 0	Scale insects	Order homoptera	1	0
		<i>Colletotrichum sp./spp.</i>	1	0
		<i>Phytophthora sp./spp.</i>	1	0
Satsuma; Mandarin; Tangerine C = 2 H = 1	Root problems	Abiotic disorder	0	1
	Scale insects	Order homoptera	1	0
		<i>Colletotrichum sp./spp.</i>	1	0
Strawberry C = 26 H = 2	Anthracnose fruit rot	<i>Colletotrichum sp./spp.</i>	1	0
	Leaf blotch	<i>Gnomonia sp./spp.</i>	2	0
	Powdery mildew	<i>Sphaerotheca sp./spp.</i>	1	0
	Scrambled-egg slime mold	<i>Fuligo septica</i>	0	1
	Angular leaf spot	<i>Xanthomonas sp./spp.</i>	1	0
	Mites	Order Acari	4	0
	Aphids (Plant lice)	Family Aphididae	1	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Phytotoxicity	Abiotic disorder	1	0
	Phytophthora root and crown rot	<i>Phytophthora cactorum</i>	1	0
		<i>Botrytis sp./spp.</i>	3	0
		<i>Cladosporium sp./spp.</i>	1	0
		Environmental Stresses	1	0
		<i>Gnomonia sp./spp.</i>	1	0
		<i>Phytophthora cactorum</i>	2	0
		<i>Phytophthora sp./spp.</i>	1	0
		<i>Botrytis cinerea</i>	1	0
	Leaf scorch	<i>Diplocarpon fragariae</i>	3	0
	Aphids; Plant lice	Family Aphididae	1	0
	Summer Grape C = 1		Unknown cause	1

H = 0				
Woodland Strawberry	Cultural/environmental problem	Abiotic disorder	1	0
C = 1				
H = 0				

HERBACEOUS ORNAMENTALS

(Total Diagnoses 123: C=100; H=23)

HOST	DISEASE	CAUSAL ORGANISM	C	H
African Violet C = 1 H = 0		<i>Botrytis</i> sp./spp.	1	0
Amaryllis C = 2 H = 0		<i>Colletotrichum</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Angel Trumpet C = 2 H = 1		<i>Potyvirus</i> sp./spp.	0	1
	Potyvirus Group	<i>Potyvirus</i> sp./spp.	1	0
	Tobacco mosaic (TMV)	Tobamovirus Tobacco Mosaic Virus	1	0
Asiatic Jasmine C = 2 H = 1	Root rot and web blight	<i>Rhizoctonia</i> sp./spp.	1	0
	Phytophthora stem rot	<i>Phytophthora</i> sp./spp.	0	1
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Begonia C = 4 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
		<i>Phytophthora</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	2	0
Black Mondo Grass C = 0 H = 1	Root problem	Unknown Cause	0	1
Boston Fern C = 1 H = 0		No Pathogen Found	1	0
Canna Lily C = 1 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
		<i>Pythium</i> sp./spp.	1	0
Christmas Fern C = 1 H = 0		<i>Pythium</i> sp./spp.	1	0
Coleus C = 5 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
		No Pathogen Found	2	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Cottony goldenaster C = 2 H = 0	Fungus gnats	Mycetophilidae fam.	1	0
		No Pathogen Found	1	0
Creeping Jenny C = 0	Phytophthora stem rot	<i>Phytophthora</i> sp./spp.	0	1

H = 1				
Creeping Phlox C = 2 H = 0 Crowfoot; Buttercup (Ornamental) C = 1 H = 0	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Southern blight	<i>Sclerotium rolfsii</i>	1	0
	Phytophthora stem rot	<i>Phytophthora sp./spp.</i>	1	0
Dahlia C = 1 H = 0	Cultural/environmental problem	Abiotic disorder	1	0
Daylily C = 1 H = 0	Daylily rust	<i>Puccinia hemerocallidis</i>	1	0
English Ivy C = 4 H = 2	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Bacterial leaf spot	<i>Xanthomonas sp./spp.</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
		<i>Rhizoctonia sp./spp.</i>	1	0
	Root problem	Unknown Cause	1	1
Ghost Plant C = 1 H = 0		<i>Potyvirus sp./spp.</i>	1	0
Ghost Plant C = 1 H = 0		<i>Potyvirus sp./spp.</i>	1	0
Greater Periwinkle C = 1 H = 0	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
Hellebore C = 0 H = 1	Hellebore black death	Carlavirus (HeNV)	0	1
Heuchera C = 2 H = 1	Bacterial leaf spot	<i>Pseudomonas syringae</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
		No Pathogen Found	1	0
Hibiscus C = 1 H = 0	Bacterial leaf spot	<i>Xanthomonas sp./spp.</i>	1	0
Holly Fern C = 2 H = 0		<i>Pythium sp./spp.</i>	1	0
		<i>Rhizoctonia sp./spp.</i>	1	0
Hosta	Cercospora leaf spot	<i>Cercospora sp./spp.</i>	1	0

C = 4 H = 2	Environmental stress; Problem	Abiotic disorder	0	1
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	1
		<i>Cercospora</i> sp./spp.	1	0
		No Pathogen Found	1	0
Japanese Spurge C = 1 H = 0	Leaf and stem blight	<i>Volutella pachysandrae</i>	1	0
Lady Fern; Athyrium C = 3 H = 0		No Pathogen Found	1	0
		<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Lily Turf C = 4 H = 1	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Root problems	Abiotic disorder	0	1
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	2	0
Lily-of-the-nile C = 2 H = 0		No Pathogen Found	1	0
	Root problem	Unknown Cause	1	0
Madagascar periwinkle; Vinca C = 5 H = 1	Aerial blight	<i>Phytophthora nicotianae</i>	1	0
	Phytophthora blight; Dieback	<i>Phytophthora nicotianae</i>	0	1
		<i>Botrytis</i> sp./spp.	1	0
		No Pathogen Found	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
		Southern blight	<i>Sclerotium rolfsii</i>	1
Mondgrass; Dwarf Lily Turf C = 5 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	2	0
		<i>Pythium</i> sp./spp.	1	0
Ostrich Fern C = 2 H = 0		<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Pachysandra C = 0 H = 2	Leaf and stem blight	<i>Volutella pachysandrae</i>	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
Pansy C = 6 H = 1	Rhizoctonia root rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Cercospora leaf spot	<i>Cercospora violae</i>	1	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	1
	No virus found	No Virus Found	1	0
		<i>Pythium</i> sp./spp.	2	0

Peace Lily C = 0 H = 1	Cultural/environmental problem	Abiotic disorder	0	1
Pennsylvania Sedge C = 1 H = 0		<i>Pythium</i> sp./spp.	1	0
Pentas; Star Flower C = 3 H = 0	Rhizoctonia root rot	<i>Rhizoctonia</i> sp./spp.	2	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Peony C = 0 H = 3	Herbicide drift	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	2
Petunias C = 3 H = 0	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Phlox Moss; Pink Phlox C = 2 H = 0	Black root rot	<i>Thielaviopsis basicola</i>	1	0
		<i>Pythium</i> sp./spp.	1	0
Red-hot Poker C = 1 H = 0		<i>Rhizoctonia</i> sp./spp.	1	0
		No Pathogen Found	1	0
Robin's Plantain C = 1 H = 0	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
Rose Mallow C = 1 H = 0		<i>Pseudomonas</i> sp./spp.	1	0
Rosemary C = 1 H = 0		No Pathogen Found	1	0
Salvia; Sage C = 2 H = 0		<i>Pseudomonas</i> sp./spp.	1	0
		<i>Pythium</i> sp./spp.	1	0
Sedges C = 6 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Crown sheath rot	<i>Gaeumannomyces graminis</i>	1	0
		<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	2	0
Snapdragon C = 1	Stem rot	<i>Sclerotinia sclerotiorum</i>	1	0

H = 0				
Soft Rush C = 1 H = 0	Rust	<i>Uromyces sp./spp.</i>	1	0
Summer Heliopsis C = 1 H = 0	Alternaria leaf spot	<i>Alternaria sp./spp.</i>	1	0
Sweet Flag; Myrtle Flag C = 3 H = 0	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum sp./spp.</i>	1	0
		<i>Rhizoctonia sp./spp.</i>	1	0
Trumpetcreeper C = 1 H = 0	Nostoc	<i>Nostoc sp./spp.</i>	1	0
Unknown Weeds; Unknown plants C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	1
	Root problem	Unknown Cause	0	1
Unknown; No Site Specified C = 0 H = 1	Cultural/environmental problem	Abiotic disorder	0	1
Zinnia C = 2 H = 0		<i>Phytophthora sp./spp.</i>	1	0
		<i>Rhizoctonia sp./spp.</i>	1	0

MISCELLANEOUS

(Total Diagnoses 6: C=3; H=3)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Multiple hosts C = 0 H = 1	Unknown	General	0	1
Mushroom C = 0 H = 1	Unknown	General	0	1
Perennial Peanut C = 2 H = 0	Chemical injury	Abiotic disorder	1	0
		No Pathogen Found	1	0
Pine C = 0 H = 1	Wood rot fungus	<i>Poria sp./spp.</i>	0	1
Unknown; No Site Specified C = 1 H = 0		Unknown cause		

TREES

(Total Diagnoses 204: C=108; H=96)

HOST	DISEASE	CAUSAL ORGANISM	C	H
American Sycamore C = 0 H = 1		Unknown cause	0	1
Arborvitae C = 12 H = 13	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Site disturbance	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	2	12
		No Pathogen Found	4	0
		<i>Phyllosticta</i> sp./spp.	2	0
		Root problem	Unknown cause	2
	Seiridium canker	<i>Seiridium unicorne</i>	1	0
Arizona Cypress C = 0 H = 5	Environmental stress; Problem	Abiotic disorder	0	5
Ash C = 0 H = 1	Unknown	General	0	1
Black Gum C = 0 H = 1	Lichens	Lichenes	0	1
Blue Spruce C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Butternut C = 0 H = 1	Herbicide injury; Exposure	Abiotic disorder	0	1
Callery Pear C = 0 H = 1	Fire blight	<i>Erwinia amylovora</i>	0	1
Catalpa C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Cherry C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Chinese Pistache C = 2 H = 1	Bacterial wetwood; Slime flux	Various Pathogens	0	1
		No Pathogen Found	1	0
	Root problem	Unknown cause	1	0
Crape Myrtle	Root problems	Abiotic disorder	0	1

C = 1 H = 1		No Pathogen Found	1	0
Cryptomeria C = 9 H = 4	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	4
	Drought stress damage	Abiotic disorder	1	0
		No Pathogen Found	3	0
	Root problem	Unknown cause	4	0
Deodar Cedar C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	2
Dogwood C = 1 H = 0		No Pathogen Found	1	0
Eastern Cottonwood; Necklace Poplar C = 1 H = 0	Rust	<i>Melampsora medusae</i>	1	0
Eastern Hemlock C = 1 H = 0	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
Eastern Red Cedar C = 2 H = 0		No Pathogen Found	2	0
Elm C = 0 H = 2	Root problems	Abiotic disorder	0	1
	Wound canker	Abiotic disorder	0	1
Falsecypress C = 1 H = 0		No Pathogen Found	1	0
Flowering Dogwood C = 3 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
		<i>Botryosphaeria sp./spp.</i>	1	0
		No Pathogen Found	1	0
	Root problem	Unknown cause	1	0
Ginkgo C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Green Giant Arborvitae C = 1 H = 0	Mite damage	Unidentified Mite	1	0
Hemlock	Environmental stress; Problem	Abiotic disorder	0	2

C = 0 H = 2				
Hinoki Falsecypress C = 1 H = 0		No Pathogen Found	1	0
Japanese Cedar C = 14 H = 0	Dieback; Canker	<i>Seiridium</i> sp./spp.	1	0
	Environmental stress; Problem	Abiotic disorder	1	0
	Scale insects	Order homoptera	1	0
		No Pathogen Found	6	0
		<i>Phyllosticta</i> sp./spp.	1	0
	Root problem	Unknown cause	4	0
Japanese Flowering Cherry C = 1 H = 0	Leaf spot; Shothole	<i>Blumeriella</i> sp./spp.	1	0
Japanese Maple C = 4 H = 3	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
	Wound canker	Abiotic disorder	0	1
		<i>Colletotrichum</i> sp./spp.	1	0
		<i>Pythium</i> sp./spp.	1	0
Juniper C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Leyland Cypress C = 16 H = 11	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Chemical injury	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	9
	Scale insects	Order homoptera	1	0
		No Pathogen Found	3	0
		<i>Passalora sequoiae</i>	0	1
	Needle cast; Blight	<i>Passalora sequoiae</i>	4	0
	Conifer needle blight	<i>Passalora sequoiae</i>	1	0
	Root problem	Unknown cause	2	0
	Seiridium canker	<i>Seiridium unicolorne</i>	4	0
Loblolly Pine C = 3 H = 0	Scolytid beetle	<i>Hylastes</i> sp./spp.	1	0
	Root damage	Abiotic disorder	1	0
	Lophodermium leaf spot; Needle cast	<i>Lophodermium</i> sp./spp.	1	0
London Planetree C = 1 H = 0	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1	0
Longleaf Pine C = 9 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Beetles	Order coleoptera	1	0
	Lophodermium leaf spot; Needle cast	<i>Lophodermium</i> sp./spp.	2	0

	Mite damage	Unidentified Mite	1	0	
		<i>Rhizoctonia</i> sp./spp.	1	0	
		<i>Sphaeropsis</i> sp./spp.	1	0	
	Blue stain; Vascular wilt	<i>Leptographium truncatum</i>	1	0	
	Brown spot; Needle blight	<i>Mycosphaerella dearnessii</i>	1	0	
Magnolia C = 0 H = 7	Powdery mildew	<i>Oidium</i> sp./spp.	0	1	
	Algal leaf spot	<i>Cephaleuros</i> sp./spp.	0	1	
	Cultural/environmental problem	Abiotic disorder	0	1	
	Environmental stress; Problem	Abiotic disorder	0	4	
Maple C = 1 H = 3	Unknown	General	0	1	
	Environmental stress; Problem	Abiotic disorder	1	1	
	Root problems	Abiotic disorder	0	1	
Mountain Laurel C = 2 H = 0	Dieback; Canker; Twig blight	<i>Botryosphaeria</i> sp./spp.	1	0	
	Root problem	Unknown cause	1	0	
Oak C = 2 H = 16	Canker	<i>Hypoxylon</i> sp./spp.	0	1	
	Unknown	General	0	3	
	Herbicide injury; Exposure	Abiotic disorder	0	1	
	Environmental stress; Problem	Abiotic disorder	0	4	
	Root problems	Abiotic disorder	0	1	
	Wound canker	Abiotic disorder	0	2	
	Insect gall	Insect Gall	0	1	
		No Pathogen Found	1	0	
		<i>Tubakia</i> sp./spp.	1	0	
		Hypoxylon canker	<i>Biscogniauxia atropunctata</i>	0	1
		Wood rot fungus; Sheep's head	<i>Grifola frondosa</i>	0	1
		Bacterial leaf scorch	<i>Xylella fastidiosa</i>	0	1
Overcup Oak C = 1 H = 0	Pine oak gall rust	<i>Cronartium quercuum</i>	1	0	
Pin Oak C = 3 H = 0	Eriophyid mites	Family Eriophyidae	1	0	
		<i>Tubakia</i> sp./spp.	1	0	
	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1	0	
Pine C = 1 H = 2	Insect damage	Unidentified Insect	0	1	
		No Pathogen Found	1	0	
	Southern fusiforme rust	<i>Cronartium quercuum</i>	0	1	
Red Maple C = 1 H = 3	Wound canker	Abiotic disorder	0	2	
		<i>Inonotus</i> sp./spp.	0	1	
		No Pathogen Found	1	0	
Red Oak C = 4 H = 0	Nutritional deficiency	Abiotic disorder	2	0	
	Leaf spot	<i>Tubakia</i> sp./spp.	2	0	
Scrubby Post Oak C = 1 H = 0	Horsehair lichen	Bryoria	1	0	

Shumard Oak; Texas Oak; Spanish Oak C = 2 H = 0	Scale insects	Order homoptera	1	0
		<i>Tubakia sp./spp.</i>	1	0
Silk Tree C = 0 H = 1		Unidentified Canker	0	1
Southern Magnolia C = 1 H = 0	Algal leaf spot	<i>Cephaleuros virescens</i>	1	0
Southern Sugar Maple; Florida Maple C = 1 H = 0		No Pathogen Found	1	0
Stinking Cedar C = 2 H = 0	Environmental stress; Problem	Abiotic disorder	1	0
		<i>Phyllosticta sp./spp.</i>	1	0
Swamp Chestnut Oak C = 0 H = 1	Unknown	General	0	1
Sweet Bay Magnolia C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Tulip Tree C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	2
Tung-oil Tree C = 1 H = 0		No Pathogen Found	1	0
Viburnum C = 1 H = 0		No Pathogen Found	1	0
Water Oak C = 0 H = 1	Root problems	Abiotic disorder	0	1
Weeping Cherry C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
White Oaks C = 1 H = 0	Jumping oak gall wasp	<i>Neuroterus saltatorius</i>	1	0

Willow C = 0 H = 3	Environmental stress; Problem	Abiotic disorder	0	1
	Root problems	Abiotic disorder	0	1
	Wound canker	Abiotic disorder	0	1

TURF

(Total Diagnoses 417: C=306; H=111)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Bentgrass C = 38 H = 0	High soluble salt	Abiotic disorder	1	0
	Anthracnose	<i>Colletotrichum cereale</i>	16	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	11	0
	Root rot	Various Fungi	1	0
		No Pathogen Found	6	0
		<i>Pythium</i> sp./spp.	2	0
		No pathogen found	Identification Analysis	1
Bermudagrass C = 39 H = 2	Spring dead spot	<i>Ophiosphaerella</i> sp./spp.	2	0
	Fairy ring	Various Fungi	1	0
	Cultural/environmental problem	Abiotic disorder	6	2
	Nutritional deficiency	Abiotic disorder	1	0
	Root problems	Abiotic disorder	1	0
	Red leaf and sheath spot	<i>Rhizoctonia zea</i>	1	0
	Leaf spot	<i>Bipolaris</i> sp./spp.	7	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	5	0
	Dollar spot	<i>Sclerotinia homeocarpa</i>	2	0
	Root rot	Various Fungi	6	0
		<i>Bipolaris</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
		Large patch	<i>Rhizoctonia solani</i>	4
Bermudagrass C = 67 H = 14	Spring dead spot	<i>Ophiosphaerella</i> sp./spp.	1	0
	Melting out (Turfgrass)	<i>Drechslera</i> sp./spp.	2	0
	Unknown	General	0	1
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	2
	Cultural/environmental problem	Abiotic disorder	2	1
	Nutritional deficiency	Abiotic disorder	6	0
	Dense thatch layer	Abiotic disorder	1	0
	Soil compaction	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	0	6
	Drought stress damage	Abiotic disorder	1	0
	Root problems	Abiotic disorder	2	0
	Red leaf and sheath spot	<i>Rhizoctonia zea</i>	1	0
	Leaf spot	<i>Bipolaris</i> sp./spp.	7	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	4	0
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	7	0
	Leaf rust; Rust	<i>Puccinia</i> sp./spp.	1	0

	Dollar spot	<i>Sclerotinia homeocarpa</i>	0	3
	Root rot	Various Fungi	5	0
		<i>Bipolaris</i> sp./spp.	2	0
		<i>Pythium</i> sp./spp.	5	0
		<i>Rhizoctonia solani</i>	1	0
		<i>Rhizoctonia</i> sp./spp.	5	0
	No pathogen found	Identification Analysis	1	0
		<i>Armillaria tabescens</i>	0	1
	Large patch	<i>Rhizoctonia solani</i>	8	0
Centipedegrass C = 53 H = 33	Fairy ring	Various Fungi	5	0
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	1
	Nematodes; General plant	Order Tylenchida	1	0
	Cultural/environmental problem	Abiotic disorder	7	6
	Nutritional deficiency	Abiotic disorder	8	0
	Soil compaction	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	0	26
	Leaf spot	<i>Bipolaris</i> sp./spp.	3	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	1	0
	Root rot	Various Fungi	3	0
	Root rot	Unidentified Agent	1	0
	Insect damage	Unidentified Insect	1	0
	Large patch	<i>Rhizoctonia solani</i>	20	0
Fescues C = 0 H = 4	Physarum slime mold	<i>Physarum</i> sp./spp.	0	1
	Algae	General	0	1
	Environmental stress; Problem	Abiotic disorder	0	2
Seashore Paspalum C = 3 H = 0	Root problems	Abiotic disorder	1	0
		<i>Curvularia</i> sp./spp.	1	0
	No pathogen found	Identification Analysis	1	0
St. Augustinegrass C = 21 H = 25	Take-all	<i>Gaeumannomyces</i> sp./spp.	2	10
	Cultural/environmental problem	Abiotic disorder	2	0
	Environmental stress; Problem	Abiotic disorder	0	15
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	4	0
	Root rot	Various Fungi	2	0
	Gray leaf spot	<i>Pyricularia grisea</i>	6	0
	Large patch	<i>Rhizoctonia solani</i>	5	0
Tall Fescue C = 3 H = 0	Environmental stress; Problem	Abiotic disorder	1	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
	Root rot	Various Fungi	1	0

Turfgrass C = 0 H = 4	Physarum slime mold	<i>Physarum</i> sp./spp.	0	1
	Environmental stress; Problem	Abiotic disorder	0	3
Zoysia Grass C = 82 H = 29	Spring dead spot	<i>Ophiosphaerella</i> sp./spp.	1	0
	Melting out (Turfgrass)	<i>Drechslera</i> sp./spp.	6	0
	Fairy ring	Various Fungi	1	0
	Unknown	General	0	1
	Take-all	<i>Gaeumannomyces</i> sp./spp.	2	0
	Rust	<i>Uromyces</i> sp./spp.	1	0
	Cultural/environmental problem	Abiotic disorder	7	1
	Nutritional deficiency	Abiotic disorder	14	0
	Dense thatch layer	Abiotic disorder	2	0
	Soil compaction	Abiotic disorder	2	0
	Environmental stress; Problem	Abiotic disorder	1	25
	Unknown abiotic disorder	Abiotic disorder	0	1
	Leaf spot	<i>Bipolaris</i> sp./spp.	5	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	0	1
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	5	0
	Leaf rust; Rust	<i>Puccinia</i> sp./spp.	2	0
	Dollar spot	<i>Sclerotinia homeocarpa</i>	1	0
	Root rot	Various Fungi	8	0
		<i>Fusarium</i> sp./spp.	2	0
		No Pathogen Found	2	0
		<i>Rhizoctonia</i> sp./spp.	4	0
	No pathogen found	Identification Analysis	1	0
	Root problem	Unknown Cause	1	0
Large patch	<i>Rhizoctonia solani</i>	14	0	

VEGETABLES

(Total Diagnoses 524: C=450; H=74)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Bean C = 7 H = 3	Common bacterial blight	<i>Xanthomonas campestris</i>	1	0
	Chemical injury	Abiotic disorder	2	0
	Cultural/environmental problem	Abiotic disorder	0	2
	Environmental stress; Problem	Abiotic disorder	1	0
		No Pathogen Found	1	0
		Unknown cause	1	0
	Root problem	Unknown cause	0	1
	Rhizoctonia stem rot	<i>Rhizoctonia solani</i>	1	0
Bell Pepper C = 4 H = 1	Tomato; Pepper bacterial spot	<i>Xanthomonas campestris</i>	1	0
		Abiotic disorder	1	0
		No Pathogen Found	1	0
	Southern blight	<i>Sclerotium rolfsii</i>	0	1
Bok Choy C = 1 H = 0		<i>Alternaria sp./spp.</i>	1	0
Bok Choy; Chinese Cabbage C = 1 H = 0		Begomovirus Group	1	0
Broccoli C = 18 H = 2	Unknown	General	1	0
	Black rot	<i>Xanthomonas campestris</i>	4	0
	Alternaria leaf spot	<i>Alternaria sp./spp.</i>	2	0
	Bacterial leaf spot	<i>Xanthomonas sp./spp.</i>	1	0
	Copper toxicity	Abiotic disorder	1	0
	No virus found	No Virus Found	1	0
		Abiotic disorder	1	0
		<i>Alternaria sp./spp.</i>	5	0
		No Pathogen Found	1	0
		<i>Xanthomonas campestris</i>	1	0
		<i>Xanthomonas sp./spp.</i>	0	1
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	0	1
Cabbage C = 37 H = 1	Black rot	<i>Xanthomonas campestris</i>	4	0
	Bacterial soft rot	<i>Erwinia carotovora</i>	1	0
	Alternaria leaf spot	<i>Alternaria sp./spp.</i>	0	1
	Bacterial leaf spot	<i>Xanthomonas sp./spp.</i>	1	0
	Chemical injury	Abiotic disorder	1	0

	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1	0
	No virus found	No Virus Found	4	0
		Abiotic disorder	1	0
		<i>Alternaria</i> sp./spp.	2	0
		Begomovirus Group	2	0
		<i>Cercospora</i> sp./spp.	2	0
		No Pathogen Found	3	0
		<i>Pythium</i> sp./spp.	3	0
		<i>Rhizoctonia solani</i>	1	0
		<i>Rhizoctonia</i> sp./spp.	2	0
		Unknown cause	3	0
		<i>Xanthomonas campestris</i>	1	0
		Begomovirus Cucurbit Leaf Crumple Virus	1	0
	No Geminivirus or Potyvirus were detected	Negative for Geminivirus and Potyvirus	1	0
	club root	<i>Plasmodiophora brassicae</i>	1	0
	Bacterial leaf spot of crucifers	<i>Xanthomonas raphni</i>	1	0
	Bacterial spot of crucifer	<i>Xanthomonas raphni</i>	1	0
Cantaloupe; Cantaloupe C = 12 H = 0	Chemical injury	Abiotic disorder	1	0
	Insect damage	Unidentified Insect	1	0
	No virus found	No Virus Found	1	0
		No Pathogen Found	4	0
		<i>Phytophthora</i> sp./spp.	1	0
		Unknown cause	1	0
	Bacterial spot	<i>Xanthomonas cucurbitae (campestris)</i>	1	0
	Rhizoctonia stem rot	<i>Rhizoctonia solani</i>	1	0
	Cucurbit yellow stunt disorder virus	CYSDV	1	0
Cauliflower C = 4 H = 0	Black rot	<i>Xanthomonas campestris</i>	1	0
	Unspecified pathology	<i>Xanthomonas</i> sp./spp.	1	0
	Pythium damping off	<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Collards C = 14 H = 2	Unknown	General	1	0
	White mold (Stem rot)	<i>Sclerotinia sclerotiorum</i>	0	1
	Black rot	<i>Xanthomonas campestris</i>	3	0
	Sclerotinia stem rot	<i>Sclerotinia</i> sp./spp.	1	0
	Environmental stress; Problem	Abiotic disorder	1	0
	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1	0
		Abiotic disorder	1	0
		<i>Alternaria</i> sp./spp.	1	0
	No Pathogen Found	3	0	

		Unknown cause	1	0
	Downy mildew	<i>Hyaloperonospora parasitica</i>	1	0
	Black rot	<i>Phyllosticta ampelica</i>	0	1
Cucumber C = 19 H = 3	Cucurbit downy mildew	<i>Pseudoperonospora cubensis</i>	1	0
	Chemical injury	Abiotic disorder	1	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
	Unknown abiotic disorder	Abiotic disorder	0	1
		No Pathogen Found	2	0
		<i>Phytophthora</i> sp./spp.	2	0
		<i>Pythium</i> sp./spp.	2	0
	Cucurbit Yellow Stunting Disorder(CYSDV)	Crinivirus Cucurbit Yellow Stunting Disorder Virus	10	0
	CYSDV	Cucurbit yellow stunt disorder virus	1	0
	Cucumis Melons C = 1 H = 0	Melon Fusarium wilt	<i>Fusarium oxysporum</i>	1
Eggplant C = 7 H = 0	Sunscald	Abiotic disorder	1	0
	No virus found	No Virus Found	1	0
		Abiotic disorder	1	0
		No Pathogen Found	1	0
		<i>Phytophthora capsici</i>	1	0
	No pathogen found	Identification Analysis	1	0
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1	0
Kale C = 8 H = 0	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1	0
		<i>Alternaria</i> sp./spp.	3	0
		No Pathogen Found	2	0
	No pathogen found	Identification Analysis	1	0
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1	0
Lettuce C = 4 H = 0		No Pathogen Found	1	0
		<i>Pythium</i> sp./spp.	2	0
		Unknown cause	1	0
Melon; Armenian Cucumber C = 1 H = 0		No Pathogen Found	1	0
Mustards C = 1 H = 1	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	0	1
	Insufficient sample	Identification Analysis	1	0
Okra C = 0	Root problems	Abiotic disorder	0	1

H = 1				
Onion C = 9 H = 0	Stemphylium leaf spot	<i>Stemphylium</i> sp./spp.	1	0
	Yellow bud	<i>Pseudomonas</i> sp./spp.	1	0
		<i>Burkholderia cepacia</i>	1	0
		<i>Pectobacterium</i> sp./spp.	1	0
		Unknown cause	1	0
		<i>Xanthomonas</i> sp./spp.	1	0
	No pathogen found	Identification Analysis	2	0
	Sour skin	<i>Burkholderia cepacia</i>	1	0
Pepper C = 31 H = 9	Unknown	General	0	2
	Phytophthora stem rot	<i>Phytophthora</i> sp./spp.	1	0
	Bacterial leaf spot	<i>Xanthomonas</i> sp./spp.	1	1
	Broad mite	<i>Polyphagotarsonemus latus</i>	1	0
	Chemical injury	Abiotic disorder	0	1
	Unknown abiotic disorder	Abiotic disorder	0	2
	Phytophthora dieback; Blight	<i>Phytophthora</i> sp./spp.	1	0
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1	0
	Insect damage	Unidentified Insect	0	3
		<i>Botrytis</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	2	0
		No Pathogen Found	10	0
		<i>Phytophthora capsici</i>	2	0
		<i>Phytophthora</i> sp./spp.	2	0
		<i>Pythium</i> sp./spp.	5	0
		<i>Sclerotium rolfsii</i>	1	0
	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	3	0
Potato C = 4 H = 2	Bacterial soft spot	<i>Pectobacterium</i> sp./spp.	0	1
		<i>Erwinia (Pectobacterium) carotovora (um)</i>	1	0
		Mixed bacterial species	1	0
		<i>Pectobacterium</i> sp./spp.	2	1
Pumpkin C = 1 H = 0		<i>Pseudoperonospora cubensis</i>	1	0
Radish C = 1 H = 0		Unknown cause	1	0
Snap Bean; Green Bean C = 14 H = 0	Sclerotinia stem rot	<i>Sclerotinia</i> sp./spp.	1	0
	Pythium damping off	<i>Pythium</i> sp./spp.	1	0
		No Pathogen Found	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0

		Begomovirus Cucurbit Leaf Crumple Virus	7	0
	Cucurbit leaf crumple (CuLCrV)	Begomovirus Cucurbit Leaf Crumple Virus	3	0
Southern peas; Cowpeas Blackeye Peas C = 1 H = 0		No Pathogen Found	1	0
Squash C = 22 H = 2	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
	Oedema; Edema	Abiotic disorder	1	0
	Blossom end rot	Abiotic disorder	1	0
	Pythium damping off	<i>Pythium</i> sp./spp.	1	0
	No virus found	No Virus Found	2	0
		Abiotic disorder	1	0
		No Pathogen Found	4	0
		<i>Phytophthora capsici</i>	3	0
		<i>Pythium</i> sp./spp.	1	0
	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.	1	0
		<i>Potyvirus</i> sp./spp.	2	0
	Cucumber mosaic (CMV)	Cucumovirus Cucumber Mosaic Virus	1	0
		Begomovirus Cucurbit Leaf Crumple Virus	3	0
	Cucurbit leaf crumple (CuLCrV)	Begomovirus Cucurbit Leaf Crumple Virus	1	0
Sugar Beet C = 1 H = 0		<i>Pythium</i> sp./spp.	1	0
Sweetpotato C = 1 H = 1	Unknown abiotic disorder	Abiotic disorder	0	1
		Unknown cause	1	0
Swiss Chard C = 0 H = 1	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	0	1
Tomato C = 35 H = 44	Pith necrosis	<i>Pseudomonas corrugata</i>	1	0
	Unknown	General	1	8
	Corynespora leaf spot	<i>Corynespora</i> sp./spp.	1	0
	Septoria leaf spot	<i>Septoria</i> sp./spp.	0	2
	Bacterial leaf spot	<i>Xanthomonas</i> sp./spp.	1	0
	Chemical injury	Abiotic disorder	1	1
	Herbicide injury; Exposure	Abiotic disorder	0	6

	Herbicide drift	Abiotic disorder	0	1
	Cultural/environmental problem	Abiotic disorder	0	6
	Nutrient imbalance	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	5
	Unknown abiotic disorder	Abiotic disorder	0	1
	Septoria leaf blight	<i>Septoria lycopersici</i>	0	3
	Bacterial wilt	<i>Ralstonia solanacearum</i>	2	0
	Sour rot	Multiple Pathogens	1	0
	Unspecified pathology	<i>Phytophthora</i> sp./spp.	0	1
	Early blight; Leaf spot	<i>Alternaria solani</i>	0	1
	Bacterial pathogens	General	0	1
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	2	0
	Insufficient sample	Identification Analysis	0	1
		<i>Alternaria</i> sp./spp.	1	0
		Complex of Biotic; Abiotic Factors	0	1
		<i>Fusarium</i> sp./spp.	1	0
		No Pathogen Found	2	0
		<i>Pseudomonas</i> sp./spp.	1	0
		<i>Pythium</i> sp./spp.	2	0
		<i>Rhizoctonia</i> sp./spp.	1	0
		<i>Sclerotium rolfsii</i>	1	0
		Unknown cause	1	0
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1	0
	Root-knot nematodes	Meloidogyne sp./spp.	1	0
	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus	4	5
		Begomovirus Tomato Yellow Leaf Curl Virus	9	0
Tomato C = 19 H = 0	Chemical injury	Abiotic disorder	3	0
	Herbicide injury; Exposure	Abiotic disorder	1	0
	Physiological responses	Abiotic disorder	2	0
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1	0
	Insufficient sample	Identification Analysis	1	0
		No Pathogen Found	5	0
		Unknown cause	2	0
	Fertilizer injury	Abiotic disorder	1	0
	No pathogen found	Identification Analysis	2	0
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1	0
Turnip C = 6 H = 1	Bacterial soft rot	<i>Erwinia carotovora</i>	1	0
	Bacterial soft rot	<i>Erwinia</i> sp./spp.	1	0
	Leaf spot	Unknown cause	0	1

		Environmental Stresses	1	0
		<i>Sclerotinia sclerotiorum</i>	1	0
		<i>Streptomyces scabies</i>	1	0
		<i>Potyvirus</i> sp./spp.	1	0
Turnip (Greens) C = 1 H = 0		No Pathogen Found	1	0
Watermelon C = 159 H = 0	Anthraco	<i>Colletotrichum orbiculare</i>	1	0
	Gummy stem blight	<i>Didymella</i> sp./spp.	13	0
	Powdery mildew	<i>Sphaerotheca</i> sp./spp.	1	0
	Fusarium wilt	<i>Fusarium oxysporum</i>	1	0
	Unknown	General	2	0
	Phytophthora fruit rot	<i>Phytophthora</i> sp./spp.	1	0
	Chemical injury	Abiotic disorder	2	0
	Chemical; Environmental injury	Abiotic disorder	1	0
	Sunscald	Abiotic disorder	2	0
	Nutritional pathology	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	4	0
	Chimera	Abiotic disorder	1	0
	Physiological responses	Abiotic disorder	2	0
	Unknown abiotic disorder	Abiotic disorder	3	0
	Soft rot	<i>Pseudomonas</i> sp./spp.	1	0
	Watermelon Fusarium wilt	<i>Fusarium oxysporum</i>	8	0
	No virus found	No Virus Found	1	0
		Abiotic disorder	10	0
		<i>Didymella bryoniae</i>	5	0
		<i>Fusarium</i> sp./spp.	20	0
		No Pathogen Found	47	0
		<i>Phomopsis</i> sp./spp.	1	0
		<i>Phytophthora capsici</i>	7	0
		<i>Phytophthora</i> sp./spp.	1	0
		<i>Pseudoperonospora cubensis</i>	5	0
		<i>Pythium</i> sp./spp.	4	0
		<i>Rhizoctonia solani</i>	1	0
		Unknown cause	1	0
	No pathogen found	Identification Analysis	4	0
	Anthraco	<i>Colletotrichum</i> sp./spp.	1	0
		<i>Potyvirus</i> sp./spp.	1	0
		Begomovirus Cucurbit Leaf Crumple Virus	1	0
	Papaya ringspot (PRSV)	Potyvirus Papaya Ringspot Virus	1	0

	Powdery mildew	<i>Podosphaera fuliginea</i>	2	0
	Root knot nematode	Meloidogyne	1	0
	No Geminivirus or Potyvirus were detected	Negative for Geminivirus and Potyvirus	1	0
Winter Pea C = 1 H = 0		<i>Fusarium sp./spp.</i>	1	0
Zucchini Squash C = 5 H = 0	Powdery mildew	<i>Erysiphe sp./spp.</i>	1	0
	Powdery mildew	<i>Podosphaera sp./spp.</i>	1	0
		<i>Phytophthora capsici</i>	1	0
		Unknown cause	1	0
	Cucurbit leaf crumple (CuLCrV)	Begomovirus Cucurbit Leaf Crumple Virus	1	0

WOODY ORNAMENTALS

(Total Diagnoses 374: C=252; H=122)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Abelia C = 2 H = 0		No Pathogen Found	2	0
Anise Tree C = 2 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
		<i>Alternaria</i> sp./spp.	1	0
Arborvitae C = 1 H = 4	Unknown	General	0	1
	Environmental stress; Problem	Abiotic disorder	0	3
		Unknown cause	1	0
Asiatic Jasmine C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Atlantic Whitecedar C = 1 H = 0		No Pathogen Found	1	0
Aucuba C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Azalea; Rhododendron C = 10 H = 8	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Yellow leaf spot	<i>Exobasidium</i> sp./spp.	0	1
	Mites	Order Acari	1	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	2
	Root problems	Abiotic disorder	0	3
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	2	0
	Rhizoctonia foliar/ aerial/ web blight	<i>Rhizoctonia solani</i>	1	0
	Insect damage	Unidentified Insect	0	1
		No Pathogen Found	1	0
		<i>Pseudocercospora</i> sp./spp.	1	0
Bamboo (True) C = 3 H = 0	Scale insects	Order homoptera	1	0
		No Pathogen Found	1	0
		Unknown Agent	1	0
Barberry C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0

Bluebeard C = 2 H = 1	Crown and root rot	<i>Phytophthora</i> sp./spp.	0	1
		<i>Fusarium</i> sp./spp.	1	0
		<i>Phytophthora</i> sp./spp.	1	0
Blueberry C = 1 H = 0		No Pathogen Found	1	0
Boxwood C = 68 H = 28	Crown and root rot	<i>Phytophthora</i> sp./spp.	11	0
	Black twig borer	<i>Xylosandrus compactus</i>	1	0
	Boxwood leafminer	<i>Monarthropalpus flavus</i> (<i>buxi</i>)	4	1
	Chemical injury	Abiotic disorder	0	2
	Cultural/environmental problem	Abiotic disorder	0	3
	Nutrient imbalance	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	17
	Root problems	Abiotic disorder	0	3
	Dieback; Canker; Twig blight	<i>Botryosphaeria</i> sp./spp.	1	0
	Scale insects	Order homoptera	1	0
	Boxwood Volutella blight; Canker	<i>Volutella buxi</i>	18	0
	Sooty mold	Unidentified Fungus	1	0
	Mite damage	Unidentified Mite	3	0
		Abiotic disorder	0	1
		<i>Colletotrichum</i> sp./spp.	5	0
		No Pathogen Found	10	0
		<i>Sphaeropsis</i> sp./spp.	1	0
		<i>Meloidogyne</i> sp./spp.	1	0
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	5	0
	Root problem	Unknown cause	3	0
Boxwood Macrophoma leaf spot	<i>Dothiorella candollei</i>	3	0	
Broom C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Camellia C = 6 H = 3	Camellia leaf gall	<i>Exobasidium camelliae</i>	0	1
	Unknown	General	0	1
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Eriophyid mites	Family Eriophyidae	1	0
	Root problems	Abiotic disorder	0	1
	Sooty mold	Unidentified Fungus	1	0
		No Pathogen Found	3	0
Cherry-laurel C = 6 H = 1	Crown and root rot	<i>Phytophthora</i> sp./spp.	4	0
	Root problems	Abiotic disorder	0	1
		No Pathogen Found	1	0
	Root problem	Unknown cause	1	0

Chindo Viburnum C = 1 H = 0		<i>Colletotrichum</i> sp./spp.	1	0
Chinese Fringe Flower C = 12 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	3	0
	Mite damage	Unidentified Mite	1	0
		<i>Pseudocercospora</i> sp./spp.	2	0
	Cercospora leaf spot	<i>Pseudocercospora liquidambaricola</i>	2	0
	Leaf spot	<i>Pseudocercospora liquidambaricola</i>	3	0
	Bacterial gall	<i>Pseudomonas savastanoi</i>	1	0
Chinese Holly C = 1 H = 0	Sooty mold	Unidentified Fungus	1	0
Chinese Juniper C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Clematis C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Common Boxwood C = 18 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Boxwood leafminer	<i>Monarthropalpus flavus (buxi)</i>	1	0
	Boxwood Volutella blight; Canker	<i>Volutella buxi</i>	6	0
		<i>Colletotrichum</i> sp./spp.	1	0
		No Pathogen Found	2	0
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	1	0
	Root problem	Unknown cause	2	0
	Boxwood Macrophoma leaf spot	<i>Dothiorella candollei</i>	2	0
	Stem canker	<i>Colletotrichum theobromicola</i>	1	0
Common Camellia C = 7 H = 0	Tea scale	<i>Fiorinia theae</i>	1	0
	Sooty mold	Unidentified Fungus	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
		No Pathogen Found	3	0
	Root problem	Unknown cause	1	0
Cotoneaster C = 2 H = 1	Root rot and web blight	<i>Rhizoctonia</i> sp./spp.	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
Crape Myrtle C = 0 H = 4	Unknown	General	0	1
	Environmental stress; Problem	Abiotic disorder	0	3

Cryptomeria C = 0 H = 7	Cultural/environmental problem	Abiotic disorder	0	2
	Environmental stress; Problem	Abiotic disorder	0	5
Daphniphyllum C = 1 H = 0		<i>Colletotrichum</i> sp./spp.	1	0
Dogwood C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	2
Edging Boxwood C = 1 H = 0	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	1	0
Firethorn C = 0 H = 1	Cultural/environmental problem	Abiotic disorder	1	1
Flowering Quince C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Forsythia; Golden Bells C = 2 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
		No Pathogen Found	1	0
Gardenia C = 2 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
		<i>Phyllosticta</i> sp./spp.	1	0
Glossy Abelia C = 3 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Gold Dust Plant C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Hibiscus C = 0 H = 1	Cranberry rootworm	<i>Rhabdopterus picipes</i>	0	1
Holly C = 10 H = 6	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	3
	Root problems	Abiotic disorder	0	1
	Scale insects	Order homoptera	2	0
		<i>Colletotrichum</i> sp./spp.	1	0

		Environmental Stresses	1	0
		No Pathogen Found	5	0
	Leaf spot; Tar spot	<i>Rhytisma</i> sp./spp.	0	1
Honeysuckle C = 3 H = 0	Powdery mildew	<i>Erysiphe</i> sp./spp.	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Scale insects	Order homoptera	1	0
Hydrangea C = 5 H = 3	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	0	2
	Eriophyid mites	Family Eriophyidae	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
	Bacterial leaf spot	Unidentified Bacteria	1	0
		<i>Cercospora</i> sp./spp.	1	0
		<i>Corynespora</i> sp./spp.	1	0
		<i>Thrips</i> sp./spp.	1	0
Indian Hawthorn C = 1 H = 3	Entomosporium leaf spot	<i>Entomosporium</i> sp./spp.	1	2
	Environmental stress; Problem	Abiotic disorder	0	1
Itea; Sweetspire C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Japanese Aralia C = 2 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
Japanese Black Pine C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Japanese Cleyera C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	1
	Slime mold	Class Myxogastria; Mycetozoa	0	1
Japanese Holly C = 0 H = 3	Environmental stress; Problem	Abiotic disorder	0	3
Japanese Maple C = 0 H = 5	Dieback; Canker	<i>Nectria</i> sp./spp.	0	1
	Environmental stress; Problem	Abiotic disorder	0	2
	Root problems	Abiotic disorder	0	1
	Aphids; Plant lice	Family Aphididae	0	1
Japanese Privet C = 1 H = 0		No Pathogen Found	1	0
Japanese Yew		No Pathogen Found	1	0

C = 2 H = 0	Armillaria root rot; Butt rot	<i>Armillaria sp./spp.</i>	1	0
Juniper C = 3 H = 6	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Algae	General	1	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	3
	Root problems	Abiotic disorder	0	2
	Kabatina tip blight; Needle blight	<i>Kabatina juniperi</i>	1	0
Leyland Cypress C = 0 H = 4	Environmental stress; Problem	Abiotic disorder	0	4
Ligustrum; Privet C = 4 H = 1	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Herbicide drift	Abiotic disorder	0	1
		<i>Colletotrichum sp./spp.</i>	1	0
		No Pathogen Found	2	0
Littleleaf Boxwood C = 2 H = 0	Scale insects	Order homoptera	1	0
		No Pathogen Found	0	1
Magnolia C = 0 H = 3	Environmental stress; Problem	Abiotic disorder	0	1
	Root problems	Abiotic disorder	0	1
	Slime mold	Class Myxogastria; Mycetozoa	0	1
Maple C = 0 H = 1	Dieback; Canker; Twig blight	<i>Botryosphaeria sp./spp.</i>	0	1
Mountain Laurel C = 2 H = 0	Dieback; Canker; Twig blight	<i>Botryosphaeria sp./spp.</i>	1	0
	Root problem	Unknown cause	1	0
Multiple hosts C = 1 H = 0		No Pathogen Found	1	0
Myrtle-leaved Distylium C = 2 H = 0		No Pathogen Found	2	0
Oakleaf Hydrangea C = 3 H = 1	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Bacterial leaf spot	<i>Xanthomonas sp./spp.</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
		<i>Cercospora sp./spp.</i>	1	0
Osmanthus	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0

C = 2 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
		<i>Colletotrichum</i> sp./spp.	1	0
Panicle Hydrangea C = 1 H = 0	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1	0
Panicle Hydrangea C = 2 H = 0		<i>Botrytis</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
Peach C = 0 H = 1	Cultural/environmental problem	Abiotic disorder	0	1
Pieris C = 1 H = 0	No pathogen found	Identification Analysis	1	0
Pittosporum C = 3 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Nectriella stem gall	<i>Nectriella pironii</i>	1	0
	Leaf spot	<i>Pseudocercospora pittospori</i>	1	0
Plum-yew C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	2
Pondberry C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Pondspice; Pondbush C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Rhododendron C = 6 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
		No Pathogen Found	5	0
		<i>Phytophthora</i> sp./spp.	1	0
Rose C = 17 H = 6	Powdery mildew	<i>Oidium</i> sp./spp.	0	2
	Crown and root rot	<i>Phytophthora</i> sp./spp.	7	0
	Roseslug	<i>Endelomyia aethiops</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
	Insufficient sample	Identification Analysis	0	1
		<i>Botrytis</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
		<i>Coniothyrium</i> sp./spp.	1	0

		No Pathogen Found	2	0
		<i>Pythium</i> sp./spp.	1	0
	Rose rosette disease (RRV)	Emaravirus Rose Rosette Virus	4	0
	Black spot (Rose)	<i>Diplocarpon rosae</i>	0	1
Rosemary C = 0 H = 1	Cultural/environmental problem	Abiotic disorder	0	1
Sago Palm C = 1 H = 0	Leaf spot	<i>Exserohilum</i> sp./spp.	1	0
Sasanqua Camellia C = 2 H = 0		<i>Botryosphaeria</i> sp./spp.	1	0
		<i>Sphaeropsis</i> sp./spp.	1	0
Spruce C = 0 H = 1	Unknown	General	0	1
Sweet Box C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Sweet Olive; Tea Olive C = 3 H = 0	Sooty mold	Unidentified Fungus	1	0
		No Pathogen Found	2	0
Tea Plant C = 1 H = 0		<i>Colletotrichum</i> sp./spp.	1	0
Trifoliolate orange C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Trumpet Honeysuckle C = 2 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Black root rot	<i>Thielaviopsis basicola</i>	1	0
Unknown Weeds; Unknown plants C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	1
	Passalora leaf spot	<i>Passalora</i> sp./spp.	0	1
Viburnum C = 2	Viburnum downy mildew	<i>Plasmopara viburni</i>	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0

H = 0				
Viburnum C = 1 H = 1	Root problems	Abiotic disorder	0	1
		No Pathogen Found	1	0
Wax Myrtle C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Winter Daphne C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	0	1
Winter Jasmine C = 1 H = 0		<i>Botryosphaeria</i> sp./spp.	1	0
Winterberry C = 1 H = 0		No Pathogen Found	1	0
Wisteria C = 0 H = 1	Leaf spot	Unknown cause	1	0
Yew C = 3 H = 0	Sooty mold	Unidentified Fungus	1	0
		No Pathogen Found	1	0
	Root problem	Unknown cause	1	0