2018 Annual Report of the Plant and Pest Diagnostic Clinic
Introduction to the 2018 Annual Report

As of February 1, 2018, the name of the Clemson University Plant Problem Clinic was changed to The Plant and Pest Diagnostic Clinic (PPDC). Fees were also raised at that time from $10 to $20 for in-state samples and from $20 to $30 for out-of-state samples. Despite the fee increase, only 56 fewer samples were submitted than in 2017, which is a decrease of 4.6%. The average number of samples for the past 5 years was 1260. Compared to that average, the 2018 numbers are down by only 8%.

Despite the name change and fee increase, our primary mission has not changed. The Clinic 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.

We were lucky to retain the part-time assistance of plant pathology graduate students, Madeline Dowling and Martha Froelich. Both assisted with diagnostics and other aspects of lab management, although Madeline graduated in spring and went on for a post-doc. Martha worked all year, and her ability to process samples and perform diagnoses has been extremely helpful. She graduated in December but will return to work part time this spring. We also got assistance from Jacob Taylor in turf diagnostics by providing partial funding for his graduate assistantship under Dr. Haibo Liu. He processed and diagnosed turf samples, especially those submitted to the Commercial Turf Clinic, and this was much appreciated since turf is a big part of our sample load.

In 2018, the Plant and Pest Diagnostic Clinic received 1159 samples, and 28 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 are primary identifiers: Entomologists; Predeesh Chandran and Tim Drake, Botanist; Dixie Damrel, Biologist; John Haines and Mycologist; Julia Kerrigan. Predeesh is also recognized for creating the insect identification part of this report.

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), headed up an assessment of the PathSensors Phytophthora detection system using lavender samples from growers across the U.S. He created the annual report for his lab and has been doing various types of diagnostic work for the PPDC. As usual, Lab Coordinator, Diana Low, did her best to keeps 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.

The PPDC, the Molecular Plant Pathogen Detection Lab (MPPD) and the Commercial Turf Clinic are housed in the Department of Plant Industry, while the Nematode Assay Lab, with whom we have a contract, is in the Department of Plant and Environmental Sciences. The annual reports for these other labs will stand on their own. I hope that readers find these reports interesting and informative.

Meg Williamson, Diagnostician and Lab Manager
Diagnosticians and Primary Identifiers

Curt Colburn processed 137 samples.
Dixie Damrel processed 92 samples.
Eric Benson processed 11 samples.
Jacob Taylor processed 70 samples.
Joey Williamson processed 1 sample.
John Hains processed 31 samples.
Julia Kerrigan processed 9 samples.
Madeline Dowling processed 10 samples.
Martha Froelich processed 115 samples.
Meg Williamson processed 759 samples.
Predeesh Chandran processed 130 samples.
Timothy Drake processed 62 samples.

Diagnosticians and Primary Identifiers that Provided Reports for Samples

Curt Colburn gave advice for 119 samples.
Dixie Damrel gave advice for 89 samples.
Eric Benson gave advice for 11 samples.
Jacob Taylor gave advice for 48 samples.
Julia Kerrigan gave advice for 7 samples.
Madeline Dowling gave advice for 5 samples.
Martha Froelich gave advice for 9 samples.
Meg Williamson gave advice for 747 samples.
Predeesh Chandran gave advice for 102 samples.
Timothy Drake gave advice for 25 samples.
Advisory Consultants Who Provided Management Recommendations

Bert McCarty gave advice for 4 samples.
Bob Polomski gave advice for 12 samples.
Brett Blaauw gave advice for 1 sample.
Corey Heaton gave advice for 36 samples.
Dixie Damrel gave advice for 9 samples.
Eric Benson gave advice for 18 samples.
Francis Reay-Jones gave advice for 2 samples.
Geoff Zehnder gave advice for 1 sample.
Guido Schnabel gave advice for 3 samples.
J.C. Chong gave advice for 38 samples.
Jeremy Greene gave advice for 1 sample.
Joey Williamson gave advice for 32 samples.
John Hains gave advice for 1 sample.
John Mueller gave advice for 1 sample.
Mike Marshall gave advice for 10 samples.
Steve Jeffers gave advice for 3 samples.

Personnel that Logged-in Samples

Diana Low processed 1115 samples.
Meg Williamson processed 10 samples.
Predeesh Chandran processed 34 samples.
Sample Numbers by Month for 2018
Total Submission=1159 samples
2018 Sample Types by Percent of Total

- Plant Health Analysis: 78%
- Insect ID: 10%
- Plant/Weed ID: 8%
- Disease ID: 4%
- Mushroom ID: 0.52%
2018 Sample Sources

- Extension noncommercial: 24%
- Extension commercial: 28%
- Nonextension noncommercial: 5%
- Nonextension commercial: 43%
Diagnoses and Identifications on Industrial Hemp
Sample Number = 11

- Trunk girdling (Abiotic disorder)
- Cercospora leaf spot (Cercospora sp./spp.)
- Pythium root and/or crown rot (Pythium sp./spp.)
- Rhizoctonia root rot (Rhizoctonia sp./spp.)
- Cabbage looper (Trichoplusia ni)
- Dieback, Canker, Twig blight (Botrytis sp./spp.)
- Rhizoctonia crown and stem rot (Rhizoctonia sp./spp.)
- Root problems (Abiotic disorder)
- Southern stem rot (Sclerotium rolfsii)
- Unspecified pathology/Fusarium sp./spp.
- Cultural/environmental problem (Abiotic disorder)
- Leaf spot (Unidentified Fungus)
## 2018 Out of State Samples

- Alabama: 6
- California: 11
- Florida: 8
- Georgia: 2
- Indiana: 3
- Kansas: 2
- Michigan: 6
- North Carolina: 18
- New Jersey: 3
- New Mexico: 8
- New York: 1
- Oregon: 7
- Pennsylvania: 3
- Tennessee: 4
- Texas: 13
- Virginia: 27
- Washington: 1
- Wisconsin: 1

**TOTAL:** 124

## 2018 South Carolina Samples by County

<table>
<thead>
<tr>
<th>County</th>
<th>Samples</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aiken</td>
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<td>Allendale</td>
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<tr>
<td>Anderson</td>
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<td>Bamberg</td>
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<td>Barnwell</td>
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<td>Beaufort</td>
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<td>Berkeley</td>
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<td>Calhoun</td>
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<td>Charleston</td>
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<td>Cherokee</td>
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<td>Chesterfield</td>
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<tr>
<td>Clarendon</td>
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<tr>
<td>Colleton</td>
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<td>Darlington</td>
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<td>Dillon</td>
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<td>Dorchester</td>
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<td>Edgefield</td>
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<td>Florence</td>
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<td>Georgetown</td>
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<td>Greenville</td>
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<td>Greenwood</td>
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<tr>
<td>Hampton</td>
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<tr>
<td>Horry</td>
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<td>Jasper</td>
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<td>Kershaw</td>
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<tr>
<td>Lancaster</td>
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<td>Laurens</td>
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<td>Lee</td>
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<td>Marion</td>
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<tr>
<td>Marlboro</td>
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<tr>
<td>McCormick</td>
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<tr>
<td>Newberry</td>
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<td>Oconee</td>
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<td>Orangeburg</td>
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<td>Pickens</td>
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<td>Saluda</td>
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<td>Spartanburg</td>
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<td>Sumter</td>
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<td>Union</td>
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<td>Williamsburg</td>
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</tr>
<tr>
<td>York</td>
<td>16</td>
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<tr>
<td>Sumter</td>
<td>31</td>
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</table>

**STATE TOTAL:** 1034

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### Out of State Samples Submitted in 2018

![Map showing the distribution of out of state samples in 2018](image-url)
<table>
<thead>
<tr>
<th>Plant Name</th>
<th>(Host, Diagnosis/ID)</th>
<th>Confirmed</th>
<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
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</thead>
<tbody>
<tr>
<td>Ajuga; Bugle-weed (Ajuga sp./spp.)</td>
<td>(1,1)*</td>
<td></td>
<td></td>
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<tr>
<td>Southern stem rot (Sclerotium rolfsii)</td>
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<tr>
<td>Amaryllis (Hippeastrum sp./spp.)</td>
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<tr>
<td>Anthracnose (Colletotrichum sp./spp.)</td>
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<tr>
<td>Red blotch (Stagonospora sp./spp.)</td>
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<tr>
<td>Anise Tree (Illicium sp./spp.)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>Root rot (Various Fungi)</td>
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<td>0</td>
<td>1</td>
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<tr>
<td>Arborvitae (Thuja sp./spp.)</td>
<td>(6,10)</td>
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<td>Chemical; Environmental injury (Abiotic disorder)</td>
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<tr>
<td>Macrophoma blight; Dieback (Macrophoma sp./spp.)</td>
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<td>3</td>
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<td>0</td>
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<tr>
<td>Mite damage (Unidentified Mite)</td>
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<tr>
<td>Arborvitae, Green Giant (Thuja standishii x plicata)</td>
<td>(11,16)</td>
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<tr>
<td>Armillaria root rot (Armillaria sp./spp.)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>6</td>
<td>0</td>
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<tr>
<td>Macrophoma blight; Dieback (Macrophoma sp./spp.)</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Maskell scale (Lepidosaphes maskelli)</td>
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<tr>
<td>Mite damage (Unidentified Mite)</td>
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<td>0</td>
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<tr>
<td>No pathogen found (Identification Analysis)</td>
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<td>0</td>
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<tr>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
<td></td>
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<td>0</td>
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<tr>
<td>Seiridium canker (Seiridium uniconne)</td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Ash (Fraxinus sp./spp.)</td>
<td>(2,2)</td>
<td></td>
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<td></td>
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<tr>
<td>Emerald ash borer (Agrilus planipennis)</td>
<td></td>
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<tr>
<td>Asiatic Jasmine (Trachelospermum asiaticum)</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Insufficient sample (Identification Analysis)</td>
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<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Autumn Fern (Dryopteris erythrosora)</td>
<td>(1,1)</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td>Hydrophobic soil/planting mix/media (Abiotic disorder)</td>
<td></td>
<td>1</td>
<td>0</td>
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<td>0</td>
</tr>
<tr>
<td>Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
<td>Undetermined</td>
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<tr>
<td>--------------</td>
<td>-----------</td>
<td>--------------</td>
<td>-----------</td>
<td>--------------</td>
<td></td>
</tr>
</tbody>
</table>
| **Azalea; Rhododendron (Rhododendron sp./spp.)** *(Host,Diagnosis/ID) (16,27)*  
Anthracnose (Colletotrichum sp./spp.) | 1 | 0 | 0 | 0  
Armillaria root rot; Butt rot (Armillaria sp./spp.) | 1 | 0 | 0 | 0  
Azalea bark scale (Eriococcus azaleae) | 1 | 0 | 0 | 0  
Azalea caterpillar (Datana major) | 1 | 0 | 0 | 0  
Azalea lace bug (Stephanitis pyrioides) | 2 | 0 | 1 | 0  
Cultural/environmental problem (Abiotic disorder) | 0 | 0 | 1 | 0  
Dieback; Canker; Twig blight (Botryosphaeria sp./spp.) | 2 | 0 | 0 | 0  
Glyphosate injury (Abiotic disorder) | 0 | 0 | 1 | 0  
Greenhouse thrips (Heliothrips haemorrhoidalis) | 1 | 0 | 0 | 0  
Herbicide injury; Exposure (Abiotic disorder) | 0 | 0 | 0 | 0  
Lace bugs (Family Tingidae) | 1 | 0 | 0 | 0  
Leaf and flower gall (Exobasidium vaccinii) | 1 | 0 | 0 | 0  
Leaf spot (Pestalotiopsis sp./spp.) | 1 | 0 | 0 | 0  
Mealybugs (Family Pseudococcidae) | 1 | 0 | 0 | 0  
Mite damage (Unidentified Mite) | 0 | 0 | 0 | 1  
Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.) | 3 | 0 | 0 | 0  
Phytophthora root and crown rot (Phytophthora cinnamomi) | 1 | 0 | 0 | 0  
Planting too deep (Abiotic disorder) | 1 | 0 | 0 | 0  
Root girdling (Abiotic disorder) | 1 | 0 | 0 | 0  
Sooty mold (Unidentified Fungus) | 0 | 0 | 0 | 1  
Sunscald (Abiotic disorder) | 0 | 0 | 1 | 0  
Trunk girdling (Abiotic disorder) | 1 | 0 | 0 | 0  
**Azalea, Formosa (Rhododendron simsii formosa)** *(Host,Diagnosis/ID) (1,1)*  
Mite damage (Unidentified Mite) | 1 | 0 | 0 | 0  
**Beautyberry, American (Callicarpa americana)** *(Host,Diagnosis/ID) (1,1)*  
Unidentified virus | 0 | 0 | 0 | 1  
**Black Gum (Nyssa sylvatica)** *(Host,Diagnosis/ID) (1,2)*  
Tea scale (Fiorinia theae) | 1 | 0 | 0 | 0  
Twospotted spider mite (Tetranychus urticae) | 1 | 0 | 0 | 0  |
Black Walnut (Juglans nigra) *(Host,Diagnosis/ID) (1,1)*

Thousand cankers disease (Geosmithia morbida)   

**Bleeding heart, Common (Dicentra spectabilis) (Host,Diagnosis/ID) (1,1)**

Environmental stress; Problem (Abiotic disorder)   

**Boxwood (Buxus sp./spp.) (Host,Diagnosis/ID) (28,37)**

Anthracnose stem blight (Colletotrichum sp./spp.)   
Armillaria root rot (Armillaria sp./spp.)   
Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)   
Boxwood Macrophoma leaf spot (Dothiorella candollei)   
Boxwood Macrophoma leaf spot (Macrophoma candollei)   
Boxwood mite (Eurytetranychus buxi)   
Boxwood Voluitella blight; Canker (Voluitella buxi)   
Crown and root rot (Phytophthora sp./spp.)   
Cultural/environmental problem (Abiotic disorder)   
Dieback (Colletotrichum theobromicola)   
Freeze; Frost; Cold damage (Abiotic disorder)   
Fusarium basal rot (Fusarium sp./spp.)   
Insufficient sample (Identification Analysis)   
Leaf scorch (Abiotic disorder)   
No pathogen found (Identification Analysis)   
Nutritional deficiency (Abiotic disorder)   
Phytophthora crown and/or root rot (Phytophthora nicotianae)   
Phytophthora root and crown rot (Phytophthora cinnamomi)   
Pythium root and/or crown rot (Pythium sp./spp.)   
Root girdling (Abiotic disorder)   
Stem canker (Colletotrichum sp./spp.)   

**Boxwood, Common (Buxus sempervirens) (Host,Diagnosis/ID) (10,15)**

Black twig borer (Xylosandrus compactus)   
Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)   
Boxwood Macrophoma leaf spot (Dothiorella candollei)
### Boxwood, Common (Buxus sempervirens) *(Host, Diagnosis/ID) (10,15)*

<table>
<thead>
<tr>
<th>Pathogen Description</th>
<th>Confirmed</th>
<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boxwood mite (Eurytetranychus buxi)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Boxwood Volutella blight; Canker (Volutella buxi)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Macrophoma leaf spot (Macrophoma sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Phytophthora crown and/or root rot (Phytophthora nicotianae)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
<td>1</td>
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</tbody>
</table>

### Boxwood, Edging (Buxus sempervirens suffruticosa) *(Host, Diagnosis/ID) (4,7)*

<table>
<thead>
<tr>
<th>Pathogen Description</th>
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<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
<td>1</td>
<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Boxwood Volutella blight; Canker (Volutella buxi)</td>
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<td>0</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
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<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Macrophoma blight; Dieback (Macrophoma sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>No pathogen found (Identification Analysis)</td>
<td>1</td>
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</tr>
</tbody>
</table>

### Boxwood, Japanese (Buxus microphylla var. japonica) *(Host, Diagnosis/ID) (5,8)*

<table>
<thead>
<tr>
<th>Pathogen Description</th>
<th>Confirmed</th>
<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
</tr>
</thead>
<tbody>
<tr>
<td>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
<td>0</td>
<td>2</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Phytophthora crown and/or root rot (Phytophthora nicotianae)</td>
<td>3</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Root rot (Phytophthora sp./spp.)</td>
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### Boxwood, Korean (Buxus sinica) *(Host, Diagnosis/ID) (2,4)*

<table>
<thead>
<tr>
<th>Pathogen Description</th>
<th>Confirmed</th>
<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
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<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
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<td>Boxwood mite (Eurytetranychus buxi)</td>
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### Boxwood, Korean littleleaf (Buxus sinica var. insularis) *(Host, Diagnosis/ID) (5,9)*

<table>
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<tr>
<th>Pathogen Description</th>
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<td>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</td>
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<td>Anthracnose; Twig dieback (Colletotrichum sp./spp.)</td>
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<td>Leaf blight (Volutella buxi)</td>
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<td>Macrophoma blight; Dieback (Macrophoma sp./spp.)</td>
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<td>Root-knot nematodes (Meloidogyne sp./spp.)</td>
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<td>Stem canker (Colletochrichum sp./spp.)</td>
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<td><strong>Broomsedge (Andropogon virginicus)</strong> (1,2)</td>
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<td>Softbeard Plumegrass (Saccharum brevivarbe var. contortum/ Erianthus contortus)</td>
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<td><strong>Cabbage Palm; blue palm (Sabal palmetto)</strong> (1,1)</td>
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<td>Stem rot (Unidentified Agent)</td>
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<td><strong>Callery Pear (Pyrus calleryana)</strong> (2,2)</td>
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<td>Fire blight (Erwinia amylovora)</td>
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<td>Algal leaf spot (Cephaleuros virescens)</td>
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<td>Glomerella canker (Colletotrichum gloeosporioides)</td>
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<td><strong>Camellia, Sasanqua (Camellia sasanqua)</strong> (3,6)</td>
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<td>Oedema; Edema (Abiotic disorder)</td>
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<td>Sooty mold (Unidentified Fungus)</td>
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<td><strong>Cherry (Prunus sp./spp.)</strong> (4,5)</td>
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<td><strong>Cherry, Yoshino (Prunus yedoensis)</strong> (Host, Diagnosis/ID) <em>(1,1)</em></td>
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<td><strong>Cherry-laurel (Prunus laurocerasus)</strong> (Host, Diagnosis/ID) <em>(8,11)</em></td>
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<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
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<td><strong>Chinese Fringe-flower (Loropetalum sp./spp.)</strong> (Host, Diagnosis/ID) <em>(4,5)</em></td>
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<td>Bacterial soft rot (Unidentified Bacterium)</td>
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<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
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<td>Environmental stress; Problem (Abiotic disorder)</td>
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<td><strong>Crabapple (Malus sp./spp.)</strong> (Host, Diagnosis/ID) <em>(1,1)</em></td>
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<td>Woolly apple aphid (Eriosoma lanigerum)</td>
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<td>Fungal wood rot (Schizophyllum commune)</td>
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<td>Herbicide carryover (Abiotic disorder)</td>
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<tr>
<td>Creeping Fig; climbing fig <em>(Ficus pumila)</em></td>
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<tr>
<td><strong>Daylily (Hemerocallis sp./spp. hybrids)</strong></td>
<td></td>
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<tr>
<td>Anthracnose (Colletotrichum sp./spp.)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Daylily rust (Puccinia hemerocallidis)</td>
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<tr>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
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<td>0</td>
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<tr>
<td><strong>Distylium, Cinnamon Girl (Distylium sp.)</strong></td>
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<tr>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
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<tr>
<td><strong>Dogwood (Cornus sp./spp.)</strong></td>
<td></td>
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<tr>
<td>Eastern subterranean termite (Reticulitermes flavipes)</td>
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<tr>
<td>Insufficient sample (Identification Analysis)</td>
<td>0</td>
<td>0</td>
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<tr>
<td><strong>Dogwood, flowering (Cornus florida)</strong></td>
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<tr>
<td>Anthracnose (Colletotrichum sp./spp.)</td>
<td>1</td>
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<tr>
<td>Black twig borer (Xylosandrus compactus)</td>
<td>1</td>
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<tr>
<td>Cercospora leaf spot (Cercospora sp./spp.)</td>
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<td>0</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
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<td>1</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Herbicide drift (Abiotic disorder)</td>
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<tr>
<td>Leaf spot (Pseudocercospora sp./spp.)</td>
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<tr>
<td>No pathogen found (Identification Analysis)</td>
<td>0</td>
<td>1</td>
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<tr>
<td>Nutritional deficiency (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Wood boring insect damage (Unidentified Wood Boring Insect)</td>
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<tr>
<td><strong>Dogwood, Evergreen (Cornus capitata)</strong></td>
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<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
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<tr>
<td><strong>Dutchman's Pipe (Aristolochia macrophylla)</strong></td>
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<tr>
<td>Insect damage (Unidentified Insect)</td>
<td>0</td>
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<tr>
<td>Nutritional deficiency (Abiotic disorder)</td>
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<tr>
<td><strong>Dutchman's Pipe, Woolly (Aristolochia tomentosa)</strong></td>
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<tr>
<td>Insect damage (Unidentified Insect)</td>
<td>0</td>
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<tr>
<td><strong>Eastern Red cedar (Juniperus virginiana)</strong></td>
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<tr>
<td>Mechanical damage (Abiotic disorder)</td>
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<td>Mite damage (Unidentified Mite)</td>
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<td>Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)</td>
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<tr>
<td>Plant Name</td>
<td>Host, Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
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<tr>
<td>------------------------------------------------</td>
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<tr>
<td>Eastern Red cedar (Juniperus virginiana)</td>
<td>(Host, Diagnosis/ID) (2,4)</td>
<td>Seiridium canker (Seiridium uncinorne)</td>
<td>1</td>
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<tr>
<td>Eastern Redbud (Cercis canadensis)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Elephant’s Ear (Colocasia sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,2)</td>
<td>Pythium root and/or crown rot (Pythium sp./spp.)</td>
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<tr>
<td></td>
<td></td>
<td>Rhizoctonia crown and root rot (Rhizoctonia solani)</td>
<td>1</td>
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<tr>
<td>False Nettle (Boehmeria cylindrica)</td>
<td>(Host, Diagnosis/ID) (1,2)</td>
<td>Nutrient imbalance (Abiotic disorder)</td>
<td>0</td>
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<td></td>
<td></td>
<td>Unspecified pathology (Pythium sp./spp.)</td>
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<tr>
<td>Fern, Holly (Cyrtomium falcatum)</td>
<td>(Host, Diagnosis/ID) (1,3)</td>
<td>Black leg (Phoma sp./spp.)</td>
<td>1</td>
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<td></td>
<td></td>
<td>Fusarium stem rot; Fusarium stalk rot (Fusarium sp./spp.)</td>
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<td></td>
<td></td>
<td>Unidentified virus (Unidentified Virus)</td>
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<tr>
<td>Fern, Japanese Painted (Athyrium niponicum)</td>
<td>(Host, Diagnosis/ID) (1,2)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
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<tr>
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<td>Fir- oak-fern rust (Hyalospora sp./spp.)</td>
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<tr>
<td>Fern, Macho (Nephrolepsis biserrata ‘Macho’)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Firethorn (Pyracantha sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Root problem (Unknown Cause)</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Florida Anisetree (Illicium floridanum)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
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<tr>
<td>Fringe Tree (Chionanthus sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Glyphosate injury (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Fuchsia (Fuchsia sp./spp.)</td>
<td>(Host, Diagnosis/ID) (2,3)</td>
<td>Bacterial blight (Unidentified Bacteria)</td>
<td>0</td>
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<tr>
<td></td>
<td></td>
<td>Botrytis blight (Botrytis sp./spp.)</td>
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<td></td>
<td></td>
<td>Thrips damage (Unidentified Thrips)</td>
<td>0</td>
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<tr>
<td>Gaillardia (Gaillardia sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,2)</td>
<td>Aphids; Plant lice (Family Aphididae)</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Plant Description</td>
<td>Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
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<td>-------------------</td>
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<tr>
<td>Gaillardia (Gaillardia sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,2)</td>
<td>Spider mites (Family Tetranychidae)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Gardenia (Gardenia sp./spp. hybrids)</td>
<td>(Host, Diagnosis/ID) (1,2)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Gardenia, Common; cape jasmine (Gardenia jasminoides)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Leaf spot (Pseudocercospora sp./spp.)</td>
<td>0</td>
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<tr>
<td>Ginkgo (Ginkgo biloba)</td>
<td>(Host, Diagnosis/ID) (4,4)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Goldenrod, Wrinkleleaf (Solidago rugosa)</td>
<td>(Host, Diagnosis/ID) (1,2)</td>
<td>Crown and root rot (Phytophthora sp./spp.)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Heuchera (Heuchera sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Insect damage (Unidentified Insect)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Holly, Burford (Ilex cornuta burfordii)</td>
<td>(Host, Diagnosis/ID) (2,3)</td>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Holly, Chinese (Ilex cornuta)</td>
<td>(Host, Diagnosis/ID) (2,4)</td>
<td>Algal leaf spot (Cephaleuros virescens)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Holly, East Palatka (Ilex x attenuata)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Holly, Heller; mushroom holly (Ilex crenata helleri)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Tea scale (Fiorinia theae)</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Holly, Inkberry (Ilex glabra)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Anthracnose (Colletotrichum sp./spp.)</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Holly, Japanese (Ilex crenata)</td>
<td>(Host, Diagnosis/ID) (9,11)</td>
<td>Chemical; Environmental injury (Abiotic disorder)</td>
<td>0</td>
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<tr>
<td></td>
<td></td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>0</td>
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<tr>
<td></td>
<td></td>
<td>Oedema; Edema (Abiotic disorder)</td>
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<td>0</td>
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<tr>
<td></td>
<td></td>
<td>Leaf spot (Pseudocercospora sp./spp.)</td>
<td>1</td>
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<tr>
<td>Holly, Heller</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>Black root rot (Thielaviopsis basicola)</td>
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<td>0</td>
</tr>
<tr>
<td>Host, Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
<td>Undetermined</td>
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<tr>
<td><strong>Holly, Japanese (Ilex crenata)</strong> (Host, Diagnosis/ID) (9,11)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>0</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)</td>
<td>2</td>
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<td>0</td>
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<tr>
<td>Phytophthora crown and/or root rot (Phytophthora nicotianae)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Root problem (Unknown Cause)</td>
<td>0</td>
<td>0</td>
<td>1</td>
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<tr>
<td>Southern red mite (Oligonychus ilicis)</td>
<td>1</td>
<td>0</td>
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<tr>
<td><strong>Holly, Nellie R. Stevens (Ilex aquifolium x cornuta Nellie R. Stevens)</strong> (Host, Diagnosis/ID) (6,11)</td>
<td></td>
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<tr>
<td>Black twig borer (Xylosandrus compactus)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Herbicide drift (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>No pathogen found (Identification Analysis)</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Root girdling (Abiotic disorder)</td>
<td>1</td>
<td>0</td>
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</tr>
<tr>
<td>Root problem (Unknown Cause)</td>
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<tr>
<td>Tea scale (Fiorinia theae)</td>
<td>3</td>
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<tr>
<td><strong>Holly, Yaupon (Ilex vomitoria)</strong> (Host, Diagnosis/ID) (5,5)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
<td>4</td>
<td>0</td>
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<tr>
<td>Cylindrocladium blight (Calonectria sp./spp.)</td>
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<tr>
<td><strong>Hydrangea (Hydrangea sp./spp.)</strong> (Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Pythium root and/or crown rot (Pythium sp./spp.)</td>
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<td>0</td>
<td>0</td>
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<tr>
<td><strong>Hydrangea, Bigleaf (Hydrangea macrophylla)</strong> (Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Flower proliferation (Phytoplasma sp./spp. unknown)</td>
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<td>1</td>
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<td><strong>Hydrangea, Oakleaf (Hydrangea quercifolia)</strong> (Host, Diagnosis/ID) (4,6)</td>
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<tr>
<td>Crown and stem rot (Fusarium sp./spp.)</td>
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<td>0</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Leaf spot (Unidentified Fungus)</td>
<td>0</td>
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<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Root problems (Abiotic disorder)</td>
<td>0</td>
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<tr>
<td>Sooty mold (Unidentified Fungus)</td>
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<tr>
<td>Plant</td>
<td>Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
</tr>
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<td>-----------------------------</td>
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<tr>
<td>Hydrangea, Panicled Hydrangea (Hydrangea paniculata)</td>
<td>(Host, Diagnosis/ID) (2,4)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Flea beetles (Subfamily Alticinae)</td>
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<td>0</td>
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<tr>
<td>Phoma leaf spot (Phoma sp./spp.)</td>
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<td>0</td>
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<tr>
<td>Snail (Mollusca; Gastropoda)</td>
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<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Indian Hawthorn (Raphiolepis indica)</td>
<td>(Host, Diagnosis/ID) (2,2)</td>
<td>2</td>
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<tr>
<td>Entomosporium leaf spot (Entomosporium sp./spp.)</td>
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<td>0</td>
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<tr>
<td>Iris (Iris sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>1</td>
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<td>0</td>
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<tr>
<td>Iris leaf spot (Cladosporium iridis)</td>
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<td>0</td>
<td>0</td>
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<tr>
<td>Japanese Aralia (Fatsia japonica)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Alternaria leaf spot (Alternaria sp./spp.)</td>
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<tr>
<td>Juniper (Juniperus sp./spp.)</td>
<td>(Host, Diagnosis/ID) (9,10)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>3</td>
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<tr>
<td>Gummosis (Abiotic disorder)</td>
<td>1</td>
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<tr>
<td>Maskell scale (Lepidosaphes maskelli)</td>
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<tr>
<td>Mite damage (Unidentified Mite)</td>
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<tr>
<td>Needle cast; Blight (Passalora sequoiae)</td>
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<td>Juniper, Chinese (Juniperus chinensis)</td>
<td>(Host, Diagnosis/ID) (3,5)</td>
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<td>Butt rot (Botryosphaeria sp./spp.)</td>
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<td>Juniper scale (Carulaspis juniperi)</td>
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<tr>
<td>Mite damage (Unidentified Mite)</td>
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<tr>
<td>Sphaeropsis dieback (Sphaeropsis sp./spp.)</td>
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<tr>
<td>Juniper, Sargent (Juniperus chinensis sargentii)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
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<td>Pestalotiopsis needle blight; Tip blight (Pestalotiopsis sp./spp.)</td>
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<tr>
<td>Juniper, shore (Juniperus conferta)</td>
<td>(Host, Diagnosis/ID) (3,4)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Mechanical damage (Abiotic disorder)</td>
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<tr>
<td>Lantana (Lantana sp./spp.)</td>
<td>(Host, Diagnosis/ID) (2,2)</td>
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<td>Lantana lace bug (Teleonemia scrupulosa)</td>
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<tr>
<td>Stem and crown rot (Phytophthora nicotianae)</td>
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</tbody>
</table>
### Lenten Rose (*Helleborus orientalis*) *(Host, Diagnosis/ID) (2,2)*
- Downy mildew (*Peronospora pulvracea*)
  - **Confirmed**: 2, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0

### Leyland Cypress (*Cupressus × leylandii*) *(Host, Diagnosis/ID) (1,1)*
- Phytophthora root and crown rot (*Phytophthora cinnamomi*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0

### Leyland Cypress (*Cupressocyparis leylandii*) *(Host, Diagnosis/ID) (18,18)*
- Conifer needle blight (*Passalora sequoiae*)
  - **Confirmed**: 4, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0
- Cultural/environmental problem (Abiotic disorder)
  - **Confirmed**: 2, **Not Detected**: 0, **Suspected**: 5, **Undetermined**: 0
- Dieback (Unidentified Fungus)
  - **Confirmed**: 0, **Not Detected**: 0, **Suspected**: 1, **Undetermined**: 0
- Dieback; Canker; Twig blight (*Botryosphaeria sp./spp.*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 1, **Undetermined**: 0
- Maskell scale (*Lepidosaphes maskelli*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0
- Seiridium canker (*Seiridium unicorne*)
  - **Confirmed**: 7, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0

### Ligularia *(Ligularia sp./spp.)* *(Host, Diagnosis/ID) (1,1)*
- Anthracnose; Colletotrichum leaf spot (*Colletotrichum sp./spp.*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0

### Lily-of-the-nile (*Agapanthus sp./spp.)* *(Host, Diagnosis/ID) (1,1)*
- Cultural/environmental problem (Abiotic disorder)
  - **Confirmed**: 0, **Not Detected**: 0, **Suspected**: 1, **Undetermined**: 0

### Locust (*Robinia sp./spp.*) *(Host, Diagnosis/ID) (1,2)*
- Ganoderma sessile (*Ganoderma root rot*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0
- Root rot (*Ganoderma curtisii*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0

### Loquat (*Eriobotrya japonica*) *(Host, Diagnosis/ID) (2,2)*
- Dieback; Canker; Twig blight (*Botryosphaeria sp./spp.*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0
- No pathogen found (Identification Analysis)
  - **Confirmed**: 0, **Not Detected**: 1, **Suspected**: 0, **Undetermined**: 0

### Maple (*Acer sp./spp.*) *(Host, Diagnosis/ID) (2,3)*
- Anthracnose (*Colletotrichum sp./spp.*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0
- Bacterial leaf scorch (*Xylella fastidiosa*)
  - **Confirmed**: 0, **Not Detected**: 1, **Suspected**: 0, **Undetermined**: 0
- Dieback; Canker; Twig blight (*Botryosphaeria sp./spp.*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0

### Maple, Japanese (*Acer palmatum*) *(Host, Diagnosis/ID) (3,6)*
- Anthracnose (*Kabatiella apocrypta*)
  - **Confirmed**: 0, **Not Detected**: 0, **Suspected**: 1, **Undetermined**: 0
- Aphids; Plant lice (Family Aphididae)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0
- Chemical; Environmental injury (Abiotic disorder)
  - **Confirmed**: 0, **Not Detected**: 0, **Suspected**: 1, **Undetermined**: 0
- Greedy scale (*Hemiberlesia rapax*)
  - **Confirmed**: 1, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0
- Insufficient sample (Identification Analysis)
  - **Confirmed**: 0, **Not Detected**: 0, **Suspected**: 0, **Undetermined**: 0
- No pathogen found (Identification Analysis)
  - **Confirmed**: 0, **Not Detected**: 1, **Suspected**: 0, **Undetermined**: 0
<table>
<thead>
<tr>
<th>Host, Diagnosis/ID</th>
<th>Confirmed</th>
<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
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<tbody>
<tr>
<td><strong>Maple, Red (Acer rubrum)</strong></td>
<td>(2,4)</td>
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<tr>
<td>Cylindrosporium leaf spot (Cylindrosporium acerinum)</td>
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<td>Fungal canker (Various Fungi)</td>
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<tr>
<td>Gloomy scale (Melanaspis tenebricosa)</td>
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<tr>
<td>Mechanical damage (Abiotic disorder)</td>
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<tr>
<td><strong>Maple, Sugar (Acer saccharum)</strong></td>
<td>(4,7)</td>
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<tr>
<td>Bacterial leaf scorch (Xylella fastidiosa)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Cylindrosporium leaf spot (Cylindrosporium acerinum)</td>
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<tr>
<td>Environmental stress; Problem (Abiotic disorder)</td>
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<tr>
<td>Non-pathogenic; Saprophyte (Secondary Agents; Saprophytes; Unspecif.)</td>
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<td><strong>Magnolia, Saucer (Magnolia x soulangiana)</strong></td>
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<tr>
<td>Anthracnose (Colletotrichum sp./spp.)</td>
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<td>Leaf spot (Pseudocercospora sp./spp.)</td>
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<td><strong>Magnolia, Southern (Magnolia grandiflora)</strong></td>
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<tr>
<td>Algal leaf spot (Cephaleuros virescens)</td>
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<tr>
<td>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</td>
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<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
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<tr>
<td>False oleander scale (Pseudaulacaspis cockerelli)</td>
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<tr>
<td>Lichenized algal leaf spot (Strigula sp./spp.)</td>
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<td>Whitefly (Family Aleyrodidae)</td>
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<tr>
<td><strong>Mazus (Mazus reptans)</strong></td>
<td>(4,7)</td>
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<tr>
<td>Common thrips (Family Thripidae)</td>
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<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Phytophthora root rot (Phytophthora cambivora)</td>
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<tr>
<td>Phytophthora root rot (Phytophthora cryptogea)</td>
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<td>Root-knot nematodes (Meloidogyne sp./spp.)</td>
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<tr>
<td><strong>Milkweed, Common (Asclepias syriaca)</strong></td>
<td>(1,2)</td>
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<td>Common thrips (Family Thripidae)</td>
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</tr>
<tr>
<td>Nutritional deficiency (Abiotic disorder)</td>
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<tr>
<td>Plant Name and Taxonomy</td>
<td>Disease Category</td>
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<td>Not Detected</td>
<td>Suspected</td>
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<tr>
<td>----------------------------------------------------------------------------</td>
<td>-----------------------------------------------</td>
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<tr>
<td><strong>Milkweed, prairie</strong> <em>Asclepias sullivantii</em> <em>(Host, Diagnosis/ID) (1,2)</em></td>
<td>Aphids; Plant lice <em>(Family Aphididae)</em></td>
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<tr>
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<td>Western flower thrips <em>(Frankliniella occidentalis)</em></td>
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<tr>
<td><strong>Milkweed, swamp Milkweed</strong> <em>Asclepias incarnata</em> <em>(Host, Diagnosis/ID) (1,1)</em></td>
<td>Nutritional deficiency <em>(Abiotic disorder)</em></td>
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<tr>
<td><strong>Millet, Japanese</strong> <em>Echinochloa esculenta</em> <em>(Host, Diagnosis/ID) (1,1)</em></td>
<td>Nutritional deficiency <em>(Abiotic disorder)</em></td>
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<tr>
<td><strong>Mondograss; Dwarf lily turf</strong> <em>Ophiopogon japonicus</em> <em>(Host, Diagnosis/ID) (3,6)</em></td>
<td>Anthracnose <em>(Colletotrichum sp./spp.)</em></td>
<td>2</td>
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<tr>
<td></td>
<td>False oleander scale <em>(Pseudaulacaspis cockerelli)</em></td>
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<tr>
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<td>Fern scale <em>(Pinnaspis aspidistrae)</em></td>
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<td>Fusarium root rot <em>(Fusarium sp./spp.)</em></td>
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<tr>
<td></td>
<td>Unspecified pathology <em>(Pythium sp./spp.)</em></td>
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<tr>
<td><strong>Morningglory; Ipomoea;</strong> <em>Ipomoea sp./spp.</em> <em>(Host, Diagnosis/ID) (1,1)</em></td>
<td>Sweetpotato weevil <em>(Cylas formicarius)</em></td>
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<tr>
<td><strong>Muhly Grass</strong> <em>(Muhlenbergia capillaris)</em> <em>(Host, Diagnosis/ID) (1,1)</em></td>
<td>Mealybug <em>(Stemmatomerinx acircula)</em></td>
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<tr>
<td><strong>New Guinea impatiens</strong> <em>(Impatiens hawkeri)</em> <em>(Host, Diagnosis/ID) (2,2)</em></td>
<td>Bacterial blight <em>(Unidentified Bacteria)</em></td>
<td>0</td>
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<td>Cultural/environmental problem <em>(Abiotic disorder)</em></td>
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<tr>
<td><strong>Northern white cedar</strong> <em>(Thuja occidentalis)</em> <em>(Host, Diagnosis/ID) (3,4)</em></td>
<td>Cultural/environmental problem <em>(Abiotic disorder)</em></td>
<td>0</td>
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<tr>
<td></td>
<td>Phytophthora root and crown rot <em>(Phytophthora cinnamomi)</em></td>
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<tr>
<td><strong>Oak</strong> <em>(Quercus sp./spp.)</em> <em>(Host, Diagnosis/ID) (7,15)</em></td>
<td>Cultural/environmental problem <em>(Abiotic disorder)</em></td>
<td>0</td>
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<td>3</td>
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<tr>
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<td>Cynipid gall wasps <em>(Acraspis sp./spp.)</em></td>
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<tr>
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<td>Dieback; Canker <em>(Diplodia sp./spp.)</em></td>
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<tr>
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<td>Discula anthracnose <em>(Discula sp./spp.)</em></td>
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<td>Leaf spot <em>(Tubakia sp./spp.)</em></td>
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<td>Lecanium scales <em>(Lecanium sp./spp.)</em></td>
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<tr>
<td>[Host,Diagnosis/ID]</td>
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<td>Not Detected</td>
<td>Suspected</td>
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<td>---------------------</td>
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<tr>
<td><strong>Oak (Quercus sp./spp.)</strong> &lt;br&gt; (7,15)</td>
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<tr>
<td>Oak leaf blister (Taphrina caerulescens)</td>
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<td>Obscure scale (Melanaspis obscura)</td>
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<td>Orangestriped oakworm (Anisota senatoria)</td>
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<td>Pine oak gall rust (Cronartium quercuum)</td>
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<td><strong>Oak, chestnut (Quercus prinus)</strong> &lt;br&gt; (1,1)</td>
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<tr>
<td>Gall wasps (Family Cynipidae)</td>
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<td><strong>Oak, English (Quercus robur)</strong> &lt;br&gt; (1,3)</td>
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<tr>
<td>Leaf spot (Tubakia sp./spp.)</td>
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<tr>
<td>Oak spider mite (Oligonychus bicolor)</td>
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<td>Powdery mildew (Oidium sp./spp.)</td>
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<td><strong>Oak, live (Quercus virginiana)</strong> &lt;br&gt; (5,9)</td>
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<tr>
<td>Anthracnose (Discula quercina)</td>
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<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>Excessive water (Abiotic disorder)</td>
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<td>Insect damage (Unidentified Insect)</td>
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<td>Mechanical damage (Abiotic disorder)</td>
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<tr>
<td>Oak lace bug (Corythucha arcuata)</td>
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</tr>
<tr>
<td>Oak leaf blister (Taphrina caerulescens)</td>
<td>1</td>
<td>0</td>
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</tr>
<tr>
<td>Root girdling (Abiotic disorder)</td>
<td>0</td>
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<tr>
<td><strong>Oak, northern red (Quercus rubra)</strong> &lt;br&gt; (3,4)</td>
<td></td>
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<tr>
<td>Anthracnose (Discula quercina)</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
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<tr>
<td>Polypore mushroom (Family Polyporaceae)</td>
<td>1</td>
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<tr>
<td>Wood rot fungus; Dryadeus root rot (Inonotus dryadeus)</td>
<td>0</td>
<td>0</td>
<td>1</td>
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<tr>
<td><strong>Oak, post (Quercus stellata)</strong> &lt;br&gt; (1,1)</td>
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<tr>
<td>Smooth patch (Aleurodiscus oakesii)</td>
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<tr>
<td><strong>Oak, red (Quercus falcata)</strong> &lt;br&gt; (4,5)</td>
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<tr>
<td>Eriophyid mites (Family Eriophyidae)</td>
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<tr>
<td>Excessive water (Abiotic disorder)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Leaf spot (Tubakia dryina)</td>
<td>1</td>
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<tr>
<td>Oak leaf blister (Taphrina caerulescens)</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Host, Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
<td>Undetermined</td>
</tr>
<tr>
<td>--------------------</td>
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<tr>
<td>Oak, sawtooth (Quercus acutissima) (Host, Diagnosis/ID) (1,2)</td>
<td>0</td>
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<tr>
<td>Herbicide drift (Abiotic disorder)</td>
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<tr>
<td>Mite damage (Unidentified Mite)</td>
<td>1</td>
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<td>Oak, water (Quercus nigra) (Host, Diagnosis/ID) (2,2)</td>
<td>1</td>
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<td>Oak wilt (Bretziella fagacearum)</td>
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<tr>
<td>Oak, white (Quercus alba) (Host, Diagnosis/ID) (2,2)</td>
<td>0</td>
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<tr>
<td>Stem canker (Phytophthora sp./spp.)</td>
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<tr>
<td>Undetermined injury (Identification Analysis)</td>
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<td>0</td>
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<tr>
<td>Oak, willow (Quercus phellos) (Host, Diagnosis/ID) (3,5)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td></td>
<td></td>
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<tr>
<td>Discula anthracnose (Discula sp./spp.)</td>
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<tr>
<td>Leaf spot (Tubakia sp./spp.)</td>
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<tr>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
<td>1</td>
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<tr>
<td>Tip dieback (Coryneum sp./spp.)</td>
<td>1</td>
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<tr>
<td>Oconee Bells (Shortia galacifolia) (Host, Diagnosis/ID) (1,1)</td>
<td>1</td>
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<tr>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
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<tr>
<td>Oleander (Nerium oleander) (Host, Diagnosis/ID) (1,1)</td>
<td>1</td>
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<tr>
<td>Oleander leaf scorch (Xylella fastidiosa)</td>
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<tr>
<td>Ornamental Onion (Allium sp./spp.) (Host, Diagnosis/ID) (1,1)</td>
<td>1</td>
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<tr>
<td>Blue mold rot (Penicillium sp./spp.)</td>
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<tr>
<td>Pachysandra (Pachysandra sp./spp.) (Host, Diagnosis/ID) (1,2)</td>
<td>1</td>
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<tr>
<td>Anthracnose (Anthracnose Colletotrichum sp./spp.)</td>
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<tr>
<td>Leaf and stem blight (Volutella pachysandracea)</td>
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<tr>
<td>Palms (Mixed species) (Host, Diagnosis/ID) (1,1)</td>
<td>0</td>
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<tr>
<td>Exfoliating bark (Abiotic disorder)</td>
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<tr>
<td>Palm, pindo; jelly palm (Butia capitata) (Host, Diagnosis/ID) (1,2)</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td></td>
<td></td>
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<tr>
<td>Leaf spot (Pestalotiopsis sp./spp.)</td>
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<tr>
<td>Palm, windmill (Trachycarpus fortunei) (Host, Diagnosis/ID) (3,3)</td>
<td>1</td>
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<tr>
<td>Needle blight; Leaf blight (Botryosphaeria sp./spp.)</td>
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<tr>
<td>No pathogen found (Identification Analysis)</td>
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<td>1</td>
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</tr>
<tr>
<td>Root problem (Unknown Cause)</td>
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</tr>
<tr>
<td>Plant</td>
<td>(Host, Diagnosis/ID)</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
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<tr>
<td>-------------------------------</td>
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<tr>
<td>Palmetto, dwarf (Sabal minor)</td>
<td>(1,1)</td>
<td>0</td>
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<tr>
<td></td>
<td>Sooty mold (Leptoxypium sp./spp.)</td>
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<tr>
<td>Pansy (Viola wittrockiana)</td>
<td>(2,3)</td>
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<tr>
<td></td>
<td>Black root rot (Thielaviopsis basicola)</td>
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<td></td>
<td>Insufficient sample (Identification Analysis)</td>
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<tr>
<td></td>
<td>Low pH; Nutrient imbalance (Abiotic disorder)</td>
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<tr>
<td>Pine (Pinus sp./spp.)</td>
<td>(2,3)</td>
<td>1</td>
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<tr>
<td></td>
<td>Cerambycid sawyer beetle (Monochamus sp./spp.)</td>
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<tr>
<td></td>
<td>Indian bread; Matsuhoda (Wolfiporia extensa)</td>
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<tr>
<td></td>
<td>Pine engraver (Ips pini)</td>
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<tr>
<td>Pine, eastern white (Pinus strobus)</td>
<td>(1,1)</td>
<td>1</td>
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<tr>
<td></td>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
<td></td>
<td></td>
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<tr>
<td>Pine, lacebark (Pinus bungeana)</td>
<td>(1,3)</td>
<td>1</td>
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<tr>
<td></td>
<td>Rhizosphaera needle cast (Rhizosphaera sp./spp.)</td>
<td></td>
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<tr>
<td></td>
<td>Undetermined injury (Identification Analysis)</td>
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<td>0</td>
<td>1</td>
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<tr>
<td></td>
<td>Wood boring beetles (Order Coleoptera)</td>
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<tr>
<td>Pine, Japanese Black (Pinus thunbergiana)</td>
<td>(2,4)</td>
<td>1</td>
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</tr>
<tr>
<td></td>
<td>Brown spot; Needle blight (Mycosphaerella dearnessii)</td>
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<tr>
<td></td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td></td>
<td>Needle cast (Unidentified Agent)</td>
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</tr>
<tr>
<td></td>
<td>Rhizosphaera needle cast (Rhizosphaera sp./spp.)</td>
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</tr>
<tr>
<td>Pine, Japanese red (Pinus densiflora)</td>
<td>(1,4)</td>
<td>1</td>
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<tr>
<td></td>
<td>Anthracnose needle blight (Colletotrichum sp./spp.)</td>
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<tr>
<td></td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>0</td>
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<tr>
<td></td>
<td>Diplodia blight (Sphaeropsis sapinea)</td>
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<tr>
<td></td>
<td>Needle cast (Unidentified Agent)</td>
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<td>0</td>
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</tr>
<tr>
<td>Pine, loblolly (Pinus taeda)</td>
<td>(1,1)</td>
<td>0</td>
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<td>0</td>
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<tr>
<td></td>
<td>No pathogen found (Identification Analysis)</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Pine, Virginia (Pinus virginiana)</td>
<td>(1,1)</td>
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<tr>
<td></td>
<td>Pine oak gall rust (Cronartium quercuum)</td>
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<tr>
<td>Peony (Paeonia sp./spp.)</td>
<td>(1,1)</td>
<td>1</td>
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</tr>
<tr>
<td></td>
<td>Botrytis blight (Botrytis sp./spp.)</td>
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<tr>
<td>Plant</td>
<td>Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
</tr>
<tr>
<td>---------------------------</td>
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<tr>
<td>Phlox, Downy (Phlox pilosa)</td>
<td>(Host,Diagnosis/ID) (1,1)</td>
<td>Root-knot nematodes (Meloidogyne sp./spp.)</td>
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<td>0</td>
</tr>
<tr>
<td>Podocarpus; Japanese Yew (Podocarpus sp./spp.)</td>
<td>(Host,Diagnosis/ID) (2,2)</td>
<td>Crown and root rot (Phytophthora sp./spp.)</td>
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<td>0</td>
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<tr>
<td></td>
<td></td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Plum-yew (Cephalotaxus harringtonia)</td>
<td>(Host,Diagnosis/ID) (1,1)</td>
<td>Aerial blight (Rhizoctonia sp./spp.)</td>
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<tr>
<td>Poinsettia (Euphorbia pulcherrima)</td>
<td>(Host,Diagnosis/ID) (2,2)</td>
<td>Bacterial canker of poinsettia (Curtobacterium flaccumfaciens pv. poinsettiae)</td>
<td>1</td>
<td>0</td>
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<tr>
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<td></td>
<td>Pythium root and/or crown rot (Pythium sp./spp.)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Potting Soil; growing media (General (nursery))</td>
<td>(Host,Diagnosis/ID) (1,2)</td>
<td>Unspecified pathology (Phytophthora sp./spp.)</td>
<td>0</td>
<td>1</td>
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<tr>
<td></td>
<td></td>
<td>No pathogen found (Identification Analysis)</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Privet; Ligustrum (Ligustrum sp./spp.)</td>
<td>(Host,Diagnosis/ID) (5,8)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
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<tr>
<td></td>
<td></td>
<td>Glyphosate injury (Abiotic disorder)</td>
<td>0</td>
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</tr>
<tr>
<td></td>
<td></td>
<td>Leaf spot (Pseudocercospora sp./spp.)</td>
<td>2</td>
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<td></td>
<td>No pathogen found (Identification Analysis)</td>
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<tr>
<td></td>
<td></td>
<td>Nutrient imbalance (Abiotic disorder)</td>
<td>0</td>
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<td></td>
<td>Salt damage (Abiotic disorder)</td>
<td>0</td>
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<td></td>
<td>Spider mite (Tetranychus sp./spp.)</td>
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<tr>
<td>Privet (Ligustrum sp./spp.)</td>
<td>(Host,Diagnosis/ID) (3,4)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>Leaf spot (Pseudocercosporella sp./spp.)</td>
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<tr>
<td></td>
<td></td>
<td>Unspecified pathology (Phytophthora sp./spp.)</td>
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<td></td>
<td>Whiteflies (Family Aleyrodidae)</td>
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<tr>
<td>Privet, Chinese (Ligustrum sinense)</td>
<td>(Host,Diagnosis/ID) (1,2)</td>
<td>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</td>
<td>1</td>
<td>0</td>
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<td></td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
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</tr>
<tr>
<td>Plant Name</td>
<td>Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
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<td>----------------------------------</td>
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<tr>
<td>Privet, glossy (Ligustrum lucidum) (Host, Diagnosis/ID) (2,3)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td></td>
<td>Leaf spot (Pseudocercospora sp./spp.)</td>
<td>2</td>
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<tr>
<td>Privet, Japanese (Ligustrum japonicum) (Host, Diagnosis/ID) (1,1)</td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
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<td>1</td>
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<tr>
<td>Privet, Wax-leaf (Ligustrum texanum) (Host, Diagnosis/ID) (2,4)</td>
<td>Drainage problem (Abiotic disorder)</td>
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<td>0</td>
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<tr>
<td></td>
<td>Glyphosate injury (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Leaf spot (Pseudocercospora sp./spp.)</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>No pathogen found (Identification Analysis)</td>
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<td>1</td>
<td>0</td>
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<tr>
<td>Red-hot Poker (Kniphofia sp./spp.) (Host, Diagnosis/ID) (1,1)</td>
<td>Bacterial soft rot (Unidentified Bacterium)</td>
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<td>0</td>
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<tr>
<td>Redwood (Sequoia sempervirens) (Host, Diagnosis/ID) (1,1)</td>
<td>Anthracnose needle blight (Colletotrichum sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>River Birch (Betula nigra) (Host, Diagnosis/ID) (3,5)</td>
<td>Basidiomycete (Unidentified Basidiomycete)</td>
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<tr>
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<td>Cerambycid beetles (Family Cerambycidae)</td>
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<tr>
<td></td>
<td>Phomopsis leaf spot (Phomopsis sp./spp.)</td>
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<td>0</td>
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<tr>
<td></td>
<td>Psyllids (Family Psyllidae)</td>
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<tr>
<td></td>
<td>Spiny witch-hazel aphid (Hamamelistes spinosus)</td>
<td>1</td>
<td>0</td>
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</tr>
<tr>
<td>Rose (Rosa sp./spp.) (Host, Diagnosis/ID) (7,10)</td>
<td>Black spot (Rose) (Diplocarpon rosae)</td>
<td>1</td>
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<tr>
<td></td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td></td>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
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</tr>
<tr>
<td></td>
<td>Japanese beetle (Popillia japonica)</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)</td>
<td>1</td>
<td>0</td>
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</tr>
<tr>
<td></td>
<td>Rose downy mildew (Peronospora sparsa)</td>
<td>0</td>
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<tr>
<td></td>
<td>Rose mosaic (PNRSV) (Ilarvirus Prunus Necrotic Ringspot Virus)</td>
<td>0</td>
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<td></td>
<td>Rose rosette disease (RRV) (Emaravirus Rose Rosette Virus)</td>
<td>0</td>
<td>2</td>
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<td></td>
<td>Rose scale (Aulacaspis rosae)</td>
<td>1</td>
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<tr>
<td>Rhododendron, native (Rhododendron catawbiense) (Host, Diagnosis/ID) (1,1)</td>
<td>Phytophthora basal canker (Phytophthora cinnamomi)</td>
<td>1</td>
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</tr>
<tr>
<td>Species</td>
<td>Diagnosis/ID (Host, Diagnosis/ID)</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
</tr>
<tr>
<td>-------------------------------------</td>
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<tr>
<td><strong>Sago Palm</strong> (Cycas revoluta)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Mechanical damage (Abiotic disorder)</td>
<td></td>
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<tr>
<td><strong>Sawara Falsecypress</strong> (Chamaecyparis pisifera)</td>
<td>(Host, Diagnosis/ID) (1,2)</td>
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<tr>
<td>Anthracnose needle blight (Colletotrichum sp./spp.)</td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td></td>
<td>0</td>
<td>0</td>
<td>1</td>
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<tr>
<td><strong>Sedge, Japanese</strong> (Carex morrowii)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Anthracnose (Colletotrichum sp./spp.)</td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td><strong>Shooting Stars</strong> (Liatris sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td></td>
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<tr>
<td>Southern red mite (Oligonychus ilicis)</td>
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<td>0</td>
<td>0</td>
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<tr>
<td><strong>Spice Bush</strong> (Lindera benzoin)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td></td>
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</tr>
<tr>
<td>No pathogen found (Identification Analysis)</td>
<td></td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td><strong>Spider Flower</strong> (Cleome sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,3)</td>
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<tr>
<td>Cercospora stem blight (Cercospora sp./spp.)</td>
<td></td>
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<tr>
<td>Root-knot nematodes (Meloidogyne sp./spp.)</td>
<td></td>
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<tr>
<td>Southern stem rot (Sclerotium rolfsii)</td>
<td></td>
<td>1</td>
<td>0</td>
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<tr>
<td><strong>Spirea</strong> (Spiraea sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td></td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>1</td>
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<tr>
<td><strong>Spruce, Colorado blue</strong> (Picea pungens fastigiata)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Diplodia blight (Sphaeropsis sapinea)</td>
<td></td>
<td>1</td>
<td>0</td>
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<tr>
<td><strong>Sugarberry, Sugar Hackberry</strong> (Celtis laevigata)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
<td></td>
<td></td>
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<tr>
<td>Aphids; Plant lice (Family Aphididae)</td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td><strong>Tea olive; Sweet Olive</strong> (Osmanthus fragrans)</td>
<td>(Host, Diagnosis/ID) (5,6)</td>
<td></td>
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<tr>
<td>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</td>
<td></td>
<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td></td>
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<td>0</td>
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<tr>
<td>Environmental stress; Problem (Abiotic disorder)</td>
<td></td>
<td>0</td>
<td>0</td>
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<tr>
<td>Herbicide injury; Exposure (Abiotic disorder)</td>
<td></td>
<td>0</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Insufficient sample (Identification Analysis)</td>
<td></td>
<td>0</td>
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<tr>
<td><strong>Toad Lily</strong> (Tricyrtis sp./spp.)</td>
<td>(Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Plant Species</td>
<td>(Host, Diagnosis/ID)</td>
<td>(Confirmed, Not Detected, Suspected, Undetermined)</td>
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<tr>
<td>---------------</td>
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<td>-----------------------------------------------</td>
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<tr>
<td>Tulip Tree (Liriodendron tulipifera)</td>
<td>(2,2)</td>
<td>(0, 0, 1, 0)</td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>Bacterial wetwood; Slime flux (Various Pathogens)</strong></td>
<td>0</td>
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</tr>
<tr>
<td></td>
<td><strong>Herbicide drift (Abiotic disorder)</strong></td>
<td>0</td>
<td></td>
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<tr>
<td>Turtlehead (Chelone sp./spp.)</td>
<td>(1,2)</td>
<td>(1, 0, 0, 0)</td>
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<tr>
<td></td>
<td><strong>Anthracnose (Colletotrichum sp./spp.)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Leaf spot (Phylllosticta sp./spp.)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Verbena; Hoary vervain (Verbena stricta)</td>
<td>(1,1)</td>
<td>(1, 0, 0, 0)</td>
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<tr>
<td></td>
<td><strong>Tortricid leafrollers (Family Tortricidae)</strong></td>
<td>1</td>
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<tr>
<td>Viburnum (Viburnum sp./spp.)</td>
<td>(8,12)</td>
<td>(1, 0, 0, 0)</td>
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<tr>
<td></td>
<td><strong>Anthracnose (Colletotrichum sp./spp.)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Armillaria root rot (Armillaria sp./spp.)</strong></td>
<td>1</td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>Cultural/environmental problem (Abiotic disorder)</strong></td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</strong></td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>False oleander scale (Pseudaulacaspis cockerelli)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Fungal pathogens (General)</strong></td>
<td>0</td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>Glyphosate injury (Abiotic disorder)</strong></td>
<td>0</td>
<td></td>
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</tr>
<tr>
<td></td>
<td><strong>Phylllosticta leaf spot (Phylllosticta sp./spp.)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Viburnum downy mildew (Plasmopara viburnii)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Viburnum, Japanese Snowball (Viburnum plicatum)</td>
<td>(1,1)</td>
<td>(0, 0, 1, 0)</td>
<td></td>
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<tr>
<td></td>
<td><strong>Chemical; Environmental injury (Abiotic disorder)</strong></td>
<td>0</td>
<td></td>
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<tr>
<td>Viburnum, Sandankwa (Viburnum suspensum)</td>
<td>(1,1)</td>
<td>(0, 0, 1, 0)</td>
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<tr>
<td></td>
<td><strong>Nutrient imbalance (Abiotic disorder)</strong></td>
<td>0</td>
<td></td>
<td></td>
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<tr>
<td>Viburnum, Sweet (Viburnum odoratissimum)</td>
<td>(1,2)</td>
<td>(0, 0, 1, 0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Nutrient imbalance (Abiotic disorder)</strong></td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Viburnum leaf beetle (Pyrrhalta viburni)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Violas (violet; pansy) (Viola sp./spp.)</td>
<td>(1,1)</td>
<td>(1, 0, 0, 0)</td>
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</tr>
<tr>
<td></td>
<td><strong>Black root rot (Thielaviopsis basicola)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wax myrtle, Southern bayberry; (Myrica cerifera)</td>
<td>(3,5)</td>
<td>(1, 0, 0, 0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</strong></td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Host, Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
<td>Undetermined</td>
</tr>
<tr>
<td>--------------------</td>
<td>-----------</td>
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<td>-----------</td>
<td>--------------</td>
</tr>
<tr>
<td><strong>Wax myrtle, Southern bayberry; (Myrica cerifera)</strong> (Host,Diagnosis/ID) (3,5)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Anthracnose; Twig dieback (Colletotrichum sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Herbicide drift (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Leaf spot (Phyllosticta sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td><strong>Weeping Lovegrass (Eragrostis curvula)</strong> (Host,Diagnosis/ID) (1,1)</td>
<td></td>
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<tr>
<td>Gray leaf spot (Pyricularia grisea)</td>
<td>1</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td><strong>Weeping Willow (Salix sepulcralis)</strong> (Host,Diagnosis/ID) (1,1)</td>
<td></td>
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</tr>
<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Weigela (Weigela sp./spp.)</strong> (Host,Diagnosis/ID) (2,3)</td>
<td></td>
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</tr>
<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>No pathogen found (Identification Analysis)</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Pythium root and/or crown rot (Pythium sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td><strong>Winged Elm (Ulmus alata)</strong> (Host,Diagnosis/ID) (1,1)</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Wintercreeper (Euonymus fortunei)</strong> (Host,Diagnosis/ID) (1,1)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Cylindrocladium blight (Calonectria sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td><strong>Yew (Taxus sp./spp.)</strong> (Host,Diagnosis/ID) (2,3)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Trunk girdling (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td><strong>Zelkova (Zelkova sp./spp.)</strong> (Host,Diagnosis/ID) (1,1)</td>
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<tr>
<td>Leaf spot (Pseudocercospora sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td><strong>Zelkova, Japanese (Zelkova serrata 'Village Green')</strong> (Host,Diagnosis/ID) (2,2)</td>
<td></td>
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<tr>
<td>Cercospora leaf spot (Cercospora sp./spp.)</td>
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<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Leaf spot (Pseudocercospora sp./spp.)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Host</td>
<td>Diagnosis/ID</td>
<td>Confirmed</td>
<td>Not Detected</td>
<td>Suspected</td>
</tr>
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<td>----------------------------------</td>
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<td>-----------</td>
</tr>
<tr>
<td><strong>Ash (Fraxinus sp./spp.)</strong></td>
<td>(Host, Diagnosis/ID)</td>
<td>(2 samples, 2 diagnoses)</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Emerald ash borer (Agrilus planipennis)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Black Walnut (Juglans nigra)</strong></td>
<td>(Host, Diagnosis/ID)</td>
<td>(1,1)</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Thousand cankers disease (Geosmithia morbida)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Boxwood (Buxus sp./spp.)</strong></td>
<td>(Host, Diagnosis/ID)</td>
<td>(28,37)</td>
<td>0</td>
<td>5</td>
</tr>
<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
<td></td>
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<td></td>
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<tr>
<td><strong>Boxwood, Common (Buxus sempervirens)</strong></td>
<td>(Host, Diagnosis/ID)</td>
<td>(10,15)</td>
<td>0</td>
<td>4</td>
</tr>
<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
<td></td>
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<td></td>
<td></td>
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<tr>
<td><strong>Boxwood, Edging (Buxus sempervirens suffruticosa)</strong></td>
<td>(Host, Diagnosis/ID)</td>
<td>(4,7)</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Boxwood, Japanese (Buxus microphylla var. japonica)</strong></td>
<td>(Host, Diagnosis/ID)</td>
<td>(5,8)</td>
<td>0</td>
<td>2</td>
</tr>
<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td><strong>Boxwood, Korean (Buxus sinica)</strong></td>
<td>(Host, Diagnosis/ID)</td>
<td>(2,4)</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Boxwood, Littleleaf (Buxus microphylla)</strong></td>
<td>(Host, Diagnosis/ID)</td>
<td>(3,5)</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Boxwood blight; Leaf and stem blight (Calonectria pseudonaviculata)</td>
<td></td>
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<tr>
<td>Plant Id request (general) (Host, Diagnosis/ID)</td>
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<tr>
<td>------------------------------------------------</td>
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<tr>
<td>Fig Buttercup (Ficaria verna)</td>
<td>3 0 0 0 0</td>
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<tr>
<td>Tropical soda apple (Solanum viarum)</td>
<td>1 0 0 0 0</td>
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<table>
<thead>
<tr>
<th>Roadside (habitat) (Host, Diagnosis/ID) (1,1)</th>
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<tbody>
<tr>
<td>Cogongrass (Imperata cylindrica)</td>
<td>1 0 0 0 0</td>
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<table>
<thead>
<tr>
<th>Sweetpotato (Ipomoea batatas) (Host, Diagnosis/ID) (4,4)</th>
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<tbody>
<tr>
<td>Sweetpotato weevil (Cylas formicarius)</td>
<td>3 0 0 0 0</td>
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<tr>
<td>Diagnoses and Identifications in Turfgrasses</td>
<td>Confirmed</td>
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<tr>
<td>--------------------------------------------</td>
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<tr>
<td>Bentgrass <em>(Agrostis sp./spp.)</em> (Host,Diagnosis/ID) (2 samples, 4 diagnoses)</td>
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<tr>
<td>Anthracnose <em>(Colletotrichum sp./spp.)</em></td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Dollar spot <em>(Sclerotinia homeocarpa)</em></td>
<td>1</td>
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<tr>
<td>Leptosphaerulina leaf blight <em>(Leptosphaerulina australis)</em></td>
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<tr>
<td>Bermudagrass <em>(Cynodon dactylon)</em> (Host,Diagnosis/ID) (1,1)</td>
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<tr>
<td>No pathogen found (Identification Analysis)</td>
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<tr>
<td>Bermudagrass <em>(Cynodon sp./spp.)</em> (Host,Diagnosis/ID) (45,66)</td>
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<td>Additional sample requested (Identification Analysis)</td>
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<td>Algae (General)</td>
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<tr>
<td>Annual bluegrass <em>(Poa annua)</em></td>
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<tr>
<td>Annual ryegrass; Italian ryegrass <em>(Lolium perenne multiflorum)</em></td>
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<tr>
<td>Anthracnose <em>(Colletotrichum sp./spp.)</em></td>
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<tr>
<td>Bahiagrass <em>(Paspalum notatum)</em></td>
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<tr>
<td>Bermudagrass mite <em>(Eriophyes cynodoniensis)</em></td>
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<tr>
<td>Bermudagrass scale <em>(Odonaspis ruthae)</em></td>
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</tr>
<tr>
<td>Bluejacket <em>(Tradescantia ohiensis)</em></td>
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<tr>
<td>Bluestems <em>(Andropogon spp.)</em> ()</td>
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</tr>
<tr>
<td>Problem Description</td>
<td>Count</td>
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<tr>
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<tr>
<td>Crabgrass (Digitaria sp./spp.)</td>
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<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Dollar spot (Clarierea homoeocarpa)</td>
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<tr>
<td>Dollar spot (Sclerotinia homeocarpa)</td>
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<tr>
<td>Environmental stress; Problem (Abiotic disorder)</td>
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<tr>
<td>Epazote (Dysphania ambrosioides)</td>
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<tr>
<td>ETRI ectotrophic root infecting fungi (Complex of Fungi)</td>
<td>2</td>
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<tr>
<td>Fairy ring (Various Fungi)</td>
<td>0</td>
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<tr>
<td>Fingerleaf Paspalum; Thin Paspalum (Paspalum setaceum)</td>
<td>1</td>
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<tr>
<td>Hydrophobic soil/planting mix/media (Abiotic disorder)</td>
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<tr>
<td>Insect damage (Unidentified Insect)</td>
<td>0</td>
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<tr>
<td>Insufficient light (Abiotic disorder)</td>
<td>1</td>
</tr>
<tr>
<td>Insufficient sample (Identification Analysis)</td>
<td>0</td>
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<tr>
<td>Largeleaf marshpennywort (Hydrocotyle bowlesioides)</td>
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<tr>
<td>Leaf rust; Rust (Puccinia sp./spp.)</td>
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<tr>
<td>Leaf spot (Bipolaris sp./spp.)</td>
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<tr>
<td>Leaf spot (Exserohilum rostratum)</td>
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<tr>
<td>Leaf spot; Leaf blight (Exserohilum rostratum)</td>
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<tr>
<td>Leptosphaerulina leaf spot (Leptosphaerulina sp./spp.)</td>
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<tr>
<td>Nakedstem dewflower (Murdannia nudiflora)</td>
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<tr>
<td>Perennial ryegrass (Lolium perenne)</td>
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<tr>
<td>Pink snow mold; Monographella patch (Monographella nivalis)</td>
<td>2</td>
</tr>
<tr>
<td>Condition</td>
<td>Code</td>
</tr>
<tr>
<td>--------------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Poor leaf emergence (Abiotic disorder)</td>
<td>0</td>
</tr>
<tr>
<td>Pythium blight; Cottony blight (Pythium sp./spp.)</td>
<td>1</td>
</tr>
<tr>
<td>Pythium root and/or crown rot (Pythium sp./spp.)</td>
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<tr>
<td>Rescuegrass (Bromus catharticus)</td>
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<tr>
<td>Root decline of warm season grasses (Gaeumannomyces graminis var. graminis)</td>
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<tr>
<td>Root problems (Abiotic disorder)</td>
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<tr>
<td>Root-knot nematodes (Meloidogyne sp./spp.)</td>
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<tr>
<td>Sixweeks fescue (Vulpia (Festuca octoflora)</td>
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<tr>
<td>Slender parsley piert (Aphanes microcarpa)</td>
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<tr>
<td>Sting nematodes (Belonolaimus sp./spp.)</td>
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</tr>
<tr>
<td>Turfgrass necrotic ring spot (Ophiophaerella korrae)</td>
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**Centipedegrass (Eremochloa ophiuroides)**

*Host, Diagnosis/ID* (112,159)

<table>
<thead>
<tr>
<th>Condition</th>
<th>Code</th>
<th>Type</th>
<th>Diagnosis</th>
<th>ID</th>
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<tbody>
<tr>
<td>Armyworms; General (Family Noctuidae)</td>
<td>0</td>
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<tr>
<td>Baldwin’s sedge (Cyperus croceus)</td>
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<tr>
<td>Bermudagrass scale (Odonaspis ruthae)</td>
<td>5</td>
<td>0</td>
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<tr>
<td>Cat’s Ear (Hypocharis sp./spp.)</td>
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<tr>
<td>Chemical; Environmental injury (Abiotic disorder)</td>
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<tr>
<td>Criconemoides ring nematodes (Criconemoides sp./spp.)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>0</td>
<td>28</td>
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<tr>
<td>Curvularia blight; Leaf spot (Curvularia sp./spp.)</td>
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<td>Dollar spot (Sclerotinia homeocarpa)</td>
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<td>Earthworms (Phylum Annelida; Subclass Oligochaeta)</td>
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<td>Excessive water (Abiotic disorder)</td>
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<tr>
<td>Fairy ring (Various Fungi)</td>
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<tr>
<td>Field burrweed; Spurweed (Soliva sessilus (pterosperma))</td>
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<td>Fingerleaf Paspalum; Thin Paspalum (Paspalum setaceum)</td>
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<td>Herbicide injury; Exposure (Abiotic disorder)</td>
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<tr>
<td>Hydrophobic soil/planting mix/media (Abiotic disorder)</td>
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<tr>
<td>Insect damage (Unidentified Insect)</td>
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<td>0</td>
<td>1</td>
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<tr>
<td>Insufficient light (Abiotic disorder)</td>
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<td>2</td>
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<tr>
<td>Large patch (Rhizoctonia solani)</td>
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<tr>
<td>Localized dry spot (Abiotic Disorder)</td>
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<tr>
<td>Low soil moisture (Abiotic disorder)</td>
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<td>Nimblewill (Muhlenbergia schreberi)</td>
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<td>Nutrient imbalance (Abiotic disorder)</td>
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<tr>
<td>Nutritional deficiency (Abiotic disorder)</td>
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<tr>
<td>Perennial ryegrass (Lolium perenne)</td>
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<td>Plant parasitic nematodes (Unspecified Genera)</td>
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<tr>
<td>Poor leaf emergence (Abiotic disorder)</td>
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<td>10</td>
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<tr>
<td>Pythium blight; Cottony blight (Pythium sp./spp.)</td>
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<tr>
<td>Condition</td>
<td>Column 1</td>
<td>Column 2</td>
<td>Column 3</td>
<td>Column 4</td>
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<td>Rhodesgrass mealybug (Antonina graminis)</td>
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<td>Ring nematode (Mesocriconema sp/spp.)</td>
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<tr>
<td>Root problem (Unknown Cause)</td>
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<td>5</td>
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<tr>
<td>Root problems (Abiotic disorder)</td>
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<tr>
<td>Root-knot nematodes (Meloidogyne sp./spp.)</td>
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<tr>
<td>Sheath blight (Rhizoctonia sp./spp.)</td>
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<td>Slime mold (Class Myxogastria; Mycetozoa)</td>
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<td>Slime mold (Class Myxomycetes; Myxomycota)</td>
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<td>Soil compaction (Abiotic disorder)</td>
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<td>Southern masked chafer (Cyclocephala lurida (immaculata))</td>
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<td>Sting nematodes (Belonolaimus sp./spp.)</td>
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<tr>
<td><strong>Fescues (Festuca spp) (Host,Diagnosis/ID)</strong></td>
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<tr>
<td>(4,8)</td>
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<tr>
<td>Anthracnose (Colletotrichum sp./spp.)</td>
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<td>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</td>
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<tr>
<td>Brown patch (Rhizoctonia solani)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Leaf spot; Blight (Myrothecium sp./spp.)</td>
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<td><strong>Fescue, tall (Festuca arundinacea) (Host,Diagnosis/ID) (2,3)</strong></td>
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<td>Anthracnose (Apiognomonia sp./spp.)</td>
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<td>Pathogen/Problem</td>
<td>Count 1</td>
<td>Count 2</td>
<td>Count 3</td>
<td>Count 4</td>
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<td>------------------</td>
<td>---------</td>
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<tr>
<td>Anthracnose (Colletotrichum sp./spp.)</td>
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<td>0</td>
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<td>Leaf rust; Rust (Puccinia sp./spp.)</td>
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<td><strong>Ryegrass (Lolium sp./spp.)</strong>&lt;br&gt;<em>(Host, Diagnosis/ID) (1,1)</em></td>
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<td>Powdery mildew (Erysiphe graminis f.sp. secalis)</td>
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<tr>
<td><strong>St. Augustinegrass (Stenotaphrum secundatum)</strong>&lt;br&gt;<em>(Host, Diagnosis/ID) (57,87)</em></td>
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<tr>
<td>Chinch bug complex (Blissus sp./spp.)</td>
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<td>Cultural/environmental problem (Abiotic disorder)</td>
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<td>0</td>
<td>9</td>
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<tr>
<td>Fairy ring (Various Fungi)</td>
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<tr>
<td>Fusarium basal rot (Fusarium sp./spp.)</td>
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<tr>
<td>Gray leaf spot (Pyricularia grisea)</td>
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<td>7</td>
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<tr>
<td>Hairy chinch bug (Blissus leucopterus)</td>
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<tr>
<td>High pH damage (Abiotic disorder)</td>
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<tr>
<td>Hydrophobic soil/planting mix/media (Abiotic disorder)</td>
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<td>0</td>
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<tr>
<td>Large patch (Rhizoctonia solani)</td>
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<td>1</td>
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<tr>
<td>No pathogen found (Identification Analysis)</td>
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<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Nutrient imbalance (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
<td>6</td>
<td>0</td>
</tr>
<tr>
<td>Poor leaf emergence (Abiotic disorder)</td>
<td>3</td>
<td>0</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Rhodesgrass mealybug (Antonina graminis)</td>
<td>2</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Root problem (Unknown Cause)</td>
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<td>0</td>
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</tr>
<tr>
<td>Root problems (Abiotic disorder)</td>
<td>1</td>
<td>0</td>
<td>0</td>
<td>0</td>
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</tbody>
</table>
Salt damage (Abiotic disorder)  | 0 | 0 | 1 | 0 |
Sheath blight (Rhizoctonia sp./spp.) | 1 | 0 | 0 | 0 |
Undetermined injury (Identification Analysis) | 0 | 0 | 0 | 0 |

**Turfgrass (Turfgrass mixed species)**

*(Host, Diagnosis/ID) (9,13)*

- Bentgrass (Agrostis sp./spp.) | 0 | 0 | 1 | 0 |
- Bermudagrass scale (Odonaspis ruthae) | 2 | 0 | 0 | 0 |
- Blue-green algae/cyanobacteria (Nostoc) | 1 | 0 | 0 | 0 |
- Environmental stress; Problem (Abiotic disorder) | 0 | 0 | 2 | 0 |
- Fall armyworm (Spodoptera frugiperda) | 0 | 0 | 1 | 0 |
- Gray leaf spot (Pyricularia grisea) | 1 | 0 | 0 | 0 |
- Insufficient sample (Identification Analysis) | 0 | 0 | 0 | 1 |
- Leafhoppers (Family Cicadellidae) | 1 | 0 | 0 | 0 |
- Nostoc (Nostoc sp./spp.) | 1 | 0 | 0 | 0 |
- Slime mold (Class Myxogastria; Mycetozoa) | 2 | 0 | 0 | 0 |

**Zoysia Grass (Zoysia sp./spp.)**

*(Host, Diagnosis/ID) (43,62)*

- Abnormal root development (Unidentified Agent) | 0 | 0 | 0 | 1 |
- Anthracnose (Colletotrichum sp./spp.) | 1 | 0 | 0 | 0 |
- Crown rot (Rhizoctonia sp./spp.) | 1 | 0 | 0 | 0 |
- Cultural/environmental problem (Abiotic disorder) | 2 | 0 | 10 | 0 |
- Curvularia blight; Leaf spot (Curvularia sp./spp.) | 4 | 0 | 0 | 0 |
- Dense thatch layer (Abiotic disorder) | 5 | 0 | 0 | 0 |
<table>
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<th>Condition</th>
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<td>Dollar spot (Clarireedia homoeocarpa)</td>
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<td>Dollar spot (Sclerotinia homeocarpa)</td>
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<td>Fairy ring (Various Fungi)</td>
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<td>Hydrophobic soil/planting mix/media (Abiotic disorder)</td>
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<td>Large patch (Rhizoctonia solani)</td>
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<td>Leaf and sheath spot (Rhizoctonia oryzae)</td>
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<td>Leaf rust; Rust (Puccinia sp./spp.)</td>
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<td>Nimblewill (Muhlenbergia schreberi)</td>
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<td>Poor leaf emergence (Abiotic disorder)</td>
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<td>Plant Name</td>
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<td><strong>Arugula (Eruca vesicaria)</strong></td>
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<td>Fungus gnats (Mycetophilidae fam.)</td>
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<td>Pythium root and/or crown rot (Pythium sp./spp.)</td>
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<td>Damping off (Fusarium sp./spp.)</td>
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<td>Pythium damping off (Pythium sp./spp.)</td>
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<td><strong>Lavender (Lavandula sp./spp.)</strong></td>
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<td>Botrytis blight (Botrytis sp./spp.)</td>
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<td>Phytophthora crown and/or root rot (Phytophthora nicotianae)</td>
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<td>Poor root development (Abiotic disorder)</td>
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<td><strong>Lavender, English (Lavandula angustifolia)</strong></td>
<td>(21,23)</td>
<td>Unspecified pathology (Phytophthora nicotianae)</td>
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<td>Unspecified pathology (Phytopythium sp./spp.)</td>
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<td>(21,23)</td>
<td>Phytophthora crown and/or root rot (Phytophthora nicotianae)</td>
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<td>Count 2</td>
<td>Count 3</td>
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<td>Unspecified pathology (Phytophthora nicotianae)</td>
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<td><strong>Lavender, French (Lavandula angustifolia)</strong></td>
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<td><em>(Host,Diagnosis/ID) (1,1)</em></td>
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<td>Phytophthora crown and/or root rot (Phytophthora nicotianae)</td>
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<td><strong>Lavender, French (Lavendula angustifolia angusti)</strong></td>
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<td><em>(Host,Diagnosis/ID) (22,23)</em></td>
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<td>Leaf /stem/twig blight; Rot; Gray mold (Botrytis cinerea)</td>
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<td>Unspecified pathology (Phytophthora nicotianae)</td>
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<td><strong>Lavender x intermedia (Lavandula x intermedia)</strong></td>
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<td><em>(Host,Diagnosis/ID) (2,3)</em></td>
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<td>Pythium root dysfunction (Pythium sp./spp.)</td>
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<td><strong>Kale (Brassica oleracea acephala)</strong> <em>(Host,Diagnosis/ID) (1,1)</em></td>
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<td>Alternaria leaf spot (Alternaria sp./spp.)</td>
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<td><strong>Napa; Chinese cabbage (Brassica pekinensis)</strong></td>
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<tr>
<td><em>(Host,Diagnosis/ID) (1,1)</em></td>
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<tr>
<td>Crucifer bacterial leaf spot (Pseudomonas syringae pv. maculicola)</td>
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<td><strong>Okra (Abelmoschus esculentus)</strong> <em>(Host,Diagnosis/ID) (2,3)</em></td>
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<tr>
<td>Fusarium wilt; Fusarium wilt complex (Fusarium sp./spp.)</td>
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<td>Herbicide drift (Abiotic disorder)</td>
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<td>Plant and Disease/Disorder Description</td>
<td>Host (Scientific Name)</td>
<td>Diagnosis (Diagnosis Type)</td>
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<tr>
<td>Root-knot nematodes (Meloidogyne sp./spp.)</td>
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<td>Parsley (Petroselinum crispum) (Host, Diagnosis/ID) (1,1)</td>
<td>0 0 0 1</td>
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<tr>
<td>Bacterial soft rot (Unidentified Bacterium)</td>
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<td>Garden Pea (Pisum sativum) (Host, Diagnosis/ID) (1,2)</td>
<td>1 0 0 0</td>
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<tr>
<td>Aphids; Plant lice (Family Aphididae)</td>
<td>0 0 1 0</td>
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<tr>
<td>Nutritional deficiency (Abiotic disorder)</td>
<td>0 0 1 0</td>
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<td></td>
<td></td>
<td></td>
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<tr>
<td>Pepino (Solanum muricatum) (Host, Diagnosis/ID) (1,2)</td>
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<tr>
<td>Oedema; Edema (Abiotic disorder)</td>
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<td>Tobacco mosaic (TMV) (Tobamovirus Tobacco Mosaic Virus)</td>
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<td>Pepper (Capsicum annuum) (Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Tomato; Pepper bacterial spot (Xanthomonas campestris pv. vesicatoria)</td>
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<td>Pepper, Habanero; datil pepper (Capsicum chinense) (Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Tomato spotted wilt (TSWV) (Tospovirus Tomato Spotted Wilt Virus)</td>
<td>0 1 0 0</td>
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<td>Potato (Solanum tuberosum) (Host, Diagnosis/ID) (2,3)</td>
<td>1 0 0 0</td>
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<tr>
<td>Bacterial soft rot (Pectobacterium carotovorum carotovorum)</td>
<td>1 0 0 0</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>1 0 0 0</td>
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<tr>
<td>Insufficient sample (Identification Analysis)</td>
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<td>Rosemary (Rosmarinus officinalis) (Host, Diagnosis/ID) (1,1)</td>
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<td>Powdery mildew (Golovinomyces sp./spp.)</td>
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<td>Sweetpotato (Ipomoea batatas) (Host, Diagnosis/ID) (4,4)</td>
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<td>Oedema; Edema (Abiotic disorder)</td>
<td>1 0 0 0</td>
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</table>
Sweetpotato weevil (Cylas formicarius) 3 0 0 0 0

**Thyme (Thymus sp./spp.) (Host,Diagnosis/ID) (1,1)**

No pest found (Identification Analysis) 0 1 0 0 0

**Thyme (Thymus vulgaris) (Host,Diagnosis/ID) (1,1)**

Rhizoctonia stem rot (Rhizoctonia sp./spp.) 1 0 0 0 0

**Tomato (Lycopersicon esculentum) (Host,Diagnosis/ID) (17,23)**

Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.) 1 0 0 0 0

Bacterial wilt (Ralstonia solanacearum) 3 0 0 0 0

Bollworm; Corn earworm (Helicoverpa (Heliiothis) zea) 1 0 0 0 0

Common thrips (Family Thripidae) 1 0 0 0 0

Cultural/environmental problem (Abiotic disorder) 0 0 2 0 0

Flea beetles (Subfamily Alticinae) 0 0 1 0 0

Fusarium wilt; Fusarium wilt complex (Fusarium sp./spp.) 2 0 0 0 0

Grey leaf spot (Stemphylium solani) 1 0 0 0 0

Herbicide drift (Abiotic disorder) 0 0 1 0 0

Herbicide injury; Exposure (Abiotic disorder) 0 0 1 0 0

Insect damage (Unidentified Insect) 0 0 1 0 0

Insufficient sample (Identification Analysis) 0 0 0 1 0

Pythium root and/or crown rot (Pythium sp./spp.) 1 0 0 0 0

Root-knot nematodes (Meloidogyne sp./spp.) 1 0 0 0 0

Southern stem rot (Sclerotium rolfsii) 1 0 0 0 0

Target spot (Corynespora cassiicola) 1 0 0 0 0

Tomato pith necrosis (Pseudomonas sp./spp.) 0 0 1 0 0

Tomato spotted wilt (TSWV) (Tospovirus Tomato Spotted Wilt Virus) 2 0 0 0 0

**Vegetables (Mixed species) (Host,Diagnosis/ID) (1,1)**
<table>
<thead>
<tr>
<th>Pathogen/Condition</th>
<th>Chemical; Environmental injury (Abiotic disorder)</th>
<th>Cucurbit gummy stem blight (Stagonosporopsis curcubitacearum)</th>
<th>Fusarium stem rot (Fusarium sp./spp.)</th>
<th>Fusarium wilt; Fusarium wilt complex (Fusarium sp./spp.)</th>
<th>No pathogen found (Identification Analysis)</th>
<th>Pythium root and/or crown rot (Pythium sp./spp.)</th>
<th>Watermelon (Citrullus lanatus) <em>(Host,Diagnosis/ID) (5,6)</em></th>
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<tbody>
<tr>
<td>Crown and root rot (Phytophthora sp./spp.)</td>
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<td>0</td>
<td>1</td>
<td>0</td>
<td>0</td>
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<tr>
<td>Watermelon (Citrullus lanatus) <em>(Host,Diagnosis/ID) (5,6)</em></td>
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<td>0</td>
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<td>Chemical; Environmental injury (Abiotic disorder)</td>
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<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Cucurbit gummy stem blight (Stagonosporopsis curcubitacearum)</td>
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<td>Fusarium stem rot (Fusarium sp./spp.)</td>
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<td>Fusarium wilt; Fusarium wilt complex (Fusarium sp./spp.)</td>
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<td>0</td>
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<td>0</td>
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<td>0</td>
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<tr>
<td>No pathogen found (Identification Analysis)</td>
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<td>1</td>
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<td>0</td>
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<td>0</td>
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<td>Pythium root and/or crown rot (Pythium sp./spp.)</td>
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<td>0</td>
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<td>0</td>
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<td>Zucchini Squash (Cucurbita pepo melopepo) <em>(Host,Diagnosis/ID) (1,1)</em></td>
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<td>0</td>
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<td>Insufficient sample (Identification Analysis)</td>
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## Diagnoses and Identifications in Tree Fruits, Small Fruits and Nuts

<table>
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<tr>
<th>Host, Diagnosis/ID</th>
<th>Confirmed</th>
<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
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<tbody>
<tr>
<td><strong>Apple, Common (Malus sylvestris)</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>(1 sample, 1 diagnosis)</td>
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<tr>
<td>Woolly apple aphid (Eriosoma lanigerum)</td>
<td>1</td>
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<tr>
<td><strong>Blackberry (Rubus sp./spp.)</strong></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>(Host,Diagnosis/ID) (2,2)</td>
<td></td>
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<tr>
<td>Cane and leaf rust (Kuehneola uredinis)</td>
<td>1</td>
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</tr>
<tr>
<td>Cane blight; Canker (Paraconiothyrium fuckelii)</td>
<td>1</td>
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</tr>
<tr>
<td><strong>Blueberry (Vaccinium sp./spp.)</strong></td>
<td></td>
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<tr>
<td>(Host,Diagnosis/ID) (10,16)</td>
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<tr>
<td>Anthracnose; Colletotrichum leaf spot (Colletotrichum sp./spp.)</td>
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<tr>
<td>Azalea stem borer (Oberea myops)</td>
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<tr>
<td>Botrytis blight (Botrytis sp./spp.)</td>
<td>1</td>
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</tr>
<tr>
<td>Canker; Stem blight; Dieback (Botryosphaeria dothidea)</td>
<td>1</td>
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<tr>
<td>Crown and root rot (Phytophthora sp./spp.)</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td>0</td>
<td>0</td>
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</tr>
<tr>
<td>Dieback (Unidentified Fungus)</td>
<td>0</td>
<td>0</td>
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<td>1</td>
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<tr>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
<td>2</td>
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<tr>
<td>Freeze; Frost; Cold damage (Abiotic disorder)</td>
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<tr>
<td>Phytophthora root and crown rot (Phytophthora cinnamomi)</td>
<td>3</td>
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<tr>
<td>Scarab beetle (Hoplia trivialis)</td>
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<tr>
<td>Unspecified pathology (Phytophthora sp./spp.)</td>
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<tr>
<td><strong>Blueberry, Highbush (Vaccinium corymbosum)</strong></td>
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<td>(Host,Diagnosis/ID) (2,4)</td>
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### Cultural/environmental problem (Abiotic disorder)

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### Phytophthora root and crown rot (Phytophthora cinnamomi)

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### Pythium root and/or crown rot (Pythium sp./spp.)

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### Blueberry, Rabbit-eye (Vaccinium ashei)

**Host, Diagnosis/ID** (1,2)

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### Citrus Crops

**Citrus (Citrus sp./spp.)** *(Host, Diagnosis/ID) (1,1)*

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**Kumquat (round and oval) (Fortunella japonica/margarita)** *(Host, Diagnosis/ID) (1,1)*

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**Lemon (Citrus limon)** *(Host, Diagnosis/ID) (2,3)*

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### Chestnut, Chinese (Castanea mollissima)

**Host, Diagnosis/ID** *(5,9)*

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**Anthracnose (Colletotrichum sp./spp.)**

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**Bark splitting (Abiotic disorder)**

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**Environmental stress; Problem (Abiotic disorder)**

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**Mechanical damage (Abiotic disorder)**

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**Phomopsis dieback; Tip blight; Canker (Phomopsis sp./spp.)**

<p>|                  | 1 | 0 | 0 | 0 |</p>
<table>
<thead>
<tr>
<th>Host, Diagnosis/ID</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Grape (Vitis sp./spp.)</strong></td>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
</tr>
<tr>
<td><strong>Grape, European (Vitis vinifera)</strong></td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
</tr>
<tr>
<td></td>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
</tr>
<tr>
<td></td>
<td>Trunk girdling (Abiotic disorder)</td>
</tr>
<tr>
<td><strong>Peach (Prunus persica)</strong></td>
<td>Bacterial leaf spot (Xanthomonas arboricola pv. pruni)</td>
</tr>
<tr>
<td></td>
<td>Cultural/environmental problem (Abiotic disorder)</td>
</tr>
<tr>
<td></td>
<td>Leucostoma canker (Leucostoma sp./spp.)</td>
</tr>
<tr>
<td></td>
<td>Peach gummosis (Botryosphaeria sp./spp.)</td>
</tr>
<tr>
<td></td>
<td>Ring nematode (Mesocriconema sp./spp.)</td>
</tr>
<tr>
<td></td>
<td>Root-knot nematodes (Meloidogyne sp./spp.)</td>
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<tr>
<td></td>
<td>Sooty mold (Unidentified Fungus)</td>
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<tr>
<td></td>
<td>White peach scale (Pseudaulacaspis pentagona)</td>
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<tr>
<td><strong>Pear (Pyrus communis)</strong></td>
<td>Cedar-quince rust (Gymnosporangium clavipes)</td>
</tr>
<tr>
<td></td>
<td>Dieback; Canker; Twig blight (Botryosphaeria sp./spp.)</td>
</tr>
<tr>
<td></td>
<td>Fire blight (Erwinia amylovora)</td>
</tr>
<tr>
<td><strong>Pecan (Carya illinoinensis)</strong></td>
<td>Excessive water (Abiotic disorder)</td>
</tr>
<tr>
<td></td>
<td>Pecan; Hickory scab (Fusicladium caryigenum)</td>
</tr>
<tr>
<td><strong>Plum (Prunus sp./spp.)</strong></td>
<td>Shothole (Various Pathogens)</td>
</tr>
<tr>
<td>Plant Description</td>
<td>Diagnosis/ID</td>
</tr>
<tr>
<td>-------------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Twig blight (Fusicoccum sp./spp.)</td>
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</tr>
<tr>
<td>Plum, Wild (Prunus sp./spp.) (Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Plum Curculio (Conotrachelus nenuphar)</td>
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<tr>
<td>Walnut (Juglans sp./spp.) (Host, Diagnosis/ID) (1,2)</td>
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<tr>
<td>Walnut aphid (Chromaphis juglandicola)</td>
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<tr>
<td>Walnut lace bug (Corythucha juglandis)</td>
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</tr>
<tr>
<td>Strawberry, commercial; garden strawberry (Fragaria x ananassa) (Host, Diagnosis/ID) (9,17)</td>
<td></td>
</tr>
<tr>
<td>Botrytis fruit rot (Botrytis sp./spp.)</td>
<td></td>
</tr>
<tr>
<td>Cladosporium fruit mold (Cladosporium sp./spp.)</td>
<td></td>
</tr>
<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
<td></td>
</tr>
<tr>
<td>Freeze; Frost; Cold damage (Abiotic disorder)</td>
<td></td>
</tr>
<tr>
<td>Fusarium crown rot (Fusarium sp./spp.)</td>
<td></td>
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<tr>
<td>Leaf blotch (Gnomonia sp./spp.)</td>
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<tr>
<td>Phytophthora root and crown rot (Phytophthora cactorum)</td>
<td></td>
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<tr>
<td>Poor pollination (Abiotic disorder)</td>
<td></td>
</tr>
<tr>
<td>Powdery mildew (Podosphaera aphanis var. physocarpi)</td>
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</tr>
<tr>
<td>Unspecified pathology (Botrytis sp./spp.)</td>
<td></td>
</tr>
<tr>
<td>Unspecified pathology (Pythium sp./spp.)</td>
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</table>
## Diagnoses and Identifications in Field Crops and Pastures

<table>
<thead>
<tr>
<th>Host, Diagnosis/ID</th>
<th>Confirmed</th>
<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
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<tbody>
<tr>
<td><strong>Alfalfa (Medicago sativa)</strong> (Host, Diagnosis/ID) (1 sample, 1 diagnosis)</td>
<td></td>
<td></td>
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<tr>
<td>Blue alfalfa aphid (Acyrthosiphon kondoi)</td>
<td>1</td>
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<td>0</td>
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</tr>
<tr>
<td><strong>Alyce Clover (Allysicarpus vaginalis)</strong> (Host, Diagnosis/ID) (1,2)</td>
<td></td>
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<td></td>
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<tr>
<td>Old world hairsedge; Watergrass (Bulbostylis barbata)</td>
<td>1</td>
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</tr>
<tr>
<td>Poorland flatsedge (Cyperus compressus)</td>
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<tr>
<td><strong>Bahiagrass; Paspalum (Paspalum sp./spp.)</strong> (Host, Diagnosis/ID) (1,2)</td>
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<tr>
<td>Hydrophobic soil/planting mix/media (Abiotic disorder)</td>
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<tr>
<td>Leaf spot (Exserohilum sp./spp.)</td>
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<tr>
<td><strong>Cotton (Gossypium hirsutum)</strong> (Host, Diagnosis/ID) (3,5)</td>
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<td></td>
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<tr>
<td>Anthracnose fruit rot (Colletotrichum sp./spp.)</td>
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</tr>
<tr>
<td>Fusarium boll rot (Fusarium sp./spp.)</td>
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<tr>
<td>Grey leaf spot (Stemphylium solani)</td>
<td>2</td>
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<tr>
<td>Target spot (Corynespora cassiicola)</td>
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<tr>
<td><strong>Cowpea (Vigna unguiculata)</strong> (Host, Diagnosis/ID) (1,2)</td>
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<tr>
<td>Anthracnose stem blight (Colletotrichum sp./spp.)</td>
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</tr>
<tr>
<td>Corynespora leaf spot (Corynespora sp./spp.)</td>
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<tr>
<td><strong>Clover (Trifolium sp./spp.)</strong> (Host, Diagnosis/ID) (2,2)</td>
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<tr>
<td>Dodder (Cuscuta sp./spp.)</td>
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<tr>
<td>Prairie Dodder (Cuscuta campestris)</td>
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<tr>
<td><strong>Clover, White (Trifolium repens)</strong> (Host, Diagnosis/ID) (1,1)</td>
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<tr>
<td>Insufficient sample (Identification Analysis)</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
</tbody>
</table>
### Field Corn (Zea mays) *(Host,Diagnosis/ID) (7,10)*
- Corn blotch leafminer complex (Agromyza parvicornis) 1 0 0 0
- Corn gray leaf spot (Cercospora zeae-maydis) 2 0 0 0
- Flea beetles (Subfamily Alticinae) 0 0 1 0
- No pathogen found (Identification Analysis) 0 1 0 0
- Redheaded Systena (Systena frontalis) 1 0 0 0
- Southern leaf blight (Bipolaris maydis) 1 0 0 0
- Stewart's wilt (Pantoea (Erwinia) stewartii ssp. s) 0 1 0 0
- Sting nematodes (Belonolaimus sp./spp.) 1 0 0 0
- Tropical spiderwort; Benghal dayflower (Commelina benghalensis) 1 0 0 0

### Hemp (Cannabis sativa) *(Host,Diagnosis/ID) (11,24)*
- Bacterial wilt (Ralstonia solanacearum) 0 1 0 0
- Cabbage looper (Trichoplusia ni) 1 0 0 0
- Cercospora leaf spot (Cercospora sp./spp.) 3 0 0 0
- Cultural/environmental problem (Abiotic disorder) 0 0 1 0
- Dieback; Canker; Twig blight (Botryosphaeria sp./spp.) 1 0 0 0
- Fusarium wilt; Fusarium wilt complex (Fusarium sp./spp.) 3 0 0 0
- Leaf spot (Unidentified Fungus) 0 0 0 1
- Pythium root and/or crown rot (Pythium sp./spp.) 3 0 0 0
- Rhizoctonia crown and stem rot (Rhizoctonia sp./spp.) 1 0 0 0
- Rhizoctonia root rot (Rhizoctonia sp./spp.) 2 0 0 0
- Root problems (Abiotic disorder) 1 0 0 0
- Southern stem rot (Sclerotium rolfsii) 1 0 0 0
- Trunk girdling (Abiotic disorder) 4 0 0 0
- Unspecified pathology (Fusarium sp./spp.) 1 0 0 0
<table>
<thead>
<tr>
<th>Plant</th>
<th>(Host, Diagnosis/ID)</th>
<th>Cultural/environmental problem (Abiotic disorder)</th>
<th>Freeze; Frost; Cold damage (Abiotic disorder)</th>
<th>Insufficient sample (Identification Analysis)</th>
<th>Nutritional deficiency (Abiotic disorder)</th>
<th>Pythium root and/or crown rot (Pythium sp./spp.)</th>
<th>Root problem (Unknown Cause)</th>
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</thead>
<tbody>
<tr>
<td>Lentil (Lens culinaris)</td>
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<tr>
<td>Oats (Avena sativa)</td>
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<td>Helminthosporium leaf spot (Drechslera sp./spp.)</td>
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<tr>
<td>Helminthosporium leaf spot (Drechslera sp./spp.)</td>
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<tr>
<td>Helminthosporium leaf spot (Drechslera sp./spp.)</td>
<td>1</td>
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<tr>
<td>Helminthosporium leaf spot (Drechslera sp./spp.)</td>
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<td>0</td>
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<tr>
<td>Nutritional deficiency (Abiotic disorder)</td>
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<td>1</td>
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<td>Pythium root and/or crown rot (Pythium sp./spp.)</td>
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<tr>
<td>Root problem (Unknown Cause)</td>
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<tr>
<td>Orchardgrass (Dactylis glomerata)</td>
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<tr>
<td>Alfalfa (Medicago sativa sativa)</td>
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<tr>
<td>Crabgrass (Digitaria sp./spp.)</td>
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<tr>
<td>Green Bristlegrass (Setaria viridis)</td>
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<tr>
<td>Peanut (Arachis hypogaea)</td>
<td>(3,5)</td>
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<tr>
<td>Bristly starbur (Acanthospermum hispidum)</td>
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<tr>
<td>Common thrips (Family Thripidae)</td>
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<tr>
<td>Cultural/environmental problem (Abiotic disorder)</td>
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<tr>
<td>Fusarium root rot (Fusarium sp./spp.)</td>
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<td>Sorghum (Sorghum bicolor)</td>
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<td>Leaf spot (Exserohilum sp./spp.)</td>
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<td>Soybean (Glycine max)</td>
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<td>Value2</td>
<td>Value3</td>
<td>Value4</td>
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<td>Anthracnose stem blight (Colletotrichum sp./spp.)</td>
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<td>Ashy stem blight (Macrophomina phaseolina)</td>
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<tr>
<td>Bollworm; Budworm; Complex (Helicoverpa zea)</td>
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<td>Bollworm; Corn earworm (Helicoverpa (Heliothis) zea)</td>
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<td>Charcoal rot (Macrophomina phaseolina)</td>
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<td>Fusarium root rot (Fusarium sp./spp.)</td>
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<tr>
<td>Lesser cornstalk borer (Elasmopalpus lignosellus)</td>
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<td>Sunflower (Helianthus sp./spp.) (Host,Diagnosis/ID) (1,1)</td>
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<td>Wheat (Triticum aestivum) (Host,Diagnosis/ID) (2,3)</td>
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<td>Stagonospora nodorum blotch (Parastagonospora nodorum)</td>
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<td>Unidentified virus (Unidentified Virus)</td>
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<td>Wheat powdery mildew (Blumeria graminis f.sp. tritici)</td>
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## Identification of Insects, Other Arthropods and Miscellaneous Organisms from Households and other Habitats

### Insect Id request (general) *(Host,Diagnosis/ID)*
**(70 samples, 73 identifications)**

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<tr>
<th></th>
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<th>Not Detected</th>
<th>Suspected</th>
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<td><strong>ANTS</strong></td>
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<td>Argentine ant</td>
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<td>Pharaoh ant</td>
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<td>Pyramid ant</td>
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<td>Red carpenter</td>
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<td>Rover ant</td>
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<td><strong>BEES AND WASPS</strong></td>
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<td><strong>BEETLES AND WEEVILS</strong></td>
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<td>Cigarette beetle</td>
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<td>Contrachelus posticus</td>
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<td>Curculionid beetle</td>
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<td>Darkling beetles</td>
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<td>Emerald ash borer</td>
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<td>Granary weevil</td>
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<td>Ground beetles</td>
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<td>Multicolored Asian lady beetle</td>
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<td><strong>BUGS, TRUE</strong></td>
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<td>Assassin bugs</td>
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<td>Bed bug</td>
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<td>Biglegged plant bug (Acanthocephala femorata)</td>
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<td>Plant bugs (Family Miridae)</td>
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<td><strong>COCKROACHES</strong></td>
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<td>American cockroach (Periplaneta americana)</td>
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<td><strong>FLIES, GNATS AND MOSQUITOS</strong></td>
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<td>Black soldier fly (Hermetia illucens)</td>
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<td>Culicid mosquitos (Family Culicidae)</td>
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<td>Cranefly (Tipula sp./spp.)</td>
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<td>Empidid dance fly (Rhamphomyia sp./spp.)</td>
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<td>Fruit fly (Drosophila sp./spp.)</td>
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<td>Fungus gnat (Sciara sp./spp.)</td>
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<td>Humpbacked flies (Family Phoridae)</td>
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<td>March flies (Family Bibionidae)</td>
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<td>Minute Black Scavenger Flies (Scatopsidae)</td>
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<td><strong>MULCH (HABITAT)</strong> <em>(Host,Diagnosis/ID)</em> (1,1)</td>
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<td>Miscellaneous debris (Identification Analysis)</td>
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<td><strong>MOTHS</strong></td>
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<td>Indianmeal moth (Plodia interpunctella)</td>
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<td><strong>TERMITES</strong></td>
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<td>Eastern subterranean termite (Reticulitermes flavipes)</td>
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<td>Formosan subterranean termite (Coptotermes formosanus)</td>
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<td>Termites (Order Isoptera)</td>
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<td>--------------------------</td>
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<tr>
<td>Brown dog tick (Rhipicephalus sanguineus)</td>
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<td>Brown widow spider (Latrodectus geometricus)</td>
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<tr>
<td>Chewing lice (Mallophaga)</td>
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<tr>
<td>Earwigs (Order Dermaptera)</td>
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<tr>
<td>Garden snail/ mollusc</td>
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<td>No insect found (Identification Analysis)</td>
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<td>No pest found (Identification Analysis)</td>
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<tr>
<td>wood destroying fungi</td>
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### Plants, Weeds and Mushrooms Identified from Various Habitats

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<tr>
<th>Habitat Description</th>
<th>Confirmed</th>
<th>Not Detected</th>
<th>Suspected</th>
<th>Undetermined</th>
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</table>
| **Fallow Field; idle land (habitat)** *(Host,Diagnosis/ID) (1 sample, 1 diagnosis)*  
Lightning-rod Plant, Christmas Candlestick *(Leonotis nepetifolia)* | 1 | 0 | 0 | 0 |
| **Mushrooms** | | | | |
| Earthstars *(Family Geastraceae)* | 1 | 0 | 0 | 0 |
| Earthstar *(Geastrum sp.)* | 1 | 0 | 0 | 0 |
| Unidentified fungus *(Unidentified Fungus)* | 0 | 0 | 0 | 1 |
| **Mushroom (general) (Host,Diagnosis/ID) (3,3)*  
Cortinarius *(Cortinarius sp./spp.)* | 0 | 0 | 1 | 0 |
| Lepiota mushroom *(Lepiota sp./spp.)* | 0 | 0 | 1 | 0 |
| Pisolithus tinctorius | 1 | 0 | 0 | 0 |
| **Plant Id request (general) (Host,Diagnosis/ID) (14,16)*  
Bermudagrass *(Cynodon dactylon)* | 1 | 0 | 0 | 0 |
| Broomsedge bluestem *(Andropogon virginicus)* | 1 | 0 | 0 | 0 |
| Climbing hempvine *(Mikania scandens)* | 1 | 0 | 0 | 0 |
| Cypress spurge *(Euphorbia cyparissias)* | 1 | 0 | 0 | 0 |
| Fig Buttercup *(Ficaria verna)* | 3 | 0 | 0 | 0 |
| Insufficient sample *(Identification Analysis)* | 0 | 0 | 1 | 1 |
| Jimsonweed *(Datura stramonium)* | 1 | 0 | 0 | 0 |
| Knotweed *(Polygonum sp./spp.)* | 2 | 0 | 0 | 0 |
| Lichens *(Lichenes)* | 0 | 0 | 0 | 1 |
| Panicgrass *(Dichanthelium sp.)* | 1 | 0 | 0 | 0 |
| Sedge *(Cyperus sp./spp.)* sample insufficient for species determination | 1 | 0 | 0 | 0 |
| Timothy *(Phleum pratense)* | 1 | 0 | 0 | 0 |
Tropical soda apple (Solanum viarum) 1 0 0 0 0

Ponds; Lakes; impounded waters (Aquatic habitat)
(Host, Diagnosis/ID) (44, 71)

Adequate sample (Identification Analysis) 0 0 0 1

Algae
Algae, brown (diatoms) 1 0 0 0 0  
Blue-green algae (Microcystis sp./spp.) 7 0 1 0 0  
Blue-green algae (Nostoc sp./spp.) 1 0 0 0 0  
Blue-green algae (Oscillatoria sp./spp.) 5 0 0 0 0  
Blue-green algae (Spirulina sp./spp.) 1 0 0 0 0  
Diatoms (algae) 2 0 0 0 0  
Filamentous blue-green algae (Lyngbya sp./spp.) 2 0 0 0 0  
Filamentous green algae (Desmidium) 1 0 0 0 0  
Filamentous green algae (Mougeotia sp./spp.) 1 0 0 0 0  
Filamentous green algae (Spirogyra; Oedogonium; Cladophora sp./spp.) 4 0 0 0 0  
Filamentous green algae (Spirogyra; Zygnema, Ulothrix, Bulbochaete) 1 0 0 0 0  
Green algae (Chlorophyceae); Desmidium, Spirogyra, etc. 1 0 0 0 0  
Green algae (Pediastrum sp.) 1 0 0 0 0  
Green algae, unicellular (Ankistrodesmus sp.) 0 0 0 1 0  
Alligatorweed (Alternanthera philoxeroides) 1 0 0 0 0  
American Cupscale (Sacciolepis striata) 1 0 0 0 0  
Bacteria (general) 0 0 0 1 0  
Baldwin's spikerush (Eleocharis baldwinii) 3 0 0 0 0  
Bladderwort (Utricularia sp./spp.) 2 0 0 0 0  
Brazilian watermeal (Wolffia brasiliensis) 2 0 0 0 0  
Dinoflagellates/ freshwater protists 0 0 0 1 0  
Dotted duckweed (Landoltia punctata) 4 0 0 0 0
<table>
<thead>
<tr>
<th>Species</th>
<th>Count</th>
<th>Host</th>
<th>Diagnosis/ID</th>
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<td>Euglena (Euglena sp./spp.)</td>
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<td>Fungal Contaminant (Fusarium sp./spp.)</td>
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<td>Insufficient sample (Identification Analysis)</td>
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<td>Lemna duckweed (Lemna sp./spp.)</td>
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<td>Mudmidget (Wolffiella gladiata)</td>
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<td>Phytophthora cryptogea</td>
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<td>Phytoplankton: Diatoms, Dinoflagellates</td>
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<td>Protozoa (general)</td>
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<td>Shade mudflower (Micranthemum umbrosum)</td>
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<td>Southern naiad (Najas guadalupensis)</td>
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<td>Spikerush (Eleocharis sp./spp.)</td>
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<td>Turion duckweed (Lemna turionifera)</td>
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<td>Water primrose (Ludwigia sp./spp.)</td>
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<td>Watershield (Brasenia schreberi)</td>
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<td>Yellow floating heart (Nymphoides peltata)</td>
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<tr>
<td>Zooplankton (Copepod)</td>
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</tbody>
</table>

**Roadside (habitat) (Host,Diagnosis/ID) (1,1)**
- Cogongrass (Imperata cylindrica)                         | 1     | 0    | 0            |

**Stock Tank; stock water supply (Aquatic habitat)**
*(Host,Diagnosis/ID) (1,1)*
- Green algae (Cosmarium Quadricoccus Nannochloris Oocystis) | 1     | 0    | 0            |