

Texas Plant Disease Diagnostic Laboratory 2024 Annual Report

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Acknowledgments

The Texas Plant Disease Diagnostic Laboratory (TPDDL) thrives thanks to its dedicated team of full-time and part-time employees. These employees are responsible for morphologically identifying fungi, preparing culture media, isolating pathogens from plant tissue, extracting nematodes from soil and plant tissue, running PCR, maintaining records, managing samples, and sending out reports. In 2024, under the leadership of Dr. Kevin Ong, diagnoses at the TPDDL were handled by Hannah Ayala, Samantha Knackstadt, Jake Ueckert, and Dr. Pedro Uribe, with valuable assistance from Angelina Bernardini and undergraduate student workers. Business services were efficiently managed by Courtney Overby, Taylor Nobles, Katy Ellison, and Sonya Bouse.

The TPDDL staff also collaborate with faculty and staff across various departments to ensure comprehensive and accurate diagnoses and recommendations. We are deeply grateful to the following individuals for their invaluable assistance over the past year.

Undergraduate Student Workers

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Dr. Ken Obasa

Entomology

Dr. Rafia Khan

We would also like to extend our heartfelt thanks to Mr. Todd Powell of TSP software for designing and continuously supporting the TPDDL database, “PClinic”. This essential tool has enabled us to maintain comprehensive records of TPDDL samples and distribute results electronically.

Hannah Ayala compiled the 2024 report. It can be viewed online at <https://plantclinic.tamu.edu/>

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Introduction

This annual report contains 2024 data from the TPDDL located on the Texas A&M University campus in College Station, TX.

For those pathogens that could be identified to species or where only one species is known to occur on the host plant, the species name is listed. For those diseases in which one of several species could have been involved, the epithet is listed as "sp." or "spp." The TPDDL does not routinely identify pathogenic organisms as this process can be very time-consuming and often has little impact on control recommendations. Most pathogens were considered disease incitants if they were cultured in sufficient numbers from the plant tissue, reported in the literature as pathogens of the host plant, and associated with the observed symptoms.

Viral problems were, for the most part, diagnosed by the ELISA (enzyme-linked immunosorbent assay) method by Agdia, inc. Or by Agdia's immunostrip testing system.

Nematode diseases are diagnosed by extracting nematodes from soil or plant tissue. Samples must include at least 250 cc of soil for nematode assays. Nematode populations in the sample are compared to damage threshold levels in making a control recommendation. Threshold levels have been developed in research trials for many, but not all, crops grown in TX.

The phrase "no pathogen detected" is used for specimens for which no pathogen could be isolated, and no obvious environmental or cultural condition could be associated with the problem. Trees have more specimens in this category than any other type of plant. Diagnosing tree problems in a clinic setting is more challenging than diagnosing tissues in annual plants for several reasons. Firstly, tree problems often develop over several years, and current symptoms may be related to stressful conditions from previous years. Additionally, it is difficult for growers to provide an appropriate plant specimen for diagnosis, as many tree diseases originate in the trunk or roots.

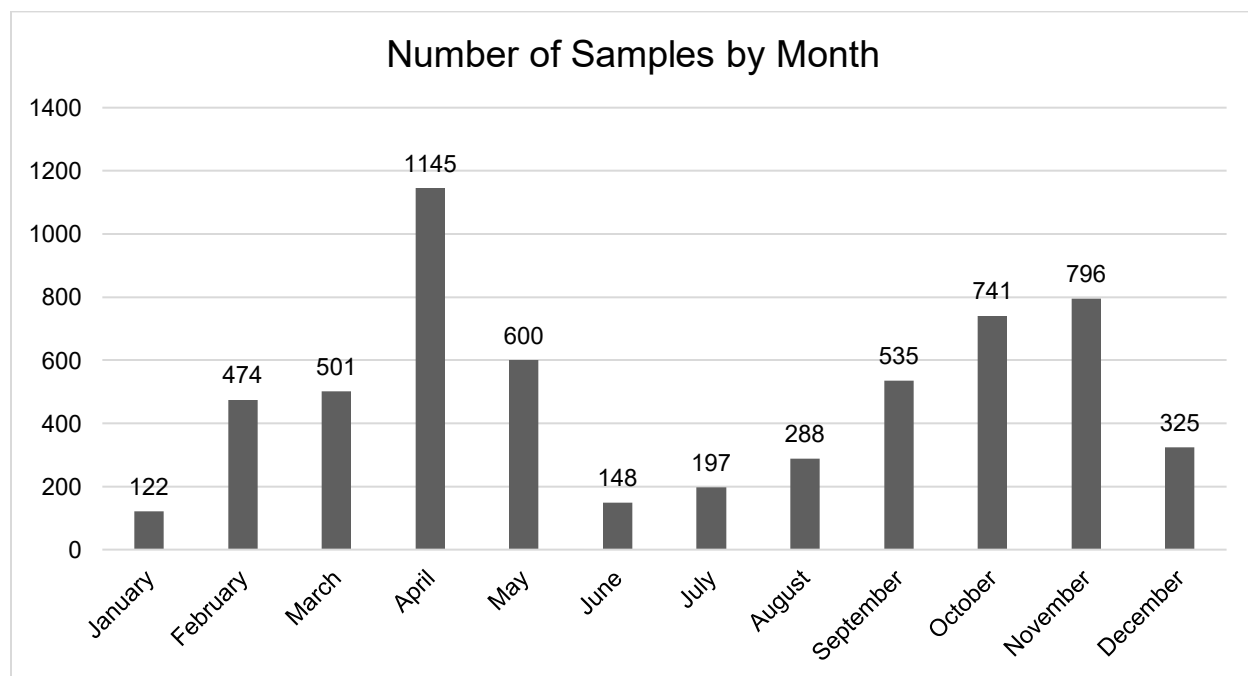
Reports are emailed and/or mailed to the submitter and any other requested parties. Upon request, we will simultaneously send electronic reports to one or more individual extension personnel. Any comments or questions about reports or plant problems can be emailed to us at plantclinic@tamu.edu.

For information on how to submit samples and complete the appropriate forms, please visit <https://plantclinic.tamu.edu>.

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Plant Disease Clinic Summaries
Monthly Submission Report

Month	# of samples
January	122
February	474
March	501
April	1145
May	600
June	148
July	197
August	288
September	535
October	741
November	796
December	325
Total	5872

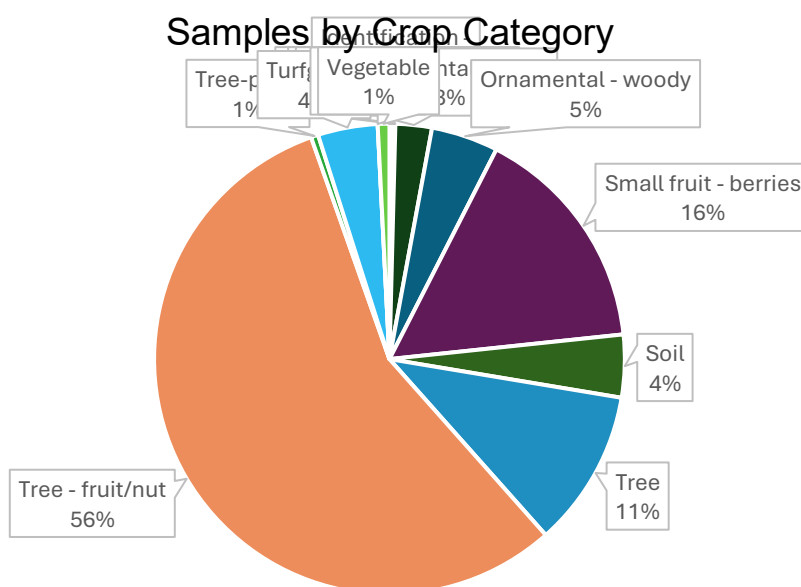


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Crop Category Report

Crop Category	# Of Samples	% Of Total
Field Crop	6	0.1
Forage	3	0.1
Fruit	1	0.0
Identification - Cultures	0	0.0
Identification - Baiting	0	0.0
Native Plant	4	0.1
Not Specified - Other	7	0.1
Ornamental - Grass	1	0.0
Ornamental - Other	145	2.5
Ornamental - Woody	272	4.6
Small Fruit - Berries	929	15.8
Soil	252	4.3
Tree	635	10.8
Tree - Fruit/Nut	3,296	56.1
Tree-Palm	32	0.5
Turfgrass	243	4.1
Unknown	0	0.0
Vegetable	46	0.8
Total	5,872	
Diagnosis Samples With No Crop Category Entered	0	

Samples by Crop Category



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Diagnostic Category Report
Distribution Of Diagnoses By Major Diagnostic Categories
Excluding 'Not Detected'

Diagnosis	# of diagnoses/IDs	% of total
Abiotic Agents	24	0.7%
Chemical - Phytotoxicity	5	
Nutrient - Toxicity/Deficiency	19	
Arthropod (Insect)	348	10.9%
Insect	247	
Mites	101	
Biotic Agents	2,410	75.2%
Bacteria	371	
Fungal	1,525	
Nematode	179	
Oomycete	285	
Phytoplasma	10	
Virus	40	
No Pathogen/Problem Found	355	11.1%
No Pathogen Found	354	
Nutritional	1	
Physiological/Environmental	58	1.8%
Abiotic	29	
Stress - Environmental/Cultural	29	
Unsuitable or insufficient sample	10	0.3%
No Diagnosis/Inconclusive	10	
Total	3205	
Diagnoses with no diagnostic category entered	19	
Identifications with no identification category entered	0	

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Distribution Of Samples By County
Sample Totals by County

County	# of samples	% of total
Ada, ID	1	0.0
Aransas, TX	7	0.1
Austin, TX	5	0.1
Bandera, TX	2	0.0
Bastrop, TX	1	0.0
Bell, TX	4	0.1
Bexar, TX	68	1.2
Blanco, TX	50	0.9
Borden, TX	1	0.0
Bosque, TX	3	0.1
Bowie, TX	1	0.0
Brazoria, TX	34	0.6
Brazos, TX	65	1.1
Brooks, TX	2	0.0
Brown, TX	14	0.2
Buncombe, NC	1	0.0
Burnet, TX	14	0.2
Caldwell, TX	12	0.2
Cameron, TX	27	0.5
Cherokee, TX	2	0.0
Coke, TX	1	0.0
Collin, TX	93	1.6
Colorado, TX	6	0.1
Comal, TX	4	0.1
Comanche, TX	7	0.1
Cooke, TX	1	0.0
Coryell, TX	2	0.0
Crockett, TX	1	0.0
Crosby, TX	1	0.0
Dallas, TX	193	3.3
Denton, TX	41	0.7
Dimmit, TX	1	0.0
Ector, TX	1	0.0
Ellis, TX	8	0.1
Erath, TX	3	0.1
Falls, TX	1	0.0
Fannin, TX	1	0.0
Fayette, TX	15	0.3
Fort Bend, TX	197	3.4
Freestone, TX	3	0.1
Galveston, TX	2	0.0
Gillespie, TX	551	9.4
Grayson, TX	5	0.1

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Gregg, TX	2	0.0
Grimes, TX	4	0.1
Guadalupe, TX	6	0.1
Harris, TX	177	3.0
Hartley, TX	1	0.0
Haskell, TX	2	0.0
Hays, TX	336	5.7
Henderson, TX	5	0.1
Hidalgo, TX	1,131	19.3
Hunt, TX	1	0.0
Jefferson, TX	2	0.0
Jim Hogg, TX	1	0.0
Johnson, TX	6	0.1
Kaufman, TX	4	0.1
Kendall, TX	8	0.1
Kerr, TX	15	0.3
Kimble, TX	2	0.0
King, TX	3	0.1
Kleberg, TX	1	0.0
Lamar, TX	3	0.1
Lamb, TX	1	0.0
Lampasas, TX	1	0.0
Lavaca, TX	2	0.0
Lee, TX	8	0.1
Leon, TX	1	0.0
Limestone, TX	3	0.1
Llano, TX	13	0.2
Lubbock, TX	44	0.7
Mason, TX	5	0.1
Matagorda, TX	1	0.0
McLennan, TX	6	0.1
Medina, TX	1	0.0
Midland, TX	12	0.2
Milam, TX	5	0.1
Montague, TX	2	0.0
Montgomery, TX	11	0.2
Nacogdoches, TX	6	0.1
Navarro, TX	1	0.0
Orange, TX	5	0.1
Palo Pinto, TX	3	0.1
Parker, TX	18	0.3
Pecos, TX	1	0.0
Polk, TX	1	0.0
Potter, TX	1	0.0
Rains, TX	2	0.0
Randall, TX	5	0.1

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Red River, TX	2	0.0
Robertson, TX	1	0.0
Rockwall, TX	2	0.0
San Saba, TX	1	0.0
Skagit, WA	1	0.0
Smith, TX	13	0.2
Tarrant, TX	73	1.2
Taylor, TX	5	0.1
Tom Green, TX	19	0.3
Travis, TX	96	1.6
Trinity, TX	3	0.1
Upshur, TX	1	0.0
Val Verde, TX	1	0.0
Victoria, TX	14	0.2
Walker, TX	3	0.1
Waller, TX	49	0.8
Washington, TX	24	0.4
Wharton, TX	26	0.4
Wichita, TX	1	0.0
Williamson, TX	41	0.7
Wilson, TX	3	0.1
Winn, LA	1	0.0
Wise, TX	1	0.0
Wood, TX	2	0.0
Yoakum, TX	1	0.0
Young, TX	1	0.0
Zapata, TX	4	0.1
Maricopa, AZ	450	7.7
Pima, AZ	5	0.1
Yuma, AZ	1,545	26.3
Pulaski, AR	2	0.0
Kern, CA	4	0.1
San Benito, CA	2	0.0
Tulare, CA	1	0.0
Weld, CO	60	1.0
DuPage, IL	40	0.7
Lake, IL	1	0.0
Bossier, LA	2	0.0
Bryan, OK	1	0.0
Marion, OR	40	0.7
King, WA	9	0.2
Total	5,872	

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Samples By Submitter Type

Submitter Type	# of samples	% of total
Arborist	122	2 %
Commercial – Ag (Field Crop, Fruit, Vegetable)	84	1 %
Commercial – Chemical Co.	1	0 %
Commercial – Dealer/Distributor	6	0 %
Commercial – Landscape Maintenance	417	7 %
Commercial – Ornamental	2	0 %
Commercial – Production Nursery/Greenhouse	213	4 %
Commercial – Retail	9	0 %
Commercial – Turf Production	3	0 %
Consultant – Ag	135	2 %
Consultant – Landscape (Tree/Turf)	357	6 %
Extension – Agent	870	15 %
Extension – Specialist	54	1 %
Extension – Survey	5	0 %
Golf Course	27	0 %
Government – Federal	825	14 %
Government – Out of State	1,908	32 %
Government – State	500	9 %
Homeowner	286	5 %
Other	8	0 %
Private – Institutions, Business	2	0 %
Public – ISD, Municipalities, Parks	37	1 %
Research – TAMUS (Various Agencies)	1	0 %
Total	5,872	

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Summary Of Diagnoses By Plant

Excluding 'Not Detected'

Field Crop

Cowpea		
2	Bacterial Blight	<i>Xanthomonas</i> sp.
3	Cercospora Leaf Spot	<i>Cercospora</i> spp.
1	Leaf Miner	
Soybean		
1	Pythium Damping-Off	<i>Pythium</i> spp.
1	Spider Mites	
Squash, Butternut		
1	Powdery Mildew	<i>Podosphaera</i> sp./spp.

Forage

Bermudagrass, Forage		
1	Curvularia Leaf Blight	<i>Curvularia</i> sp.
1	Plant Parasitic Nematodes	
1	Spider Mites	
Buffelgrass		
1	Aphids	
1	Scale Insect	

Fruit

Watermelon		
1	Fusarium Wilt	<i>Fusarium oxysporum</i>
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.

Native Plant

Cactus		
1	Cactus Scale	<i>Diaspis echinocacii</i>
Mountainmint		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
Thread-Leaf Coreopsis		
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.

Not Specified - Other

Grasses		
1	Brown Patch	<i>Rhizoctonia solani</i>
1	Plant Parasitic Nematodes	
1	Scale Insects	Order Homoptera
1	Take-All Patch-1	<i>Gaeumannomyces graminis</i>

Ornamental - Grass

Vines		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.

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Ornamental - Other

Ajuga, Bugleweed		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Basil		
1	Bacteria Identification	<i>Pseudomonas</i> sp./spp.
Catmint		
1	Lower Stem Anthracnose	<i>Colletotrichum</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Chrysanthemum		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
Cross Vine		
1	Florida Wax Scale	<i>Ceroplastes floridensis</i>
1	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1	Sphaeropsis Leaf Spot	<i>Sphaeropsis</i> sp.
Dahlia		
1	Bacterial Infection	<i>Pseudomonas</i> spp.
Echinacea		
1	Scorch	Abiotic Disorder
Grass, Zebra		
1	Ascochyta Leaf Blight.	<i>Ascochyta</i> spp.
1	Bipolaris Leaf Blight	<i>Bipolaris</i> sp.
1	Curvularia Leaf Blight	<i>Curvularia</i> sp.
1	Nigrospora Blight And Stolon Rot	<i>Nigrospora</i> sp./spp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
Heather, False/Mexican		
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
Hibiscus		
1	Anthracnose	<i>Colletotrichum gloeosporioides</i>
Holly, Savanna		
1	Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Fusarium Root Rot	<i>Fusarium</i> sp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
2	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
2	Phytophthora Root Rot	<i>Phytophthora</i> sp.
1	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.
1	Suspect Possible Nutritional Stress	
Honeysuckle		
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> Sp.
Ivy		
1	Anthracnose	<i>Colletotrichum</i> sp.
1	Suspect Oedema	
Jasmine, Asian		
1	Anthracnose - Possible Cultural Stress	<i>Gloeosporium</i> spp.

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2	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Plant Parasitic Nematodes	
Jasmine, Star/Confederate		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
Lamb's Ears		
1	Phytophthora Root Rot	<i>Phytophthora</i> sp.
Lantana		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
Lavender		
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
Liriope, Lily Turf		
1	Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
3	Crown And Leaf Sheath Rot	<i>Fusarium</i> spp.
1	Curvularia Leaf Blight	<i>Curvularia</i> sp.
6	Fungal Anthracnose	<i>Colletotrichum</i> sp.
1	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Potassium Deficiency	
1	Spider Mites	
Lisianthus, Prairie Gentian		
1	Phomopsis Blight	<i>Phomopsis</i> sp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
Mondograss, Monkey Grass		
1	Fungal Anthracnose	<i>Colletotrichum</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> sp.
Nandina		
2	Anthracnose; Twig Dieback	<i>Colletotrichum</i> sp./spp.
5	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Pestalotia Infection -Stress	<i>Pestalotia</i> spp.
1	Phomopsis Leaf Spot	<i>Phomopsis</i> sp.
2	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
2	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Whiteflies	
Orchid		
1	Anthracnose	<i>Gloeosporium</i> sp.
1	Fusarium Root; Crown Rot	<i>Fusarium</i> sp./spp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
Pansy		
1	Black Root Rot	<i>Thielaviopsis basicola</i>
4	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Thrips Insect Present	
Plumbago		
1	Suspect Phytotoxicity/Secondary Plant Stress	
Ranunculus		

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1	Bacterial Blight	<i>Pseudomonas</i> sp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Thrips Insect Present	
Roselle		
1	Fungal Stem And Crown Rot	<i>Fusarium</i> spp.
1	Lower Stem Anthracnose	<i>Colletotrichum</i> sp.
Rudbeckia		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Sage		
2	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
Sage, Mealy Cup		
1	Bacterial Blight	<i>Pseudomonas</i> sp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
Sedge		
1	Bipolaris Leaf Blight	<i>Bipolaris</i> sp.
4	Leaf Rust	<i>Puccinia</i> sp.
2	Leaf Sheath/Crown Rot	<i>Colletotrichum</i> sp.
4	Lower Leaf Sheath/Crown Rot.	<i>Rhizoctonia</i> spp.
3	Spider Mites	
Upright Prairie Coneflower		
2	White Mold	<i>Sclerotinia</i> sp.
Vinca		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Vitex		
1	Cercospora Leaf Spot	<i>Cercospora</i> spp.

Ornamental - Woody

American Beautyberry		
1	Crapemyrtle Bark Scale	<i>Acanthococcus lagerstroemiae</i>
1	Mealybugs	
1	Spider Mites	
1	Whiteflies	
Arborvitae		
1	Berckmann's Blight	<i>Seimatosporium berckmanssii</i>
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Azalea		
1	Herbicide Injury	Abiotic Disorder
Bamboo		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Nigrospora Blight	<i>Nigrospora</i> sp.
1	Rhizoctonia Stem And Root Rot	<i>Rhizoctonia</i> sp./spp.
Barberry		
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
Bottlebrush		
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.

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Boxwood

3	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
15	Boxwood Dieback	<i>Colletotrichum</i> sp.
1	Fungal Leaf Spot	<i>Macrophoma</i> sp.
1	Holly Scale	<i>Dynaspidiotus britannicus</i>
1	Mealybugs	
5	Past Spider Mite Activity	
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
4	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
8	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Scale Insect	
2	Spider Mites	
1	Suspect Cultural Stress	
1	Suspect Oedema	
11	Volutella Blight	<i>Pseudonectria buxi</i>

Boxwood, Japonica

1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Volutella Blight	<i>Pseudonectria buxi</i>

Butterfly Bush

1	Fungal Canker	<i>Phoma</i> sp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.

Camellia

1	Fungal Twig Canker	<i>Phomopsis</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.

Densifloris Yew

1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.

East Palatka Holly

1	Fungal Leaf Spot	<i>Macrophoma</i> sp.
1	Physiological Oedema	

Elaeagnus

1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Thrips Insect Present	

Florist's Cineraria

1	Black Root Rot	<i>Thielaviopsis basicola</i>
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Gardenia

1	Anthracnose	<i>Gloeosporium</i> sp.
1	Fusarium Recovered	<i>Fusarium</i> sp./spp.
1	Phoma Blight; Dieback; Rot	<i>Phoma</i> sp./spp.
3	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
1	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.

Hawthorn

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1	Fungal Leaf Spot	<i>Entomosporium</i> spp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
Hawthorn, Indian		
1	Anthracnose	<i>Gloeosporium</i> sp.
1	Fungal Leaf Spot	<i>Entomosporium</i> spp.
1	Fusicoccum Canker	<i>Fusicoccum</i> sp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Hibiscus		
1	Fusarium Recovered	<i>Fusarium</i> sp./spp.
Holly		
1	Anthracnose	<i>Fusicoccum</i> sp.
2	Anthracnose	<i>Glomerella</i> sp./spp.
5	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Botryosphaeria Dieback	<i>Botryosphaeria</i> sp.
1	Dieback	<i>Lasiodiplodia</i> sp./spp.
1	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Fungal Twig Canker	<i>Phoma</i> sp.
2	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
2	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
6	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Scale Insect	
1	Sphaeropsis Leaf Spot	<i>Sphaeropsis</i> sp.
1	Suspect Nutrient Deficiency	
1	Suspect Oedema	
Holly, American		
1	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.
Holly, Burford		
1	Anthracnose	<i>Gloeosporium</i> sp.
1	Pestalotia Infection	<i>Pestalotia</i> sp.
1	Physiological Oedema	
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
Holly, Chinese		
1	Anthracnose; Twig Dieback	<i>Colletotrichum</i> sp./spp.
1	Physiological Oedema	
Holly, Yaupon		
1	Borderline Positive For Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
Hollywood Juniper		
1	Berckmann's Blight	<i>Seimatosporium</i> sp.
1	Diplodia Needle Blight	<i>Diplodia</i> spp.
1	Spider Mites	
Hydrangea		
1	Suspect Oedema	
Japanese Boxwood		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.

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6	Boxwood Dieback	<i>Colletotrichum</i> sp.
1	Fungal Leaf Spot	<i>Macrophoma</i> sp.
2	Physiological Oedema	
9	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
9	Volutella Blight	<i>Pseudonectria buxi</i>
Juniper		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Fungal Tip Dieback/Canker	<i>Diplodia</i> spp.
1	Juniper Scale	<i>Carulaspis juniperi</i>
1	Needle Blight	<i>Phyllosticta</i> sp.
1	Needle/Twig Blight	<i>Sphaeropsis pinae</i>
1	Pestalotiopsis Needle Blight; Tip Blight	<i>Pestalotiopsis</i> sp./spp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
Korean Boxwood		
1	Boxwood Dieback	<i>Colletotrichum</i> sp.
1	Phytophthora Crown and Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
Ligustrum		
1	Anthrachnose; Twig Dieback	<i>Colletotrichum</i> sp./spp.
1	Fungal Canker	<i>Phoma</i> sp.
1	Fungal Leaf Spot	<i>Pseudocercospora</i> sp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Suspect Cultural Stress	
1	Thrips Insect Present	
Ligustrum, Wax		
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1	Volutella Leaf Blight; Dieback	<i>Volutella</i> sp./spp.
Loropetalum		
1	Discosia Leaf Spot	<i>Discosia</i> sp.
1	Fungal Twig Canker/Blight/Dieback	<i>Phomopsis</i> sp.
1	Pestalotia Infection -Stress	<i>Pestalotia</i> spp.
1	Spider Mites	
Nellie R. Stevens Holly		
3	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Borderline Positive For Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Fungal Twig Canker	<i>Phomopsis</i> sp.
3	Glomerella Leaf Spot	<i>Glomerella</i> sp./spp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
2	Leaf Spot	<i>Botryosphaeria</i> sp./spp.
1	Oedema	
1	Phomopsis Leaf Spot	<i>Phomopsis</i> sp.
2	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
2	Physiological Oedema	

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2	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
6	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.
1	Suspect Cultural Stress	
1	Tar Spot	<i>Phacidium</i> sp./spp.
1	Tea Scale	<i>Fiorinia theae</i>
1	Twig Dieback	<i>Sphaeropsis</i> sp.
Oleander		
1	Plant Parasitic Nematodes	
Photinia		
1	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Obscure Scale	<i>Melanaspis obscura</i>
1	Oedema	N/A
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
1	Suspect Possible Nutritional Stress	
Privet		
1	Whiteflies	
Red-Tip Photinia		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Fungal Canker	<i>Diplodia</i> spp.
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> sp.
1	Scale Insect	
Rose		
1	Anthrachnose - Possible Cultural Stress	<i>Gloeosporium</i> spp.
2	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Botryosphaeria Canker	<i>Botryosphaeria</i> sp.
2	Botryosphaeria Dieback	<i>Botryosphaeria</i> sp.
1	Dieback; Canker	<i>Diplodia</i> sp./spp.
1	Fungal Leaf Spot	<i>Phoma</i> spp.
3	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Past Spider Mite Activity	
1	Phomopsis Cane Canker	<i>Phomopsis</i> sp.
8	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
5	Phytophthora Root Rot	<i>Phytophthora</i> spp.
7	Plant Parasitic Nematodes	
2	Powdery Mildew	<i>Podosphaera pannosa</i>
18	Rose Rosette Disease	
8	Spider Mites	
1	Spider Mites	<i>Tetranychus</i> sp.
3	Thrips	
12	Virus Assay	N/A
Rose, Knockout		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
2	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.

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2	Phomopsis Cane Canker	<i>Phomopsis</i> sp.
1	Phomopsis Leaf Spot	<i>Phomopsis</i> sp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
11	Rose Rosette Virus	
2	Suspect Phytotoxicity/Secondary Plant Stress	
1	Thrips Insect Present	
1	Unknown Abiotic Disorder	Abiotic Disorder
Rosemary		
2	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
Sage, Texas		
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
Sassafras		
1	Twig Blight	<i>Diaporthe</i> sp./spp.
Savin Juniper		
1	Berckmann's Blight	<i>Seimatosporium</i> sp.
1	Past Spider Mite Activity	
1	Pine Tip Moth	<i>Rhyacionia</i> sp.
Silverberry		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Sugar Hackberry		
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
1	Hackberry Petiole Gall Psyllid	<i>Pachypsylla venusta</i>
1	Lichens	Lichenes
Tea Rose		
1	Spider Mites	
Viburnum		
1	Phoma Blight; Dieback; Rot	<i>Phoma</i> sp./spp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
Yaupon		
1	Anthrachnose; Twig Dieback	<i>Colletotrichum</i> sp./spp.
1	Herbicide Injury	Abiotic Disorder
1	Obscure Scale	<i>Melanaspis obscura</i>
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.

Small Fruit – Berries

Blackberry		
1	Algal Cane Spot	<i>Cephaleuros</i> spp.
1	Anthrachnose	<i>Colletotrichum</i> sp./spp.
Blueberry		
1	Canker/Dieback	<i>Neofusicoccum</i> sp./spp.
1	Oedema	N/A
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
Grape		
6	Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Black Rot Of Grape	<i>Phyllosticta</i> sp.

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1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
2	Borderline Pierce's Disease Positive	<i>Xylella fastidiosa</i>
1	Cotton Root Rot	<i>Phymatotrichum omnivorum</i>
2	Dieback	<i>Lasiodiplodia</i> sp./spp.
1	Fusarium Wilt	<i>Fusarium</i> spp.
1	Insufficient Sample	Incomplete Submission
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Leaf Spot	<i>Pestalotiopsis</i> sp./spp.
3	Phytophthora Crown and Root Rot	<i>Phytophthora</i> spp.
2	Pierce's Disease--Positive	<i>Xylella fastidiosa</i>
68	Positive qPCR Detection For Pierce's Disease	<i>Xylella fastidiosa</i>
1	Stem Rot	<i>Neopestalotiopsis</i> sp./spp.
1	Unspecified Pathology	<i>Neopestalotiopsis</i> sp./spp.
1	Unspecified Pathology	<i>Pseudomonas</i> sp./spp.
Strawberry		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.

Soil

Soil		
148	Plant Parasitic Nematodes	

Tree

American, Elm		
1	Borers	
1	Heart Rot	Unidentified Agent
1	Spider Mites	
Anacua		
1	Ribbed Cocoon Maker	<i>Bucculatrix</i> sp./spp.
Arborvitae		
1	Dieback; Canker	<i>Diplodia</i> sp./spp.
1	Fungal Needle Blight	<i>Phoma</i> sp.
1	Obscure Scale	<i>Melanaspis obscura</i>
Ash		
1	Anthracnose	<i>Discula</i> sp.
1	Anthracnose	<i>Gloeosporium</i> spp.
1	Cercospora Leaf Spot	<i>Cercospora</i> spp.
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Sphaeropsis Leaf Spot	<i>Sphaeropsis</i> sp.
Ash, Green		
1	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Suspect Possible Nutritional Stress	
Bay Laurel		
1	Canker; Stem Blight; Dieback	<i>Botryosphaeria dothidea</i>
Blackhaw		
1	Fungal Twig Canker/Blight/Dieback	<i>Phomopsis</i> sp.

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1	Twig Dieback	<i>Sphaeropsis</i> sp.
Blue Spruce		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Camphor Tree		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
Cedar Elm		
4	Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Borderline Positive For Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Brown Soft Scale	<i>Coccus hesperidum</i>
3	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Lecanium Scales	<i>Lecanium</i> sp./spp.
2	Past Freeze Damage Or Old Wounds	
4	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Powdery Mildew	<i>Phyllactinia</i> sp./spp.
1	Scale Insect	
1	Sphaeropsis Leaf Spot	<i>Sphaeropsis</i> sp.
1	Spider Mites	
1	Suspect Chemical Or Salt Damage	
1	Suspect Phytophthora Infection	
Cedar, Eastern Red		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Botryosphaeria Canker	<i>Botryosphaeria</i> sp.
1	Botryosphaeria Dieback	<i>Botryosphaeria</i> sp.
1	Fungal Twig Canker	<i>Phomopsis</i> sp.
1	Juniper Scale	<i>Carulaspis juniperi</i>
2	Needle Blight	<i>Phyllosticta</i> sp.
1	Past Spider Mite Activity	
2	Spider Mites	
Cedar, Red		
1	Diplodia Needle Blight	<i>Diplodia</i> spp.
1	Needle Blight	<i>Phyllosticta</i> sp.
2	Spider Mites	
1	Suspect Cultural Stress	
Chinese Elm		
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
4	Possible Verticillium Wilt	
1	Pythium Root Rot.	<i>Pythium</i> spp.
4	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.
Chinese Pistache Tree		
1	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.
Chinquapin Oak		
1	Anthracnose	<i>Discula</i> spp.
1	Fungal Twig Canker	<i>Phomopsis</i> sp.
1	Leaf Spot	<i>Marssonina</i> sp./spp.

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1	Past Spider Mite Activity	
Cottonwood		
1	Botryosphaeria Canker	<i>Botryosphaeria</i> sp.
1	Wood Rotting Basidiomycete Fungus	
Crape Myrtle		
1	Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Cercospora Leaf Spot	<i>Cercospora</i> spp.
1	Crapemyrtle Bark Scale	<i>Acanthococcus lagerstroemiae</i>
1	Cultural/Environmental Stress	
2	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
2	Pestalotia Infection - Stress	<i>Pestalotia</i> spp.
1	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.
1	Suspect Possible Nutritional Stress	
Cypress, Arizona		
1	Juniper Scale	<i>Carulaspis juniperi</i>
1	Needle Blight	<i>Phyllosticta</i> sp.
1	Spider Mites	
Cypress, Bald		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Cultural Stress -- Secondary Leaf Spot	<i>Pestalotia</i> sp.
1	Fungal Canker	<i>Phoma</i> sp.
1	Fungal Twig Canker/Blight/Dieback	<i>Phomopsis</i> sp.
1	Juniper Scale	<i>Carulaspis juniperi</i>
1	Pestalotia Infection	<i>Pestalotia</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Cypress, Italian		
1	Diplodia Needle Blight	<i>Diplodia</i> sp.
1	Spider Mite Damage	
Cypress, Leyland		
1	Dieback; Canker	<i>Seiridium</i> sp./spp.
1	Juniper Scale	<i>Carulaspis juniperi</i>
1	Needle Blight	<i>Phyllosticta</i> sp.
1	Past Spider Mite Activity	
1	Pestalotia Needle Blight	<i>Pestalotia</i> sp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
Dogwood		
1	Plant Parasitic Nematodes	
1	Spider Mites	
1	Suspect Oedema	
Elm		
1	Bacterial Leaf Spot - Xanthomonas	<i>Xanthomonas</i> sp.
1	Botryodiplodia Fungal Canker	<i>Botryodiplodia</i> sp.
1	Fungal Twig Canker	<i>Coniothyrium</i> sp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
Elm, American		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.

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1	Elm Anthracnose	<i>Stegophora ulmea</i>
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Spider Mites	
1	Twig Blight	<i>Fusicoccum</i> sp./spp.
Elm, Lacebark		
1	Cotton Root Rot	<i>Phymatotrichopsis omnivora</i>
Fringe Tree		
1	Anthracnose - Possible Cultural Stress	<i>Gloeosporium</i> spp.
1	Phomopsis Leaf Spot	<i>Phomopsis</i> sp.
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> spp.
Hackberry		
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> spp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
Holly, Yaupon		
2	Obscure Scale	<i>Melanaspis obscura</i>
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Twig Dieback	<i>Sphaeropsis</i> sp.
Hornbeam, American		
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1	Spider Mites	
Juniper		
1	Botryosphaeria Dieback	<i>Botryosphaeria</i> sp.
1	Fungal Needle Infection - Stress	<i>Phoma</i> spp.
1	Fungal Tip Dieback/Canker	<i>Diplodia</i> spp.
1	Juniper Scale	<i>Carulaspis juniperi</i>
1	Leptosphaeria Twig Canker	<i>Leptosphaeria</i> sp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
Lacey Oak		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Monochaetia Leaf Spot	<i>Monochaetia</i> sp.
2	Negative - Oak Wilt	
2	Oak Wilt - Positive	<i>Bretziella fagacearum</i>
1	Suspect Possible Nutritional Stress	
Laurel, Cherry		
1	Cotton Root Rot	<i>Phymatotrichopsis omnivora</i>
1	Cytospora Canker	<i>Cytospora</i> sp.
1	Gloeosporium Leaf Spot	<i>Gloeosporium</i> sp./spp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Suspect Possible Nutritional Stress	
1	Whiteflies	
Laurel, Mountain		
1	Discosia Leaf Spot	<i>Discosia</i> sp.
1	Spider Mites	

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Loquat

1	Botryodiplodia Fungal Canker	<i>Botryodiplodia</i> sp.
1	Fungal Twig Canker	<i>Sphaeropsis</i> sp.
1	Monochaetia Leaf Spot	<i>Monochaetia</i> sp.
1	Phomopsis Leaf Spot	<i>Phomopsis</i> sp.
1	Spider Mites	

Magnolia

1	Alternaria Leaf Spot	<i>Alternaria</i> sp./spp.
1	Anthrachnose	<i>Fusicoccum</i> sp.
3	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Borderline Positive For Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Fungal Leaf Spot	<i>Macrophoma</i> sp.
1	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
1	Past Spider Mite Activity	
1	Pestalotiopsis Leaf Spot	<i>Pestalotiopsis</i> sp.
3	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Powdery Mildew	<i>Oidium</i> sp.
2	Sphaeropsis Leaf Spot	<i>Sphaeropsis</i> sp.
1	Spider Mites	
1	Suspect Cultural Stress	<i>Fusarium</i> species
1	Suspect Wood Rotting Basidiomycete	Phylum Basidiomycota

Magnolia, Southern

2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Suspect Cultural Stress	

Maple

1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> sp.

Maple, Freeman's

1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
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Maple, Japanese

2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
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Mexican Sycamore

1	Flat-Headed Tree Borer	
1	Thrips Insect Present	

Mexican White Oak

2	Anthrachnose	<i>Discula</i> spp.
1	Obscure Scale	<i>Melanaspis obscura</i>

Oak

5	Anthrachnose	<i>Discula</i> spp.
1	Coryneum Twig Canker	<i>Coryneum</i> sp.
1	Cylindrosporium Leaf Spot	<i>Cylindrosporium quercus</i>
1	Fungal Wood Rot	<i>Schizophyllum commune</i>

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1	Heart Rot	Unidentified Agent
1	Leaf Skeletonizer	
1	Leaf Spot	<i>Marssonina</i> sp./spp.
1	Lichens	Lichenes
5	Negative - Oak Wilt	
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
2	Spider Mites	
1	Suspect Nutrient Deficiency	
1	Suspect Possible Nutritional Stress	
1	Tar Spot Of Oak	<i>Trabutia quercina</i>
1	Tubakia Leaf Spot	<i>Tubakia (Actinopelte)</i> spp.
1	Wood Rot Fungus	<i>Inonotus</i> sp./spp.
Oak, Blackjack		
2	Anthrachnose	<i>Discula</i> spp.
1	Cylindrosporium Leaf Spot	<i>Cylindrosporium</i> sp.
1	Fungal Canker	<i>Coryneum</i> spp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Oak, Bur		
5	Anthrachnose	<i>Discula</i> spp.
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
2	Cylindrosporium Leaf Spot	<i>Cylindrosporium</i> sp.
1	Fungal Canker	<i>Coryneum</i> spp.
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
1	Lace Bug	
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Leaf Spot	<i>Marssonina</i> sp./spp.
1	Powdery Mildew	
2	Twig Borers	
Oak, Chinkapin		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Oak, Live		
1	Anthrachnose	<i>Discula quercinia</i>
7	Anthrachnose	<i>Discula</i> spp.
5		
2	Anthrachnose - Possible Cultural Stress	<i>Gloeosporium</i> spp.
1	Ball Moss	<i>Tillandsia recurvata</i>
1	Basidiomycete Fungus Growth	Unknown
6	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Borers	
3	Botryodiplodia Fungal Canker	<i>Botryodiplodia</i> sp.
2	Botryosphaeria Canker	<i>Botryosphaeria</i> sp.
1	Botryosphaeria Dieback	<i>Botryosphaeria</i> sp.
1	Cultural Stress-Root Related Problem	
2	Cylindrosporium Leaf Spot	<i>Cylindrosporium</i> sp.
1	Cytospora Canker	<i>Cytospora</i> sp.
3	Fungal Canker	<i>Diplodia</i> spp.

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1	Fungal Canker	<i>Dothiorella</i> sp.
3	Fungal Leaf Spot	<i>Tubakia</i> spp.
4	Fungal Twig Blight	<i>Coryneum</i> spp.
4	Fungal Twig Canker	<i>Coryneum</i> spp.
1		
1	Fungal Twig Die-Back	<i>Macrophoma</i> sp.
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
2		
2	Inonotus Quercustris	<i>Inonotus quercustris</i>
2	Insect Gall	
1	Insect Galls	
0		
1	Kermes Scale	<i>Kermes</i> sp./spp.
1	Laetiporus Mushroom	<i>Laetiporus</i> sp./spp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Leaf Skeletonizer	
1	Leaf Spot	<i>Marssonina</i> sp./spp.
1	Mold; Mildew	<i>Trichoderma</i> sp./spp.
9	Negative - Oak Wilt	<i>Bretziella fagacearum</i>
8		
1	Oak Wilt - Positive	<i>Bretziella fagacearum</i>
6		
9	Obscure Scale	<i>Melanaspis obscura</i>
3	Past Freeze Damage Or Old Wounds	
4	Past Spider Mite Activity	
4	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1		
3	Possible Wood Rotting Pathogen	
1	Pythium Root Rot.	<i>Pythium</i> spp.
4	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.
1	Saprophyte On Bark	
3	Seasonal Leaf Drop	Abiotic Disorder
1	Spider Mites	
5		
2	Suspect Herbicide Or Chemical Injury	
1	Suspect Insect Borer	
1	Suspect Mechanical Injury	
2	Suspect Wood Rotting Basidiomycete	Phylum Basidiomycota
8	Tar Spot	<i>Trabutia</i> sp.
1	Twig Blight	<i>Fusicoccum</i> sp./spp.
1	Unknown Abiotic Disorder	Abiotic Disorder
2	Vein Pocket Gall-Midge	
2	Whiteflies	
1	Wood Rotting Basidiomycete	
Oak, Mexican White		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.

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1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Oak, Post		
1	Anthraxnose	<i>Discula</i> spp.
5		
2	Cylindrosporium Leaf Spot	<i>Cylindrosporium</i> sp.
1	Fungal Canker	<i>Diplodia</i> spp.
4	Fungal Leaf Spot	<i>Tubakia</i> spp.
7	Fungal Twig Canker	<i>Coryneum</i> sp.
2	Fungal Twig Canker	<i>Phoma</i> sp.
3	Herbicide Injury	Abiotic Disorder
1	Hypoxylon Canker	<i>Hypoxylon</i> spp.
1	Insect Gall	
1	Leaf Skeletonizer	
1	Leaf Spot	<i>Marssonina</i> sp./spp.
7	Negative - Oak Wilt	<i>Bretziella fagacearum</i>
1	No Disease Detected - Evidence Of Borers	
4	Obscure Scale	<i>Melanaspis obscura</i>
1	Phytophthora Root Rot	<i>Phytophthora</i> Sp.
1		
1	Pythium Root Rot	<i>Pythium</i> spp.
2	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.
1	Scale Insect	
3	Spider Mites	
1	Suspect Possible Nutritional Stress	
1	Suspect Wood Rotting Basidiomycete	Phylum Basidiomycota
1	Vein Pocket Gall-Midge	
Oak, Red		
3	Anthraxnose	<i>Discula</i> spp.
2		
2	Anthraxnose - Possible Cultural Stress	<i>Gloeosporium</i> spp.
3	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Borderline Positive For Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Botryosphaeria Canker	<i>Botryosphaeria</i> sp.
1	Cicada Egg-Laying Damage	
2	Coryneum Twig Canker	<i>Coryneum</i> sp.
6	Cylindrosporium Leaf Spot	<i>Cylindrosporium</i> sp.
1	Discosia Leaf Spot	<i>Discosia</i> Sp.
1	Fungal Canker	<i>Diplodia</i> Spp.
9	Fungal Leaf Spot	<i>Tubakia</i> sp./spp.
2	Fungal Twig --Branch Canker	<i>Diplodia</i> sp.
1	Fungal Twig Canker	<i>Phomopsis</i> sp.
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
0		
1	Heart Rot	Unidentified Agent
2	Insect Gall	

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1	Leaf Pocket Gall--Midge	
1	Leaf Skeletonizer	
1	Leaf Spot	<i>Marssonina</i> sp./spp.
1	Monochaetia Leaf Spot	<i>Monochaetia</i> sp.
1	Negative - Oak Wilt	<i>Bretziella fagacearum</i>
9		
2	Oak Leaf Blister	<i>Taphrina caerulescens</i>
1	Oak Wilt - Positive	<i>Bretziella fagacearum</i>
0		
1	Obscure Scale	<i>Melanaspis obscura</i>
8		
1	Past Freeze Damage Or Old Wounds	
2	Past Spider Mite Activity	
3	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
5		
1	Sooty Mold	
1	Spider Mites	
1	White rot	<i>Spongipellis pachyodon</i>
1	Stress or possible herbicide injury	
1	Suspect Bacterial Wetwood	
1	Suspect Possible Nutritional Stress	
1	Vein Pocket Gall-Midge	
2	Wood Rotting Basidiomycete Fungus	
1	Good Sample, Complete Form	
Oak, Sawtooth		
1	Anthrachnose	<i>Discula</i> spp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Oak, Shumard Red		
8	Anthrachnose	<i>Discula</i> spp.
1	Cylindrosporium Leaf Spot	<i>Cylindrosporium</i> sp.
2	Fungal Canker	<i>Coryneum</i> spp.
3	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
1	Leaf Skeletonizer	
3	Negative - Oak Wilt	<i>Bretziella fagacearum</i>
1	No Disease Detected - Evidence Of Borers	
1	Oak Leaf Blister	<i>Taphrina caerulescens</i>
1	Oak Wilt - Positive	<i>Bretziella fagacearum</i>
2	Obscure Scale	<i>Melanaspis obscura</i>
1	Past Freeze Damage Or Old Wounds	
5	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
Oak, Spanish Red		
1	Negative - Oak Wilt	<i>Bretziella fagacearum</i>
Oak, Texas Red		
1	Anthrachnose	<i>Discula</i> spp.

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1	Cylindrosporium Leaf Spot	<i>Cylindrosporium</i> sp.
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Leaf Skeletonizer	
Oak, Water		
1	Borers	
2	Fungal Leaf Spot	<i>Tubakia</i> spp.
1	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
3	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
1	Suspect Bacterial Wetwood	
Oak, Laurel		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
Pear, Bradford		
1	Botryosphaeria Canker	<i>Botryosphaeria</i> sp.
1	Lichens	Lichenes
1	Sphaeropsis Leaf Spot	<i>Sphaeropsis</i> sp.
1	Suspect Possible Fireblight	
Pear, Ornamental		
1	Borers	
1	Dieback	<i>Lasiodiplodia theobromae</i>
Pine		
1	Berckmann's Blight	<i>Seimatosporium</i> sp.
2	Botryodiplodia Fungal Canker	<i>Botryodiplodia</i> sp.
1	Brown Spot Needle Blight	<i>Mycosphaerella dearnessii</i>
2	Diplodia Tip Blight	<i>Sphaeropsis/Diplodia</i> spp.
1	Fungal Needle Infection - Stress	<i>Phoma</i> spp.
1	Fungal Twig Canker	<i>Phomopsis</i> sp.
2	Lecanium Scales	<i>Lecanium</i> sp./spp.
1	Needle/Twig Blight	<i>Sphaeropsis pinae</i>
2	Past Spider Mite Activity	
2	Pestalotiopsis Needle Blight; Tip Blight	<i>Pestalotiopsis</i> sp./spp.
2	Pine Tip Moth	<i>Rhyacionia</i> sp.
2	Spider Mites	
Pine, Afghan		
1	Pestalotiopsis Needle Blight; Tip Blight	<i>Pestalotiopsis</i> sp./spp.
1	Pine Tip Moth	<i>Rhyacionia</i> sp.
1	Twig Dieback	<i>Sphaeropsis</i> sp.
Pine, Japanese Black		
1	Pestalotiopsis Needle Blight; Tip Blight	<i>Pestalotiopsis</i> sp./spp.
Pine, Loblolly		
1	Fusiform Rust	<i>Cronartium quercum</i> f. sp. <i>fusiforme</i>
1	Pestalotiopsis Needle Blight; Tip Blight	<i>Pestalotiopsis</i> sp./spp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	

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Pistache, Chinese

1	Alternaria Leaf Blight	<i>Alternaria</i> sp.
1	Anthracnose	<i>Fusicoccum</i> sp.
3	Anthracnose - Possible Cultural Stress	<i>Gloeosporium</i> spp.
1	Fusarium Recovered	<i>Fusarium</i> sp./spp.
1	Past Freeze Damage or Old Wounds	
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Suspect Excess Soluble Salts	
1	Suspect Phytotoxicity/Secondary Plant Stress	
1	Thrips Insect Present	
1	Verticillium Recovered	<i>Verticillium</i> sp./spp.

Poplar, Tulip

1	Fungal Canker	<i>Phoma</i> sp.
1	Poty Virus Infection	Potyvirus

Redbud

1	Anthracnose - Possible Cultural Stress	<i>Gloeosporium</i> spp.
1	Cercospora Leaf Spot	<i>Cercospora</i> sp.
1	Fungal Leaf Spot	<i>Phoma</i> spp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
2	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
2	Spider Mites	

Shumard, Red

1	Negative - Oak Wilt	<i>Bretziella fagacearum</i>
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Smoke Tree

1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phomopsis Leaf Spot	<i>Phomopsis</i> sp.
1	Wood Rotting Basidiomycete Fungus	

Swamp Chestnut Oak

1	Anthracnose	<i>Discula</i> spp.
1	Fungal Canker	<i>Coryneum</i> spp
2	Fungal Leaf Spot	<i>Tubakia</i> spp.
2	Phytophthora Root Rot	<i>Phytophthora</i> spp.

Sycamore (Planetree)

1	Bacterial Leaf Scorch	<i>Xylella fastidiosa</i>
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.

Texas Ebony

1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.

Texas Mountain Laurel

1	Oedema	Abiotic
3	Past Spider Mite Activity	
2	Suspect Possible Nutritional Stress	

Texas Red Oak

3	Anthracnose	<i>Discula</i> spp.
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1	Iron Deficiency	
1	Leaf Spot	<i>Marssonina</i> sp./spp.
1	Negative - Oak Wilt	<i>Bretziella fagacearum</i>
1	Obscure Scale	<i>Melanaspis obscura</i>
1	Twig Dieback	<i>Sphaeropsis</i> sp.
1	Good Sample, Complete Form	
Various		
1	No Disease Detected-Suspect Herbicide Injury	

Tree - Fruit/Nut

Apple		
1	Bitter Rot	<i>Colletotrichum gloeosporioides</i>
1	Fire Blight	<i>Erwinia amylovora</i>
1	Fire Blight - Suspected	<i>Erwinia amylovora</i>
1	Fruit Rot	<i>Botryosphaeria</i> sp./spp.
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
1	Twig Blight	<i>Fusicoccum</i> sp./spp.
Apricot		
1	Scab	<i>Cladosporium</i> sp./spp.
1	Bacterial Blight	
Blueberry, Japanese		
1	Borderline Phytophthora Positive	Phytophthora Spp.
Cherry		
1	Cercospora Leaf Spot	Cercospora Spp
1	Fungal Twig Canker	Phomopsis sp.
1	Fungal Twig/Branch Canker	Phoma sp.
1	Leaf Anthracnose -- Fungal	Colletotrichum sp.
Citrus		
4	Ca. Liberibacter Asiaticus - Hlb Positive	Ca. Liberibacter asiaticus
258	Citrus Canker	<i>Xanthomonas citri</i> pv. <i>citri</i>
2	Citrus Canker - Inconclusive	
1	Citrus Yellow Vein Clearing Virus	Potexvirus Citrus Yellow Vein Clearing Virus
1	Diagnosis Inconclusive	
2	Leaf Miner Activity - Citrus	
2,97	Negative For the Detection Of Ca. Liberibacter	
3		
Fig		
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Rhizoctonia Root Rot	<i>Rhizoctonia</i> sp.
1	Root Knot Nematode	<i>Meloidogyne incognita</i>
Lemon		
1	Anthracnose - Possible Cultural Stress	<i>Gloeosporium</i> spp.

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1	Negative For The Detection Of Ca. Liberibacter	
Mango		
1	Phytophthora Crown And Root Rot	<i>Phytophthora</i> spp.
1	Unspecified Pathology	<i>Diaporthe</i> sp./spp.
Peach		
1	Bacterial Spot	<i>Xanthomonas campestris</i> pv. <i>pruni</i>
1	Scab	<i>Cladosporium carpophilum</i>
Pear		
1	Fire Blight	<i>Erwinia amylovora</i>
1	Physiological / Cultural Stress	
Pecan		
3	Anthrachnose	<i>Colletotrichum</i> sp.
1	Botryosphaeria Canker	<i>Botryosphaeria</i> sp.
1	Crown Gall	<i>Agrobacterium tumefaciens</i>
1	Downy Spot-Fungal	<i>Cylindrosporium</i> spp.
2	Fungal Twig/Branch Canker	<i>Phoma</i> sp.
2	Hickory Shuckworm	<i>Cydia caryana</i>
1	Insect Damage	
1	Leaf Miner	
1	Phoma Blight; Dieback; Rot	<i>Phoma</i> sp./spp.
1	Phyllosticta Leaf Spot	<i>Phyllosticta</i> sp.
3	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Spider Mites	
2	Suspect Excess Soluble Salts	
Persimmon, Common		
1	Botryodiplodia Fungal Canker	<i>Botryodiplodia</i> sp.
1	Cylindrosporium Leaf Spot	<i>Cylindrosporium</i> sp.
Pistachio		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Cytospora Canker	<i>Cytospora</i> sp.
1	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
Plum		
1	Black Knot	<i>Dibotryon morbosum</i>
1	Lesser Peachtree Borer	<i>Synanthedon pictipes</i>
Plum, Mexican		
1	Canker/Dieback	<i>Neofusicoccum</i> sp./spp.
1	Fungal Stem And Crown Rot	<i>Fusarium</i> spp.
1	Spider Mites	
1	Stone Fruit Rust	<i>Tranzschelia</i> sp.
Pomegranate		
1	Anthrachnose	<i>Colletotrichum</i> sp.
3	Aspergillus	<i>Aspergillus</i> sp./spp.
3	Cercospora Leaf Spot Of Pomegranate	<i>Pseudocercospora punicae</i>
1	Twig Blight	<i>Fusicoccum</i> sp./spp.

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Tree - Palm

Cardboard Palm; Cycad		
1	Bacterial Infection	<i>Pseudomonas</i> spp.
Palm, Canary Island Date		
1	Lethal Bronzing	Phytoplasma
Palm, Chinese Fan		
1	Fusarium Leaf Spot	<i>Fusarium</i> sp.
Palm, Date		
7	Lethal Bronzing	Phytoplasma
Palm, Queen		
1	Lethal Bronzing	Phytoplasma
Phoenix Palm		
1	Lethal Bronzing	Phytoplasma

Turfgrass

Bermudagrass		
9	Algae	
3	Ascochyta Leaf Blight.	<i>Ascochyta</i> spp.
31	Bermudagrass Decline (Syn. Take-All Patch)	<i>Gaeumannomyces graminis</i>
8	Bermudagrass Scale	<i>Odonaspis ruthae</i>
20	Bipolaris Leaf Blight	<i>Bipolaris</i> sp.
23	Brown Patch	<i>Rhizoctonia</i> sp.
25	Curvularia	<i>Curvularia</i> sp.
1	Dense Thatch Layer	Abiotic Disorder
21	Drechslera Leaf Blight	<i>Drechslera</i> sp.
1	Helminthosporium Leaf/Spot Blight (Bipolaris)	<i>Bipolaris</i> sp.
2	Microdochium (Fusarium) Patch	<i>Microdochium nivale</i>
1	Nigrospora Blight And Stolon Rot	<i>Nigrospora</i> sp./spp.
9	Nigrospora Stolon Blight	<i>Nigrospora</i> sp.
1	Plant Parasitic Nematodes	
4	Rhodesgrass Mealybug	<i>Antonina graminis</i>
4	Root Knot Nematodes	<i>Meloidgyne</i> sp.
2	Scale Insects	
1	Spider Mites	
Bermudagrass, Tifeagle		
1	Bipolaris Leaf Blight	<i>Bipolaris</i> sp.
1	Curvularia Leaf Blight	<i>Curvularia</i> sp.
1	Drechslera Leaf Blight	<i>Drechslera</i> sp.
1	Plant Parasitic Nematodes	
1	Take-All Patch	<i>Gaeumannomyces graminis</i>
Grass, Turf		
1	Crown Rust; Rust	<i>Puccinia coronata</i>
1	Minimal Pythium infection in roots	<i>Pythium</i> spp.

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Ryegrass, Perennial

9 Plant Parasitic Nematodes

Seashore Paspalum

1	Curvularia Leaf Blight	<i>Curvularia</i> sp.
1	Rhizoctonia Leaf Sheath Blight	<i>Rhizoctonia</i> sp.
1	Take-All Patch	<i>Gaeumannomyces graminis</i>

St. Augustinegrass

11	Ascochyta Leaf Blight.	<i>Ascochyta</i> spp.
30	Bipolaris Leaf Blight	<i>Bipolaris</i> sp.
56	Brown Patch	<i>Rhizoctonia</i> sp.
16	Chinch Bugs	<i>Blissus insularis</i>
89	Curvularia	<i>Curvularia</i> sp.
28	Drechslera Leaf Blight	<i>Drechslera</i> sp.
5	Fusarium Blight	
1	Fusarium Crown/Root Rot	<i>Fusarium</i> sp.
30	Gray Leaf Spot	<i>Pyricularia grisea</i>
2	Leaf Anthracnose -- Fungal	<i>Colletotrichum</i> sp.
15	Leaf Sheath/Crown Rot	<i>Colletotrichum</i> sp.
7	Microdochium (Fusarium) Patch	<i>Microdochium nivale</i>
69	Nigrospora Blight & Stolon Rot	<i>Nigrospora sphaerica</i>
2	Nigrospora Blight	<i>Nigrospora</i> sp.
1	Past Spider Mite Activity	
2	Plant Parasitic Nematodes	
36	Rhodesgrass Mealybug	<i>Antonina graminis</i>
36	Scale Insect	
7	Spider Mites	
13	Take-All Patch	<i>Gaeumannomyces graminis</i> var.
4		<i>graminis</i>
1	Thrips Insect Present	
1	Poor Sample, Complete Form	
1	Good Sample, Complete Form	
1	Adequate Sample; Complete Form	

Zoysia

12	"Helminthosporium" Leaf Blight	<i>Bipolaris</i> sp.
2	Ascochyta Leaf Blight.	<i>Ascochyta</i> spp.
23	Brown Patch	<i>Rhizoctonia</i> sp.
1	Chinch Bugs	
29	Curvularia Blight	<i>Curvularia</i> sp.
1	Dense Thatch Layer	Abiotic Disorder
8	Drechslera Leaf Blight	<i>Drechslera</i> sp.
3	Leaf Sheath/Crown Rot	<i>Colletotrichum</i> sp.
1	Microdochium (Fusarium) Patch	<i>Microdochium nivale</i>
8	Nigrospora Blight	<i>Nigrospora</i> sp.
1	Nigrospora Blight And Stolon Rot	<i>Nigrospora</i> sp./spp.
1	Plant Parasitic Nematodes	
4	Rhodesgrass Mealybugs	<i>Antonina graminis</i>

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1	Rust	
1	Scale Insect	
36	Take-All Patch	<i>Gaeumannomyces graminis</i>

Vegetable

Cabbage		
1	Black Rot	<i>Xanthomonas campestris</i>
Celeriac		
1	Alternaria Leaf Blight	<i>Alternaria</i> sp.
Celery		
1	Alternaria Leaf Blight	<i>Alternaria</i> sp.
Cucumber		
1	Squash Leaf Curl	Begomovirus
Kale		
1	Fungal Stem/Crown Rot.	<i>Colletotrichum</i> spp.
Lettuce		
1	Powdery Mildew	<i>Golovinomyces</i> sp.
Pepper		
1	Borderline Phytophthora Positive	<i>Phytophthora</i> spp.
1	Fusarium Wilt	<i>Fusarium oxysporum</i>
Pumpkin		
1	Suspect Oedema	
Squash		
1	Downy Mildew	<i>Pseudoperonospora cubensis</i>
2	Powdery Mildew	
Tomato		
1	Bacterial Leaf Spot- Xanthomonas	<i>Xanthomonas</i> spp.
4	Early Blight	<i>Alternaria solani</i>
1	Flea Beetles	Subfamily Galerucinae; Tribe Alticini
1	Fusarium Recovered	<i>Fusarium</i> spp.
1	Phytophthora Root Rot	<i>Phytophthora</i> spp.
1	Potyvirus Infection	Potyvirus
1	Suspect Ozone Damage	Abiotic Disorder
3	Tomato Spotted Wilt Virus	TSWV