

## 2019 Annual Report for the Plant and Pest Diagnostic Clinic



## Introduction to the Plant and Pest Diagnostic Clinic 2019 Annual Report

The Plant and Pest Diagnostic Clinic (PPDC) serves the people of South Carolina as a multidisciplinary lab that provides diagnoses of plant diseases and identifications of weeds and of insect pests of plants and structures. Solutions for these problems are provided through management recommendations. As a part of the Department of Plant Industry in Regulatory Services, the PPDC also helps to detect and document new plant diseases and pests in South Carolina and serves as an information resource for Clemson University Extension, teaching, regulatory and research personnel.

In 2019, the PPDC received 1180 samples, and 33 people from eight disciplinary areas assisted by identifying diseases, insects or plants or by providing management recommendations. Appreciation is expressed to all faculty, students and staff that contributed their time and effort, enhancing the success of the PPDC. Special thanks are extended to those who served as primary identifiers: Entomologists; Predeesh Chandran and Tim Drake, Botanists; Dixie Damrel and Jason Joines, Biology Professor Emeritus; John Hains, former DPR Inspector; Josh Weaver and Horticulture Professor Emeritus; Ted Whitwell.

We were lucky to retain the part-time assistance of plant pathology graduate, Martha Froelich, who diagnosed 392 samples and wrote 353 reports. She was extremely helpful and although we'd hope she'd return this year, she decided to pursue other interests. Graduate student, Melissa Munoz also provided diagnostic assistance as a volunteer. We can't thank her enough for her valuable contributions. Collaboration on a first report of fothergilla leaf spot is one very notable contribution, which should result in a publication in 2020.

Much gratitude also goes out to the core lab staff. Curt Colburn, the Molecular Biologist in charge of the Molecular Plant Pathogen Detection Lab (MPPD), has also provided diagnostic assistance for the PPDC, specializing in diseases of boxwood and lavender. The MPPD lab works hand-in-hand with the Invasive Species Program as a reliable source for detection of regulated plant pathogens.

As usual, Lab Coordinator, Diana Low, did her best to keep things organized and running smoothly. The "goody bags" she provides to lab tour participants has made us a popular site to visit and the pamphlets therein promote the PPDC and the Invasive Species Program.

Entomologist, Predeesh Chandran, is the main insect identifier during the growing season. He also works closely with Invasive Species Program, and his target insect sample load was quite heavy this year. Predeesh is also recognized for creating the insect identification section of this report.

The PPDC, the Molecular Plant Pathogen Detection Lab (MPPD) and the Commercial Turf Clinic are housed in the Department of Plant Industry, but the annual reports for these other labs will stand on their own. I hope that readers find all of these reports interesting and informative.

Meg Williamson, Diagnostician and Lab Manager

## Personnel Who Participated in Diagnostics and Reporting in 2019

### Diagnostics

Curt Colburn processed 120 samples.  
Dixie Damrel processed 33 samples.  
Josh Weaver processed 36 samples.  
Michael Caterino processed 3 samples.  
Timothy Drake processed 54 samples.  
Jason Joines processed 33 samples.  
Martha Froelich processed 392 samples.  
Meg Williamson processed 596 samples.  
Joey Williamson processed 1 sample.  
John Hains processed 31 samples.  
Eric Benson processed 11 samples.  
Melissa Munoz processed 11 samples.  
Predeesh Chandran processed 184 samples.  
DianaLow processed 55 samples.

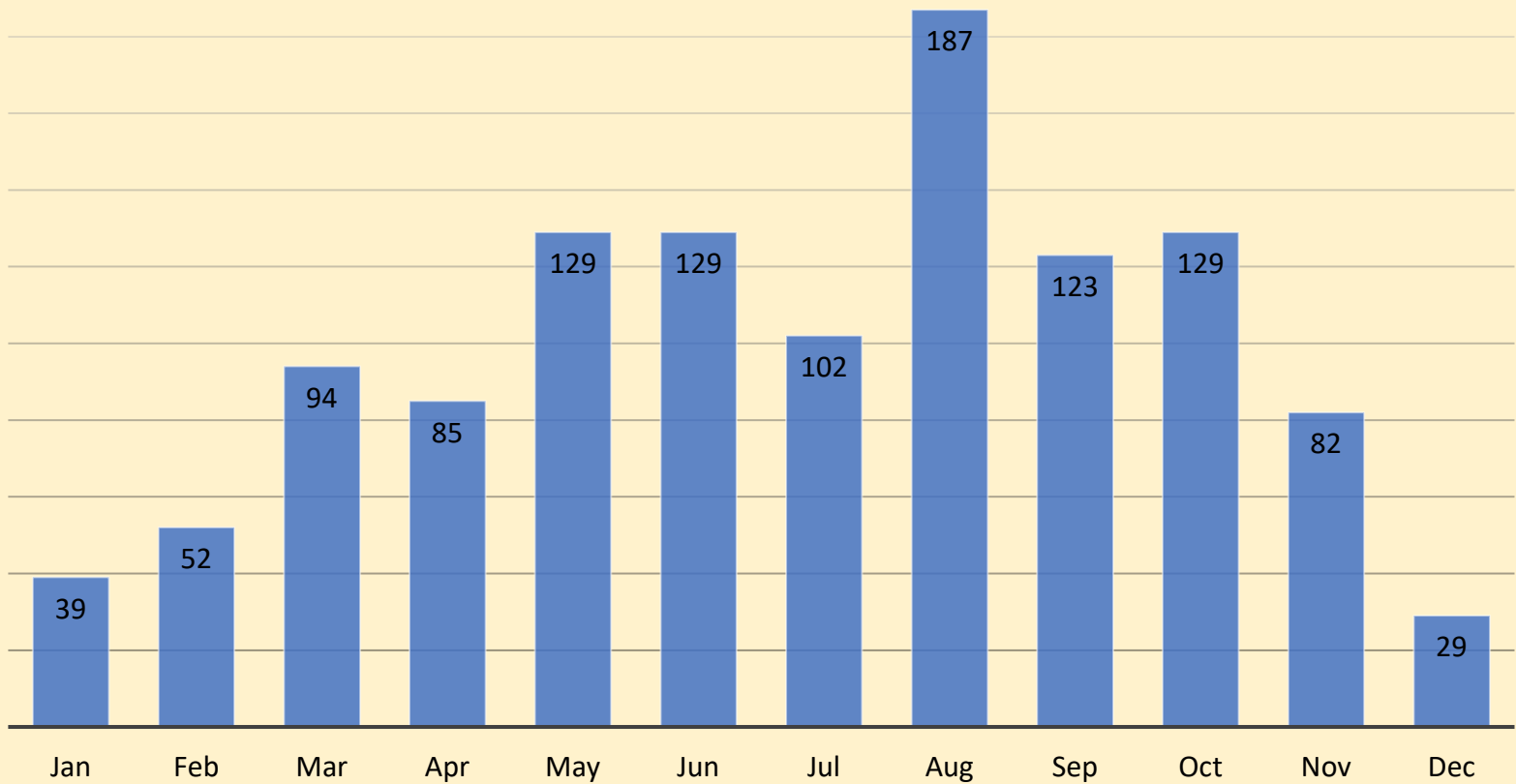
### Client Reporting

Curt Colburn gave advice for 85 samples.  
Martha Froelich gave advice for 353 samples.  
Timothy Drake gave advice for 11 samples.  
Jason Joines gave advice for 17 samples.  
Josh Weaver gave advice for 3 samples.  
Dixie Damrel gave advice for 32 samples.  
Predeesh Chandran gave advice for 134 samples.  
DianaLow gave advice for 54 samples.  
Eric Benson gave advice for 11 samples.  
Meg Williamson gave advice for 502 samples.

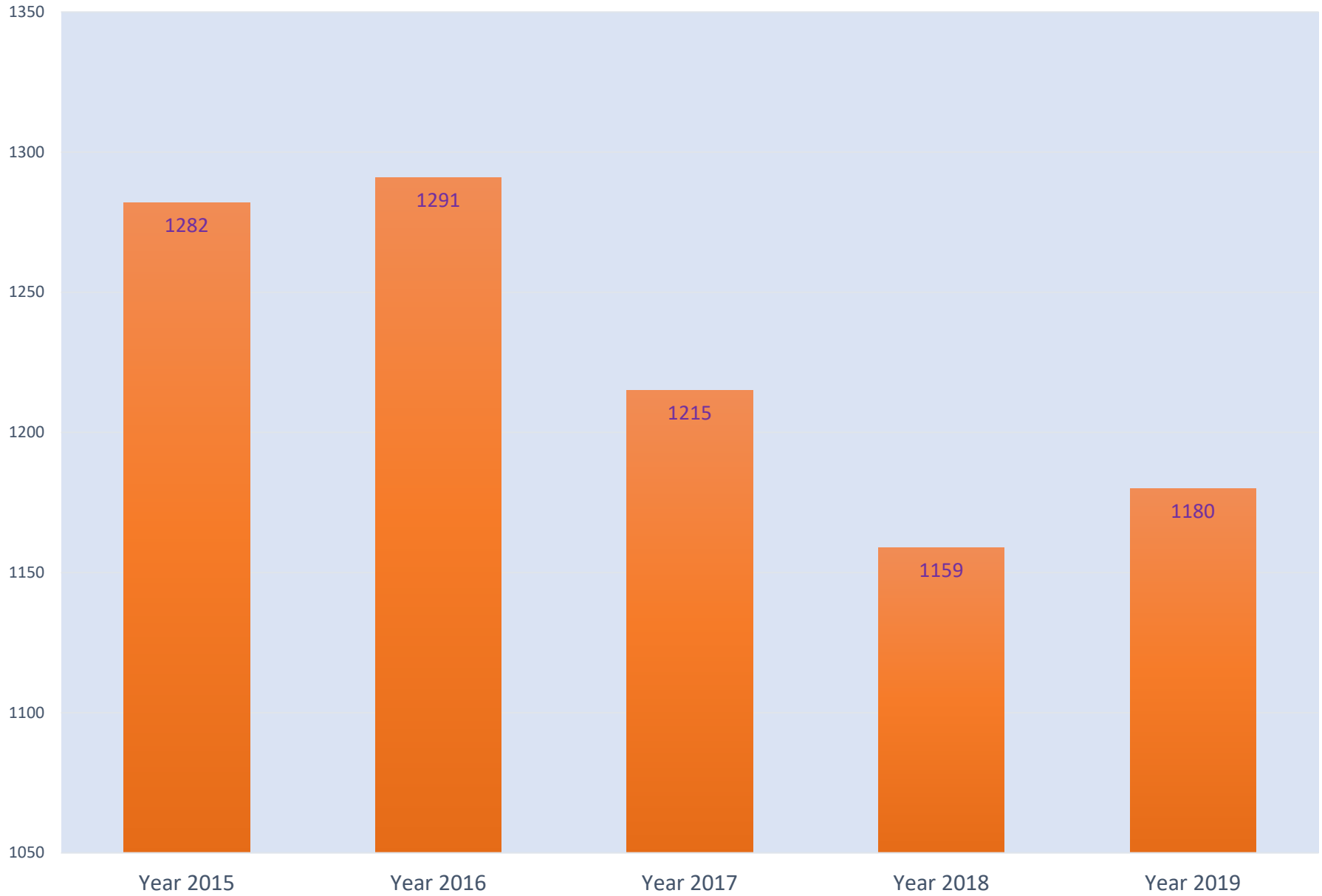
### Advisory Consultants

Bert McCarty gave advice for 1 sample.  
Bob Polomski gave advice for 12 samples.  
Brett Blaauw gave advice for 2 samples.  
Bruce Martin gave advice for 2 samples.  
Carla Coots/USDA gave advice for 1 sample.  
Cory Heaton gave advice for 26 samples.  
David Dewitt gave advice for 2 samples.  
Derrick Phinney gave advice for 1 sample.  
Dixie Damrel gave advice for 1 sample.  
Eric Benson gave advice for 29 samples.  
Geoff Zehnder gave advice for 1 sample.  
J.C. Chong gave advice for 19 samples.  
Jason Paul Joines gave advice for 1 sample.  
Jeremy Greene gave advice for 2 samples.  
Joey Williamson gave advice for 33 samples.  
John Hains gave advice for 3 samples.  
John Mueller gave advice for 1 sample.  
Justin Ballew gave advice for 8 samples.  
Libby Cieniewicz gave advice for 1 sample.  
Matt Cutulle gave advice for 1 sample.  
Mike Marshall gave advice for 9 samples.  
Pat Zungoli gave advice for 1 sample.  
Steve Jeffers gave advice for 1 sample.  
Ted Whitwell gave advice for 4 samples.  
Tony Keinath gave advice for 5 samples.

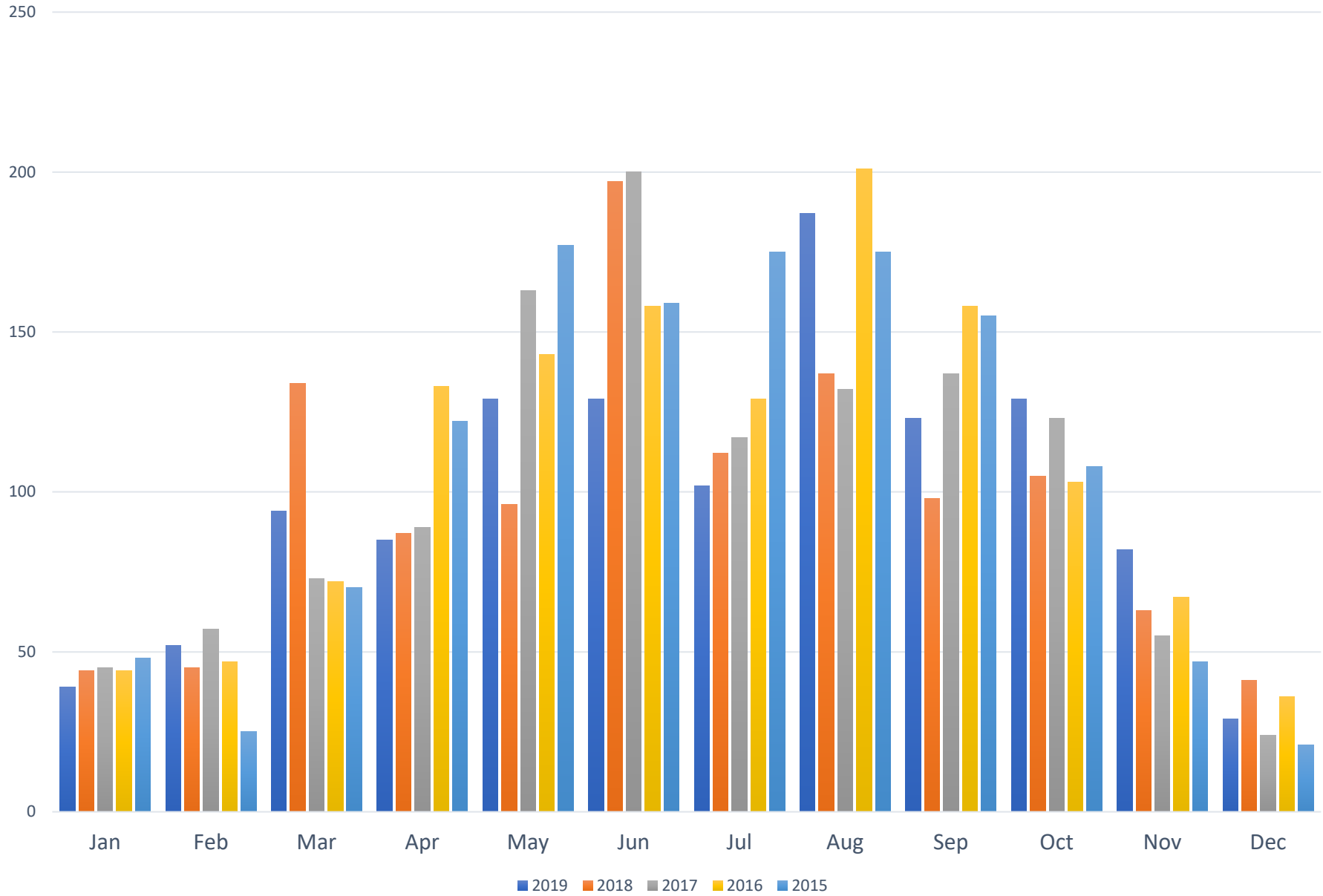
**Number of Samples per Month in 2019**  
**Total for Year = 1180**



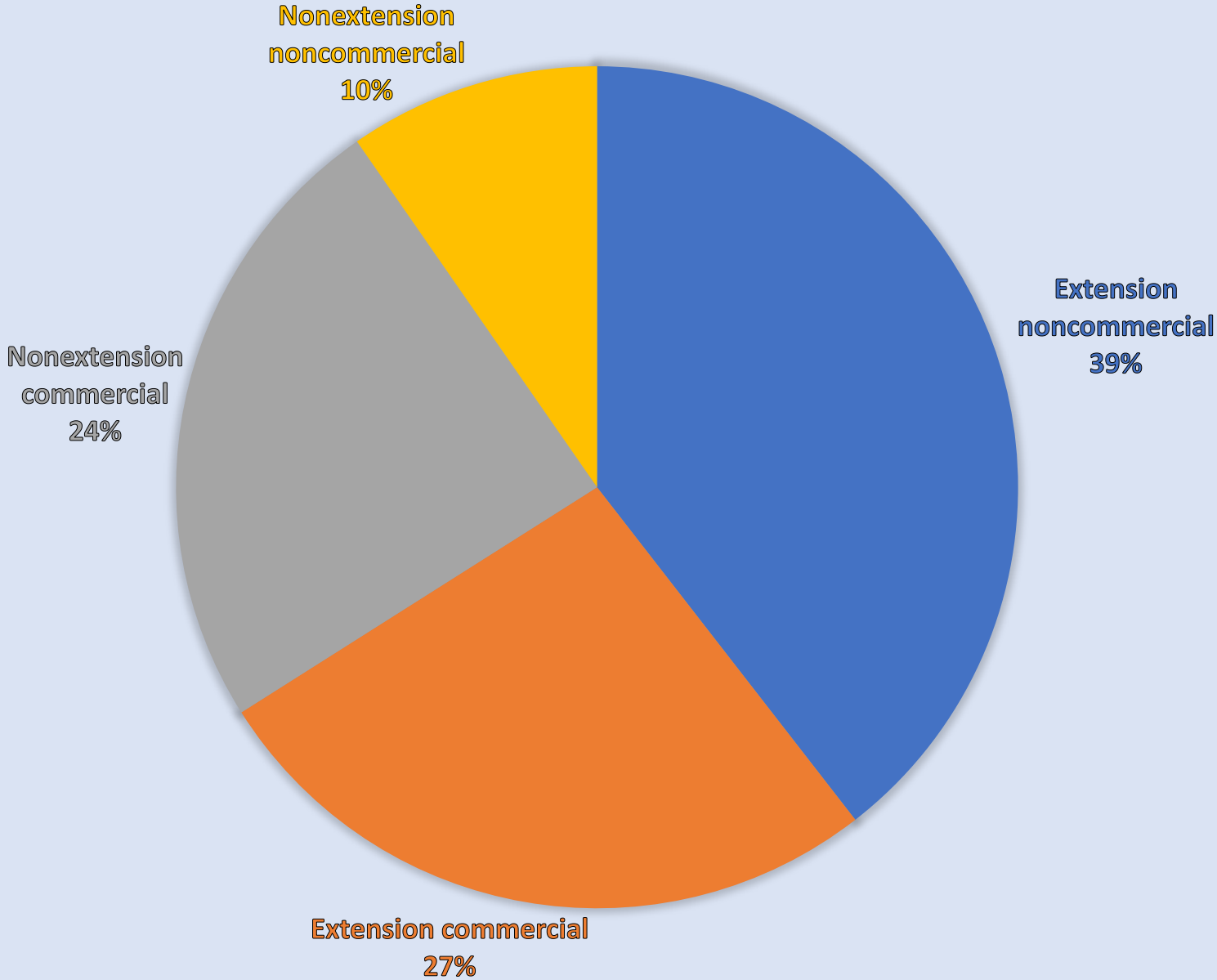
## Number of Samples per Year over Past 5 Years



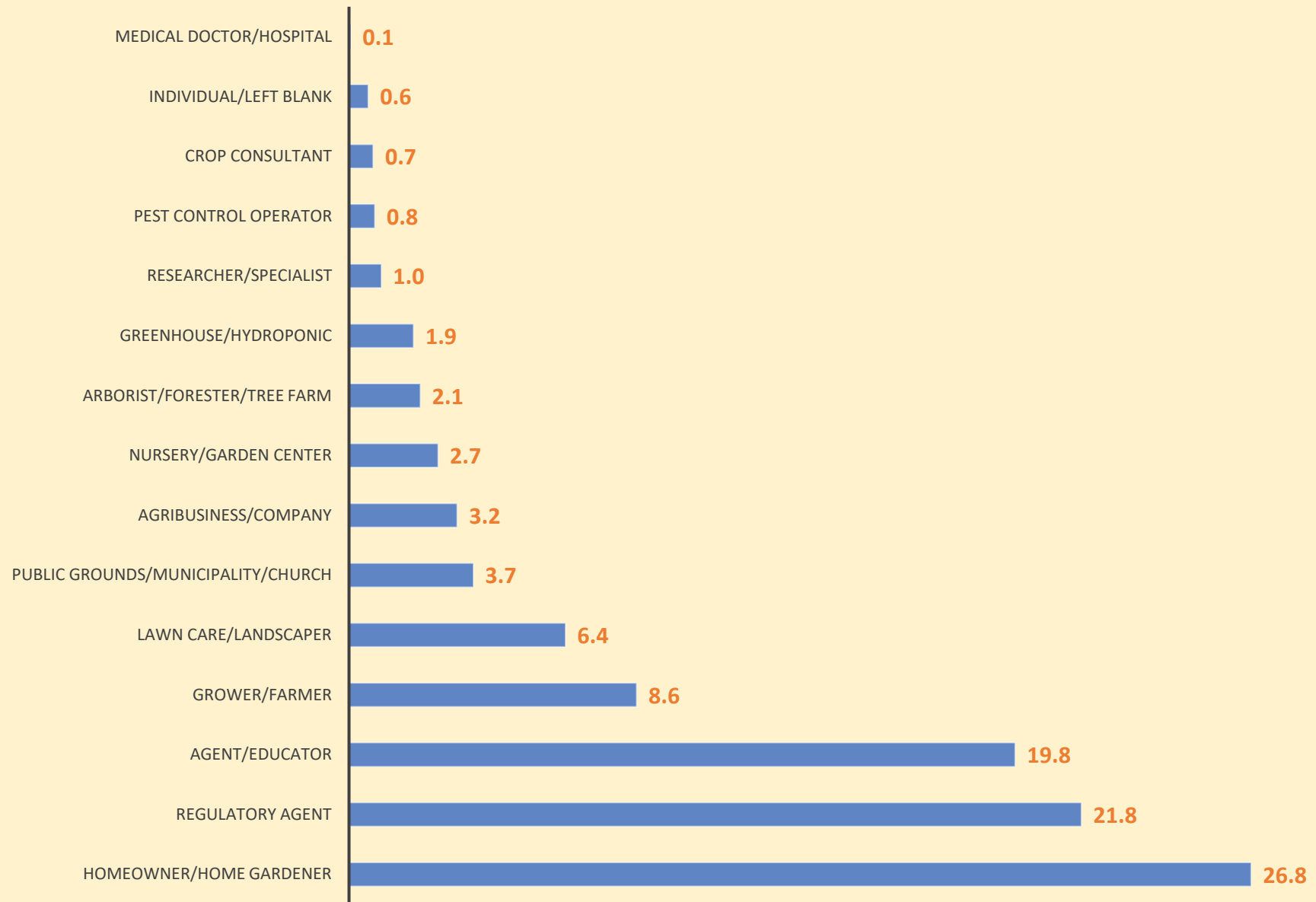
## Number of Samples per Month Over the Past 5 Years



**SOURCE OF SAMPLES IN 2019 BY PERCENT**

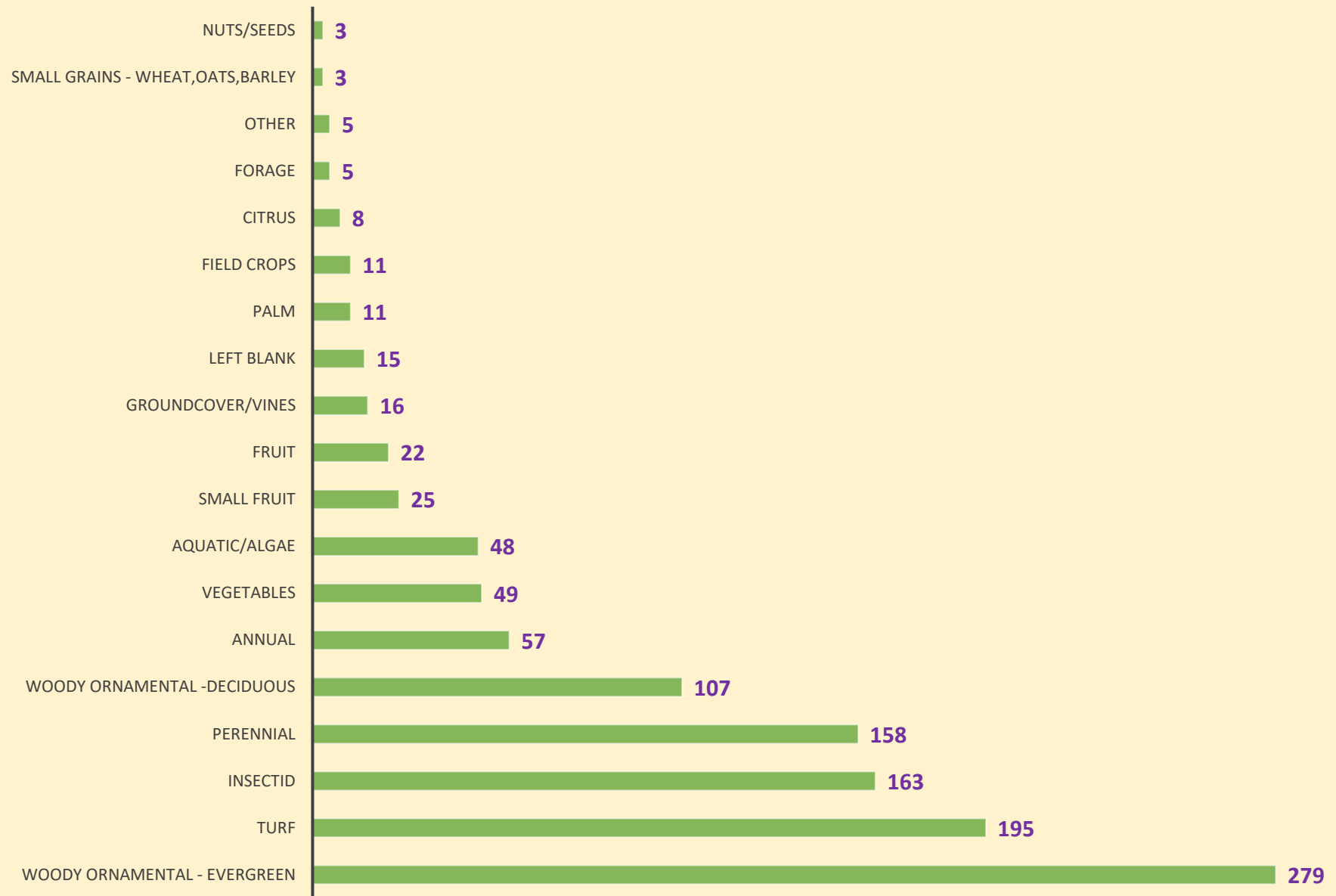


## Client Types Submitting Samples in 2019 by Percent





## Crop Categories in 2019 by Number of Samples Received



2019 NUMBERS FOR IN-STATE AND OUT-OF-STATE SAMPLES

State	Number of Samples	South Carolina Samples by County	Number of Samples	South Carolina Samples by County	Number of Samples
Alabama	4	Abbeville	4	Hampton	16
California	8	Aiken	53	Horry	23
Florida	19	Allendale	4	Jasper	8
Georgia	6	Anderson	60	Kershaw	14
Illinois	4	Bamberg	3	Lancaster	6
Indiana	2	Barnwell	4	Laurens	12
Kentucky	1	Beaufort	115	Lee	6
Michigan	1	Berkeley	16	Lexington	83
Missouri	11	Calhoun	3	Marion	6
North Carolina	10	Charleston	79	Marlboro	2
New Jersey	3	Cherokee	4	Mccormick	1
Ohio	3	Chester	6	Newberry	9
Pennsylvania	9	Chesterfield	7	Oconee	43
Tennessee	2	Clarendon	5	Orangeburg	7
Texas	4	Colleton	26	Pickens	44
Virginia	11	Darlington	6	Richland	83
		Dillon	12	Saluda	3
OUT OF STATE		Dorchester	12	Spartanburg	69
TOTAL	98	Edgefield	31	Sumter	23
		Fairfield	1	Union	2
		Florence	11	Williamsburg	4
		Georgetown	18	York	8
		Greenville	96	STATE TOTAL	1082
		Greenwood	34		

GRAND TOTAL 1180

## Diagnoses and Identifications on Ornamentals and Trees

	Confirmed	Not Detected	Suspected	Undetermined
<b>African Violet (<i>Saintpaulia</i> sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Alternanthera; Joseph's coat (<i>Alternanthera ficoidea</i>) (Host,Diagnosis/ID) (1,2)</b>				
Leaf /stem/twig blight; Rot; Gray mold ( <i>Botrytis cinerea</i> )	1	0	0	0
Rhizoctonia root rot ( <i>Rhizoctonia solani</i> )	1	0	0	0
<b>Amaryllis (<i>Hippeastrum</i> sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Red blotch ( <i>Stagonospora</i> sp./spp.)	0	0	1	0
Southern stem; Crown; Root; Seedl blight ( <i>Sclerotium rolfsii</i> )	1	0	0	0
<b>Anemone (<i>Anemone</i> sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Botrytis blight ( <i>Botrytis</i> sp./spp.)	1	0	0	0
Crown and root rot ( <i>Phoma apiicola</i> )	1	0	0	0
<b>Anise Tree (<i>Illicium</i> sp./spp.) (Host,Diagnosis/ID) (3,3)</b>				
Drought stress damage (Abiotic disorder)	0	0	1	0
Environmental stress; Problem (Abiotic disorder)	0	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Anisetree, Florida (<i>Illicium floridanum</i>) (Host,Diagnosis/ID) (1,2)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
<b>Arborvitae (<i>Thuja</i> sp./spp.) (Host,Diagnosis/ID) (10,13)</b>				
Cercospora needle blight ( <i>Cercospora</i> sp./spp.)	2	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	6	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Arborvitae (Thuja sp./spp.) (Host,Diagnosis/ID)</b>				
<i>(10,13) Continued</i>				
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	1	0	0	0
False spider mites (Family Tenuipalpidae)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
Needle dieback (Phyllosticta sp./spp.)	1	0	0	0
Spider mites (Family Tetranychidae)	0	0	0	1
<b>Arborvitae, Green Giant (Thuja standishii x plicata)</b>				
<i>(Host,Diagnosis/ID) (6,10)</i>				
Cultural/environmental problem (Abiotic disorder)	2	0	1	0
Macrophoma blight; Dieback (Macrophoma sp./spp.)	2	0	0	0
Mite damage (Unidentified Mite)	0	0	0	1
Pestalotiopsis needle blight; Tip blight (Pestalotiopsis sp./spp.)	2	0	0	0
Spider mites (Family Tetranychidae)	1	0	0	0
<b>Ash (Fraxinus sp./spp.) (Host,Diagnosis/ID) (5,5)</b>				
Emerald ash borer (Agrilus planipennis)	5	0	0	0
<b>Aster (Symphyotrichum sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	2	0
<b>Aucuba (Aucuba sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Marginal leaf burn (Abiotic disorder)	0	0	0	0
<b>Azalea; Rhododendron (Rhododendron sp./spp.)</b>				
<i>(Host,Diagnosis/ID) (28,38)</i>				
Armillaria root rot (Armillaria sp./spp.)	1	0	0	0
Azalea lace bug (Stephanitis pyrioides)	3	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	3	0
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	2	0	0	0
Hydrophobic soil/planting mix/media (Abiotic disorder)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Azalea; Rhododendron (Rhododendron sp./spp.)</b>				
<i>(Host,Diagnosis/ID) (28,38) Continued</i>				
Insufficient sample (Identification Analysis)	0	0	0	1
Lace bugs (Family Tingidae)	1	0	0	0
Leaf spot (Pestalotiopsis sp./spp.)	1	0	0	0
Leaf spot (Pseudocercospora sp./spp.)	1	0	1	0
Lichens (Lichenes)	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
Oedema; Edema (Abiotic disorder)	1	0	0	0
Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)	5	0	0	0
Phytophthora blight (Phytophthora cinnamomi)	1	0	0	0
Ramorum blight (Phytophthora ramorum)	0	7	0	0
Root rot (Phytophthora sp./spp.)	1	0	0	0
Spider mites (Family Tetranychidae)	1	0	0	0
<b>Azalea, Japanese (Rhododendron japonicum)</b>				
<i>(Host,Diagnosis/ID) (1,1)</i>				
Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)	1	0	0	0
<b>Beech (Fagus sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Butterflies; Moths; Caterpillars (Order Lepidoptera)	0	0	1	0
<b>Begonia (Begonia sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Herbicide injury (Abiotic disorder)	0	0	0	0
<b>Black Gum (Nyssa sylvatica) (Host,Diagnosis/ID) (1,3)</b>				
Brown felt (Septobasidium sp./spp.)	0	0	1	0
False oleander scale (Pseudaulacaspis cockerelli)	1	0	0	0
Unidentified caterpillar (Unidentified Caterpillar)	0	0	0	1
<b>Black Walnut (Juglans nigra) (Host,Diagnosis/ID) (2,2)</b>				
Walnut lace bug (Corythucha juglandis)	1	0	0	0
Walnut twig beetle (Pityophthorus juglandis)	1	0	0	0
<b>Bottlebrush (Callistemon sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				

	Confirmed	Not Detected	Suspected	Undetermined
<b>Boxwood (Buxus sp./spp.) (Host,Diagnosis/ID) (32,42)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Anthracnose stem blight (Colletotrichum sp./spp.)	2	0	0	0
Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)	1	0	0	0
Anthracnose; Twig dieback (Colletotrichum sp./spp.)	1	0	0	0
Armored scales (Family Diaspididae)	1	0	0	0
Boxwood blight; Leaf and stem blight (Cylindrocladium pseudonaviculatum)	0	3	0	0
Boxwood leafminer (Monarthropalpus flavus (buxi))	1	0	0	0
Boxwood Macrophoma leaf spot (Dothiorella candollei)	1	0	0	0
Boxwood Macrophoma leaf spot (Macrophoma candollei)	7	0	0	0
Boxwood mite (Eurytetranychus buxi)	0	0	2	0
Boxwood Volutella blight; Canker (Pseudonectria buxi)	1	0	0	0
Boxwood Volutella blight; Canker (Volutella buxi)	3	2	0	0
Crown and root rot (Phytophthora sp./spp.)	1	0	0	0
Crown and stem rot (Fusarium sp./spp.)	1	0	0	0
Crown rot; Root rot; Stem rot (Phytophthora sp./spp.)	0	1	0	0
Freeze; Frost; Cold damage (Abiotic disorder)	1	0	0	0
Fusarium crown and stalk rot (Fusarium sp./spp.)	1	0	0	0
Herbicide injury; Exposure (Abiotic disorder)	0	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
No pathogen found (Identification Analysis)	0	1	0	0
Non-pathogenic; Saprophyte (Secondary Agents; Saprophytes; Unspecif.)	0	0	1	0
Nutrient imbalance (Abiotic disorder)	0	0	2	0
<b>Boxwood (Buxus sp./spp.) (Host,Diagnosis/ID) (32,42)</b>				
Phytophthora crown and/or root rot (Phytophthora nicotianae)	3	0	0	0
Phytophthora root and crown rot (Phytophthora cinnamomi)	2	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Boxwood (Buxus sp./spp.) (Host,Diagnosis/ID) (32,42)</b>				
<b>Continued</b>				
Pythium root and/or crown rot (Pythium sp./spp.)	1	0	0	0
<b>Boxwood, Common (Buxus sempervirens) (Host,Diagnosis/ID) (10,15)</b>				
Anthracnose stem blight (Colletotrichum sp./spp.)	1	0	0	0
Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)	0	1	0	0
Boxwood blight; Leaf and stem blight (Cylindrocladium pseudonaviculatum)	0	1	0	0
Boxwood Macrophoma leaf spot (Dothiorella candollei)	1	0	0	0
Boxwood Macrophoma leaf spot (Macrophoma candollei)	2	0	0	0
Boxwood Volutella blight; Canker (Pseudonectria buxi)	1	0	0	0
Crown and root rot (Phytophthora sp./spp.)	2	0	0	0
Macrophoma blight; Dieback (Macrophoma sp./spp.)	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
Nutrient imbalance (Abiotic disorder)	0	0	1	0
Phytophthora crown and/or root rot (Phytophthora nicotianae)	2	0	0	0
Phytophthora root and crown rot (Phytophthora cinnamomi)	1	0	0	0
<b>Boxwood, Edging (Buxus sempervirens suffruticosa) (Host,Diagnosis/ID) (4,4)</b>				
Boxwood blight; Leaf and stem blight (Cylindrocladium pseudonaviculatum)	3	0	0	0
Crown and stem rot (Fusarium sp./spp.)	1	0	0	0
<b>Boxwood, Japanese (Buxus microphylla var. japonica) (Host,Diagnosis/ID) (2,3)</b>				
Anthracnose (Colletotrichum sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Boxwood, Japanese (Buxus microphylla var. japonica)</b>				
<i>(Host,Diagnosis/ID) (2,3) Continued</i>				
Boxwood blight; Leaf and stem blight (Cylindrocladium pseudonaviculatum)	0	1	0	0
Dieback (Colletotrichum theobromicola)	1	0	0	0
<b>Boxwood, Korean (Buxus sinica) (Host,Diagnosis/ID) (1,1)</b>				
Stem canker (Colletotrichum sp./spp.)	1	0	0	0
<b>Boxwood, Littleleaf (Buxus microphylla) (Host,Diagnosis/ID) (11,17)</b>				
Anthracnose (Colletotrichum acutatum)	1	0	0	0
Anthracnose stem blight (Colletotrichum sp./spp.)	2	0	0	0
Boxwood blight; Leaf and stem blight (Cylindrocladium pseudonaviculatum)	0	1	0	0
Boxwood Macrophoma leaf spot (Dothiorella candollei)	2	0	0	0
Boxwood Macrophoma leaf spot (Macrophoma candollei)	2	0	0	0
Boxwood mite (Eurytetranychus buxi)	2	1	0	0
Boxwood Volutella blight; Canker (Volutella buxi)	1	0	0	0
Crown rot; Root rot; Stem rot (Phytophthora sp./spp.)	1	0	0	0
Freeze; Frost; Cold damage (Abiotic disorder)	0	0	0	0
Herbicide injury (Abiotic disorder)	0	0	1	0
Macrophoma canker (Macrophoma sp./spp.)	1	0	0	0
Stem canker (Colletotrichum sp./spp.)	1	0	0	0
<b>Burning Bush (Euonymus atropurpurea) (Host,Diagnosis/ID) (1,1)</b>				
Oedema; Edema (Abiotic disorder)	0	0	0	0
<b>Butterfly Bush (Buddleia sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1



	Confirmed	Not Detected	Suspected	Undetermined
<b>Cabbage Tree (<i>Cordyline australis</i>) (Host,Diagnosis/ID) (1,1)</b>				
Fusarium crown rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
<b>Callery Pear (<i>Pyrus calleryana</i>) (Host,Diagnosis/ID) (1,3)</b>				
Anthrachnose; Colletotrichum leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Mealybugs (Family Pseudococcidae)	0	0	0	1
Twospotted spider mite ( <i>Tetranychus urticae</i> )	1	0	0	0
<b>Camellia (<i>Camellia</i> sp./spp.) (Host,Diagnosis/ID) (2,5)</b>				
Crown and stem rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Mechanical damage (Abiotic disorder)	0	0	0	0
Oedema; Edema (Abiotic disorder)	0	0	0	0
Unidentified virus (Unidentified Virus)	0	0	1	0
<b>Camellia, Common (<i>Camellia japonica</i>) (Host,Diagnosis/ID) (6,8)</b>				
Algal leaf spot ( <i>Cephaleuros virescens</i> )	0	0	1	0
Colletotrichum dieback ( <i>Glomerella cingulata</i> )	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
Phytophthora root and crown rot ( <i>Phytophthora cinnamomi</i> )	2	0	0	0
Tea scale ( <i>Fiorinia theae</i> )	1	0	0	0
Unidentified virus (Unidentified Virus)	0	0	1	0
<b>Camellia, Sasanqua (<i>Camellia sasanqua</i>) (Host,Diagnosis/ID) (2,3)</b>				
Anthrachnose; Colletotrichum leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Oedema; Edema (Abiotic disorder)	1	0	0	0
Sunscald (Abiotic disorder)	0	0	0	0
Tea scale ( <i>Fiorinia theae</i> )	1	0	0	0
<b>Canna Lily (<i>Canna x generalis</i>) (Host,Diagnosis/ID) (1,1)</b>				
Environmental stress; Problem (Abiotic disorder)	0	0	1	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Cardinalflower (<i>Lobelia cardinalis</i>) (Host,Diagnosis/ID) (1,1)</b>				
Tomato spotted wilt (Tomato Spotted Wilt Virus (TSWV))	1	0	0	0
<b>Cedar, Blue Atlas (<i>Cedrus atlantica glauca</i>) (Host,Diagnosis/ID) (1,2)</b>				
Brown spot; Needle blight ( <i>Lecanosticta acicola</i> )	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Cedar, Deodar (<i>Cedrus deodara</i>) (Host,Diagnosis/ID) (2,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Eriophyid mites (Family Eriophyidae)	1	0	0	0
Phytophthora root and crown rot ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
<b>Cedar-of-lebanon (<i>Cedrus libani</i>) (Host,Diagnosis/ID) (2,2)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
No pathogen found (Identification Analysis)	0	1	0	0
<b>Chamaecyparis, Atlantic Whitecedar (<i>Chamaecyparis thyoides</i>) (Host,Diagnosis/ID) (1,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Macrophoma blight; Dieback ( <i>Macrophoma</i> sp./spp.)	1	0	0	0
Unspecified pathology ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
<b>Chamaecyparis, Hinoki Falsecypress (<i>Chamaecyparis obtusa</i>) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Chastetree (<i>Vitex</i> sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Cherry laurel (<i>Prunus laurocerasus</i>) (Host,Diagnosis/ID) (4,4)</b>				
Anthraxnose; Colletotrichum leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Cherry laurel (<i>Prunus laurocerasus</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (4,4) Continued				
Insufficient sample (Identification Analysis)	0	0	0	1
No pathogen found (Identification Analysis)	0	1	0	0
Phomopsis dieback; Tip blight; Canker ( <i>Phomopsis</i> sp./spp.)	1	0	0	0
<b>Cherry Plum (<i>Prunus cerasifera</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Cherry, Higan (<i>Prunus subhirtella</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Gummosis ( <i>Botryosphaeria dothidea</i> )	0	0	1	0
Wood boring insect damage (Unidentified Wood Boring Insect)	0	0	1	0
<b>Cherry, Yoshino (<i>Prunus yedoensis</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
<b>Chinese Fringe-flower (<i>Loropetalum</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
<b>Chinese Fringetree (<i>Chionanthus retusus</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Herbicide injury (Abiotic disorder)	0	0	1	0
<b>Chrysanthemum (<i>Chrysanthemum</i> sp./spp. hybrids)</b> ( <i>Host,Diagnosis/ID</i> ) (5,7)				
Crown and stem rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
<i>Fusarium</i> root rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
<i>Fusarium</i> root; Crown rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Phoma blight; Dieback; Rot ( <i>Phoma</i> sp./spp.)	1	0	0	0
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	2	0	0	0
Southern stem rot ( <i>Sclerotium rolfsii</i> )	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Chrysanthemum, Florist (Chrysanthemum morifolium)</b> <i>(Host,Diagnosis/ID) (3,3)</i>				
Fusarium wilt; Fusarium wilt complex (Fusarium sp./spp.)	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
Stem rot (Unidentified Agent)	0	0	0	1
<b>Clematis (Clematis sp./spp.)</b> <i>(Host,Diagnosis/ID) (2,3)</i>				
No pathogen found (Identification Analysis)	0	0	0	0
Pythium root and/or crown rot (Pythium sp./spp.)	1	0	0	0
Stem rot (Botrytis sp./spp.)	1	0	0	0
<b>Columbine (Aquilegia sp./spp.)</b> <i>(Host,Diagnosis/ID) (1,2)</i>				
Aphids; Plant lice (Family Aphididae)	1	0	0	0
Twospotted spider mite (Tetranychus urticae)	1	0	0	0
<b>Coneflower (Echinacea sp./spp.)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Cucumber mosaic (Cucumber Mosaic Virus (CMV))	0	0	1	0
<b>Coneflower, Orange (Rudbeckia fulgida)</b> <i>(Host,Diagnosis/ID) (2,3)</i>				
Crown rot (Botrytis sp./spp.)	1	0	0	0
Fusarium crown rot (Fusarium sp./spp.)	1	0	0	0
Root rot (Unidentified Agent)	0	0	0	1
<b>Coreopsis/Tickseed (Coreopsis sp./spp.)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Anthracnose (Colletotrichum sp./spp.)	1	0	0	0
<b>Corydalis (Corydalis sp./spp.)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Cosmos Flower (Cosmos bipinnatus)</b> <i>(Host,Diagnosis/ID) (2,2)</i>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Crabapple, 'Profusion' (Malus x profusion)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Insufficient sample (Identification Analysis)	0	0	0	1

	Confirmed	Not Detected	Suspected	Undetermined
<b>Crape Myrtle (<i>Lagerstroemia indica</i>) (Host,Diagnosis/ID) (6,7)</b>				
Cercospora leaf spot ( <i>Cercospora</i> sp./spp.)	0	0	1	0
Crapemyrtle aphid ( <i>Sarucallis</i> ( <i>Tinocallis</i> ) <i>kahawaluokalani</i> )	1	0	0	0
Crapemyrtle bark scale ( <i>Acanthococcus lagerstroemiae</i> )	3	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Sooty mold (Unidentified Fungus)	0	0	0	1
<b>Cryptomeria (<i>Cryptomeria</i> sp./spp.) (Host,Diagnosis/ID) (3,4)</b>				
Anthracnose needle blight ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Macrophoma blight; Dieback ( <i>Macrophoma</i> sp./spp.)	1	0	0	0
Unspecified pathology ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
<b>Cryptomeria; Japanese cedar (<i>Cryptomeria japonica</i>) (Host,Diagnosis/ID) (2,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Macrophoma blight; Dieback ( <i>Macrophoma</i> sp./spp.)	1	0	0	0
Maskell scale ( <i>Lepidosaphes pallida</i> )	1	0	0	0
<b>Cypress, Carolina Sapphire(<i>Cupressus arizonica glabra</i>) (Host,Diagnosis/ID) (2,2)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
Macrophoma blight; Dieback ( <i>Macrophoma</i> sp./spp.)	1	0	0	0
<b>Cypress (<i>Cupressus</i> sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Dieback; Canker ( <i>Seiridium</i> sp./spp.)	0	0	1	0
Macrophoma canker ( <i>Macrophoma</i> sp./spp.)	1	0	0	0
<b>Cypress, Italian (<i>Cupressus sempervirens</i>) (Host,Diagnosis/ID) (2,2)</b>				
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Spider mites (Family Tetranychidae)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Cypress, Leyland (x cupressocyparis leylandii)</b>				
<i>(Host,Diagnosis/ID) (16,18) Continued</i>				
Conifer needle blight ( <i>Passalora sequoiae</i> )	5	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	3	0
Dieback; Canker ( <i>Seiridium</i> sp./spp.)	3	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
Juniper scale ( <i>Carulaspis juniperi</i> )	1	0	0	0
Phytophthora dieback ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
Seiridium canker ( <i>Seiridium unicorne</i> )	4	0	0	0
Sphaeropsis dieback ( <i>Sphaeropsis</i> sp./spp.)	1	0	0	0
<b>Dahlia (Dahlia sp./spp.) (Host,Diagnosis/ID) (1,3)</b>				
Anthracoze ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Powdery mildew ( <i>Oidium</i> sp./spp.)	1	0	0	0
Twospotted spider mite ( <i>Tetranychus urticae</i> )	1	0	0	0
<b>Daisy, Nippon (Nipponanthemum nipponicum)</b>				
<i>(Host,Diagnosis/ID) (3,3)</i>				
Cultural/environmental problem (Abiotic disorder)	0	0	2	0
Fusarium crown rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
<b>Daisy, Shasta (Leucanthemum x superbum) (Host,Diagnosis/ID)</b>				
<i>(1,2)</i>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
No pathogen found (Identification Analysis)	0	1	0	0
<b>Daphne (Daphne sp./spp.) (Host,Diagnosis/ID) (1,2)</b>				
Leaf spot (Unknown cause)	0	0	0	1
Root rot ( <i>Phytophthora</i> sp./spp.)	1	0	0	0
<b>Daphne, Winter (Daphne odora) (Host,Diagnosis/ID) (1,1)</b>				
Nutrient imbalance (Abiotic disorder)	0	0	1	0
<b>Daphniphyllum (Daphniphyllum sp./spp.) (Host,Diagnosis/ID)</b>				
<i>(1,1)</i>				
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Dogwood (Cornus sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Dogwood, Flowering (Cornus florida) (Host,Diagnosis/ID) (3,5)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Septoria leaf spot (Septoria sp./spp.)	2	0	0	0
Spot anthracnose (Elsinoe corni)	1	0	1	0
<b>Dogwood, Pink Flowering (Cornus florida rubra)</b>				
<i>(Host,Diagnosis/ID) (1,1)</i>				
Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)	1	0	0	0
<b>Dogwood, Yellow-twig (Cornus sericea flaviramea)</b>				
<i>(Host,Diagnosis/ID) (1,1)</i>				
Wood boring insect damage (Unidentified Wood Boring Insect)	0	0	0	1
<b>Dracaena; Palm Lily (Cordyline sp./spp.) (Host,Diagnosis/ID)</b>				
<i>(1,1)</i>				
Phytophthora crown and/or root rot (Phytophthora nicotianae)	1	0	0	0
<b>Dracaena, Dragontree (Dracaena marginata) (Host,Diagnosis/ID)</b>				
<i>(1,1)</i>				
Bacterial soft rot (Unidentified Bacterium)	0	0	0	1
<b>Dracaena, Spike (Dracaena indivisa) (Host,Diagnosis/ID) (2,2)</b>				
Oedema; Edema (Abiotic disorder)	0	0	2	0
<b>Elephant Ear plant (Alocasia sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Dasheen mosaic (DSMV) (Potyvirus Dasheen Mosaic Virus)	0	1	0	0
<b>Elm, Chinese (Ulmus parvifolia) (Host,Diagnosis/ID) (2,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Elm, Chinese (<i>Ulmus parvifolia</i>) (Host,Diagnosis/ID) (2,3)</b>				
<b>Continued</b>				
Dieback; Canker ( <i>Diplodia</i> sp./spp.)	1	0	0	0
Elms yellows; Elm phloem necrosis ( <i>Candidatus Phytoplasma ulmi</i> )	0	1	0	0
<b>Euonymus (<i>Euonymus</i> sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Root rot ( <i>Phytophthora</i> sp./spp.)	0	1	0	0
<b>False Dragonhead (<i>Physostegia virginiana</i>) (Host,Diagnosis/ID) (1,1)</b>				
Unidentified virus (Unidentified Virus)	0	0	1	0
<b>False Sea Thrift (<i>Armeria pseudoarmeria</i>) (Host,Diagnosis/ID) (1,1)</b>				
Anthraxnose; <i>Colletotrichum</i> leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
<b>FERNS</b>				
<b>Autumn Fern (<i>Dryopteris erythrosora</i>) (Host,Diagnosis/ID) (1,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Hydrophobic soil/planting mix/media (Abiotic disorder)	1	0	0	0
Lace bugs (Family Tingidae)	1	0	0	0
<b>Fern, Holly (<i>Cyrtomium falcatum</i>) (Host,Diagnosis/ID) (1,1)</b>				
Chemical injury (Abiotic disorder)	0	0	0	0
<b>Fig, Common (<i>Ficus carica</i>) (Host,Diagnosis/ID) (3,6)</b>				
Anthraxnose; <i>Colletotrichum</i> leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
<b>Fig, Common (<i>Ficus carica</i>) (Host,Diagnosis/ID) (3,6) Cont'd</b>				
Armillaria root rot ( <i>Armillaria</i> sp./spp.)	0	0	1	0
Fig rust ( <i>Cerotelium fici</i> )	0	0	2	0
Leaf spot ( <i>Pseudocercospora</i> sp./spp.)	1	0	0	0
<i>Phytophthora</i> root and crown rot ( <i>Phytophthora cinnamomi</i> )	1	0	0	0



	Confirmed	Not Detected	Suspected	Undetermined
<b>Fig, Creeping; climbing fig (<i>Ficus pumila</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Cercospora leaf spot ( <i>Cercospora</i> sp./spp.)	1	0	0	0
<b>Fig (ornamental) (<i>Ficus</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Anthracnose ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
<b>Forsythia; Golden bells (<i>Forsythia</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Anthracnose ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
<b>Fir, Fraser (<i>Abies fraseri</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Mite damage (Unidentified Mite)	1	0	0	0
Rhizosphaera needle cast ( <i>Rhizosphaera</i> sp./spp.)	1	0	0	0
<b>Fringe Tree (<i>Chionanthus</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Alternaria leaf spot ( <i>Alternaria</i> sp./spp.)	1	0	0	0
<b>Gardenia (<i>Gardenia</i> sp./spp. hybrids)</b> ( <i>Host,Diagnosis/ID</i> ) (3,3)				
Insufficient sample (Identification Analysis)	0	0	0	1
Root-knot nematodes ( <i>Meloidogyne</i> sp./spp.)	0	0	1	0
<b>Gardenia, Common; cape jasmine (<i>Gardenia jasminoides</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Phytophthora crown and/or root rot ( <i>Phytophthora nicotianae</i> )	1	0	0	0
<b>Ginger, ornamental (<i>Curcuma</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Anthracnose; Colletotrichum leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
<b>Giant Hyssop (<i>Agastache</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
No pathogen found (Identification Analysis)	0	1	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Grace Ward lithodora (<i>Lithospermum diffusa</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Black leg ( <i>Phoma</i> sp./spp.)	1	0	0	0
<b>GRASSES, ORNAMENTAL</b>				
<b>Fountain Grass (<i>Pennisetum alopecuroides</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Salt Marsh cord grass (<i>Spartina alterniflora</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Ash rust ( <i>Puccinia sparganioides</i> )	1	0	0	0
<b>Tropical Signalgrass (<i>Urochloa subquadripara</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Chinch bug complex ( <i>Blissus</i> sp./spp.)	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
<b>Wiregrass; Pineland threeawn (<i>Aristida stricta</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Bermudagrass scale ( <i>Odonaspis ruthae</i> )	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Hellebore, Lenten Rose (<i>Helleborus</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (2,5)				
Bacterial identification ( <i>Pseudomonas marginalis</i> )	1	0	0	0
Botrytis blight ( <i>Botrytis</i> sp./spp.)	1	0	0	0
Downy mildew ( <i>Peronospora</i> sp./spp.)	0	0	1	0
Leaf spot ( <i>Phyllosticta</i> sp./spp.)	1	0	0	0
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	1	0	0	0
<b>Hemlock, Eastern (<i>Tsuga canadensis</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,3)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Elongate hemlock scale ( <i>Fiorinia externa</i> )	1	0	0	0
Twospotted spider mite ( <i>Tetranychus urticae</i> )	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Hen and chicks; houseleeks (<i>Sempervivum</i> sp./spp.)</b> <i>(Host,Diagnosis/ID) (1,2)</i>				
Anthracnose basal rot; Crown rot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Fusarium crown rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
<b>Heuchera (<i>Heuchera</i> sp./spp.)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Hibiscus (<i>Hibiscus</i> sp./spp.)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Phytophthora stem rot ( <i>Phytophthora</i> sp./spp.)	1	0	0	0
<b>Hibiscus; Confederate Rose (<i>Hibiscus mutabilis</i>)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Whiteflies (Family Aleyrodidae)	1	0	0	0
<b>Rose Mallow (<i>Hibiscus moscheutos</i>)</b> <i>(Host,Diagnosis/ID) (1,2)</i>				
Fusarium crown rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Japanese beetle ( <i>Popillia japonica</i> )	0	0	1	0
<b>Holly (<i>Ilex</i> sp./spp.)</b> <i>(Host,Diagnosis/ID) (4,6)</i>				
Cultural/environmental problem (Abiotic disorder)	1	0	0	0
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
Oedema; Edema (Abiotic disorder)	0	0	0	0
Oystershell scale ( <i>Lepidosaphes ulmi</i> )	1	0	0	0
<b>Holly, American (<i>Ilex opaca</i>)</b> <i>(Host,Diagnosis/ID) (3,3)</i>				
Armillaria root rot ( <i>Armillaria</i> sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
Twolined spittlebug ( <i>Prosapia bicincta</i> )	0	0	1	0
<b>Holly, Burford (<i>Ilex cornuta burfordii</i>)</b> <i>(Host,Diagnosis/ID) (3,5)</i>				
Insufficient sample (Identification Analysis)	0	0	0	1
Leaf scorch (Abiotic disorder)	0	0	1	0
Leaf spot ( <i>Pseudocercospora</i> sp./spp.)	1	0	0	0
Phomopsis dieback; Tip blight; Canker ( <i>Phomopsis</i> sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Holly, Burford (<i>Ilex cornuta burfordii</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (3,5)				
<b>Continued</b>				
Tea scale ( <i>Fiorinia theae</i> )	1	0	0	0
<b>Holly, Chinese (<i>Ilex cornuta</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (3,5)				
Gall (Unidentified Agent)	0	0	0	1
No pathogen found (Identification Analysis)	0	1	0	0
Root girdling (Abiotic disorder)	1	0	0	0
Stem rot; Dieback; Canker ( <i>Botryodiplodia</i> sp./spp.)	1	0	0	0
<b>Holly, Hybrid (<i>Ilex hybrid</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Leaf spot ( <i>Pseudocercospora</i> sp./spp.)	1	0	0	0
<b>Inkberry (<i>Ilex glabra</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (2,2)				
Insufficient sample (Identification Analysis)	0	0	0	2
Phytophthora root and crown rot ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
Black root rot ( <i>Thielaviopsis basicola</i> )	5	0	0	0
Brown felt ( <i>Septobasidium</i> sp./spp.)	1	0	0	0
Crown and root rot ( <i>Phytophthora</i> sp./spp.)	0	2	0	0
Crown rot; Collar rot ( <i>Thielaviopsis basicola</i> )	1	0	0	0
Mite damage (Unidentified Mite)	1	0	0	0
Phyllosticta leaf spot ( <i>Phyllosticta</i> sp./spp.)	1	0	0	0
Phytophthora blight ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
Root rot ( <i>Thielaviopsis</i> sp./spp.)	1	0	0	0
<b>Holly, Nellie R. Stevens holly (<i>Ilex aquifolium</i> x <i>cornuta</i> 'Nellie R. Stevens')</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
<b>Holly, Yaupon (<i>Ilex vomitoria</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Honeysuckle, Trumpet (<i>Lonicera sempervirens</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Hosta (<i>Hosta</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Cultural/environmental problem (Abiotic disorder)	0	1	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Hydrangea (Hydrangea sp./spp.) (Host,Diagnosis/ID) (3,5)</b>				
Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)	1	0	0	0
Corynespora leaf spot (Corynespora sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Phoma leaf spot (Phoma sp./spp.)	0	0	1	0
Pythium root and/or crown rot (Pythium sp./spp.)	1	0	0	0
<b>Hydrangea, Bigleaf (Hydrangea macrophylla)</b>				
<i>(Host,Diagnosis/ID) (1,1)</i>				
Unidentified virus (Unidentified Virus)	0	0	1	0
<b>Hypericum; St. Andrew's Cross (Hypericum hypericoides)</b>				
<i>(Host,Diagnosis/ID) (1,1)</i>				
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	1	0	0	0
<b>Impatiens (Impatiens sp./spp.) (Host,Diagnosis/ID) (3,6)</b>				
Cercospora leaf spot (Cercospora sp./spp.)	1	0	0	0
Pythium root and/or crown rot (Pythium sp./spp.)	1	0	0	0
Rhizoctonia root rot (Rhizoctonia sp./spp.)	1	0	0	0
Root problems (Abiotic disorder)	1	0	0	0
Root-knot nematodes (Meloidogyne sp./spp.)	1	0	0	0
Stalk rot (Macrophomina sp./spp.)	1	0	0	0
<b>Indian Hawthorn (Raphiolepis indica) (Host,Diagnosis/ID) (1,2)</b>				
Crown rot; Root rot; Stem rot (Phytophthora sp./spp.)	0	1	0	0
Hawthorn leaf blight (Entomosporium sp.)	1	0	0	0
<b>Iris (Iris sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Panicum; Fall (Panicum dichotomiflorum)	1	0	0	0
<b>Itea; Sweetspire (Itea sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Armillaria root rot (Armillaria sp./spp.)	1	0	0	0
<b>Ivy (Hedera sp./spp.) (Host,Diagnosis/ID) (3,3)</b>				
Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Ivy (Hedera sp./spp.) (Host,Diagnosis/ID) (3,3) Continued</b>				
Phytophthora root rot (Phytophthora palmivora)	1	0	0	0
Virginia copperleaf (Acalypha virginica)	1	0	0	0
<b>Ivy, English (Hedera helix) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Japanese Aralia (Fatsia japonica) (Host,Diagnosis/ID) (1,1)</b>				
Anthrachnose stem blight (Colletotrichum sp./spp.)	1	0	0	0
<b>Japanese Cleystera (Ternstroemia gymnanthera)</b> <i>(Host,Diagnosis/ID) (4,6)</i>				
Canker; Stem blight; Dieback (Botryosphaeria dothidea)	1	0	0	0
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
Sunlight-induced pathology (Abiotic disorder)	0	0	1	0
Sunscald (Abiotic disorder)	0	0	1	0
Unspecified pathology (Colletotrichum sp./spp.)	1	0	0	0
<b>Jasmine, Asiatic (Trachelospermum asiaticum)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Jasmine, Confederate (Trachelospermum jasminoides)</b> <i>(Host,Diagnosis/ID) (1,1)</i>				
Phytophthora root and crown rot (Phytophthora cactorum)	1	0	0	0
<b>Juniper (Juniperus sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Dieback; Canker (Seiridium sp./spp.)	1	0	0	0
<b>Juniper, Chinese (Juniperus chinensis) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Eastern Red cedar (Juniperus virginiana) (Host,Diagnosis/ID)</b> <i>(1,2)</i>				

	Confirmed	Not Detected	Suspected	Undetermined
<b>Eastern Red cedar (<i>Juniperus virginiana</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2) <b>Continued</b>				
Cedar-quince rust ( <i>Gymnosporangium clavipes</i> )	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Juniper, Shore (<i>Juniperus conferta</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Mite damage (Unidentified Mite)	1	0	0	0
<b>Juniper, Wilton Carpet; blue rug juniper (<i>Juniperus horizontalis wiltoni</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (2,2)				
( <i>Pseudocercospora juniperi</i> )	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Lantana (<i>Lantana sp./spp.</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Root girdling (Abiotic disorder)	1	0	0	0
Root-knot nematodes ( <i>Meloidogyne sp./spp.</i> )	1	0	0	0
<b>Larkspur (<i>Delphinium spp</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Crown and root rot (Unidentified Agent)	0	0	0	1
<b>Lilyturf; Bordergrass (<i>Liriope sp./spp.</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (4,4)				
Anthracnose ( <i>Colletotrichum sp./spp.</i> )	1	0	0	0
Fusarium basal rot ( <i>Fusarium sp./spp.</i> )	1	0	0	0
Fusarium crown rot ( <i>Fusarium sp./spp.</i> )	1	0	0	0
Fusarium root rot ( <i>Fusarium sp./spp.</i> )	1	0	0	0
<b>Leopard Plant (<i>Farfugium japonicum</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (2,2)				
Leaf spot ( <i>Alternaria cinerariae</i> )	1	0	0	0
Stem rot (Unidentified Agent)	0	0	0	1
<b>Loquat (<i>Eriobotrya japonica</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (2,2)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Dieback; Canker; Twig blight ( <i>Botryosphaeria sp./spp.</i> )	1	0	0	0
<b>Loropetalum; Chinese fringe flower (<i>Loropetalum chinense</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Insufficient sample (Identification Analysis)	0	0	0	1

	Confirmed	Not Detected	Suspected	Undetermined
<b>Lupine, garden (<i>Lupinus polyphyllus</i>) (Host,Diagnosis/ID) (1,1)</b>				
Tomato spotted wilt (Tomato Spotted Wilt Virus (TSWV))	1	0	0	0
<b>Lupine (<i>Lupinus sp./spp.</i>) (Host,Diagnosis/ID) (1,1)</b>				
Leaf spot (Unknown cause)	0	0	0	1
<b>Magnolia (<i>Magnolia sp./spp.</i>) (Host,Diagnosis/ID) (1,1)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Magnolia, Southern (<i>Magnolia grandiflora</i>) (Host,Diagnosis/ID) (4,6)</b>				
Algal leaf spot ( <i>Cephaleuros sp./spp.</i> )	1	0	0	0
False oleander scale ( <i>Pseudaulacaspis cockerelli</i> )	1	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
Sooty mold (Unidentified Fungus)	1	0	0	0
Tuliptree scale ( <i>Toumeyella liriodendri</i> )	1	0	0	0
<b>Mandevilla (<i>Mandevilla sp./spp.</i>) (Host,Diagnosis/ID) (2,4)</b>				
Anthracnose; Colletotrichum leaf spot ( <i>Colletotrichum sp./spp.</i> )	1	0	0	0
Colletotrichum stem decay ( <i>Colletotrichum sp./spp.</i> )	1	0	0	0
<b>Mandevilla (<i>Mandevilla sp./spp.</i>) (Host,Diagnosis/ID) (2,4)</b>				
<b>Continued</b>				
Phytophthora crown and/or root rot ( <i>Phytophthora nicotianae</i> )	1	0	0	0
Phytophthora leaf spot ( <i>Phytophthora nicotianae</i> )	1	0	0	0
<b>Maple (<i>Acer sp./spp.</i>) (Host,Diagnosis/ID) (4,5)</b>				
Dieback; Canker; Twig blight ( <i>Botryosphaeria sp./spp.</i> )	1	0	0	0
Insect damage (Unidentified Insect)	0	0	0	1
Insufficient sample (Identification Analysis)	0	0	0	1
Non-pathogenic; Saprophyte (Secondary Agents; Saprophytes; Unspecif.)	0	0	0	1



	Confirmed	Not Detected	Suspected	Undetermined
<b>Maple (Acer sp./spp.) (Host,Diagnosis/ID) (4,5) Continued</b>				
Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)	1	0	0	0
<b>Maple, Fullmoon (Acer japonicum) (Host,Diagnosis/ID) (1,1)</b>				
Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)	1	0	0	0
<b>Maple, Japanese (Acer palmatum) (Host,Diagnosis/ID) (9,10)</b>				
Anthracnose (Colletotrichum sp./spp.)	1	0	0	0
Anthracnose; Twig dieback (Colletotrichum sp./spp.)	1	0	0	0
Crown and root rot (Phytophthora sp./spp.)	0	1	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	3	0	0	0
Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)	1	0	0	0
Stem canker (Colletotrichum sp./spp.)	1	0	0	0
<b>Maple, Red (Acer rubrum) (Host,Diagnosis/ID) (2,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Herbicide injury; Exposure (Abiotic disorder)	0	0	1	0
Phyllosticta leaf spot (Phyllosticta sp./spp.)	1	0	0	0
<b>Maple, Southern Sugar; Florida maple (Acer barbatum) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Marigold (Tagetes sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
No pathogen found (Identification Analysis)	0	1	0	0
Pythium root and/or crown rot (Pythium sp./spp.)	1	0	0	0
<b>Mazus (Mazus reptans) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Melampodium (Melampodium sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Root-knot nematodes (Meloidogyne sp./spp.)	1	0	0	0
<b>Mondograss; Dwarf lily turf (Ophiopogon japonicus)</b> ( <i>Host,Diagnosis/ID</i> ) (3,3)				
Anthracnose (Colletotrichum sp./spp.)	2	0	0	0
Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)	1	0	0	0
<b>Nandina; Heavenly Bamboo (Nandina domestica)</b> ( <i>Host,Diagnosis/ID</i> ) (2,3)				
Herbicide injury; Exposure (Abiotic disorder)	0	0	1	0
Phytophthora root and crown rot (Phytophthora cinnamomi)	1	0	0	0
Spider mites (Family Tetranychidae)	1	0	0	0
<b>Oak (Quercus sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (6,10)				
Actinopelte leaf spot (Tubakia dryina)	1	0	0	0
Ambrosia beetle (Oxoplatypus (Platypus) quadridentatus)	1	0	0	0
Beetles (Order Coleoptera)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Herbicide drift (Abiotic disorder)	0	0	1	0
Leaf spot (Tubakia sp./spp.)	2	0	0	0
Oak leaf blister (Taphrina caerulescens)	1	0	0	0
Scarab may beetle (Phyllophaga congrua)	1	0	0	0
Southern fusiforme rust (Cronartium quercuum fusiforme)	1	0	0	0
<b>Oak, Laurel (Quercus laurifolia)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	1	0	0	0
Drought stress damage (Abiotic disorder)	0	0	1	0
<b>Oak, Live (Quercus virginiana)</b> ( <i>Host,Diagnosis/ID</i> ) (4,5)				
Actinopelte leaf spot (Tubakia dryina)	1	0	0	0
Callirhytis oak gall wasp (Callirhytis sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Oak, Live (<i>Quercus virginiana</i>) (Host,Diagnosis/ID) (4,5)</b>				
<b>Continued</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Cynipid gall wasps ( <i>Acraspis</i> sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Oak, Northern Red (<i>Quercus rubra</i>) (Host,Diagnosis/ID) (1,1)</b>				
Oak wilt ( <i>Ceratocystis fagacearum</i> )	0	0	1	0
<b>Oak, Post (<i>Quercus stellata</i>) (Host,Diagnosis/ID) (3,6)</b>				
Drought stress damage (Abiotic disorder)	0	0	3	0
Leaf spot ( <i>Tubakia dryina</i> )	1	0	0	0
Oak wilt ( <i>Bretziella fagacearum</i> )	0	1	0	0
Tip dieback ( <i>Coryneum</i> sp./spp.)	1	0	0	0
<b>Oak, Red (<i>Quercus falcata</i>) (Host,Diagnosis/ID) (7,12)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	2	0	0	0
Drought stress damage (Abiotic disorder)	0	0	4	0
Oak decline (Complex of Biotic; Abiotic Factors)	0	0	1	0
Oak leaf blister ( <i>Taphrina caerulescens</i> )	1	0	0	0
Oak wilt ( <i>Bretziella fagacearum</i> )	0	3	0	0
<b>Oak, Scrubby Post (<i>Quercus margaretta</i>) (Host,Diagnosis/ID) (2,3)</b>				
Drought stress damage (Abiotic disorder)	0	0	1	0
Oak wilt ( <i>Bretziella fagacearum</i> )	0	2	0	0
<b>Oak, Water (<i>Quercus nigra</i>) (Host,Diagnosis/ID) (2,2)</b>				
Ambrosia beetle ( <i>Oxoplatypus</i> ( <i>Platypus</i> ) <i>quadridentatus</i> )	1	0	0	0
Oak wilt ( <i>Bretziella fagacearum</i> )	0	1	0	0
<b>Oak, White (<i>Quercus alba</i>) (Host,Diagnosis/ID) (5,7)</b>				
Bacterial wetwood; Slime flux (Various Pathogens)	1	0	0	0
Cynipid gall wasps ( <i>Acraspis</i> sp./spp.)	1	0	0	0
Drought stress damage (Abiotic disorder)	0	0	1	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Oak, White (Quercus alba) (Host,Diagnosis/ID) (5,7)</b>				
Leaf spot (Tubakia dryina)	1	0	0	0
Mushroom (Unidentified Fungus)	0	0	0	1
Oak wilt (Bretziella fagacearum)	0	1	0	0
<b>Oak, White (Quercus alba) (Host,Diagnosis/ID) (5,7)</b>				
Wood rot fungus; Dryadeus root rot (Inonotus dryadeus)	0	0	1	0
<b>Oak, Willow (Quercus phellos) (Host,Diagnosis/ID) (1,1)</b>				
Herbicide injury; Exposure (Abiotic disorder)	0	0	1	0
<b>Orchid (Neofinetia sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Orchid (Oncidium sp./spp.) (Host,Diagnosis/ID) (1,2)</b>				
Cucumber mosaic (CMV) (Cucumovirus Cucumber Mosaic Virus)	0	1	0	0
Mites (Order Acari)	0	0	0	1
<b>Orchid, Dove (Peristeria elata) (Host,Diagnosis/ID) (1,1)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Orchid, Vanda (Vanda sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Cucumber mosaic (CMV) (Cucumovirus Cucumber Mosaic Virus)	0	1	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Pachysandra; Japanese Spurge (Pachysandra terminalis) (Host,Diagnosis/ID) (1,1)</b>				
Volutella canker; Leaf blight (Pseudonectria pachysandricola)	1	0	0	0
<b>PALMS</b>				
<b>Palms (Unknown species) (Host,Diagnosis/ID) (1,1)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Canary Island date palm (Phoenix canariensis) (Host,Diagnosis/ID) (1,1)</b>				
Root rot (Phytophthora sp./spp.)	0	1	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Pindo Palm; jelly palm (<i>Butia capitata</i>) (Host,Diagnosis/ID) (2,2)</b>				
Anthracnose ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Stem rot; Dieback; Canker ( <i>Botryodiplodia</i> sp./spp.)	1	0	0	0
<b>Sabal Palm; fan palm (<i>Sabal</i> sp./spp.) (Host,Diagnosis/ID) (4,4)</b>				
Exfoliating bark (Abiotic disorder)	0	0	1	0
Fusarium leaf spot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Palmetto scale ( <i>Comstockiella sabalis</i> )	2	0	0	0
<b>Windmill Palm (<i>Trachycarpus fortunei</i>) (Host,Diagnosis/ID) (1,1)</b>				
Pythium blight; Cottony blight ( <i>Pythium</i> sp./spp.)	1	0	0	0
<b>Paperbush (<i>Edgeworthia</i> sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Southern stem rot ( <i>Sclerotium rolfsii</i> )	1	0	0	0
<b>Penstemon; Beard-tongue (<i>Penstemon</i> sp./spp.)</b> (Host,Diagnosis/ID) (1,1)				
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	1	0	0	0
<b>Phlox (<i>Phlox</i> sp./spp.) (Host,Diagnosis/ID) (3,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Leaf spot (Unknown cause)	0	0	0	1
<b>Phlox, Perennial (<i>Phlox paniculata</i>) (Host,Diagnosis/ID) (1,1)</b>				
Thrips damage (Unidentified Thrips)	0	0	1	0
<b>Phlox Moss; pink phlox (<i>Phlox subulata</i>) (Host,Diagnosis/ID)</b> (2,2)				
Botrytis blight ( <i>Botrytis</i> sp./spp.)	1	0	0	0
Phoma blight; Dieback; Rot ( <i>Phoma</i> sp./spp.)	1	0	0	0
<b>Philodendron (<i>Philodendron</i> sp./spp.) (Host,Diagnosis/ID) (1,2)</b>				
Abnormal plant growth (Abiotic disorder)	0	0	1	0
Dasheen mosaic (Dasheen Mosaic Virus (DSMV))	0	1	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Pineapple Guava (<i>Acca sellowiana</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Leaf spot (Unidentified Fungus)	0	0	0	1
<b>Pineapple Guava (<i>Feijoa sellowiana</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Pine, Loblolly (<i>Pinus taeda</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (2,2)				
Root problem (Unknown Cause)	0	0	0	1
Southern pine beetle ( <i>Dendroctonus frontalis</i> )	1	0	0	0
<b>Pittosporum; Japanese (<i>Pittosporum tobira</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Anthraxnose; Colletotrichum leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
<b>Podocarpus; Japanese Yew (<i>Podocarpus</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (4,4)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
Pestalotiopsis needle blight; Tip blight ( <i>Pestalotiopsis</i> sp./spp.)	1	0	0	0
Phytophthora root and crown rot ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
Lichens (Lichenes)	0	0	1	0
<b>Plum, Purpleleaf (<i>Prunus cerasifera atropurpurea</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Lichens (Lichenes)	0	0	1	0
<b>Plum-yew (<i>Cephalotaxus harringtonia</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Trunk girdling (Abiotic disorder)	1	0	0	0
<b>Plume Cockscomb (<i>Celosia argentea plumosa</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Root-knot nematodes ( <i>Meloidogyne</i> sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Poinsettia (<i>Euphorbia pulcherrima</i>) (Host,Diagnosis/ID) (1,1)</b>				
Botrytis canker ( <i>Botrytis</i> sp./spp.)	1	0	0	0
<b>Privet (<i>Ligustrum</i> sp./spp.) (Host,Diagnosis/ID) (8,9)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	3	0
Glyphosate injury (Abiotic disorder)	0	0	3	0
Insufficient sample (Identification Analysis)	0	0	0	1
Leaf spot ( <i>Pseudocercospora</i> sp./spp.)	2	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
<b>Privet, Chinese (<i>Ligustrum sinense</i>) (Host,Diagnosis/ID) (2,5)</b>				
Anthracnose; <i>Colletotrichum</i> leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Euonymus scale ( <i>Unaspis euonymi</i> )	1	0	0	0
Privet bud mite ( <i>Aculus ligustri</i> )	1	0	0	0
Spider mites (Family Tetranychidae)	1	0	0	0
<b>Privet, Japanese (<i>Ligustrum japonicum</i>) (Host,Diagnosis/ID) (1,1)</b>				
<b>Redbud, Eastern (<i>Cercis canadensis</i>) (Host,Diagnosis/ID) (1,1)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Red-tip Photinia (<i>Photinia fraseri</i>) (Host,Diagnosis/ID) (1,1)</b>				
Leaf spot ( <i>Entomosporium maculatum</i> )	1	0	0	0
<b>Rhododendron (<i>Rhododendron</i> sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Rose (<i>Rosa</i> sp./spp.) (Host,Diagnosis/ID) (15,27)</b>				
Black spot (Rose) ( <i>Diplocarpon rosae</i> )	0	0	1	0
Botrytis blight ( <i>Botrytis</i> sp./spp.)	3	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Rose (Rosa sp./spp.) (Host,Diagnosis/ID) (15,27) Continued</b>				
Cane blight; Canker (Coniothyrium fuckelii)	1	0	0	0
Cane Botrytis (Botrytis cinerea)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	2	0
Dieback; Canker (Coniothyrium sp./spp.)	1	0	0	0
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	1	0	0	0
Glyphosate injury (Abiotic disorder)	0	0	1	0
Hydrophobic soil/planting mix/media (Abiotic disorder)	1	0	0	0
Leaf spot (Cercospora rosicola)	1	0	0	0
Mechanical damage (Abiotic disorder)	1	0	0	0
No pathogen found (Identification Analysis)	0	0	0	0
Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)	1	0	0	0
Powdery mildew (Podosphaera pannosa)	0	0	1	0
Root girdling (Abiotic disorder)	2	0	0	0
Rose brown canker (Cryptosporella umbrina)	1	0	0	0
Rose downy mildew (Peronospora sparsa)	0	1	0	0
Rose rosette disease (Rose Rosette Virus (RRV))	1	1	1	0
Roseslug (Endelomyia sp./spp.)	1	0	0	0
Spider mites (Family Tetranychidae)	1	0	0	0
<b>Rose (Rosa sp./spp.) (Host,Diagnosis/ID) (15,27) Cont'd.</b>				
Stem canker (Colletotrichum sp./spp.)	1	0	0	0
<b>Rose, Chinese (Rosa chinensis) (Host,Diagnosis/ID) (1,1)</b>				
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	1	0	0	0
<b>Rose, Climbing (Rosa setigera) (Host,Diagnosis/ID) (1,2)</b>				
Herbicide drift (Abiotic disorder)	0	0	1	0
Twospotted spider mite (Tetranychus urticae)	1	0	0	0



	Confirmed	Not Detected	Suspected	Undetermined
<b>Sea Thrift (<i>Armeria pseudarmeria</i>) (Host,Diagnosis/ID) (1,2)</b>				
Anthracnose ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Botrytis blight ( <i>Botrytis</i> sp./spp.)	1	0	0	0
<b>Silk Tree (<i>Mimosa</i> sp./spp.) (Host,Diagnosis/ID) (1,1)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Southern Bayberry; wax myrtle (<i>Myrica cerifera</i>) (Host,Diagnosis/ID) (2,4)</b>				
Anthracnose ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Anthracnose; Twig dieback ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Septoria leaf spot ( <i>Septoria myricae</i> )	1	0	0	0
<b>Spider Plant (<i>Chlorophytum comosum</i>) (Host,Diagnosis/ID) (2,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Leaf spot (Unknown cause)	0	0	0	2
<b>Spruce, Blue (<i>Picea pungens</i>) (Host,Diagnosis/ID) (1,1)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Spruce, Dwarf Alberta (<i>Picea glauca conica</i>) (Host,Diagnosis/ID) (2,2)</b>				
Basidiomycete (Unidentified Basidiomycete)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	1	0	0	0
<b>Spruce, Norway (<i>Picea abies</i>) (Host,Diagnosis/ID) (1,1)</b>				
Sirococcus shoot/tip blight; Blight ( <i>Sirococcus strobilinus</i> )	1	0	0	0
<b>Spurge (<i>Euphorbia x martini</i>) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Styrax, Japanese (<i>Styrax japonicus</i>) (Host,Diagnosis/ID) (1,1)</b>				
Japanese maple scale ( <i>Lopholeucaspis japonica</i> )	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Sweet Box (<i>Sarcococca</i> sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Phytophthora crown and/or root rot ( <i>Phytophthora nicotianae</i> )	1	0	0	0
<b>Sweet Leaf (<i>Symplocos tinctoria</i>) (Host,Diagnosis/ID) (1,1)</b>				
Leaf and flower gall ( <i>Exobasidium</i> sp./spp.)	1	0	0	0
<b>Taro; Dasheen, ornamental (<i>Colocasia esculenta</i>) (Host,Diagnosis/ID) (2,3)</b>				
Abnormal plant growth (Abiotic disorder)	0	0	1	0
Dasheen mosaic (DSMV) ( <i>Potyvirus</i> Dasheen Mosaic Virus)	0	2	0	0
<b>Tea Olive; Sweet Olive (<i>Osmanthus fragrans</i>) (Host,Diagnosis/ID) (4,5)</b>				
Armillaria root rot ( <i>Armillaria</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
Sunlight-induced pathology (Abiotic disorder)	0	0	1	0
Whiteflies (Family Aleyrodidae)	1	0	0	0
<b>Thorny Olive (<i>Elaeagnus pungens</i>) (Host,Diagnosis/ID) (3,5)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Insect damage (Unidentified Insect)	0	0	0	1
Insufficient sample (Identification Analysis)	0	0	0	1
Mite damage (Unidentified Mite)	0	0	1	0
Normal plant growth (Identification Analysis)	1	0	0	0
<b>Veronica; Speedwell (<i>Veronica</i> sp./spp.) (Host,Diagnosis/ID) (2,2)</b>				
No pathogen found (Identification Analysis)	0	0	0	0
Stem rot; Southern blight ( <i>Sclerotium rolfsii</i> )	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Viburnum (Viburnum sp./spp.) (Host,Diagnosis/ID) (3,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Leaf spot (Unidentified Fungus)	0	0	0	1
Twospotted spider mite (Tetranychus urticae)	1	0	0	0
<b>Viburnum, Chindo (Viburnum awabuki) (Host,Diagnosis/ID) (1,1)</b>				
Herbicide drift (Abiotic disorder)	0	0	1	0
<b>Viburnum, Mirror-leaf (Viburnum odoratissimum awabuki) (Host,Diagnosis/ID) (2,3)</b>				
Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
Whiteflies (Family Aleyrodidae)	1	0	0	0
<b>Viburnum, Sandankwa (Viburnum suspensum) (Host,Diagnosis/ID) (2,2)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
Phoma leaf spot (Phoma sp./spp.)	1	0	0	0
<b>Vinca, annual; Madagascar Periwinkle (Catharanthus roseus) (Host,Diagnosis/ID) (3,6)</b>				
Crown rot; Root rot; Stem rot (Phytophthora sp./spp.)	1	0	0	0
<b>Vinca, annual; Madagascar Periwinkle (Catharanthus roseus) (Host,Diagnosis/ID) (3,6)</b>				
Phytophthora canker (Phytophthora nicotianae)	2	0	0	0
Phytophthora crown and/or root rot (Phytophthora nicotianae)	1	0	0	0
Pythium root and/or crown rot (Pythium sp./spp.)	2	0	0	0
<b>Viola (Viola cornuta) (Host,Diagnosis/ID) (1,1)</b>				
Pythium root and/or crown rot (Pythium sp./spp.)	1	0	0	0
<b>Violas (violet; pansy) (Viola sp./spp.) (Host,Diagnosis/ID) (2,4)</b>				
Excessive water (Abiotic disorder)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Violas (violet; pansy) (Viola sp./spp.) (Host,Diagnosis/ID) (2,4)</b>				
<b>Continued</b>				
Phytophthora root and crown rot (Phytophthora cactorum)	1	0	0	0
Pythium root and/or crown rot (Pythium sp./spp.)	2	0	0	0
<b>Viola; Pansy (Viola wittrockiana) (Host,Diagnosis/ID) (3,6)</b>				
Cercospora leaf spot (Cercospora sp./spp.)	1	0	0	0
Leaf spot; Blight (Myrothecium sp./spp.)	1	0	0	0
Nutritional deficiency (Abiotic disorder)	1	0	0	0
Pythium root and/or crown rot (Pythium sp./spp.)	3	0	0	0
<b>Wax Begonia (Begonia semperflorens-cultorum)</b>				
<i>(Host,Diagnosis/ID) (1,2)</i>				
Pythium root and/or crown rot (Pythium sp./spp.)	1	0	0	0
Root-knot nematodes (Meloidogyne sp./spp.)	0	0	1	0
<b>Willow (Salix sp./spp.) (Host,Diagnosis/ID) (2,4)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Dieback (Unknown Cause)	0	0	0	1
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)	1	0	0	0
Phoma blight; Dieback; Rot (Phoma sp./spp.)	1	0	0	0

## Diagnoses and Identifications on Fruits and Nuts

	Confirmed	Not Detected	Suspected	Undetermined
<b>Apple, Common (<i>Malus sylvestris</i>) (Host,Diagnosis/ID) (3,3)</b>				
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Dogwood borer ( <i>Synanthedon scitula</i> )	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Avocado (<i>Persea americana</i>) (Host,Diagnosis/ID) (3,5)</b>				
Anthrachnose; Colletotrichum leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	2	0
Insufficient sample (Identification Analysis)	0	0	0	0
Phytophthora root and crown rot ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
<b>Blackberry (<i>Rubus</i> sp./spp.) (Host,Diagnosis/ID) (3,9)</b>				
Cane and leaf rust ( <i>Kuehneola</i> sp./spp.)	1	0	0	0
Cane blight; Canker ( <i>Coniothyrium fuckelii</i> )	1	0	0	0
Cane blight; Canker ( <i>Paraconiothyrium fuckelii</i> )	1	0	0	0
Cane blotch ( <i>Cephaleuros</i> sp./spp.)	0	0	1	0
Common thrips (Family Thripidae)	1	0	0	0
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Double blossom (Rosette) ( <i>Cercospora rubi</i> )	1	0	0	0
Orange felt disease ( <i>Cephaleuros virescens</i> )	1	0	0	0
Trunk girdling (Abiotic disorder)	1	0	0	0
<b>Blueberry (<i>Vaccinium</i> sp./spp.) (Host,Diagnosis/ID) (6,7)</b>				
Blueberry leaf spot ( <i>Phomopsis vaccinii</i> )	0	0	1	0
Cylindrocladium black rot ( <i>Calonectria</i> sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Blueberry (<i>Vaccinium</i> sp./spp.) (Host,Diagnosis/ID)</b>				
<b>(6,7) Continued</b>				
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Fungal canker (Various Fungi)	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
Phytophthora root and crown rot ( <i>Phytophthora cinnamomi</i> )	2	0	0	0
<b>Blueberry, Highbush (<i>Vaccinium corymbosum</i>)</b>				
<b>(Host,Diagnosis/ID) (3,4)</b>				
Anthraco nose fruit rot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
Phytophthora root and crown rot ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
Whiteflies (Family Aleyrodidae)	1	0	0	0
<b>Blueberry, Rabbit-eye (<i>Vaccinium ashei</i>)</b>				
<b>(Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>CITRUS CROPS</b>				
<b>Grapefruit (<i>Citrus paradisi</i>) (Host,Diagnosis/ID) (2,3)</b>				
Insufficient sample (Identification Analysis)	0	0	0	1
No pathogen found (Identification Analysis)	0	1	0	0
Trunk decay; Rot (Unidentified Fungus)	0	0	1	0
<b>Key Lime (<i>Citrus aurantiifolia</i>) (Host,Diagnosis/ID) (1,2)</b>				
Black twig borer ( <i>Xylosandrus compactus</i> )	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Lemon (<i>Citrus limon</i>) (Host,Diagnosis/ID) (3,5)</b>				
Citrus greasy spot ( <i>Mycosphaerella citri</i> )	0	0	1	0

Citrus greening huanglongbing (Asian) (Candidatus <i>Liberibacter asiaticus</i> )	0	1	0	0
Citrus leafminer ( <i>Phyllocnistis citrella</i> )	1	0	0	0
<b>Lemon (<i>Citrus limon</i>) (Host,Diagnosis/ID) (3,5)</b>				
Insufficient sample (Identification Analysis)	0	0	0	0
Mite damage (Unidentified Mite)	0	0	0	1
<b>Meyer Lemon (<i>Citrus meyeri</i>) (Host,Diagnosis/ID) (1,2)</b>				
Citrus leafminer ( <i>Phyllocnistis citrella</i> )	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Satsuma; Mandarin; tangerine (<i>Citrus reticulata</i>) (Host,Diagnosis/ID) (1,1)</b>				
Melanose ( <i>Diaporthe citri</i> )	0	0	1	0
<b>Muscadine Grape (<i>Vitis rotundifolia</i>) (Host,Diagnosis/ID) (1,1)</b>				
Grapevine Pierce's disease ( <i>Xylella fastidiosa</i> )	1	0	0	0
<b>Pawpaw (<i>Asimina triloba</i>) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	0	0
<b>Peach (<i>Prunus persica</i>) (Host,Diagnosis/ID) (12,13)</b>				
Charcoal rot ( <i>Macrophomina</i> sp./spp.)	1	0	0	0
Colletotrichum stem decay ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Dieback; Canker; Twig blight ( <i>Botryosphaeria</i> sp./spp.)	1	0	0	0
Oriental fruit moth (OFM) ( <i>Grapholita molesta</i> )	1	0	0	0
Peach Canker ( <i>Xanthomonas arbuticola</i> pv. <i>juglandis</i> )	1	0	0	0
Root rot ( <i>Phytophthora</i> sp./spp.)	0	6	0	0
Scab ( <i>Cladosporium carpophilum</i> )	0	0	1	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Peach (<i>Prunus persica</i>) (Host,Diagnosis/ID) (12,13)</b>				
<b>Continued</b>				
Stem blight ( <i>Fusarium</i> sp./spp.)	1	0	0	0
<b>Pecan (<i>Carya illinoensis</i>) (Host,Diagnosis/ID) (3,3)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	0	0
Pecan weevil ( <i>Curculio caryae</i> )	1	0	0	0
<b>Raspberry (<i>Rubus idaeus</i>) (Host,Diagnosis/ID) (1,1)</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Strawberry, Commercial; garden strawberry (<i>Fragaria x ananassa</i>) (Host,Diagnosis/ID) (10,13)</b>				
Anthrachnose basal rot; Crown rot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Anthrachnose; Colletotrichum leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Colletotrichum crown rot ( <i>Colletotrichum gloeosporioides</i> )	1	0	0	0
Crown rot ( <i>Botrytis</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	2	0
Cyclamen mite ( <i>Phytonemus (Steneotarsonemus) pallidus</i> )	1	0	0	0
Environmental stress; Problem (Abiotic disorder)	0	0	1	0
Fusarium root; Crown rot ( <i>Fusarium</i> sp./spp.)	2	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	0
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	1	0	0	0
White mold ( <i>Sclerotinia</i> sp./spp.)	1	0	0	0



## Diagnoses and Identifications on Vegetables and Herbs

Vegetables	Confirmed	Not Detected	Suspected	Undetermined
<b>Cabbage (<i>Brassica oleracea</i> var. <i>capitata</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Collards (<i>Brassica oleracea</i> var. <i>acephala</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (4,4)				
Crucifer clubroot ( <i>Plasmodiophora brassicae</i> )	1	0	0	0
Fusarium stem rot; Fusarium stalk rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
Potassium deficiency (Abiotic disorder)	0	0	1	0
<b>Kale (<i>Brassica oleracea acephala</i>) (Host,Diagnosis/ID)</b> <b>(4,4) Continued</b>				
Crucifer bacterial black rot ( <i>Xanthomonas campestris</i> )	1	0	0	0
Fusarium wilt; Fusarium wilt complex ( <i>Fusarium</i> sp./spp.)	2	0	0	0
<b>Kale (<i>Brassica oleracea acephala</i>) (Host,Diagnosis/ID)</b> <b>(4,4) Continued</b>				
Pythium damping off ( <i>Pythium</i> sp./spp.)	1	0	0	0
<b>Lettuce (<i>Lactuca sativa</i>) (Host,Diagnosis/ID) (4,5)</b>				
Cultivar susceptibility (Abiotic disorder)	0	0	1	0
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	3	0	1	0
<b>Okra (<i>Abelmoschus esculentus</i>) (Host,Diagnosis/ID)</b> <b>(2,4)</b>				
Fusarium root; Crown rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Fusarium stem; Root rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	1	0	0	0
Root-knot nematodes ( <i>Meloidogyne</i> sp./spp.)	0	0	1	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Pea, Garden (<i>Pisum sativum</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Fusarium stem; Root rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
<b>Pepper, Bell (<i>Capsicum annuum grossum</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Bacterial soft rot (Unidentified Bacterium)	0	0	0	1
<b>Pepper, Habanero; datil pepper (<i>Capsicum chinense</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Fusarium stem rot; Fusarium stalk rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
<b>Potato (<i>Solanum tuberosum</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (3,3)				
Insufficient sample (Identification Analysis)	0	0	0	1
No pathogen found (Identification Analysis)	0	1	0	0
Phoma leaf spot ( <i>Phoma</i> sp./spp.)	1	0	0	0
<b>Spinach (<i>Spinacia oleracea</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,2)				
Pythium damping off ( <i>Pythium</i> sp./spp.)	1	0	0	0
Slug damage (Unidentified Slug)	1	0	0	0
<b>Sweetpotato (<i>Ipomoea batatas</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Onion thrips ( <i>Thrips tabaci</i> )	1	0	0	0
<b>Tomato (<i>Lycopersicon esculentum</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (25,35)				
2,4-D injury (Abiotic disorder)	0	0	1	0
Bacterial leaf spot ( <i>Xanthomonas</i> sp./spp.)	1	0	0	0
Bacterial stalk rot ( <i>Erwinia</i> sp./spp.)	0	0	1	0
Bacterial wilt ( <i>Ralstonia solanacearum</i> )	0	0	1	0
Cercospora leaf spot ( <i>Cercospora</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	4	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Tomato (<i>Lycopersicon esculentum</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (25,35) <b>Continued</b>	0	0	1	0
Flea beetles (Subfamily Alticinae)	0	0	1	0
Fusarium stem rot; Fusarium stalk rot (Fusarium sp./spp.)	1	0	0	0
Fusarium wilt (Fusarium oxysporum)	1	0	0	0
Fusarium wilt; Fusarium wilt complex (Fusarium sp./spp.)	1	0	0	0
Herbicide drift (Abiotic disorder)	0	0	1	0
Herbicide injury; Exposure (Abiotic disorder)	0	0	1	0
Insufficient sample (Identification Analysis)	0	0	0	1
Phoma fruit and stem rot (Phoma lycopersici)	1	0	0	0
Phoma rot (Phoma destructiva)	1	0	0	0
Pigweed ( <i>Amaranthus</i> sp./spp.)	1	0	0	0
Potyvirus Group (Potyvirus Group)	0	1	0	0
Pythium root and/or crown rot (Pythium sp./spp.)	4	0	0	0
Rhizoctonia stem rot (Rhizoctonia sp./spp.)	1	0	0	0
Root-knot nematodes ( <i>Meloidogyne</i> sp./spp.)	1	0	0	0
Thrips damage (Unidentified Thrips)	1	0	0	0
Tomato pith necrosis ( <i>Pseudomonas</i> sp./spp.)	0	0	2	0
Tomato spotted wilt (Tomato Spotted Wilt Virus (TSWV))	1	1	0	0
Tomato; Pepper bacterial spot ( <i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> )	1	0	0	0
Unspecified pathology ( <i>Bacillus</i> sp./spp.)	1	0	0	0
<b>Watermelon (<i>Citrullus lanatus</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Moisture stress (Abiotic disorder)	0	0	1	0
<b>Herbs</b>				
<b>Arugula (<i>Eruca vesicaria</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Pythium root and/or crown rot (Pythium sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Basil, Sweet (<i>Ocimum basilicum</i>) (Host,Diagnosis/ID)</b> <b>(1,3)</b>				
Basil downy mildew ( <i>Peronospora belbahrii</i> )	0	1	0	0
Botrytis blight ( <i>Botrytis</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
<b>Cilantro (<i>Coriandrum sativum</i>) (Host,Diagnosis/ID) (1,1)</b>				
Cercospora leaf spot ( <i>Cercospora</i> sp./spp.)	1	0	0	0
<b>Lavender (<i>Lavandula</i> sp./spp.) (Host,Diagnosis/ID)</b> <b>(33,40)</b>				
Aerial blight ( <i>Rhizoctonia</i> sp./spp.)	1	0	0	0
Anthracnose; Colletotrichum leaf spot ( <i>Colletotrichum</i> sp./spp.)	3	0	0	0
Black root rot ( <i>Thielaviopsis basicola</i> )	1	0	0	0
Botrytis blight ( <i>Botrytis</i> sp./spp.)	1	0	0	0
Crown and root rot ( <i>Phytophthora</i> sp./spp.)	1	7	3	0
Crown rot ( <i>Rhizoctonia</i> sp./spp.)	1	0	0	0
Crown rot; Root rot; Stem rot ( <i>Phytophthora</i> sp./spp.)	0	1	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
Fusarium leaf spot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Fusarium root rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Fusarium root; Crown rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	1	0	0
Mechanical damage (Abiotic disorder)	0	0	1	0
No pathogen found (Identification Analysis)	0	2	0	0
Phytophthora crown and/or root rot ( <i>Phytophthora</i> nicotianae)	7	0	0	0
PhytoPythium root rot ( <i>Phytopythium</i> sp./spp.)	1	0	0	0
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Lavender (<i>Lavandula</i> sp./spp.) (Host,Diagnosis/ID)</b> <b>(33,40) Continued</b>				
Unspecified pathology ( <i>Phytophthora nicotianae</i> )	1	0	0	0
Unspecified pathology ( <i>Phytophthora</i> sp./spp.)	1	0	0	0
Unspecified pathology ( <i>Pythium</i> sp./spp.)	2	0	0	0
<b>Lavender, English (<i>Lavandula angustifolia</i>)</b> <b>(Host,Diagnosis/ID) (10,10)</b>				
Botrytis blight ( <i>Botrytis</i> sp./spp.)	1	0	0	0
Crown and root rot ( <i>Phytophthora</i> sp./spp.)	0	2	0	0
Cultural/environmental problem (Abiotic disorder)	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
Phytophthora root and crown rot ( <i>Phytophthora cinnamomi</i> )	1	0	0	0
Unspecified pathology ( <i>Phytopythium</i> sp./spp.)	2	0	0	0
Unspecified pathology ( <i>Pythium</i> sp./spp.)	1	0	0	0
<b>Lavender, French (<i>Lavandula dentata</i>)</b> <b>(Host,Diagnosis/ID) (1,1)</b>				
No pathogen found (Identification Analysis)	0	1	0	0
<b>Lavender, Spanish (<i>Lavandula stoechas</i>)</b> <b>(Host,Diagnosis/ID) (1,1)</b>				
Phytophthora crown and/or root rot ( <i>Phytophthora nicotianae</i> )	1	0	0	0
<b>Rosemary (<i>Rosmarinus officinalis</i>) (Host,Diagnosis/ID)</b> <b>(1,1)</b>				
Bacterial blight ( <i>Pseudomonas cichorii</i> )	1	0	0	0

## Diagnoses and Identifications on Turfgrasses

	Confirmed	Not Detected	Suspected	Undetermined
<b>Bentgrass (<i>Agrostis</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (3,4)				
Anthracnose ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Hunting billbug ( <i>Sphenophorus venatus vestitus</i> )	1	0	0	0
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	1	0	0	0
Wireworms (Click beetles) (Family Elateridae)	1	0	0	0
<b>Bermudagrass (<i>Cynodon</i> sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (32,45)				
Awl nematode ( <i>Dolichodorus</i> sp./spp.)	1	0	0	0
Bamboo ( <i>Phyllostachys</i> sp.)	0	0	1	0
Bermudagrass ( <i>Cynodon dactylon</i> )	1	0	0	0
Bermudagrass scale ( <i>Odonaspis ruthae</i> )	2	0	0	0
Cereal/ grass disease ( <i>Bipolaris</i> sp./spp.)	1	0	0	0
Creeping frogfruit ( <i>Phyla nodiflora</i> )	0	0	1	0
Cultural/environmental problem (Abiotic disorder)	1	0	5	0
Dense thatch layer (Abiotic disorder)	1	0	0	0
Dollar spot ( <i>Clarireedia homoeocarpa</i> )	3	0	0	0
Environmental stress; Problem (Abiotic disorder)	0	0	1	0
Fairy ring (Various Fungi)	0	0	3	0
Hogweed ( <i>Croton capitatus</i> ) Woolly Croton	1	0	0	0
Hydrophobic soil/planting mix/media (Abiotic disorder)	0	0	0	0
Insufficient sample (Identification Analysis)	1	0	0	0
Large crabgrass; Hairy crabgrass ( <i>Digitaria sanguinalis</i> )	1	0	0	0
Leaf rust; Rust ( <i>Puccinia</i> sp./spp.)	3	0	0	0
Leaf spot ( <i>Bipolaris</i> sp./spp.)	2	0	0	0
Leaf spot ( <i>Exserohilum rostratum</i> )	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Bermudagrass (Cynodon sp./spp.) (Host,Diagnosis/ID)</b>				
<b>(32,45) Continued</b>				
Lesser swinecress (Coronopus (Lepidium) didymus (didymum))	1	0	0	0
Nakedstem dewflower (Murdannia nudiflora)	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
No pest found (Identification Analysis)	0	1	0	0
Red leaf and sheath spot (Rhizoctonia zeae)	1	0	0	0
Ring nematode (Mesocriconema sp./spp.)	1	0	0	0
Root problem (Unknown Cause)	0	0	0	1
Root-knot nematodes (Meloidogyne sp./spp.)	2	0	0	0
Vasey's grass (Paspalum urvillei)	1	0	0	0
<b>Centipedegrass (Eremochloa ophiuroides)</b>				
<b>(Host,Diagnosis/ID) (79,114)</b>				
Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)	6	0	0	0
Brown patch (Colletotrichum caudatum)	1	0	0	0
Carolina ponysfoot (Dichondra carolinensis)	1	0	0	0
Chemical; Environmental injury (Abiotic disorder)	0	0	1	0
Composites (Family Asteraceae)	0	0	0	1
Crabgrass (Digitaria sp./spp.)	2	0	0	0
Cultural/environmental problem (Abiotic disorder)	4	0	9	0
Curvularia blight; Leaf spot (Curvularia sp./spp.)	4	0	0	0
Dollar spot (Clarireedia homoeocarpa)	6	0	0	0
Drought stress damage (Abiotic disorder)	0	0	1	0
ETRI ectotrophic root infecting fungi (Complex of Fungi)	1	0	0	0
Fairy ring (Various Fungi)	0	0	1	0
Hydrophobic soil/planting mix/media (Abiotic disorder)	0	0	0	0
Insect damage (Unidentified Insect)	0	0	0	1

	Confirmed	Not Detected	Suspected	Undetermined
<b>Centipedegrass (<i>Eremochloa ophiuroides</i>)</b>				
<i>(Host,Diagnosis/ID) (79,114) Continued</i>				
Large crabgrass; Hairy crabgrass ( <i>Digitaria sanguinalis</i> )	1	0	0	0
Large patch ( <i>Rhizoctonia solani</i> )	3	0	0	0
Nutrient imbalance (Abiotic disorder)	0	0	1	0
Poor leaf emergence (Abiotic disorder)	1	0	2	0
Pythium blight; Cottony blight ( <i>Pythium sp./spp.</i> )	2	0	0	0
Ring nematode ( <i>Mesocriconema sp./spp.</i> )	3	0	0	0
Root problem (Unknown Cause)	0	0	0	1
Root problems (Abiotic disorder)	3	0	1	0
Root-knot nematodes ( <i>Meloidogyne sp./spp.</i> )	2	0	0	0
Soil compaction (Abiotic disorder)	1	0	0	0
Southern crabgrass ( <i>Digitaria ciliaris</i> )	1	0	0	0
Sting nematodes ( <i>Belonolaimus sp./spp.</i> )	1	0	0	0
Unspecified pathology ( <i>Rhizoctonia sp./spp.</i> )	1	0	0	0
Variable panicgrass ( <i>Panicum commutatum</i> )	1	0	0	0
Virginia buttonweed ( <i>Diodia virginiana</i> )	1	0	0	0
<b>Paspalum; Bahiagrass (<i>Paspalum sp./spp.</i>)</b>				
<i>(Host,Diagnosis/ID) (2,4)</i>				
Bermudagrass mite ( <i>Eriophyes cynodoniensis</i> )	0	1	0	0
Eastern Gamagrass ( <i>Tripsacum dactyloides</i> )	1	0	0	0
Lesion nematodes ( <i>Pratylenchus sp./spp.</i> )	1	0	0	0
Sheath blight ( <i>Rhizoctonia sp./spp.</i> )	1	0	0	0
<b>St. Augustinegrass (<i>Stenotaphrum secundatum</i>)</b>				
<i>(Host,Diagnosis/ID) (39,60)</i>				
Chinch bug complex ( <i>Blissus sp./spp.</i> )	13	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	2	0
Curvularia blight; Leaf spot ( <i>Curvularia sp./spp.</i> )	3	0	0	0
Environmental stress; Problem (Abiotic disorder)	0	0	1	0



	Confirmed	Not Detected	Suspected	Undetermined
<b>St. Augustinegrass (<i>Stenotaphrum secundatum</i>)</b>				
<i>(Host,Diagnosis/ID) (39,60) Continued</i>				
Gray leaf spot ( <i>Pyricularia grisea</i> )	20	0	1	0
Hydrophobic soil/planting mix/media (Abiotic disorder)	0	0	0	0
Insect damage (Unidentified Insect)	0	0	0	1
Leaf spot ( <i>Bipolaris</i> sp./spp.)	1	0	0	0
Nutrient imbalance (Abiotic disorder)	0	0	1	0
Partridge berry ( <i>Mitchella repens</i> )	1	0	0	0
Ring nematode ( <i>Mesocriconema</i> sp./spp.)	1	0	0	0
Root problem (Unknown Cause)	1	0	0	1
Root problems (Abiotic disorder)	0	0	1	0
Sheath blight ( <i>Rhizoctonia</i> sp./spp.)	1	0	0	0
Sting nematodes ( <i>Belonolaimus</i> sp./spp.)	1	0	0	0
Stubby-root nematodes (Family <i>Trichodoridae</i> )	1	0	0	0
<b>Tall Fescue (<i>Festuca arundinacea</i>)</b> <i>(Host,Diagnosis/ID)</i>				
<i>(2,2)</i>				
Asian spikesedge ( <i>Kyllinga squamulata</i> )	1	0	0	0
Shortleaf spikesedge ( <i>Kyllinga (Cyperus) brevifolius</i> )	1	0	0	0
<b>Tall Fescue (<i>Schedonorus arundinaceus</i>)</b>				
<i>(Host,Diagnosis/ID) (1,1)</i>				
Insufficient sample (Identification Analysis)	0	0	0	1
<b>Turfgrass (Turfgrass mixed species)</b>				
<i>(Host,Diagnosis/ID) (4,4)</i>				
Anthracnose; <i>Colletotrichum</i> leaf spot ( <i>Colletotrichum</i> sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	0	0	0	0
Dallisgrass ( <i>Paspalum dilatatum</i> )	1	0	0	0
Florida betony ( <i>Stachys floridana</i> )	0	0	1	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Zoysia Grass (Zoysia sp./spp.)</b> ( <i>Host,Diagnosis/ID</i> ) (32,49)				
Crabgrass (Digitaria sp./spp.)	1	0	0	0
Cultural/environmental problem (Abiotic disorder)	1	0	6	0
Curvularia blight; Leaf spot (Curvularia sp./spp.)	5	0	0	0
Dense thatch layer (Abiotic disorder)	1	0	0	0
Dollar spot (Clariireedia homoeocarpa)	4	0	0	0
ETRI ectotrophic root infecting fungi (Complex of Fungi)	1	0	0	0
Hydrophobic soil/planting mix/media (Abiotic disorder)	0	0	0	0
Large patch (Rhizoctonia solani)	1	0	0	0
Perennial ryegrass (Lolium perenne)	1	0	0	0
Poor leaf emergence (Abiotic disorder)	1	0	0	0
Ring nematode (Mesocriconema sp./spp.)	1	0	0	0
Root problem (Unknown Cause)	1	0	0	4
Root problems (Abiotic disorder)	0	0	1	0
Rust; Leaf rust (Puccinia zoysiae)	2	0	0	0
Spiral nematodes (Helicotylenchus sp./spp.)	1	0	0	0
Zoysiagrass mite (Eriophyes zoysiae)	1	0	0	0
<b>Zoysia; Japanese lawngrass (Zoysia japonica)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Curvularia blight; Leaf spot (Curvularia sp./spp.)	1	0	0	0

## Diagnoses and Identifications on Field Crops and Pastures

	Confirmed	Not Detected	Suspected	Undetermined
<b>Corn, Field (<i>Zea mays</i>) (Host,Diagnosis/ID) (4,7)</b>				
Curvularia blight; Leaf spot (Curvularia sp./spp.)	2	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
Northern corn leaf blight; Leaf spot (Exserohilum)	1	0	0	0
Phosphorus deficiency (Abiotic disorder)	1	0	0	0
Stubby-root nematodes (Family Trichodoridae)	1	0	0	0
Stunt nematodes (Tylenchorhynchus sp./spp.)	1	0	0	0
<b>Cotton (<i>Gossypium hirsutum</i>) (Host,Diagnosis/ID) (3,5)</b>				
Fusarium root rot (Fusarium sp./spp.)	1	0	0	0
Insect damage (Unidentified Insect)	1	0	0	0
Low soil moisture (Abiotic disorder)	0	0	1	0
Nutritional deficiency (Abiotic disorder)	0	0	1	0
Tropical spiderwort; Benghal dayflower (Commelina benghalensis)	1	0	0	0
<b>Cowpea (<i>Vigna unguiculata</i>) (Host,Diagnosis/ID) (1,1)</b>				
Target spot (Corynespora cassiicola)	1	0	0	0
<b>Hemp (<i>Cannabis sativa</i>) (Host,Diagnosis/ID) (21,40)</b>				
Bacterial wilt (Ralstonia solanacearum)	0	0	1	0
Butterflies; Moths; Caterpillars (Order Lepidoptera)	1	0	0	0
Cercospora leaf spot (Cercospora sp./spp.)	2	0	0	0
Cultural/environmental problem (Abiotic disorder)	1	0	2	0
Fungus gnats (Mycetophilidae fam.)	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Hemp (<i>Cannabis sativa</i>) (Host,Diagnosis/ID)</b>				
<b>(21,40) Continued</b>				
Fusarium flower blight (Fusarium sp./spp.)	1	0	0	0
Fusarium stem rot; Fusarium stalk rot (Fusarium sp./spp.)	2	0	0	0
Hemp russet mite ( <i>Aculops cannabicola</i> )	1	0	1	0
Insect damage (Unidentified Insect)	0	0	1	1
Leaf spot ( <i>Bipolaris</i> sp./spp.)	1	0	0	0
Leaf spot ( <i>Exserohilum</i> sp./spp.)	1	0	0	0
Lesser cornstalk borer ( <i>Elasmopalpus lignosellus</i> )	0	0	1	0
Lesser cornstalk borer (LCB) ( <i>Elasmopalpus lignosellus</i> )	0	0	1	0
No pathogen found (Identification Analysis)	0	1	0	0
Nutrient imbalance (Abiotic disorder)	0	0	1	0
Pythium root and/or crown rot ( <i>Pythium</i> sp./spp.)	5	0	0	0
Red imported fire ant (IFA) ( <i>Solenopsis invicta</i> )	1	0	0	0
Root girdling (Abiotic disorder)	4	0	0	0
Slime mold (Class Myxomycetes; Myxomycota)	1	0	0	0
Southern stem rot ( <i>Sclerotium rolfsii</i> )	1	0	0	0
Stem rot; Dieback; Canker ( <i>Botryodiplodia</i> sp./spp.)	2	0	0	0
Thrips (Order Thysanoptera)	1	0	0	0
Thrips damage (Unidentified Thrips)	1	0	0	0
Twospotted spider mite ( <i>Tetranychus urticae</i> )	1	0	0	0
Wireworms (Click beetles) (Family Elateridae)	0	0	1	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Oats (<i>Avena sativa</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Oat leaf spot; Seedling blight ( <i>Drechslera avenae</i> )	1	0	0	0
<b>Sesame, Oriental (<i>Sesamum indicum</i>)</b>				
( <i>Host,Diagnosis/ID</i> ) (4,7)				
Alternaria leaf blight ( <i>Alternaria</i> sp./spp.)	1	0	0	0
Butterflies; Moths; Caterpillars (Order Lepidoptera)	1	0	0	0
Cercospora leaf spot ( <i>Cercospora</i> sp./spp.)	2	0	0	0
Corynespora leaf spot ( <i>Corynespora</i> sp./spp.)	1	0	0	0
Insufficient sample (Identification Analysis)	0	0	0	1
Southern green stink bug ( <i>Nezara viridulus</i> )	1	0	0	0
<b>Sorghum, Grain (<i>Sorghum vulgare</i>)</b>				
( <i>Host,Diagnosis/ID</i> ) (1,3)				
Fusarium root rot ( <i>Fusarium</i> sp./spp.)	1	0	0	0
Insect damage (Unidentified Insect)	0	0	0	1
Rhizoctonia crown and stem rot ( <i>Rhizoctonia</i> sp./spp.)	1	0	0	0
<b>Soybean (<i>Glycine max</i>)</b> ( <i>Host,Diagnosis/ID</i> ) (4,8)				
Anthracnose; Leaf blight ( <i>Colletotrichum truncatum</i> )	1	0	0	0
Australasian soybean rust ( <i>Phakopsora pachyrhizi</i> )	1	0	0	0
Bean plataspid ( <i>Megacopta cribraria</i> )	1	0	0	0
Flies (Order Diptera)	0	0	1	0
Indianmeal moth (ImM) ( <i>Plodia interpunctella</i> )	1	0	0	0
No pathogen found (Identification Analysis)	0	1	0	0
Soybean frogeye leaf spot ( <i>Cercospora sojina</i> )	1	0	0	0
Tropical spiderwort; Benghal dayflower ( <i>Commelina benghalensis</i> )	1	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
<b>Sunflower (<i>Helianthus annuus</i>) (Host,Diagnosis/ID)</b>				
Carrot beetle ( <i>Tomarus (Bothynus) gibbosus</i> )	1	0	0	0
<b>Sunflower (<i>Helianthus annuus</i>) (Host,Diagnosis/ID)</b> <b>(3,4) Continued</b>				
Cultural/environmental problem (Abiotic disorder)	0	0	1	0
No pathogen found (Identification Analysis)	0	1	0	0
Southern stem rot ( <i>Sclerotium rolfsii</i> )	1	0	0	0
<b>Sunflower (<i>Helianthus sp./spp.</i>) (Host,Diagnosis/ID)</b> <b>(1,1)</b>				
Black leg; Pythium stem rot ( <i>Pythium sp./spp.</i> )	1	0	0	0
<b>Tobacco (general) (<i>Nicotiana tabacum</i>)</b> <b>(Host,Diagnosis/ID) (1,1)</b>				
Granville wilt ( <i>Ralstonia solanacearum</i> )	1	0	0	0
<b>Wheat (<i>Triticum aestivum</i>) (Host,Diagnosis/ID) (2,5)</b>				
Little quakinggrass ( <i>Briza minor</i> )	1	0	0	0
Sixweeks fescue ( <i>Vulpia (Festuca) octoflora</i> )	1	0	0	0
Stagonospora nodorum blotch ( <i>Parastagonospora nodorum</i> )	1	0	0	0
Toad rush ( <i>Juncus bufonius</i> )	1	0	0	0
Unidentified virus (Unidentified Virus)	0	0	0	1
<b>Pasture Crops</b>				
<b>Clover (<i>Trifolium sp./spp.</i>) (Host,Diagnosis/ID) (1,1)</b>				
Carex sp. Sedge ( )	0	0	1	0
<b>Clover, Alyce (<i>Alysicarpus vaginalis</i>)</b> <b>(Host,Diagnosis/ID) (2,2)</b>				
Old world hairsedge; Watergrass ( <i>Bulbostylis barbata</i> )	1	0	0	0
Poorland flatsedge ( <i>Cyperus compressus</i> )	1	0	0	0

	<b>Confirmed</b>	<b>Not Detected</b>	<b>Suspected</b>	<b>Undetermined</b>
<b>Clover, White (<i>Trifolium repens</i>)</b> ( <i>Host,Diagnosis/ID</i> )				
(1,1)				
Brazilian vervain ( <i>Verbena brasiliensis</i> )	1	0	0	0

## Identifications of Insects and Other Arthropods

Insect Id request (general) 144	Confirmed	Not Detected	Suspected	Inconclusive
<b>ANTS 13</b>				
Acrobat ants ( <i>Crematogaster</i> sp./spp.)	2	0	0	0
Ants (Family Formicidae)	1	0	0	0
Argentine ant ( <i>Linepithema humile</i> )	3	0	1	0
Carpenter ant ( <i>Camponotus</i> sp./spp.)	2	0	0	0
Florida carpenter ant ( <i>Camponotus abdominalis</i> )	1	0	0	0
Formicid ant ( <i>Formica</i> sp./spp.)	1	0	0	0
Pavement ant ( <i>Tetramorium caespitum</i> )	1	0	0	0
Pharaoh ant ( <i>Monomorium pharaonis</i> )	1	0	0	0
<b>BETLES 34</b>				
Anobiid death watch beetle ( <i>Oligomerus</i> sp./spp.)	1	0	0	0
Beetles (Order Coleoptera)	1	0	1	0
Black twig borer ( <i>Xylosandrus compactus</i> )	1	0	0	0
Bostrichid beetles (Family Bostrichidae)	1	0	0	0
Carpet beetles (Family Dermestidae)	0	0	0	3
Darkling beetles (Family Tenebrionidae)	0	0	0	1
Drugstore beetle ( <i>Stegobium paniceum</i> )	3	0	0	0
Emerald ash borer ( <i>Agrilus planipennis</i> )	3	0	0	0
Flea beetles (Subfamily Alticinae)	2	0	0	0
Foreign grain beetle ( <i>Ahasverus advena</i> )	1	0	0	0
Granary weevil ( <i>Sitophilus granarius</i> )	1	0	0	0
Hide beetle ( <i>Dermestes maculatus</i> )	1	0	0	0
Red flour beetle ( <i>Tribolium castaneum</i> )	1	0	0	0
Multicolored Asian lady beetle ( <i>Harmonia axyridis</i> )	1	0	0	0
Sap beetles (Family Nitidulidae)	1	0	0	0
Seed beetle ( <i>Caryobruchus gleditsiae</i> )	1	0	0	0
Southern masked chafer ( <i>Cyclocephala lurida</i> (immaculata))	1	0	0	0
Varied carpet beetle ( <i>Anthrenus verbasci</i> )	5	0	0	0



	Confirmed	Not Detected	Suspected	Inconclusive
Warehouse beetle ( <i>Trogoderma variabile</i> )	1	0	0	0
Wireworms (Click beetles) (Family Elateridae)	1	0	0	1
Lyctid powderpost beetle ( <i>Lyctus</i> sp./spp.)	1	0	0	0
<b>CATERPILLARS AND MOTHS 24</b>				
Bollworm; Budworm; Complex ( <i>Helicoverpa zea</i> )	2	0	0	0
Cotton cutworm ( <i>Spodoptera litura</i> )	0	1	0	0
Egyptian cottonworm ( <i>Spodoptera littoralis</i> )	0	1	0	0
Golden twin spot moth ( <i>Chrysodeixis chalcites</i> )	0	1	0	0
Gray looper moth ( <i>Rachiplusia ou</i> )	2	0	0	0
Mediterranean flour moth ( <i>Ephestia kuehniella</i> )	1	0	0	0
Mint looper ( <i>Rachiplusia ou</i> )	1	0	0	0
Noctuid moth ( <i>Leucania</i> sp./spp.)	1	0	0	0
Old World bollworm ( <i>Helicoverpa armigera</i> )	0	5	0	0
Orangestriped oakworm ( <i>Anisota senatoria</i> )	1	0	0	0
Silver Y moth ( <i>Autographa gamma</i> )	0	5	0	0
Soybean looper moth ( <i>Chrysodeixis includens</i> )	2	0	0	0
Yellowstriped armyworm ( <i>Spodoptera ornithogalli</i> )	1	0	0	0
<b>FLIES, MIDGES AND WASPS 28</b>				
Black soldier fly ( <i>Hermetia illucens</i> )	1	0	0	0
Blow flies (Family Calliphoridae)	1	0	0	0
Blue mud dauber wasp ( <i>Chalybion californicum</i> )	0	0	1	0
Common house fly ( <i>Musca domestica</i> )	2	0	1	0
Darkwinged fungus gnats (Family Sciaridae sp./spp.)	0	0	0	1
Deer fly ( <i>Chrysops</i> sp./spp.)	1	0	0	0
European hornet ( <i>Vespa crabro</i> )	1	0	0	0
Flies (Order Diptera)	1	0	0	2
Fungus gnats (Mycetophilidae fam.)	1	0	0	0
Great black wasp ( <i>Sphex pennsylvanicus</i> )	1	0	0	0
Humpbacked flies (Family Phoridae)	8	0	0	1
Humpbacked phorid fly ( <i>Megaselia</i> sp./spp.)	2	0	0	0
Phantom midges (Family Chaoboridae)	1	0	0	0

	Confirmed	Not Detected	Suspected	Inconclusive
Polistes wasps (Polistes sp./spp.)	1	0	0	0
Psychodid drain fly (Clogmia albipunctata)	0	0	1	0
<b>COCKROACHES, AND OTHER HOUSEHOLD PESTS 12</b>				
Blattid cockroaches (Family Blattidae)	1	0	0	0
Cereal psocid; Booklouse (Liposcelis divinatorius)	1	0	0	0
Cockroach (Order Blattodea)	1	0	0	0
Earwigs (Order Dermaptera)	0	0	0	1
Head louse (Pediculus humanus)	1	0	0	1
Smoky brown cockroach (Periplaneta fuliginosa)	2	0	0	0
Smooth springtails (Family Isotomidae; Collembola)	0	0	1	0
Springtails (Order Collembola)	2	0	0	1
<b>HUMAN AND ANIMAL PARASITES 2</b>				
Bed bug (Cimex lectularius)	2	0	0	0
<b>OTHER 1</b>				
Earthworms (Phylum Annelida; Subclass Oligochaeta)	0	0	0	1
<b>PLANT INSECTS 6</b>				
Acarid mites (Family Acaridae)	1	0	0	0
Citrus mealybug (Planococcus citri)	0	0	1	0
Green peach aphid (Myzus persicae)	1	0	0	0
Leafhoppers (Family Cicadellidae)	1	0	0	0
Plant bugs (Family Miridae)	0	0	0	1
Red-headed bush cricket (Phyllopalpus pulchellus)	1	0	0	0
<b>TERMITES 7</b>				
Drywood termites (Family Kalotermitidae)	0	0	1	0
Formosan subterranean termite (Coptotermes formosanus)	2	0	1	0
Subterranean termites (Family Rhinotermitidae)	1	0	0	0
Termites (Order Isoptera)	2	0	0	0

	<b>Confirmed</b>	<b>Not Detected</b>	<b>Suspected</b>	<b>Inconclusive</b>
SPIDERS 3				
Spiders (Order Araneae)	1	0	0	0
Wolf spider (Family Lycosidae; Araneae)	1	0	0	0
Wolf spider (Hogna carolinensis)	1	0	0	0
No insect found (Identification Analysis) 7	0	6	0	1
No pest found (Identification Analysis) 7	0	7	0	0

## Cooperative Agricultural Pest Survey Insect Targets

- Asian longhorned beetle (*Anoplophora glabripennis*)
- \*\* Emerald ash borer (*Agrilus planipennis*)
- \* *Walnut twig beetle* (*Pityophthorus juglandis*)
- European oak bark beetle (*Scolytus intricatu*)
- Tremex wasp (*Tremex fuscicornis*)
- Japanese pine sawyer (*Monochamus saltuarius*)
  
- Japanese wax scale (*Ceroplastes japonica*)
- Soft wax scale (*Ceroplastes destructor*)
- Cucurbit beetle (*Diabrotia speciosa*)
- Giant African snail (*Lissachatina fulica*)
  
- Silver Y moth (*Autographa gamma*)
- Old world bollworm (*Helicoverpa armigera*)
- Egyptian cottonworm (*Spodoptera littoralis*)
- Cotton cutworm (*Spodoptera litura*)
- Tomato looper (*Chrysodeixis chalcites*)
  
- Red palm weevil (*Rhynchophorus ferrugineus*)
- South American palm weevil (*Rhynchophorus palmarum*)
- New guinea sugarcane weevil (*Rhabdoscelus obscurus*)
- Coconut rhinoceros beetle (*Oryctes rhinoceros*)
  
- \* Found in Oconee County
- \*\* Found in Anderson, Cherokee, Greenville, Oconee, and Pickens Counties

## Identifications of Terrestrial and Aquatic Plants and Other Organisms

	Confirmed	Not Detected	Suspected	Undetermined
<b>Fungal Id request</b>				
Artillery fungus ( <i>Sphaerobolus stellatus</i> )	1	0	0	0
<b>Plant Id request (general) (<i>Host,Diagnosis/ID</i>) (41,43)</b>				
Annual bluegrass ( <i>Poa annua</i> )	1	0	0	0
Annual ryegrass; Italian ryegrass ( <i>Lolium perenne multiflorum</i> )	1	0	0	0
Bamboo (Undetermined species)	1	0	0	0
Bermudagrass ( <i>Cynodon dactylon</i> )	1	0	0	0
Burcucumber ( <i>Sicyos angulatus</i> )	1	0	0	0
Buttercup ( <i>Ranunculus sp./spp.</i> )	1	0	0	0
Hinoki Cypress ( <i>Chamaecyparis obtusa</i> )	1	0	0	0
Cogongrass ( <i>Imperata cylindrica</i> )	2	0	1	0
Cuban jute ( <i>Sida rhombifolia</i> )	1	0	0	0
Cudweed ( <i>Gnaphalium sp./spp.</i> )	0	0	1	0
Fig buttercup ( <i>Ficaria verna</i> )	3	0	0	0
Flat-top mille graines ( <i>Oldenlandia (Hedyotis) corymbosa</i> )	1	0	0	0
Itchgrass ( <i>Rottboellia cochinchinensis</i> )	17	0	0	0
Bottle Gourd ( <i>Lagenaria siceraria</i> )	1	0	0	0
Large crabgrass; Hairy crabgrass ( <i>Digitaria sanguinalis</i> )	1	0	0	0
Marsh pennywort ( <i>Hydrocotyle sibthorpioides</i> )	1	0	0	0
Sweet vernal grass ( <i>Anthoxanthum odoratum</i> )	0	0	1	0
Tropical soda apple ( <i>Solanum viarum</i> )	1	0	0	0
Tropical spiderwort; Benghal dayflower ( <i>Commelina benghalensis</i> )	2	0	0	0
Undetermined	0	0	0	1
Wild Comfrey ( <i>Cynoglossum virginianum</i> )	1	0	0	0
<b>Ponds; Lakes; impounded waters (Aquatic habitat) (<i>Host,Diagnosis/ID</i>) (43,100)</b>				
Algae ( <i>Dinobryon</i> )	1	0	0	0

	<b>Confirmed</b>	<b>Not Detected</b>	<b>Suspected</b>	<b>Undetermined</b>
Baldwin's spikerush ( <i>Eleocharis baldwinii</i> )	1	0	0	0
Bladderwort ( <i>Utricularia</i> sp./spp.)	2	0	0	0
Blue-green algae ( <i>Anabaena</i> sp./spp.)	8	0	0	0
Blue-green algae ( <i>Calothrix</i> sp./spp.)	1	0	0	0
Blue-green algae ( <i>Leptolyngbya</i> sp.)	1	0	0	0
Blue-green algae ( <i>Microcystis</i> sp./spp.)	7	0	0	0
Blue-green algae ( <i>Nostoc</i> sp./spp.)	1	0	0	0
Blue-green algae ( <i>Oscillatoria</i> sp./spp.)	9	0	0	0
Blue-green algae ( <i>Spirulina</i> sp./spp.)	1	0	0	0
Brazilian Elodea ( <i>Egeria densa</i> )	0	0	1	0
Brazilian watermeal ( <i>Wolffia brasiliensis</i> )	1	0	0	0
Common water-meal ( <i>Wolffia columbiana</i> )	2	0	0	0
Cutleaf watermilfoil ( <i>Myriophyllum pinnatum</i> )	1	0	0	0
Diatoms (Phylum Bacillariophyta)	1	0	0	2
Dinoflagellate ( <i>Peridinium</i> sp./spp.)	1	0	0	0
Dotted duckweed ( <i>Landoltia punctata</i> )	2	0	0	0
Euglenoid algae ( <i>Trachelomonas</i> sp./spp.)	1	0	0	0
Filamentous blue-green algae ( <i>Lyngbya</i> sp./spp.)	3	0	0	0
Filamentous Green Algae ( <i>Desmidium</i> sp./spp.)	1	0	0	0
Filamentous green algae ( <i>Mougeotia</i> sp./spp.)	3	0	0	0
Filamentous green algae				
Filamentous green algae ( <i>Oedogonium</i> sp.)	1	0	0	0
Filamentous green algae ( <i>Spirogyra</i> ; <i>Oedogonium</i> ; <i>Cladophora</i> sp./spp.)	3	0	0	0
Floating Bladderwort ( <i>Utricularia gibba</i> )	1	0	0	0
Floating marshpennywort ( <i>Hydrocotyle</i> <i>ranunculoides</i> )	1	0	0	0
Green algae ( <i>Coelastrum</i> sp./spp.)	1	0	0	0
Green algae ( <i>Ankistrodesmus</i> sp./spp.)	1	0	0	0
Green algae ( <i>Closterium</i> sp./spp.)	1	0	0	0
Green algae (Family Chlorophyceae)	0	0	0	0

	Confirmed	Not Detected	Suspected	Undetermined
Green algae ( <i>Ulothrix</i> sp./spp.)	2	0	0	0
Hydrilla ( <i>Hydrilla verticillata</i> )	1	0	0	0
Lemna duckweed ( <i>Lemna</i> sp./spp.)	5	0	0	0
Least duckweed ( <i>Lemna minuta</i> )	1	0	0	0
Duckweed, turion ( <i>Lemna turionifera</i> )	1	0	0	0
Mudmidget ( <i>Wolffiella gladiata</i> )	2	0	0	0
No pest found (Identification Analysis)	0	1	0	0
Protozoans (Kingdom Protozoa)	1	0	0	0
Sago pondweed ( <i>Stuckenia pectinata</i> )	0	0	1	0
Shade mudflower ( <i>Micranthemum umbrosum</i> )	1	0	0	0
Shelled Amoebae ( <i>Arcella</i> sp.)	0	0	1	0
Shelled Amoebae ( <i>Diffugia</i> sp.)	0	0	1	0
Slender Waternymph ( <i>Najas gracillima</i> )	1	0	0	0
Spikerush ( <i>Eleocharis</i> sp./spp.)	4	0	0	0
Water hyacinth ( <i>Eichhornia crassipes</i> )	3	0	0	0
Waterhyssop; Herb of grace ( <i>Bacopa monnieri</i> )	1	0	0	0
Watermeal ( <i>Wolffia papulifera</i> )	1	0	0	0
Watermeal ( <i>Wolffia</i> sp.)	1	0	0	0
Watermilfoil ( <i>Myriophyllum</i> sp./spp.)	1	0	0	0
Loose Watermilfoil ( <i>Myriophyllum laxum</i> )	1	0	0	0
Water primrose ( <i>Ludwigia</i> sp.)	1	0	0	0
Watershield ( <i>Brasenia schreberi</i> )	1	0	0	0
Waterthread pondweed ( <i>Potamogeton diversifolius</i> )	2	0	0	0

**River; Stream; creek; waterway (Aquatic habitat)**

*(Host,Diagnosis/ID) (2,2)*

Japanese dodder ( <i>Cuscuta japonica</i> )	1	0	0	0
Switch Cane ( <i>Arundinaria tecta</i> )	1	0	0	0

**Mixed Plant material (unspecified) *(Host,Diagnosis/ID)***

*(1,1)*

Marsh Parsley ( <i>Cyclosporum leptophyllum</i> )	1	0	0	0
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## Invasive Plants Detected

	Confirmed	Not Detected	Suspected	Undetermined
Cogongrass ( <i>Imperata cylindrica</i> )	2	0	1	0
Fig buttercup ( <i>Ficaria verna</i> )	3	0	0	0
Itchgrass ( <i>Rottboellia cochinchinensis</i> )	17	0	0	0
Japanese dodder ( <i>Cuscuta japonica</i> )	1	0	0	0
Tropical soda apple ( <i>Solanum viarum</i> )	1	0	0	0
Tropical spiderwort; Benghal dayflower ( <i>Commelina benghalensis</i> )	2	0	0	0
Hydrilla ( <i>Hydrilla verticillata</i> )	1	0	0	0
Water hyacinth ( <i>Eichhornia crassipes</i> )	3	0	0	0

## Survey Results for Phytophthora species from Various Habitats

	Confirmed	Not Detected	Suspected	Undetermined
<b>Fallow Field; idle land (habitat)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Unspecified pathology ( <i>Phytophthora</i> sp./spp.)	0	1	0	0
<b>Fungal id (general)</b> ( <i>Host,Diagnosis/ID</i> ) (1,1)				
Unspecified pathology ( <i>Phytophthora</i> sp./spp.)	0	1	0	0