

Plant Disease Clinic Annual Report 2015



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2015 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 2015, 720 physical commercial plant samples were processed for diagnosis at Athens and 781 commercial plant samples were processed for diagnosis at Tifton. For the homeowners, 277 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: 2015 PLANT SPECIMEN DIAGNOSES

Crop	Commercial Samples	Homeowner Samples	Total
Field Crops	345	0	345
Fruits and Nuts	333	48	381
Herbaceous Ornamentals	104	28	132
Miscellaneous	2	8	10
Trees	108	59	167
Turf	351	153	504
Vegetables	596	70	666
Woody Ornamentals	210	131	341
Total*	2049	497	2546

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

MONTHLY SAMPLE SUBMISSION SUMMARY: 2015

Month	Commercial Samples	Homeowner Samples
January	26	11
February	29	4
March	108	21
April	221	50
May	221	86
June	212	89
July	142	68
August	145	46
September	177	51
October	86	35
November	61	24
December	84	8
Total*	1512	493

*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. The total number of samples includes digital homeowner samples.

DISTRIBUTION OF COMMERCIAL SAMPLES SUBMITTED BY COUNTY FOR 2015

County	Samples	County	Samples	County	Samples
Appling	18	Elbert	1	NA	193
Atkinson	13	Emanuel	11	Newton	2
Bacon	29	Evans	8	Oconee	8
Baker	1	Fayette	3	Paulding	2
Baldwin	1	Floyd	3	Peach	9
Banks	3	Forsyth	9	Pickens	2
Barrow	2	Franklin	1	Pierce	15
Bartow	1	Fulton	20	Polk	5
Ben Hill	7	Gilmer	22	Pulaski	18
Berrien	12	Glynn	2	Rabun	14
Bibb	5	Gordon	2	Randolph	1
Brantley	7	Grady	13	Richmond	20
Brooks	21	Greene	2	Rockdale	1
Bulloch	7	Gwinnett	19	Screven	10
Burke	11	Habersham	5	Seminole	15
Candler	4	Hall	8	Spalding	6
Carroll	4	Harris	8	Sumter	21
Charlton	2	Hart	5	Tattnall	65
Chatham	13	Henry	1	Taylor	10
Cherokee	12	Houston	8	Telfair	1
Clarke	30	Irwin	15	Terrell	7
Clinch	6	Jackson	14	Thomas	15
Cobb	24	Jeff Davis	12	Tift	74
Coffee	12	Jefferson	4	Toombs	12
Colquitt	83	Jenkins	4	Treutlen	2
Columbia	1	Lanier	19	Troup	7
Cook	52	Laurens	16	Turner	16
Coweta	2	Liberty	1	Union	2
Crawford	5	Lowndes	32	Walton	6
Crisp	10	Macon	1	Ware	15
Dawson	2	Madison	1	Washington	14
De Kalb	15	Marion	7	Wayne	1
Decatur	1	McDuffie	43	Webster	5
Dodge	4	Meriwether	1	Wheeler	4
Dooly	11	Miller	2	White	2
Dougherty	4	Mitchell	7	Whitfield	1
Douglas	8	Monroe	4	Wilcox	21
Early	1	Montgomery	6	Wilkes	2
Echols	12	Morgan	7	Worth	20
Effingham	15	Muscogee	20		

DISTRIBUTION OF HOMEOWNER SAMPLES SUBMITTED BY COUNTY FOR 2015

County	Samples	County	Samples
Appling	1	Jackson	5
Bacon	9	Jeff Davis	1
Barrow	1	Jefferson	4
Ben Hill	3	Jenkins	5
Bibb	27	Johnson	2
Bleckley	5	Lamar	1
Brantley	5	Laurens	3
Bulloch	1	Lee	12
Camden	3	Lincoln	2
Carroll	4	Lowndes	1
Charlton	2	Madison	1
Chatham	11	Mitchell	1
Cherokee	29	Monroe	24
Clarke	33	Montgomery	2
Cobb	27	Morgan	19
Coffee	1	Muscogee	3
Columbia	1	NA	2
Coweta	10	Newton	10
Crawford	2	Oconee	8
Dade	11	Oglethorpe	1
Dawson	1	Paulding	1
De Kalb	10	Pickens	4
Dooly	2	Pierce	11
Dougherty	9	Rabun	3
Douglas	2	Randolph	1
Effingham	6	Richmond	6
Elbert	5	Rockdale	2
Fannin	1	Seminole	1
Fayette	8	Tattnall	1
Floyd	1	Terrell	1
Forsyth	9	Thomas	20
Fulton	13	Treutlen	2
Glynn	1	Troup	1
Greene	4	Twiggs	2
Gwinnett	19	Union	2
Harris	10	Walton	9
Hart	6	Ware	2
Heard	1	Wheeler	1
Henry	18	White	1
Houston	3		

CROP SUMMARIES

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

C: Commercial

H: Homeowner

FIELD CROPS

(Total Diagnoses 345: C=345; H=0)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Alfalfa C = 1 H = 0	Leaf spot	Unknown cause	1	0
Annual Ryegrass C = 3 H = 0	Root rot	Unidentified Agent	1	0
	Anaerobic soil	<i>Rhizoctonia</i> sp./spp. Abiotic disorder	1 1	0 0
Barley C = 2 H = 0		<i>Drechslera</i> sp./spp.	2	0
Bentgrass C = 1 H = 0	Dense thatch layer	Abiotic disorder	1	0
Bermudagrass C = 3 H = 0	Nutrient imbalance	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	1	0
Common Wheat C = 52 H = 0	Leaf spot	<i>Bipolaris</i> sp./spp.	1	0
	Black chaff	<i>Xanthomonas translucens</i>	2	0
	Scab	<i>Fusarium</i> sp./spp.	8	0
Common Wheat C = 52 H = 0	Powdery mildew	<i>Erysiphe</i> sp./spp.	2	0
	Sooty mold	<i>Cladosporium</i> sp./spp.	1	0
	Rhizoctonia root rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Fusarium root; Stem rot	<i>Fusarium solani</i>	1	0
	Southern stem rot	<i>Sclerotium rolfsii</i>	1	0
	Fusarium root; Crown rot	<i>Fusarium</i> sp./spp.	1	0
	Rhizoctonia root; Crown rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Take-all	<i>Gaeumannomyces</i> sp./spp.	1	0
	Seedling Diseases	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	1	0
	Not pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	2	0
	Leaf spot	<i>Stagonospora</i> sp./spp.	3	0
	Bacterial mosaic	<i>Clavibacter michiganensis</i>	6	0

	Cultural/environmental problem	Abiotic disorder	1	0	
	Nutritional deficiency	Abiotic disorder	1	0	
	Nutrient imbalance	Abiotic disorder	1	0	
	Environmental stress; Problem	Abiotic disorder	2	0	
	Water damage	Abiotic disorder	1	0	
	Tan spot; Yellow leaf spot	<i>Pyrenophora</i> (ana. <i>Drechslera</i>) <i>tritici-repentis</i>	7	0	
	Root rot	Unidentified Agent	1	0	
	Insect damage	Unidentified Insect	1	0	
		Barley Yellow Dwarf Virus (BYDV)	2	0	
		<i>Drechslera</i> sp./spp.	1	0	
		<i>Fusarium</i> sp./spp.	1	0	
	Anaerobic soil	Abiotic disorder	2	0	
Corn C = 36 H = 0	Unknown	General	1	0	
	Common corn rust	<i>Puccinia sorghi</i>	2	0	
	Lesion nematodes	<i>Pratylenchus</i> sp./spp.	1	0	
	Chemical injury	Abiotic disorder	7	0	
	Chemical; Environmental injury	Abiotic disorder	1	0	
	Corn bacterial stalk rot	<i>Erwinia</i> (<i>Pectobacterium</i>) <i>chrysanthemi</i> and <i>dissolvens</i>	1	0	
	Southern corn rust	<i>Puccinia polysora</i>	6	0	
	Purple leaf sheath	Saprophytic Fungi and Yeasts	2	0	
	Thrips damage	Unidentified Thrips	1	0	
		<i>Bipolaris</i> sp./spp.	1	0	
		No Pathogen Found	4	0	
		Unknown cause	2	0	
		Southern leaf blight	<i>Bipolaris maydis</i>	5	0
		Northern corn leaf spot	<i>Bipolaris zeicola</i>	2	0
Corn (Seed) C = 3 H = 0	Northern corn leaf blight; Leaf spot	<i>Setosphaeria</i> (<i>Exserohilum</i>) <i>turcica</i> (<i>turcicum</i>)	1	0	
	Southern corn rust	<i>Puccinia polysora</i>	1	0	
		Abiotic disorder	1	0	
Cotton C = 55 H = 0	Fusarium Wilt Complex	<i>Fusarium</i> sp./spp.	2	0	
	Fusarium wilt	<i>Fusarium oxysporum</i>	3	0	
	Unknown	General	5	0	
	Diplodia collar rot	<i>Diplodia gossypina</i>	1	0	
	Rhizoctonia damping off	<i>Rhizoctonia</i> sp./spp.	1	0	
	Angular leaf spot	<i>Xanthomonas</i> sp./spp.	3	0	
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	1	0	
	Ascochyta leaf spot	<i>Ascochyta</i> sp./spp.	1	0	

	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	3	0
	Corynespora leaf spot	<i>Corynespora</i> sp./spp.	1	0
	Corynespora leaf spot	<i>Corynespora cassicola</i>	5	0
	Stemphylium leaf spot	<i>Stemphylium</i> sp./spp.	10	0
	Nutritional deficiency	Abiotic disorder	1	0
	Cotton Fusarium wilt	<i>Fusarium oxysporum</i>	1	0
		No Pathogen Found	5	0
		Unknown Agent	3	0
	Bacterial blight	<i>Xanthomonas axonopodis</i>	6	0
	No pathogen found	Identification Analysis	2	0
	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.	1	0
Oats C = 18 H = 0	Bacterial mosaic	<i>Clavibacter michiganensis</i>	2	0
	Environmental stress; Problem	Abiotic disorder	2	0
	Root problems	Abiotic disorder	1	0
	Freeze; Frost; Cold damage	Abiotic disorder	1	0
	Leaf spot	<i>Bipolaris</i> sp./spp.	3	0
	Root rot	Various Fungi	2	0
		Barley Yellow Dwarf Virus (BYDV)	4	0
		No Pathogen Found	3	0
Oriental Sesame C = 1 H = 0		<i>Cercospora</i> sp./spp.	1	0
Peanut C = 62 H = 0	Unknown	General	6	0
	Diplodia collar rot	<i>Diplodia gossypina</i>	2	0
	Aspergillus crown rot	<i>Aspergillus niger</i>	4	0
	Pythium pod rot	<i>Pythium</i> sp./spp.	1	0
	Rhizoctonia pod rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Southern stem rot	<i>Sclerotium rolfsii</i>	2	0
	Rhizoctonia stem rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	9	0
	Lesion nematodes	<i>Pratylenchus</i> sp./spp.	2	0
	Chemical injury	Abiotic disorder	1	0
	Chemical; Environmental injury	Abiotic disorder	1	0
	Leaf scorch; Pepper spot	<i>Leptosphaerulina crassiasca</i>	2	0
		Abiotic disorder	1	0
		<i>Aspergillus</i> sp./spp.	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
		No Pathogen Found	19	0
		<i>Rhizoctonia solani</i>	1	0
	<i>Colletotrichum</i> sp./spp.	2	0	

	Southern blight	<i>Sclerotium rolfsii</i>	2	0
		<i>Aspergillus flavus</i>	1	0
	Cylindrocladium black rot	<i>Calonectria</i> sp./spp.	1	0
	Early leaf spot	<i>Peyronellaea arachidicola</i>	1	0
Perennial Peanut C = 2 H = 0		No Pathogen Found	1	0
		Peanut Stunt Disease Virus (PSV)	1	0
Perennial Ryegrass C = 10 H = 0	Rhizoctonia blight	<i>Rhizoctonia solani</i>	1	0
	Not pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Pyricularia leaf spot	<i>Pyricularia</i> sp./spp.	1	0
	Cultural/environmental problem	Abiotic disorder	1	0
	Leaf spot	<i>Bipolaris</i> sp./spp.	1	0
		<i>Bipolaris</i> sp./spp.	1	0
		<i>Drechslera</i> sp./spp.	3	0
		Secondary Agents; Saprophytes; Unspecif.	1	0
Rye C = 5 H = 0	Anthraxnose	<i>Colletotrichum graminicola</i>	1	0
	Root problems	Abiotic disorder	1	0
		<i>Drechslera</i> sp./spp.	1	0
		<i>Helminthosporium</i> sp./spp.	1	0
	Gray leaf spot	<i>Pyricularia grisea</i>	1	0
Ryegrass C = 2 H = 0	Environmental stress; Problem	Abiotic disorder	1	0
	No pathogen found	Identification Analysis	1	0
Sorghum C = 8 H = 0	Pyricularia leaf spot	<i>Pyricularia</i> sp./spp.	1	0
	Leaf blight	Various Fungi	1	0
	Fusarium root rot; Stalk rot	<i>Fusarium oxysporum</i>	1	0

FRUITS AND NUTS

(Total Diagnoses 381: C=333; H=48)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Apricot C = 0 H = 1	Unknown	General	0	1
Blackberry C = 24 H = 2	Cane blotch	<i>Cephaleuros</i> sp./spp.	1	0
	Mites	Order Acari	3	0
	Spider mites	Family Tetranychidae	2	0
	Cultural/environmental problem	Abiotic disorder	0	1
	Canker	<i>Leptosphaeria</i> sp./spp.	3	0
	Cane and leaf rust	<i>Kuehneola uredinis</i>	1	0
	Cane and leaf rust	<i>Kuehneola</i> sp./spp.	4	0
		<i>Cephaleuros virescens</i>	1	1
		<i>Colletotrichum</i> sp./spp.	1	0
		<i>Coniothyrium</i> sp./spp.	1	0
		<i>Elsinoe veneta</i>	1	0
		Family Eriophyidae	1	0
		<i>Phytophthora</i> sp./spp.	1	0
		<i>Pseudocercospora</i> sp./spp.	3	0
	<i>Rhizoctonia</i> sp./spp.	1	0	
Blueberry C = 187 H = 6	Anthracnose	<i>Colletotrichum acutatum</i>	1	0
	Anthracnose	<i>Gloeosporium</i> sp./spp.	1	0
	Anthracnose fruit rot	<i>Colletotrichum</i> sp./spp.	2	0
	Unknown	General	5	0
	Mummy berry	<i>Monilinia vaccinii-corymbosi</i>	1	1
	Rhizoctonia root rot	<i>Rhizoctonia</i> sp./spp.	2	0
	Rhizoctonia stem and root rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Rhizoctonia root; Crown rot	<i>Rhizoctonia</i> sp./spp.	5	0
	Rhizoctonia crown and stem rot	<i>Rhizoctonia</i> sp./spp.	4	0
	Septoria leaf spot	<i>Septoria</i> sp./spp.	1	0
	Spider mites	Family Tetranychidae	1	0
	Cultural/environmental problem	Abiotic disorder	0	2
	Nutrient imbalance	Abiotic disorder	2	1
	Root problems	Abiotic disorder	1	1
	Hemlock-blueberry rust	<i>Thekopsora minima</i>	15	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	2	0
	Scale insects	Order homoptera	3	0
	Phomopsis dieback; Tip blight; Canker	<i>Phomopsis</i> sp./spp.	1	0

	Sooty mold	Unidentified Fungus	6	0
		Abiotic disorder	1	0
		<i>Botryosphaeria</i> sp./spp.	27	0
		<i>Botrytis</i> sp./spp.	5	0
		<i>Cladosporium</i> sp./spp.	4	0
		<i>Colletotrichum</i> sp./spp.	4	0
		Complex of Biotic; Abiotic Factors	3	0
		<i>Coniothyrium</i> sp./spp.	1	0
		Environmental Stresses	3	0
		<i>Exobasidium</i> sp./spp.	0	1
		<i>Fusicoccum</i> sp./spp.	4	0
		Oomycetes	1	0
		<i>Pestalotia</i> sp./spp.	1	0
		<i>Phomopsis</i> sp./spp.	4	0
		<i>Phyllosticta</i> sp./spp.	6	0
		<i>Phytophthora cactorum</i>	1	0
		<i>Phytophthora cinnamomi</i>	10	0
		<i>Phytophthora</i> sp./spp.	5	0
		<i>Pucciniastrum</i> sp./spp.	2	0
		<i>Rhizoctonia solani</i>	1	0
		<i>Rhizoctonia</i> sp./spp.	21	0
		<i>Rhizopus</i> sp./spp.	2	0
		Secondary Agents; Saprophytes; Unspecif.	1	0
		<i>Septoria</i> sp./spp.	1	0
		Unidentified Mite	3	0
		Unknown cause	4	0
		<i>Xanthomonas</i> sp./spp.	1	0
	Anthracnose stem blight	<i>Colletotrichum</i> sp./spp.	2	0
	Phytophthora root and crown rot	<i>Phytophthora cinnamomi</i>	10	0
	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	4	0
	Crown and root rot	Unidentified Agent	1	0
Cherry C = 0 H = 2	Bacterial canker	<i>Pseudomonas syringae</i>	0	1
	Cultural/environmental problem	Abiotic disorder	0	1
Common Apple C = 0 H = 10	Fire blight	<i>Erwinia amylovora</i>	0	2
	Apple scab	<i>Venturia (Spilocaea) inaequalis (pomi)</i>	0	1
	Unknown	General	0	2
	Wound canker	Abiotic disorder	0	1

	Scale insects	Order homoptera	0	1
	Cedar-apple rust	<i>Gymnosporangium juniperi-virginianae</i>	0	2
	Bitter rot	<i>Colletotrichum gloeosporioides</i>	0	1
Common Fig C = 0 H = 3	Environmental stress; Problem	Abiotic disorder	0	3
Common Persimmon C = 1 H = 0		Unknown Agent	1	0
Domestic Apple C = 5 H = 0	Crown gall	<i>Agrobacterium tumefaciens</i>	1	0
	Mites	Order Acari	1	0
	Tissue proliferation; Callus	Abiotic disorder	1	0
		<i>Phytophthora</i> sp./spp.	1	0
		<i>Pseudocercospora</i> sp./spp.	1	0
Elderberry C = 0 H = 2	Rust	<i>Puccinia bolleyana</i>	0	1
	Not pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	0	1
Grape C = 8 H = 2	Grape downy mildew	<i>Plasmopara viticola</i>	2	0
	Phomopsis canker and twig blight	<i>Diaporthe (Phomopsis) vaccinii</i>	1	0
	Insect damage	Unidentified Insect	1	0
		<i>Botryosphaeria</i> sp./spp.	1	0
		<i>Phomopsis</i> sp./spp.	1	0
		<i>Phyllosticta (Guignardia) ampellicida (bidwellii)</i>	1	0
	Leaf spot	<i>Phyllosticta (Guignardia) ampellicida (bidwellii)</i>	0	1
	Black rot	<i>Phyllosticta ampellicida</i>	0	1
	Grapevine Pierce's disease	<i>Xylella fastidiosa</i>	1	0
Japanese Persimmon C = 2 H = 0		<i>Botryosphaeria</i> sp./spp.	1	0
		<i>Fusicoccum</i> sp./spp.	1	0
Lemon C = 6 H = 0	Penicillium fruit rot	<i>Penicillium</i> sp./spp.	1	0
	Scale insects	Order homoptera	1	0
	Mite damage	Unidentified Mite	1	0
		<i>Cladosporium</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	1	0

		Saprophytic Fungi and Yeasts	1	0
May Hawthorne C = 2 H = 1	Anthracnose	<i>Colletotrichum acutatum</i>	1	0
	Unknown	General	1	1
Muscadine Grape C = 11 H = 1	Leaf spot	<i>Guignardia</i> sp./spp.	1	0
	Nutrient imbalance	Abiotic disorder	1	0
	Oedema; Edema	Abiotic disorder	1	0
	Sour rot	Multiple Pathogens	1	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
	Mite damage	Unidentified Mite	1	0
		<i>Cercospora</i> sp./spp.	1	0
		<i>Mycosphaerella</i> sp./spp.	1	0
		<i>Phyllosticta</i> sp./spp.	1	0
		<i>Pseudocercospora</i> sp./spp.	1	0
		<i>Phyllosticta</i> (<i>Guignardia</i>) <i>ampellicida</i> (<i>bidwellii</i>)	1	0
	Black rot	<i>Phyllosticta ampellicida</i>	0	1
Olive C = 1 H = 0		<i>Phytophthora</i> sp./spp.	1	0
Peach C = 12 H = 3	Peach leaf curl	<i>Taphrina deformans</i>	0	1
	Unknown	General	3	0
	Plum Curculio	<i>Conotrachelus nenuphar</i>	0	1
	Bacterial canker	Mixed bacterial species	1	0
	Scale insects	Order homoptera	1	0
		Abiotic disorder	1	0
		<i>Botryosphaeria</i> sp./spp.	1	0
		<i>Fusicoccum</i> sp./spp.	1	0
		<i>Phomopsis</i> sp./spp.	1	0
		Phytoplasma	1	0
		Unidentified Canker	0	1
		Unknown cause	1	0
		Scab	<i>Fusicladium carpophilum</i>	1
Pear C = 0 H = 4	Fire blight	<i>Erwinia amylovora</i>	0	1
	Cedar-quince rust	<i>Gymnosporangium clavipes</i>	0	1
	Fabraea leaf and fruit spot	<i>Diplocarpon mespili</i>	0	2
Pear (Ornamental) C = 0	Environmental stress; Problem	Abiotic disorder	0	1

H = 1				
Pecan C = 16 H = 6	Unknown	General	1	2
	Nutritional deficiency	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	0	2
		Abiotic disorder	2	0
		<i>Cladosporium</i> sp./spp.	0	1
		No Pathogen Found	6	0
	Pecan; Hickory scab	<i>Fusicladium caryigenum</i>	3	1
	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	3	0
Persimmon (Ornamental) C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	2
Plum C = 2 H = 0	Unknown	General	1	0
		Unknown cause	1	0
Pomegranate C = 10 H = 0	Unknown	General	2	0
	Sooty mold	<i>Cladosporium</i> sp./spp.	1	0
	Penicillium fruit rot	<i>Penicillium</i> sp./spp.	1	0
	Insects	Class insecta	1	0
		<i>Botrytis</i> sp./spp.	2	0
		<i>Cladosporium</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	1	0
		<i>Phytophthora</i> sp./spp.	1	0
Satsuma; Mandarin; Tangerine C = 9 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
	Scale insects	Order homoptera	2	0
	Insect damage	Unidentified Insect	1	0
	Mite damage	Unidentified Mite	1	0
		<i>Alternaria</i> sp./spp.	1	0
		<i>Phytophthora</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	1	0
		Unknown Agent	1	0
	Anthracnose	<i>Colletotrichum gloeosporioides</i>	1	0
Sour Cherry C = 0 H = 1	Powdery mildew	<i>Oidium</i> sp./spp.	0	1
Strawberry C = 32 H = 0	Anthracnose fruit rot	<i>Colletotrichum</i> sp./spp.	3	0
	Unknown	General	1	0
	Phytophthora fruit rot	<i>Phytophthora</i> sp./spp.	1	0
	Rhizoctonia root; Crown rot	<i>Rhizoctonia</i> sp./spp.	1	0

	Mites	Order Acari	2	0
		<i>Botrytis</i> sp./spp.	5	0
		<i>Epicoccum</i> sp./spp.	1	0
		<i>Gnomonia</i> sp./spp.	2	0
		<i>Phytophthora cactorum</i>	8	0
		<i>Phytophthora</i> sp./spp.	1	0
		<i>Rhizoctonia</i> sp./spp.	6	0
	Slime mold	<i>Physarum cinereum</i>	1	0
Summer Grape C = 3 H = 0	Grape downy mildew	<i>Plasmopara viticola</i>	1	0
		<i>Colletotrichum</i> sp./spp.	1	0
	Grapevine Pierce's disease	<i>Xylella fastidiosa</i>	1	0
Sweet Orange C = 2 H = 0	Unknown abiotic disorder	Abiotic disorder	1	0
	Insect damage	Unidentified Insect	1	0

HERBACEOUS ORNAMENTALS
(Total Diagnoses 132: C=104; H=28)

HOST	DISEASE	CAUSAL ORGANISM	C	H
African Violet C = 0 H = 1	Cultural/environmental problem	Abiotic disorder	0	1
Angel-wing Begonia C = 1 H = 0		No Pathogen Found	1	0
Asiatic Jasmine C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	2
Asters C = 2 H = 0	Aster rust; Rust	<i>Puccinia cnici-olearacei</i> (<i>asteris</i>)	1	0
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1	0
Azalea; Rhododendron C = 0 H = 1	Insect damage	Unidentified Insect	0	1
Begonia C = 6 H = 0	Cucumber Mosaic	Cucumber Mosaic Virus (CMV)	1	0
	No virus found	No Virus Found	1	0
		<i>Botrytis</i> sp./spp.	1	0
		No Pathogen Found	2	0
		<i>Rhizoctonia</i> sp./spp.	1	0
Candle Larkspur C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Canna Lily C = 0 H = 1	Insect damage	Unidentified Insect	0	1
Carolina Lupin C = 4 H = 0	Mites	Order Acari	1	0
	Potyvirus Group	Potyvirus Group	2	0
		No Pathogen Found	1	0
Chrysanthemum C = 2 H = 0		<i>Pythium</i> sp./spp.	1	0

	Root problem	Unknown Cause	1	0
Coleus C = 2 H = 0	Impatiens Necrotic Spot	Impatiens Necrotic Spot Virus (INSV)	2	0
Coneflower C = 0 H = 1	Unknown	General	0	1
Creeping Jenny C = 2 H = 2	Rhizoctonia root; Crown rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Root problems	Abiotic disorder	0	1
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
	Southern blight	<i>Sclerotium rolfsii</i>	0	1
Dahlia C = 0 H = 2	Bacterial soft rot	<i>Erwinia</i> sp./spp.	0	1
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	0	1
Daylily C = 4 H = 0	Fusarium crown rot	<i>Fusarium</i> sp./spp.	1	0
	Bacterial soft rot	<i>Erwinia</i> sp./spp.	1	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
	Leaf streak	<i>Kabatella microstictum</i>	1	0
English Ivy C = 2 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
	Anthracoise; Leaf spot	<i>Colletotrichum trichellum</i>	2	0
Evolvulus C = 2 H = 0	Botrytis blight	<i>Botrytis</i> sp./spp.	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
French Lavender C = 2 H = 0	Unknown	General	1	0
	Rhizoctonia stem and root rot	<i>Rhizoctonia</i> sp./spp.	1	0
Gerber Daisy (African Daisy) C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Hellebore C = 1 H = 0	Southern stem rot	<i>Sclerotium rolfsii</i>	1	0
Hibiscus C = 2 H = 0	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0

	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Hosta C = 1 H = 1	Anthracnose	<i>Gloeosporium</i> sp./spp.	0	1
	Bacterial Soft Rot	<i>Pectobacterium carotovorum</i>	1	0
Impatiens C = 4 H = 0	Downy mildew	<i>Plasmopara obducens</i>	1	0
	Rhizoctonia leaf spot and/or leaf blight	<i>Rhizoctonia</i> sp./spp.	1	0
		<i>Pythium</i> sp./spp.	1	0
		Secondary Agents; Saprophytes; Unspecif.	1	0
Johnny-Jump-Up C = 2 H = 0	Pansy Mottle Syndrome	,	1	0
	Pansy Mottle Syndrome	Abiotic disorder	1	0
Lantana C = 0 H = 2	Cultural/environmental problem	Abiotic disorder	0	1
	Insect damage	Unidentified Insect	0	1
Leatherleaf Fern C = 1 H = 0		No Pathogen Found	1	0
Lesser Periwinkle C = 0 H = 1	Root problems	Abiotic disorder	0	1
Lily Turf C = 3 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
Lily-of-the-nile C = 2 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Bacterial blight	Unidentified Bacteria	1	0
Mint C = 1 H = 0		<i>Pythium</i> sp./spp.	1	0
Mondograss (Dwarf Lily Turf) C = 4	Anthracnose	<i>Glomerella</i> sp./spp.	0	1
	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Environmental stress; Problem	Abiotic disorder	0	1

H = 2	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	2	0
Muley Grass C = 3 H = 0	Leaf spot	<i>Exserohilum</i> sp./spp.	1	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
Oregano C = 1 H = 0		<i>Pythium</i> sp./spp.	1	0
Pachysandra C = 2 H = 0	Leaf and stem blight	<i>Volutella pachysandrae</i>	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Pansy C = 9 H = 1	Botrytis blight	<i>Botrytis</i> sp./spp.	1	0
	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0
	Rhizoctonia root; Crown rot	<i>Rhizoctonia</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
		<i>Botrytis</i> sp./spp.	1	0
Parlor Maple C = 1 H = 0	Bacterial leaf spot	Unidentified Bacteria	1	0
Passionflower C = 1 H = 0	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
Pentas C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Peony C = 0 H = 4	Unknown	General	0	1
	Environmental stress; Problem	Abiotic disorder	0	3
Pepper C = 1 H = 0		No Pathogen Found	1	0
Persian Buttercup C = 1 H = 0		No Pathogen Found	1	0

Petunias C = 0 H = 1	Phytophthora stem rot	<i>Phytophthora</i> sp./spp.	0	1
Pinks C = 3 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	1	0
Poinsettia C = 1 H = 0		No Pathogen Found	1	0
Prairie Dropseed C = 2 H = 0	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
Rose Mallow C = 1 H = 0		<i>Botrytis</i> sp./spp.	1	0
Rosemary C = 1 H = 0	Unknown	General	1	0
Rose-pink Wandering Jew C = 1 H = 0		No Pathogen Found	1	0
Rudbeckia C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Salvia (Sage) C = 0 H = 1	Root problems	Abiotic disorder	0	1
Snakeplant C = 0 H = 1	Root problems	Abiotic disorder	0	1
Snapdragon C = 1 H = 0	Rhizoctonia root; Crown rot	<i>Rhizoctonia</i> sp./spp.	1	0
Soft Rush C = 3 H = 0	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
	Leaf rust; Rust	<i>Puccinia</i> sp./spp.	1	0

Speedwell C = 1 H = 0		No Pathogen Found	1	0
Sunflower C = 1 H = 0		<i>Alternaria sp./spp.</i>	1	0
Sweet Basil C = 1 H = 0		<i>Pythium sp./spp.</i>	1	0
Sweet Flag (Myrtle Flag) C = 2 H = 0	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum sp./spp.</i>	1	0
	Pythium root and/or crown rot	<i>Pythium sp./spp.</i>	1	0
Thyme C = 2 H = 0		<i>Pythium sp./spp.</i>	2	0
Unknown Host C = 1 H = 0		No Pathogen Found	1	0
Violas (Violet; Pansy) C = 8 H = 0	Rhizoctonia root; Crown rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Cercospora leaf spot	<i>Cercospora violae</i>	1	0
	Pythium root and/or crown rot	<i>Pythium sp./spp.</i>	2	0
	Black root rot	<i>Thielaviopsis basicola</i>	3	0
	Pansy Mottle Syndrome	Abiotic disorder	1	0
Wild (Sea) Oats C = 2 H = 0	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum sp./spp.</i>	1	0
	Pythium root and/or crown rot	<i>Pythium sp./spp.</i>	1	0
Zinnia C = 2 H = 1	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1	0
	Chemical injury	Abiotic disorder	0	1
	Pythium root and/or crown rot	<i>Pythium sp./spp.</i>	1	0

MISCELLANEOUS

(Total Diagnoses 10: C=2; H=8)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Centipede grass C = 0 H = 1	Coral Fungus	<i>Clavaria</i>	0	1
Mulch C = 1 H = 0	Pholiota mushroom	<i>Pholiota spumosa</i>	1	0
Mushroom C = 0 H = 5	Unknown	General	0	3
	Black-staining polypore	<i>Meripilus sumstinei</i>	0	1
	Bolete	<i>Boletus sp./spp.</i>	0	1
Potting Soil; growing media C = 1 H = 0	Saprophytic fungus	<i>Chromelosporium sp./spp.</i>	1	0
Unknown; No Site Specified C = 0 H = 2	Unknown	General	0	1
		Abiotic disorder	0	1

TREES

(Total Diagnoses 167: C=108; H=59)

HOST	DISEASE	CAUSAL ORGANISM	C	H
American Beech C = 0 H = 2		<i>Cristulariella sp./spp.</i>	0	2
American Sycamore C = 1 H = 1	Unknown	General	0	1
	Sycamore anthracnose	<i>Apiognomonina veneta</i>	1	0
American Yellowwood C = 1 H = 0	Leaf spot	<i>Pseudocercospora sp./spp.</i>	1	0
Arborvitae C = 8 H = 5	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	3
	Root problems	Abiotic disorder	0	2
	Root rot	Unidentified Agent	2	0
	Insect damage	Unidentified Insect	1	0
		No Pathogen Found	3	0
	Arborvitae needle blight	<i>Phyllosticta thujae</i>	1	0
Arizona Cypress C = 1 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
		No Pathogen Found	1	0
Black Gum C = 1 H = 0		No Pathogen Found	1	0
Black Oak C = 1 H = 0	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1	0
Blue Atlas Cedar C = 1 H = 0	Sirococcus needle blight	<i>Sirococcus sp./spp.</i>	1	0
Blue Spruce C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Callery Pear C = 0 H = 3	Anthrachnose	<i>Glomerella sp./spp.</i>	0	1
	Fire blight	<i>Erwinia amylovora</i>	0	1
	Unknown	General	0	1

Cherry C = 3 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Phomopsis dieback; Tip blight; Canker	<i>Phomopsis</i> sp./spp.	1	0
	Dieback	Unidentified Fungus	1	0
Crape Myrtle C = 4 H = 0		No Pathogen Found	3	0
	Leaf spot	<i>Pseudocercospora lythracearum</i>	1	0
Cryptomeria C = 2 H = 4	Environmental stress; Problem	Abiotic disorder	0	2
	Root problems	Abiotic disorder	0	2
	Scale insects	Order homoptera	1	0
		No Pathogen Found	1	0
Deodar Cedar C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	1
	Unknown abiotic disorder	Abiotic disorder	0	1
Dogwood C = 0 H = 2	Unknown	General	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
Eastern Hemlock C = 6 H = 0	Hemlock leaf blight	<i>Fabrella tsugae</i>	3	0
		No Pathogen Found	1	0
	Rosellinia blight	<i>Rosellinia herpotrichoides</i>	2	0
Eastern Red Cedar C = 4 H = 0	Tip blight	<i>Kabatina</i> sp./spp.	1	0
	Dieback; Canker	<i>Seiridium</i> sp./spp.	1	0
	Mites	Order Acari	1	0
	Scale insects	Order homoptera	1	0
Elm C = 0 H = 1	Mushroom	Unidentified Fungus	0	1
European Hornbeam C = 2 H = 0	Powdery mildew	<i>Oidium</i> sp./spp.	2	0
Fir C = 1 H = 0	No pathogen found	Identification Analysis	1	0
Ginkgo C = 1		No Pathogen Found	1	0

H = 0				
Goldenrain Tree C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Green Giant Arborvitae C = 1 H = 0		No Pathogen Found	1	0
Hawthorn C = 0 H = 1	Cedar-hawthorn rust	<i>Gymnosporangium globosum</i>	0	1
Hemlock C = 2 H = 2	Mites	Order Acari	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
	Insect damage	Unidentified Insect	0	1
		No Pathogen Found	1	0
Hophornbeam C = 1 H = 0	Phyllosticta leaf spot	<i>Phyllosticta</i> sp./spp.	1	0
Hornbeam C = 1 H = 0	Scale insects	Order homoptera	1	0
Italian Cypress C = 1 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
	Dieback; Canker; Twig blight	<i>Botryosphaeria</i> sp./spp.	1	0
Japanese Cedar C = 3 H = 0		No Pathogen Found	1	0
	Seiridium Canker	<i>Lepteutypa cupressi</i>	1	0
	Root problem	Unknown Cause	1	0
Japanese Maple C = 1 H = 2	Leaf spot	<i>Cristulariella</i> sp./spp.	1	0
	Scorch	Abiotic disorder	0	1
	Brown felt	<i>Septobasidium</i> sp./spp.	0	1
Juniper C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Leyland Cypress C = 7 H = 4	Environmental stress; Problem	Abiotic disorder	0	1
	Unknown abiotic disorder	Abiotic disorder	0	2
		Abiotic disorder	1	0
		No Pathogen Found	1	0
	No pathogen found	Identification Analysis	1	0
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1	0

	Conifer needle blight	<i>Passalora sequoiae</i>	1	0
	Seiridium Canker	<i>Lepteutypa cupressi</i>	2	0
	Cercospora blight	<i>Passalora sequoiae</i>	0	1
Live Oak C = 1 H = 0	Wood rot fungus	<i>Inonotus sp./spp.</i>	1	0
Loblolly Pine C = 5 H = 0	Mckenzie pine mealybug	<i>Dysmicoccus pinicolus</i>	1	0
	Lophodermium leaf spot; Needle cast	<i>Lophodermium sp./spp.</i>	2	0
	Needle cast	Unidentified Agent	1	0
		<i>Rhizoctonia sp./spp.</i>	1	0
Longleaf Pine C = 1 H = 0	Mold	Unidentified Fungus	1	0
Magnolia C = 2 H = 1	Nutrient imbalance	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
		No Pathogen Found	1	0
Maple C = 6 H = 3	Unknown	General	0	1
	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Cylindrosporium leaf spot	<i>Cylindrosporium sp./spp.</i>	1	0
	Maple leaf spot	<i>Phyllosticta minima</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
	Wound canker	Abiotic disorder	0	1
	Graft failure	Abiotic disorder	1	0
		No Pathogen Found	1	0
	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1	0
Northern Red Oak C = 2 H = 0	Leaf spot	<i>Tubakia dryina</i>	1	0
	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1	0
Norway Spruce C = 0 H = 1	Scorch	Abiotic disorder	0	1
Oak C = 7 H = 6	Oak leaf blister	<i>Taphrina caerulescens</i>	0	3
	Leaf spot	<i>Tubakia dryina</i>	1	0
	Environmental stress; Problem	Abiotic disorder	0	1
		Abiotic disorder	0	1
	Jumping oak gall wasp	<i>Neuroterus saltatorius</i>	1	0
	Root problem	Unknown Cause	1	0
	Pine oak gall rust	<i>Cronartium quercuum</i>	0	1
	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	4	0

Palm C = 0 H = 2	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
Pecan C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Pine C = 1 H = 0	Diplodia Tip Blight; Canker	<i>Sphaeropsis (Diplodia) sapinea (pinea)</i>	1	0
Pomegranate C = 1 H = 0	Cercospora leaf spot of pomegranate	<i>Pseudocercospora punicae</i>	1	0
Post Oak C = 2 H = 0	Leaf spot	<i>Tubakia dryina</i>	1	0
	Jumping oak gall wasp	<i>Neuroterus saltatorius</i>	1	0
Red Maple C = 2 H = 6	Anthracnose	<i>Kabatiella sp./spp.</i>	0	1
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	2
	Wound canker	Abiotic disorder	0	2
	Leaf spot	<i>Botryosphaeria sp./spp.</i>	1	0
	Cryptosporiopsis canker	<i>Pezicula/Neofabraea sp./spp.</i>	1	0
Red Oak C = 1 H = 1	Oak leaf blister	<i>Taphrina caerulescens</i>	0	1
	Jumping oak gall wasp	<i>Neuroterus saltatorius</i>	1	0
Redbud C = 1 H = 2	Environmental stress; Problem	Abiotic disorder	0	1
	Root problems	Abiotic disorder	0	1
River Birch C = 1 H = 0		No Pathogen Found	1	0
Serviceberry C = 2 H = 0	Rust	<i>Gymnosporangium sp./spp.</i>	1	0
		No Pathogen Found	1	0
Sourwood C = 2 H = 0	Crown and root rot	<i>Phytophthora sp./spp.</i>	2	0

Southern Magnolia C = 1 H = 0	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1	0
Stewartia C = 1 H = 0	Leaf spot	<i>Pestalotiopsis (Pestalotia) sp./spp.</i>	1	0
Sugar Maple C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Sweet Bay Magnolia C = 2 H = 0	Eriophyid mites	Family Eriophyidae	1	0
Tupelo; Gum C = 1 H = 0	Sooty mold	Unidentified Fungus	1	0
		<i>Fusicoccum sp./spp.</i>	1	0
Unknown Weeds; Unknown plants C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	1
Water Oak C = 5 H = 0	Insect damage	Unidentified Insect	0	1
Waver Ash; Stinking Ash C = 1 H = 0	Oak leaf blister	<i>Taphrina caerulescens</i>	2	0
	Leaf spot	<i>Tubakia dryina</i>	1	0
	Lichens	Lichenes	1	0
	Southern fusiforme rust	<i>Cronartium quercuum</i>	1	0
Weeping Willow C = 1 H = 0	Bacterial leaf scorch	<i>Xylella fastidiosa</i>	1	0
White Oak C = 2 H = 0	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum sp./spp.</i>	1	0
Willow Oak C = 1 H = 0	Environmental stress; Problem	Abiotic disorder	1	0
Winged Elm	Jumping oak gall wasp	<i>Neuroterus saltatorius</i>	1	0
Willow Oak C = 1 H = 0	Brown felt	<i>Septobasidium sp./spp.</i>	1	0
Winged Elm	Dutch elm disease	<i>Ophiostoma sp./spp.</i>	1	0

C = 1				
H = 0				

TURF

(Total Diagnoses 504: C=351; H=153)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Annual Ryegrass C = 2 H = 0		No Pathogen Found	1	0
		Secondary Agents; Saprophytes; Unspecif.	1	0
Bentgrass C = 47 H = 0	Anthracnose	<i>Colletotrichum graminicola</i>	2	0
	Take-all	<i>Gaeumannomyces sp./spp.</i>	1	0
	Root damage	Abiotic disorder	1	0
	High temperature damage	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	5	0
	Decline; Dieback	Abiotic disorder	1	0
	Poor root development	Abiotic disorder	2	0
	Root problems	Abiotic disorder	1	0
	Anthracnose	<i>Colletotrichum cereale</i>	4	0
	Blue-green algae	<i>Oscillatoria sp./spp.</i>	1	0
	Pythium root and/or crown rot	<i>Pythium sp./spp.</i>	10	0
	Black layer of turfgrass	Abiotic disorder	2	0
	Root rot	Various Fungi	8	0
		<i>Pythium sp./spp.</i>	1	0
	Anaerobic soil	Abiotic disorder	6	0
Magnaporthe summer patch	<i>Magnaportheopsis poae</i>	1	0	
Bermudagrass C = 109 H = 29	Spring dead spot	<i>Ophiosphaerella sp./spp.</i>	3	4
	Take-all	<i>Gaeumannomyces sp./spp.</i>	1	2
	Cultural/environmental problem	Abiotic disorder	10	2
	Nutrient imbalance	Abiotic disorder	5	0
	Environmental stress; Problem	Abiotic disorder	1	15
	Leaf spot	<i>Bipolaris sp./spp.</i>	22	0
	Dollar spot	<i>Sclerotinia homeocarpa</i>	2	2
		<i>Rhizoctonia solani</i>	11	0
		<i>Rhizoctonia zaeae</i>	3	0
	Anaerobic soil	Abiotic disorder	2	0
	Rhizoctonia blight	<i>Rhizoctonia solani</i>	0	4
	Melting out (Turfgrass)	<i>Drechslera sp./spp.</i>	3	0
	Not pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	1	0
	Nutritional deficiency	Abiotic disorder	2	0
	Soil compaction	Abiotic disorder	1	0

	Pythium blight; Cottony blight	<i>Pythium</i> sp./spp.	1	0
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	8	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	9	0
	Rhizoctonia leaf spot and/or leaf blight	<i>Rhizoctonia</i> sp./spp.	1	0
	Black layer of turfgrass	Abiotic disorder	6	0
	Root rot	Various Fungi	5	0
		<i>Bipolaris</i> sp./spp.	6	0
		<i>Pythium</i> sp./spp.	2	0
		<i>Rhizoctonia</i> sp./spp.	2	0
	Crown and root rot	Unidentified Agent	1	0
Centipedegrass C = 60 H = 51	Rhizoctonia blight	<i>Rhizoctonia solani</i>	0	4
	Melting out (Turfgrass)	<i>Drechslera</i> sp./spp.	2	0
	Fairy ring	Various fungi	2	0
	Unknown	General	0	2
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	3
	Algae	General	0	1
	Cultural/environmental problem	Abiotic disorder	2	3
	Soil compaction	Abiotic disorder	2	0
	Environmental stress; Problem	Abiotic disorder	3	37
	Root problems	Abiotic disorder	1	0
	Leaf spot	<i>Bipolaris</i> sp./spp.	2	0
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	23	0
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	10	0
	Dollar spot	<i>Sclerotinia homeocarpa</i>	0	1
	Abnormal root development	Unidentified Agent	1	0
	Root rot	Various Fungi	7	0
		No Pathogen Found	1	0
		<i>Rhizoctonia solani</i>	2	0
		<i>Rhizoctonia</i> sp./spp.	2	0
	Common Wheat C = 3 H = 0	Scab	<i>Fusarium</i> sp./spp.	1
Leaf spot		<i>Stagonospora</i> sp./spp.	1	0
		<i>Drechslera</i> sp./spp.	1	0
Fescues C = 0 H = 7	Anthraxnose	<i>Colletotrichum graminicola</i>	0	1
	Rhizoctonia blight	<i>Rhizoctonia solani</i>	0	1
	Powdery mildew	<i>Oidium</i> sp./spp.	0	1
	Physarum slime mold	<i>Physarum</i> sp./spp.	0	1
	Environmental stress; Problem	Abiotic disorder	0	3

Grain Sorghum C = 4 H = 0	Grain mold	Various Fungi	1	0
		<i>Fusarium</i> sp./spp.	1	0
	Sorghum curvul. head blight	<i>Curvularia</i> sp./spp.	1	0
	Sorghum Fusarium head blight	<i>Fusarium fujikuroi</i>	1	0
Norway Spruce C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Roughstalk Bluegrass C = 2 H = 0	Melting out (Turfgrass)	<i>Drechslera</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	1	0
Ryegrass C = 4 H = 0		<i>Drechslera</i> sp./spp.	2	0
		<i>Fusarium</i> sp./spp.	2	0
Seashore Paspalum C = 3 H = 0	Melting out (Turfgrass)	<i>Drechslera</i> sp./spp.	1	0
	Nutrient imbalance	Abiotic disorder	1	0
		<i>Rhizoctonia solani</i>	1	0
St. Augustinegrass C = 38 H = 20	Rhizoctonia blight	<i>Rhizoctonia solani</i>	0	2
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	5
	Soil compaction	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	1	13
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	9	0
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	14	0
	Insects	Class insecta	1	0
	Root rot	Various Fungi	1	0
		<i>Rhizoctonia solani</i>	2	0
	Gray leaf spot	<i>Pyricularia grisea</i>	9	0
Tall Fescue C = 3 H = 0	Root problems	Abiotic disorder	1	0
	Pythium blight; Cottony blight	<i>Pythium</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	1	0
Unknown Weeds; Unknown plants C = 0 H = 3	Unknown	General	0	1
		Unknown cause	0	2
Zoysia (Japanese Lawngress) C = 0 H = 1		Abiotic disorder	0	1

Zoysia Grass C = 76 H = 41	Rhizoctonia blight	<i>Rhizoctonia solani</i>	0	9
	Melting out (Turfgrass)	<i>Drechslera</i> sp./spp.	6	0
	Fairy ring	Various fungi	3	0
	Rhizoctonia Crown and Root Rot	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	0	1
	Take-all	<i>Gaeumannomyces</i> sp./spp.	0	2
	Cultural/environmental problem	Abiotic disorder	6	7
	Nutritional deficiency	Abiotic disorder	2	0
	Nutrient imbalance	Abiotic disorder	3	0
	Environmental stress; Problem	Abiotic disorder	5	22
	Root problems	Abiotic disorder	1	0
	Leaf spot	<i>Bipolaris</i> sp./spp.	2	0
	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	18	0
	Root decline of warm season grasses	<i>Gaeumannomyces graminis</i>	8	0
	Leaf rust; Rust	<i>Puccinia</i> sp./spp.	1	0
	Dollar spot	<i>Sclerotinia homeocarpa</i>	2	0
	Root rot	Various Fungi	5	0
	Root rot	Unidentified Agent	1	0
	Insufficient sample	Identification Analysis	1	0
		No Pathogen Found	1	0
		<i>Rhizoctonia solani</i>	7	0
		<i>Rhizoctonia</i> sp./spp.	1	0
	No pathogen found	Identification Analysis	1	0
	Root problem	Unknown Cause	2	0

VEGETABLES

(Total Diagnoses 666: C=596; H=70)

HOST	DISEASE	CAUSAL ORGANISM	C	H
Allium; Onions; Leeks; Garlic C = 1 H = 0		<i>Enterobacter sp./spp.</i>	1	0
Bean C = 16 H = 2	Unknown	General	0	1
	Bacterial brown spot	<i>Pseudomonas syringae</i>	2	0
	Chemical injury	Abiotic disorder	1	1
	Chemical; Environmental injury	Abiotic disorder	1	0
	Herbicide injury; Exposure	Abiotic disorder	1	0
	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1	0
	Insufficient sample	Identification Analysis	1	0
		<i>Cercospora sp./spp.</i>	1	0
		No Pathogen Found	4	0
		<i>Pseudomonas sp./spp.</i>	1	0
		<i>Pythium sp./spp.</i>	1	0
		Unknown Agent	1	0
	<i>Xanthomonas sp./spp.</i>	1	0	
Bell Pepper C = 5 H = 0		No Pathogen Found	5	0
Broccoli C = 13 H = 0	Rhizoctonia blight	<i>Rhizoctonia solani</i>	1	0
	Black rot	<i>Xanthomonas campestris</i>	1	0
	Bacterial soft rot	<i>Erwinia sp./spp.</i>	1	0
	Soft rot	<i>Pseudomonas sp./spp.</i>	1	0
		<i>Erwinia sp./spp.</i>	2	0
		No Pathogen Found	3	0
		<i>Xanthomonas campestris</i>	1	0
	Unspecified pathology	<i>Pseudomonas sp./spp.</i>	3	0
Brussels-sprouts C = 3 H = 0	Sclerotinia crown rot	<i>Sclerotinia sp./spp.</i>	1	0
	Cercospora leaf spot	<i>Cercospora sp./spp.</i>	1	0
	Nutritional pathology	Abiotic disorder	1	0
Butternut Squash C = 3 H = 0	Nutritional deficiency	Abiotic disorder	1	0
		No Pathogen Found	2	0
Cabbage C = 51	Rhizoctonia blight	<i>Rhizoctonia solani</i>	1	0
	Black rot	<i>Xanthomonas campestris</i>	19	0

H = 1	Crucifer bacterial black rot	<i>Xanthomonas campestris</i>	3	0
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	0	1
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1	0
	Bacterial leaf spot	<i>Xanthomonas</i> sp./spp.	1	0
	Chemical injury	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	1	0
	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1	0
		Abiotic disorder	1	0
		<i>Cercospora</i> sp./spp.	2	0
		No Pathogen Found	5	0
		<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia solani</i>	1	0
		<i>Xanthomonas campestris</i>	10	0
		<i>Xanthomonas</i> sp./spp.	1	0
		Downy mildew	<i>Hyaloperonospora parasitica</i>	1
	<i>Xanthomonas campestris</i> pv. <i>raphani</i>	<i>Xanthomonas campestris</i> pv. <i>raphani</i>	1	0
Cantaloupe; Cantaloupe C = 15 H = 0	Gummy stem blight	<i>Didymella</i> sp./spp.	1	0
	Unknown	General	1	0
	Chemical; Environmental injury	Abiotic disorder	1	0
	High soluble salt	Abiotic disorder	1	0
	Water damage	Abiotic disorder	1	0
	Manganese toxicity	Abiotic disorder	3	0
	Bacterial leaf spot	Unidentified Bacteria	1	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
	Gummy stem blight	<i>Didymella</i> (ana. <i>Phoma</i>) <i>bryonae</i> (<i>cucurbitacearum</i>)	1	0
		Abiotic disorder	1	0
		<i>Didymella bryoniae</i>	1	0
		<i>Pseudomonas</i> sp./spp.	1	0
	<i>Pseudomonas syringae</i>	1	0	
Carrot C = 10 H = 0	Alternaria leaf blight	<i>Alternaria</i> sp./spp.	1	0
	Unknown	General	2	0
	Sclerotinia crown rot	<i>Sclerotinia</i> sp./spp.	1	0
	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1	0
	Alternaria leaf blight and spot	<i>Alternaria cucumerina</i>	1	0
		<i>Alternaria</i> sp./spp.	1	0
		No Pathogen Found	1	0
		<i>Sclerotium rolfsii</i>	1	0
	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.	1	0
Cauliflower	Black rot	<i>Xanthomonas campestris</i>	1	0

C = 4 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
		No Pathogen Found	2	0
		<i>Xanthomonas campestris</i>	1	0
Celery C = 3 H = 0	Pythium damping off	<i>Pythium sp./spp.</i>	1	0
		<i>Colletotrichum sp./spp.</i>	1	0
Cherry Tomato C = 1 H = 0	No pathogen found	Identification Analysis	1	0
		No Pathogen Found	1	0
Chinese gourd C = 1 H = 0		<i>Pseudoperonospora cubensis</i>	1	0
Chinese Melon C = 1 H = 0		No Pathogen Found	1	0
Collards C = 12 H = 1	Rhizoctonia blight	<i>Rhizoctonia solani</i>	1	0
	Black rot	<i>Xanthomonas campestris</i>	5	0
	Sclerotinia crown rot	<i>Sclerotinia sp./spp.</i>	1	0
	Nutritional pathology	Abiotic disorder	1	0
	Nutritional deficiency	Abiotic disorder	1	0
	Unknown abiotic disorder	Abiotic disorder	0	1
	Insufficient sample	Identification Analysis	1	0
		No Pathogen Found	1	0
		<i>Rhizoctonia solani</i>	1	0
Cucumber C = 20 H = 0	Anthraco nose	<i>Colletotrichum orbiculare</i>	2	0
	Cucurbit downy mildew	<i>Pseudoperonospora cubensis</i>	3	0
	Cucurbit bacterial wilt	<i>Erwinia tracheiphila</i>	1	0
	Rhizoctonia root rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Bacterial leaf spot	<i>Pseudomonas sp./spp.</i>	1	0
	Chemical injury	Abiotic disorder	2	0
	Anthraco nose; Colletotrichum leaf spot	<i>Colletotrichum sp./spp.</i>	1	0
	Phytophthora root/ stem/ crown rot	<i>Phytophthora capsici</i>	3	0
	Unidentified bacteria	Unidentified Bacteria	1	0
		No Pathogen Found	3	0
		Unknown cause	1	0
	Root-knot nematodes	<i>Meloidogyne sp./spp.</i>	1	0
Dry Field Peas C = 0 H = 1	Bean root rot	<i>Fusarium solani</i>	0	1
Eggplant	Unknown	General	0	2

C = 2 H = 2	Phomopsis leaf spot	<i>Phomopsis</i> sp./spp.	1	0	
		<i>Pseudomonas</i> sp./spp.	1	0	
Kale C = 4 H = 0	Black rot	<i>Xanthomonas campestris</i>	2	0	
	Pythium damping off	<i>Pythium</i> sp./spp.	1	0	
		<i>Xanthomonas campestris</i>	1	0	
Lettuce C = 1 H = 0	Botrytis blight	<i>Botrytis</i> sp./spp.	1	0	
Lima Bean C = 0 H = 1	Unknown	General	0	1	
Mustard Family C = 4 H = 0	Rhizoctonia blight	<i>Rhizoctonia solani</i>	1	0	
	Freeze; Frost; Cold damage	Abiotic disorder	1	0	
		<i>Hyaloperonospora parasitica</i>	1	0	
	Downy mildew	<i>Hyaloperonospora parasitica</i>	1	0	
Okra C = 2 H = 3	Pseudomonas blight	<i>Pseudomonas syringae</i>	1	0	
	Choanephora wet rot	<i>Choanephora</i> sp./spp.	1	0	
	Rhizoctonia Crown and Root Rot	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	0	1	
	Root problems	Abiotic disorder	0	1	
		Unknown cause	0	1	
Onion C = 36 H = 0	Stemphylium leaf blight	<i>Stemphylium vesicarium</i>	4	0	
	Unknown	General	3	0	
	Stemphylium leaf spot	<i>Stemphylium</i> sp./spp.	1	0	
	Chemical injury	Abiotic disorder	1	0	
	Nutritional deficiency	Abiotic disorder	1	0	
	Center rot	<i>Pantoea ananatis</i>	9	0	
		Abiotic disorder	1	0	
		<i>Alternaria</i> sp./spp.	1	0	
		No Pathogen Found	6	0	
		<i>Pseudomonas fluorescens</i>	2	0	
		Secondary Agents; Saprophytes; Unspecif.	1	0	
		Unknown cause	1	0	
		Viruses	1	0	
		No pathogen found	Identification Analysis	1	0
		Sour Skin	<i>Burkholderia (Pseudomonas) cepacia</i>	1	0
	Botrytis leaf blight	<i>Botrytis squamosa</i>	2	0	
Parsnip	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.	1	0	

C = 1 H = 0				
Peanut C = 1 H = 0	Unknown	General	1	0
Pepper C = 36 H = 1	Unknown	General	0	1
	Bacterial leaf spot	<i>Pseudomonas sp./spp.</i>	1	0
	Sunscald	Abiotic disorder	1	0
	Pythium root and/or crown rot	<i>Pythium sp./spp.</i>	1	0
	Phytophthora root/ stem/ crown rot	<i>Phytophthora capsici</i>	2	0
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	5	0
		<i>Erwinia sp./spp.</i>	1	0
		No Pathogen Found	5	0
		<i>Pseudomonas sp./spp.</i>	1	0
	Bacterial spot	<i>Xanthomonas gardneri</i>	1	0
	Phytophthora stem rot	<i>Phytophthora sp./spp.</i>	1	0
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	1	0
	Physiological responses	Abiotic disorder	1	0
	Phytophthora root/ stem/ crown rot	<i>Phytophthora capsici</i>	2	0
	Tomato; Pepper bacterial spot	<i>Xanthomonas campestris</i>	2	0
		<i>Erwinia sp./spp.</i>	1	0
		<i>Myrothecium sp./spp.</i>	1	0
			6	0
		Unidentified Bacterium	1	0
		Unknown Agent	1	0
	Southern blight	<i>Sclerotium rolfsii</i>	1	0
Potato C = 3 H = 3	Late blight	<i>Phytophthora infestans</i>	0	1
	Unknown	General	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
	Insufficient sample	Identification Analysis	1	0
		<i>Erwinia sp./spp.</i>	1	0
		No Pathogen Found	1	0
Pumpkin C = 1 H = 0		<i>Pseudomonas sp./spp.</i>	1	0
Radicchio C = 3 H = 0	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	1	0
		No Pathogen Found	2	0

Seashore Paspalum C = 1 H = 0	Large Patch	<i>Thanatephorus (Rhizoctonia) cucumeris (solani)</i>	1	0
Snap Bean; Green Bean C = 13 H = 0	White mold (Stem rot)	<i>Sclerotinia sclerotiorum</i>	1	0
	Chemical injury	Abiotic disorder	1	0
	Sclerotinia rot	<i>Sclerotinia sclerotiorum</i>	1	0
	Insect damage	Unidentified Insect	1	0
		<i>Alternaria sp./spp.</i>	1	0
		<i>Macrophomina phaseolina</i>	1	0
		<i>Pseudomonas sp./spp.</i>	2	0
		<i>Pythium sp./spp.</i>	2	0
		<i>Rhizoctonia solani</i>	1	0
		<i>Xanthomonas sp./spp.</i>	1	0
		Pellicularia root and stem rot	<i>Rhizoctonia solani</i>	1
Southern peas; Cowpeas Blackeye Peas C = 2 H = 0	Fusarium wilt	<i>Fusarium oxysporum</i>	1	0
Spinach C = 2 H = 0	Chemical injury	Abiotic disorder	1	0
	Cercospora leaf spot	<i>Cercospora sp./spp.</i>	1	0
		<i>Cercospora sp./spp.</i>	1	0
Squash C = 32 H = 3	Anthracnose	<i>Colletotrichum orbiculare</i>	1	0
	Pseudomonas blight	<i>Pseudomonas syringae</i>	1	0
	Cucurbit downy mildew	<i>Pseudoperonospora cubensis</i>	3	1
	Powdery mildew	<i>Podosphaera sp./spp.</i>	1	0
	Phytophthora fruit rot	<i>Phytophthora sp./spp.</i>	3	0
	Phytophthora fruit rot	<i>Phytophthora capsici</i>	1	0
	Choanephora wet rot	<i>Choanephora sp./spp.</i>	1	0
	Pythium fruit rot; Cottony leak	<i>Pythium sp./spp.</i>	1	0
	Bacterial soft rot	<i>Erwinia sp./spp.</i>	1	0
	Bacterial leaf spot	<i>Pseudomonas syringae</i>	1	0
	Bacterial brown spot	<i>Pseudomonas syringae</i>	2	0
	Chemical injury	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	2	2
	Geminivirus	Geminivirus Group	1	0
	Potato Virus Y	Potato Virus Y (PVY)	1	0
	Phytophthora root/ stem/ crown rot	<i>Phytophthora capsici</i>	2	0
		Abiotic disorder	1	0
		No Pathogen Found	1	0

		Potato Virus Y (PVY)	2	0
		<i>Pseudoperonospora cubensis</i>	2	0
		<i>Pythium</i> sp./spp.	2	0
		<i>Xanthomonas</i> sp./spp.	1	0
Sweet Basil C = 1 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
		Unknown cause	1	0
Sweet Corn C = 2 H = 0	Corn bacterial stalk rot	<i>Erwinia (Pectobacterium) chrysanthemi</i> and <i>dissolvens</i>	1	0
	Southern leaf blight	<i>Bipolaris maydis</i>	1	0
Sweetpotato C = 8 H = 2	Sweetpotato scurf	<i>Monilochaetes infuscans</i>	0	1
	Bacterial stalk rot	<i>Erwinia</i> sp./spp.	1	0
	Chemical injury	Abiotic disorder	1	0
	Unidentified virus	Unidentified Virus	1	0
	Insect damage	Unidentified Insect	1	1
		<i>Ceratocystis fimbriata</i>	1	0
		No Pathogen Found	2	0
		<i>Sclerotium rolfsii</i>	1	0
Tomatillo; Tree Tomato C = 3 H = 0	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	2	0
		No Pathogen Found	1	0
Tomato C = 77 H = 45	Anthracnose fruit rot	<i>Colletotrichum coccodes</i>	0	1
	Bacterial blight	<i>Pseudomonas viridiflava</i>	1	0
	Fusarium wilt	<i>Fusarium oxysporum</i>	1	1
	Pith necrosis	<i>Pseudomonas corrugata</i>	2	2
	Unknown	General	1	3
	Cladosporium mold	<i>Cladosporium</i> sp./spp.	1	0
	Southern stem rot	<i>Sclerotium rolfsii</i>	3	0
	Not pathogen; Saprophyte	Secondary Agents; Saprophytes; Unspecif.	0	1
	Alternaria leaf spot	<i>Alternaria</i> sp./spp.	0	3
	Corynespora leaf spot	<i>Corynespora cassicola</i>	1	0
	Septoria leaf spot	<i>Septoria</i> sp./spp.	0	2
	Stemphylium leaf spot	<i>Stemphylium</i> sp./spp.	1	0
	Bacterial leaf spot	<i>Xanthomonas</i> sp./spp.	2	1
	Tomato Spotted Wilt	Tomato Spotted Wilt Virus (TSWV)	14	2

	Chemical injury	Abiotic disorder	3	0
	Chemical; Environmental injury	Abiotic disorder	1	0
	Herbicide injury; Exposure	Abiotic disorder	3	7
	Herbicide drift	Abiotic disorder	0	2
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	6
	Physiological responses	Abiotic disorder	1	0
	Root problems	Abiotic disorder	0	1
	Septoria leaf blight	<i>Septoria lycopersici</i>	0	3
	Bacterial wilt	<i>Ralstonia solanacearum</i>	4	0
	Early blight; Leaf spot	<i>Alternaria solani</i>	1	3
	Leaf blotch; Leaf spot	<i>Cladosporium</i> sp./spp.	0	1
	Tomato; Pepper bacterial spot	<i>Xanthomonas campestris</i>	6	0
	Bacterial pathogens	General	0	2
	Bacterial leaf spot	<i>Xanthomonas campestris</i>	1	0
	No virus found	No Virus Found	1	0
	Additional sample requested	Identification Analysis	1	0
		Abiotic disorder	2	0
		<i>Alternaria</i> sp./spp.	1	0
		<i>Cladosporium</i> sp./spp.	0	1
		<i>Didymella (Phoma) lycopersici</i>	1	0
		Environmental Stresses	1	0
		No Pathogen Found	11	0
		<i>Pythium</i> sp./spp.	1	0
		<i>Rhizoctonia solani</i>	1	0
		Unknown cause	2	0
		<i>Xanthomonas campestris</i>	1	0
		<i>Xanthomonas</i> sp./spp.	2	0
	No pathogen found	Identification Analysis	3	0
	Normal plant growth	Identification Analysis	1	0
	Leaf mold	<i>Passalora fulva</i>	0	2
	Zonate leaf spot in tomato	<i>Cristulariella moricola</i>	1	0
Turnip C = 3 H = 2	White leaf spot	<i>Pseudocercospora albida</i>	0	2
		No Pathogen Found	3	0
Unknown; No Site Specified C = 0 H = 1	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.	0	1
Watermelon	Anthrachnose fruit rot	<i>Colletotrichum</i> sp./spp.	1	0

C = 193 H = 0	Gummy stem blight	<i>Didymella</i> sp./spp.	24	0
	Cucurbit downy mildew	<i>Pseudoperonospora cubensis</i>	3	0
	Powdery mildew	<i>Erysiphe</i> sp./spp.	1	0
	Powdery mildew	<i>Sphaerotheca</i> sp./spp.	3	0
	Unknown	General	4	0
	Cucurbit bacterial wilt	<i>Erwinia tracheiphila</i>	1	0
	Phytophthora fruit rot	<i>Phytophthora capsici</i>	1	0
	Bacterial brown spot	<i>Pseudomonas syringae</i>	3	0
	Chemical injury	Abiotic disorder	4	0
	Chemical; Environmental injury	Abiotic disorder	1	0
	Mechanical damage	Abiotic disorder	2	0
	Sunscald	Abiotic disorder	1	0
	Environmental stress; Problem	Abiotic disorder	1	0
	Physiological responses	Abiotic disorder	4	0
	Unknown abiotic disorder	Abiotic disorder	1	0
	Phytophthora blight; Root rot	<i>Phytophthora capsici</i>	1	0
	Watermelon Fusarium wilt	<i>Fusarium oxysporum</i>	39	0
	Alternaria leaf blight and spot	<i>Alternaria cucumerina</i>	1	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	2	0
	Potyvirus Group	Potyvirus Group	1	0
	Gummy stem blight	<i>Didymella</i> (ana. <i>Phoma</i>) <i>bryonae</i> (<i>cucurbitacearum</i>)	3	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	3	0
	Pythium damping off	<i>Pythium</i> sp./spp.	1	0
		Abiotic disorder	2	0
		<i>Alternaria</i> sp./spp.	2	0
		<i>Colletotrichum</i> sp./spp.	7	0
		Environmental Stresses	1	0
		<i>Fusarium</i> sp./spp.	1	0
		No Pathogen Found	45	0
		Potato Virus Y (PVY)	1	0
		<i>Pseudomonas</i> sp./spp.	4	0
		<i>Pseudoperonospora cubensis</i>	5	0
		<i>Pythium</i> sp./spp.	5	0
	<i>Rhizoctonia solani</i>	3	0	
	<i>Rhizoctonia</i> sp./spp.	2	0	
	Unknown cause	3	0	
	No pathogen found	Identification Analysis	1	0
	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.	1	0
	Bacterial fruit blotch	<i>Acidovorax avenae</i>	4	0
Zucchini Squash	Anthracnose	<i>Colletotrichum orbiculare</i>	1	0

C = 6 H = 0	Cucurbit downy mildew	<i>Pseudoperonospora cubensis</i>	1	0
	Powdery mildew	<i>Sphaerotheca</i> sp./spp.	1	0
		No Pathogen Found	1	0
		Unknown cause	1	0
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1	0

WOODY ORNAMENTALS
(Total Diagnoses 341: C=210; H=131)

HOST	DISEASE	CAUSAL ORGANISM	C	H
American Beautyberry C = 2 H = 0	Mites	Order Acari	1	0
		No Pathogen Found	1	0
Arborvitae C = 3 H = 5	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	2
	Root problems	Abiotic disorder	0	2
	Mite damage	Unidentified Mite	1	0
		No Pathogen Found	1	0
	Root problem	Unknown Cause	1	0
Asiatic Jasmine C = 3 H = 1	Rhizoctonia blight	<i>Rhizoctonia solani</i>	0	1
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
Atlantic Whitecedar C = 1 H = 0	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1	0
Azalea; Rhododendron C = 9 H = 10	Root rot and web blight	<i>Rhizoctonia</i> sp./spp.	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	0	1
	Cultural/environmental problem	Abiotic disorder	0	3
	Environmental stress; Problem	Abiotic disorder	0	2
	Root problems	Abiotic disorder	0	3
	Dieback; Canker; Twig blight	<i>Botryosphaeria</i> sp./spp.	2	0
	Leaf and flower gall	<i>Exobasidium</i> sp./spp.	0	1
	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.	1	0
	Root rot	Unidentified Agent	2	0
		<i>Cercospora</i> sp./spp.	1	0
	No Pathogen Found	1	0	
Banana Shrub C = 0 H = 1	Algal leaf spot	<i>Cephaleuros</i> sp./spp.	0	1
Bigleaf Hydrangea C = 2 H = 0	Botrytis blight	<i>Botrytis</i> sp./spp.	1	0
	Bacterial leaf spot	Unidentified Bacteria	1	0

Boxwood C = 40 H = 12	Unknown	General	0	1
	Crown and root rot	<i>Phytophthora</i> sp./spp.	3	0
	Boxwood leafminer	<i>Monarthropalpus flavus</i> (<i>buxi</i>)	2	0
	Environmental stress; Problem	Abiotic disorder	0	6
	Root problems	Abiotic disorder	1	1
	Boxwood Macrophoma leaf spot	<i>Dothiorella (Macrophoma) sempervirens (candollei)</i>	3	0
	Stem canker	<i>Colletotrichum</i> (teleo. <i>Glomerella</i>) sp./spp.	3	0
	Boxwood Volutella blight; Canker	<i>Volutella buxi</i>	13	0
	Anthracnose stem blight	<i>Colletotrichum</i> sp./spp.	1	0
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1	0
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	13	4
Butterfly Bush; Summer Lilac C = 0 H = 1	Cultural/environmental problem	Abiotic disorder	0	1
Callery Pear C = 0 H = 2	Unknown	General	0	2
Camellia C = 6 H = 5	Camellia leaf gall	<i>Exobasidium camelliae</i>	0	1
	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Cultural/environmental problem	Abiotic disorder	0	2
	Environmental stress; Problem	Abiotic disorder	0	2
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
	Scale insects	Order homoptera	1	0
	Stem canker	<i>Colletotrichum</i> (teleo. <i>Glomerella</i>) sp./spp.	1	0
Chastetree C = 1 H = 0		No Pathogen Found	1	0
Cherry-laurel C = 6 H = 1	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Rhizoctonia root; Crown rot	<i>Rhizoctonia</i> sp./spp.	1	0
	Mites	Order Acari	1	0
	Root problems	Abiotic disorder	0	1
		<i>Colletotrichum</i> sp./spp.	1	0
	Root problem	Unknown Cause	1	0

Chinese Fringe Flower C = 1 H = 0	Cercospora leaf spot	<i>Pseudocercospora liquidambaricola</i>	1	0
Common Boxwood C = 28 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	3	0
	Boxwood leafminer	<i>Monarthropalpus flavus (buxi)</i>	4	0
	Root problems	Abiotic disorder	1	0
	Boxwood Macrophoma leaf spot	<i>Dothiorella (Macrophoma) sempervirens (candollei)</i>	2	0
	Stem canker	<i>Colletotrichum (teleo. Glomerella) sp./spp.</i>	2	0
	Boxwood Volutella blight; Canker	<i>Volutella buxi</i>	8	0
	Mite damage	Unidentified Mite	1	0
		No Pathogen Found	2	0
	Anthracnose; Twig dieback	<i>Colletotrichum</i> sp./spp.	1	0
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	4	0
Common Camellia C = 8 H = 0	Botrytis blight	Botrytis sp./spp.	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Algal leaf spot	<i>Cephaleuros virescens</i>	1	0
	Tea scale	<i>Fiorinia theae</i>	1	0
	Phomopsis dieback; Tip blight; Canker	<i>Phomopsis</i> sp./spp.	1	0
	Root rot	Unidentified Agent	1	0
	Anthracnose; Twig dieback	<i>Colletotrichum</i> sp./spp.	2	0
Confederate (Star-j.) Jasmine C = 2 H = 0	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Cryptomeria C = 0 H = 5	Environmental stress; Problem	Abiotic disorder	0	5
Dahoon (Youpon) C = 1 H = 0	Stem Gall ; Witches Broom	<i>Sphaeropsis tumefaciens</i>	1	0
Deodar Cedar C = 0 H = 1	Root problems	Abiotic disorder	0	1
Deutzia C = 1 H = 0	Rhizoctonia foliar/ aerial/ web blight	<i>Rhizoctonia solani</i>	1	0
Dogwood	Dogwood powdery mildew	<i>Erysiphe pulchra</i>	0	1

C = 0 H = 1				
Dwarf Heavenly Bamboo C = 2 H = 0	Cucumber Mosaic	Cucumber Mosaic Virus (CMV)	2	0
Edging Boxwood C = 2 H = 0	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	2	0
Euphorbia C = 0 H = 1	Root problems	Abiotic disorder	0	1
Falsecypress C = 0 H = 1	Scorch	Abiotic disorder	0	1
Florida Anisetree C = 0 H = 2	Environmental stress; Problem	Abiotic disorder	0	1
	Armillaria root rot; Butt rot	<i>Armillaria sp./spp.</i>	0	1
Forsythia (Golden Bells) C = 1 H = 0	Bacterial leaf spot	Unidentified Bacteria	1	0
Gardenia C = 4 H = 5	Unknown	General	0	1
	Rhizoctonia root rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Phyllosticta leaf spot	<i>Phyllosticta sp./spp.</i>	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
	Root problems	Abiotic disorder	0	2
		No Pathogen Found	1	0
	Crown rot; Root rot; Stem rot	<i>Phytophthora sp./spp.</i>	1	0
Glossy Abelia C = 3 H = 0	Root rot and web blight	<i>Rhizoctonia sp./spp.</i>	1	0
	Crown and root rot	<i>Phytophthora sp./spp.</i>	2	0
Hawthorn C = 0 H = 1	Insufficient sample	Identification Analysis	0	1
Heavenly Bamboo C = 4 H = 0	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
	Bacterial leaf spot	Unidentified Bacteria	2	0
	Pythium root and/or crown rot	<i>Pythium sp./spp.</i>	1	0

Heller (Mushroom) Holly C = 1 H = 0		No Pathogen Found	1	0
Hinoki Falsecypress C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Holly C = 1 H = 7	Environmental stress; Problem	Abiotic disorder	0	1
	Root problems	Abiotic disorder	0	4
	Insect damage	Unidentified Insect	0	2
		No Pathogen Found	1	0
Hydrangea C = 5 H = 3	Unknown	General	0	1
	Mites	Order Acari	1	0
	Nutrient imbalance	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
		No Pathogen Found	3	0
Indian Hawthorn C = 1 H = 7		Secondary Agents; Saprophytes; Unspecif.	1	0
	Entomosporium leaf spot	<i>Entomosporium</i> sp./spp.	0	4
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
	Phytophthora blight; Dieback	<i>Phytophthora nicotianae</i>	0	1
Japanese Aralia C = 1 H = 0		<i>Entomosporium</i> sp./spp.	1	0
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Japanese Aucuba C = 2 H = 0				
	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
Japanese Barberry C = 2 H = 0	Southern blight	<i>Sclerotium rolfsii</i>	1	0
		No Pathogen Found	2	0
Japanese Cedar C = 1 H = 0				
		No Pathogen Found	1	0
Japanese Cleyera C = 1 H = 0				
	Cercospora leaf spot	<i>Cercospora</i> sp./spp.	1	0

Japanese Holly C = 7 H = 2	Black Root Rot	<i>Thielaviopsis (Chalara) basicola (elegans)</i>	1	0
	Rhizoctonia root rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Fusarium stem rot	<i>Fusarium sp./spp.</i>	1	0
	Crown and root rot	<i>Phytophthora sp./spp.</i>	2	0
	Environmental stress; Problem	Abiotic disorder	0	1
	Root problems	Abiotic disorder	0	1
		No Pathogen Found	1	0
		Bacterial blight	Unidentified Bacteria	1
Japanese Maple C = 0 H = 2	Root problems	Abiotic disorder	0	1
	Insect damage	Unidentified Insect	0	1
Japanese Privet C = 0 H = 2	Cultural/environmental problem	Abiotic disorder	0	1
	Insect damage	Unidentified Insect	0	1
Juniper C = 1 H = 8	Cultural/environmental problem	Abiotic disorder	0	3
	Environmental stress; Problem	Abiotic disorder	0	3
	Root problems	Abiotic disorder	0	2
	Seiridium Canker	<i>Lepteutypa cupressi</i>	1	0
Korean Boxwood C = 1 H = 0	Boxwood Volutella blight; Canker	<i>Volutella buxi</i>	1	0
Korean Boxwood C = 2 H = 0		No Pathogen Found	1	0
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	1	0
Leyland Cypress C = 1 H = 1	Chemical injury	Abiotic disorder	0	1
	Conifer needle blight	<i>Passalora sequoiae</i>	1	0
Ligustrum; Privet C = 4 H = 7	Unknown	General	0	2
	Crown and root rot	<i>Phytophthora sp./spp.</i>	2	1
	Cercospora leaf spot	<i>Cercospora sp./spp.</i>	0	3
	Environmental stress; Problem	Abiotic disorder	0	1
	Wood decay fungus	Unidentified Fungus	1	0
		<i>Fusarium sp./spp.</i>	1	0
Littleleaf Boxwood C = 2 H = 0	Twospotted spider mite	<i>Tetranychus urticae</i>	1	0
	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>	1	0

Loropetalum C = 3 H = 6	Bacterial Gall	<i>Pseudomonas syringae</i>	1	2
	Unknown	General	0	2
	Leaf spot	<i>Pseudocercospora sp./spp.</i>	1	0
	Herbicide injury; Exposure	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	1
		<i>Botrytis sp./spp.</i>	1	0
Magnolia C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Mahonia C = 1 H = 0	Crown and root rot	<i>Phytophthora sp./spp.</i>	1	0
Multiple hosts C = 3 H = 0	Rhizoctonia root rot	<i>Rhizoctonia sp./spp.</i>	1	0
	Cercospora leaf spot	<i>Cercospora sp./spp.</i>	1	0
	Pythium root and/or crown rot	<i>Pythium sp./spp.</i>	1	0
Myrtle-leaved Distylium C = 3 H = 0	Crown and root rot	<i>Phytophthora sp./spp.</i>	2	0
	Anthracnose; Colletotrichum leaf spot	<i>Colletotrichum sp./spp.</i>	1	0
Nellie R. Stevens Holly C = 1 H = 0		No Pathogen Found	1	0
Oakleaf Hydrangea C = 1 H = 2	Bacterial leaf spot	<i>Xanthomonas sp./spp.</i>	1	1
	Insect damage	Unidentified Insect	0	1
Pieris C = 1 H = 0		No Pathogen Found	1	0
Pine C = 0 H = 1	Insect damage	Unidentified Insect	0	1
Pittosporum C = 1 H = 1	Root problems	Abiotic disorder	0	1
	Nectriella stem gall	<i>Nectriella pironii</i>	1	0
Plum-yew C = 1 H = 0	Rhizoctonia root; Crown rot	<i>Rhizoctonia sp./spp.</i>	1	0

Rhododendron C = 7 H = 4	Crown and root rot	<i>Phytophthora</i> sp./spp.	2	0
	Leaf spot	<i>Pseudocercospora</i> sp./spp.	1	0
	Environmental stress; Problem	Abiotic disorder	0	2
	Root problems	Abiotic disorder	0	1
	Anthraco-nose; Colletotrichum leaf spot	<i>Colletotrichum</i> sp./spp.	1	0
	Root rot	Unidentified Agent	1	0
	Crown rot; Root rot; Stem rot	<i>Phytophthora</i> sp./spp.	1	0
	Leaf spot	<i>Botryosphaeria</i> sp./spp.	1	0
	Anthraco-nose	<i>Colletotrichum gloeosporioides</i>	0	1
Rose C = 12 H = 14	Dieback; Canker	<i>Coniothyrium</i> sp./spp.	1	0
	Unknown	General	0	1
	Black spot (Rose)	<i>Diplocarpon (Marssonina) rosae</i>	0	2
	Chemical injury	Abiotic disorder	0	2
	Cultural/environmental problem	Abiotic disorder	0	1
	Environmental stress; Problem	Abiotic disorder	0	4
	Root problems	Abiotic disorder	0	1
	Scale insects	Order homoptera	1	0
	Stem canker	<i>Colletotrichum (teleo. Glomerella)</i> sp./spp.	1	0
	Rose downy mildew	<i>Peronospora sparsa</i>	2	0
	Rose Rosette Disease	Rose rosette-associated virus (RRaV)	5	3
		<i>Colletotrichum</i> sp./spp.	1	0
		<i>Fusarium</i> sp./spp.	1	0
Sasanqua Camellia C = 4 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0
	Root damage	Abiotic disorder	1	0
		No Pathogen Found	1	0
	Anthraco-nose stem blight	<i>Colletotrichum</i> sp./spp.	1	0
Shore Juniper C = 2 H = 0		No Pathogen Found	1	0
	Seiridium Canker	<i>Leptotypha cupressi</i>	1	0
Southern Bayberry; Wax Myrtle C = 1 H = 0		No Pathogen Found	1	0
Spirea C = 1 H = 1	Root problems	Abiotic disorder	0	1

		No Pathogen Found	1	0
Sweet (Tea) Olive C = 1 H = 1	Cultural/environmental problem	Abiotic disorder	0	1
	Bacterial Leaf Scorch (BLS)	<i>Xylella fastidiosa</i> (BLS)	1	0
Trumpet Vine C = 0 H = 1	Environmental stress; Problem	Abiotic disorder	0	1
Unknown; No Site Specified C = 1 H = 2	Cultural/environmental problem	Abiotic disorder	0	2
		Unknown cause	1	0
Viburnum C = 2 H = 2	Cultural/environmental problem	Abiotic disorder	0	1
	Insect damage	Unidentified Insect	0	1
		No Pathogen Found	2	0
Weigela C = 1 H = 0	Crown and root rot	<i>Phytophthora</i> sp./spp.	1	0