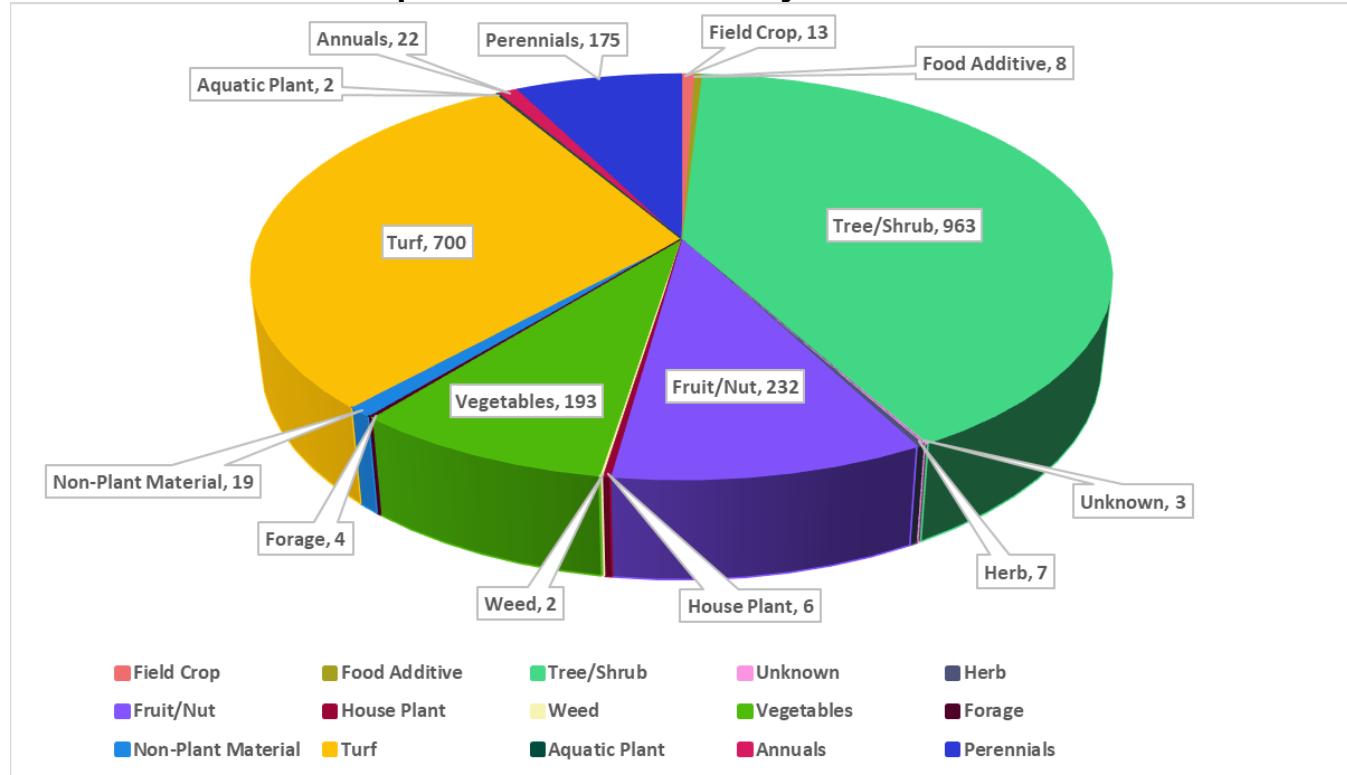


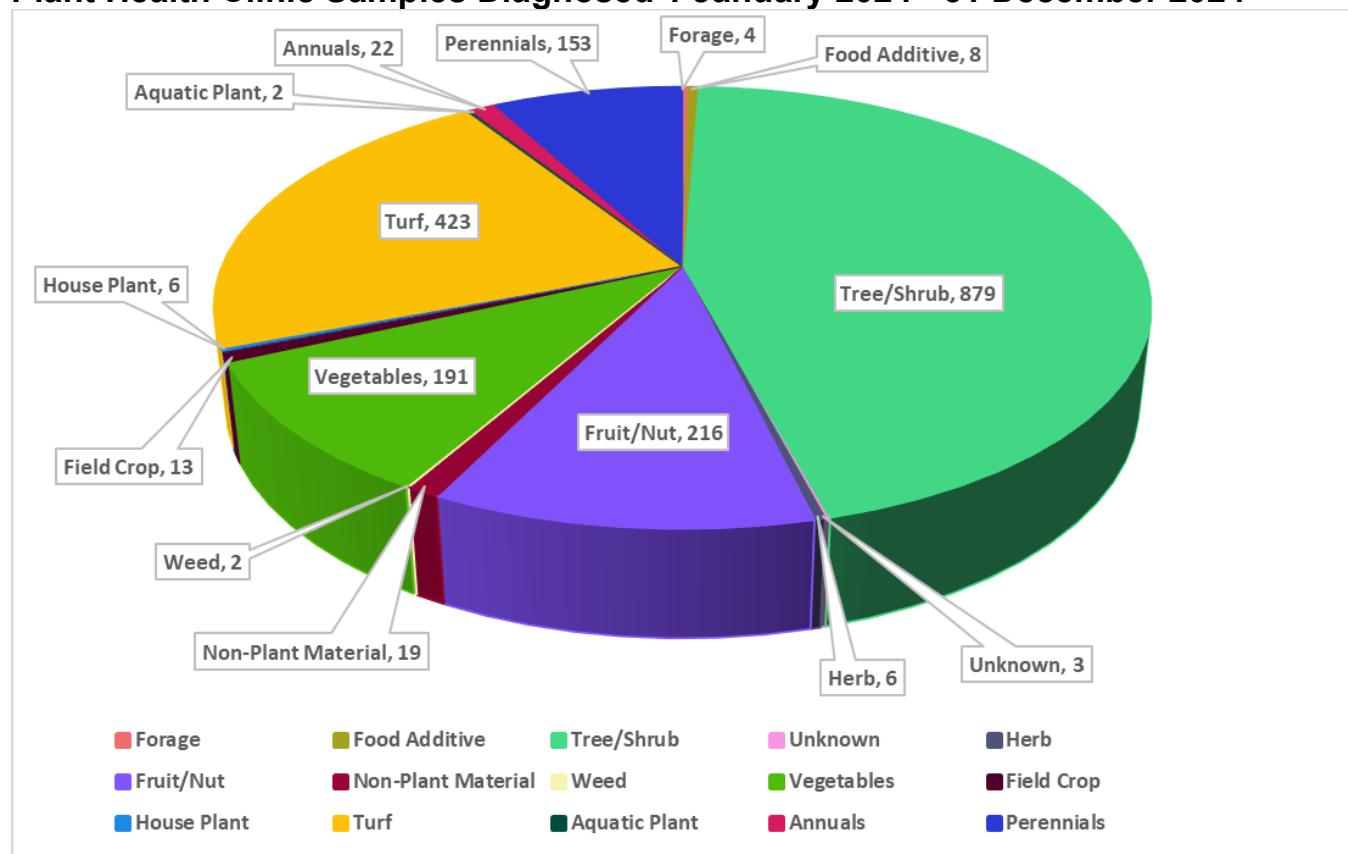
## Plant Health Clinic 2024 Summary Report

The Plant Health Clinic received 2,349 plant samples for calendar year 2024 and diagnosed 1,947 of them. Due to staffing constraints 402 plant samples deteriorated in storage before they could be diagnosed. Horticultural samples continue to follow the trend of recent years by comprising the largest percentage of samples received. The largest category of samples in 2024 was Trees/Shrub (41%) with 963 samples, followed by Turf (30%) with 700 samples, Fruit/Nut (10%) with 232 samples, Vegetables (8%) with 193 samples, Perennials (7.5%) with 175 samples, Annuals (1%) with 22 samples, Non-Plant Material (1%) with 19 samples, Field Crop (0.5%) with 13 samples, and food additive, herb, house plant, forage, aquatic plant, weed, and unknown making up the remaining (1%). Unknown were samples the county agent did not give a host name for that we could not identify.

### Plant Health Clinic Samples Received 1 January 2024 - 31 December 2024



## Plant Health Clinic Samples Diagnosed 1 January 2024 - 31 December 2024



Plant Health Clinic Samples Received by Commodity	Number of Samples Submitted	Percent of Total
Annuals	22	0.94
Aquatic Plant	2	0.09
Field Crop	13	0.55
Food Additive	8	0.34
Forage	4	0.17
Fruit/Nut	232	9.88
Herb	7	0.30
House Plant	6	0.26
Mushroom	0	0.00
Non-Plant Material	19	0.81
Perennials	175	7.45
Tree/Shrub	963	41.00
Turf	700	29.80
Unknown	3	0.13
Vegetables	193	8.22
Weed	2	0.09
<b>Total</b>	<b>2349</b>	

District	Plant Health Samples Submitted	Percent of Total
Out of State	17	0.72
Delta	315	13.41
Ouachita	1098	46.74
Ozark	919	39.12
<b>Total</b>	<b>2349</b>	

County	Plant Health Samples Submitted	County	Plant Health Clinic Samples Submitted
Arkansas	8	Ashley	3
Baxter	58	Benton	82
Boone	17	Bradley	22
Calhoun	0	Carroll	6
Chicot	5	Clark	13
Clay	10	Cleburne	16
Cleveland	2	Columbia	12
Conway	1	Craighead	105
Crawford	17	Crittenden	24
Cross	11	Dallas	0
Desha	3	Drew	1
Faulkner	117	Franklin	2
Fulton	6	Garland	241
Grant	2	Greene	4
Hempstead	3	Hot Spring	5
Howard	3	Independence	5
Izard	2	Jackson	19
Jefferson	6	Johnson	18
Lafayette	0	Lawrence	13
Lee	4	Lincoln	2
Little River	2	Logan	7
Lonoke	5	Madison	9
Marion	6	Miller	13
Mississippi	1	Monroe	5
Montgomery	9	Nevada	3
Newton	0	Ouchita	0
Perry	4	Phillips	5
Pike	0	Poinsett	7
Polk	19	Pope	54
Prairie	7	Pulaski	433
Randolph	1	Saline	310
Scott	0	Searcy	2

County	Plant Health Samples Submitted	County	Plant Health Clinic Samples Submitted
Sebastian	30	Sevier	2
Sharp	2	St. Francis	7
Stone	1	Union	0
Van Buren	6	Washington	454
White	55	Woodruff	4
Yell	1	Out of State	17
<b>Total</b>	<b>2349</b>		

Day of Week Sample Arrived	Plant Health Samples Submitted	Percent of Total Pike
Monday	525	22.35
Tuesday	286	12.18
Wednesday	534	22.73
Thursday	456	19.41
Friday	514	21.88
Weekend	34	1.45
<b>Total</b>	<b>2349</b>	

Month	Plant Health Samples Submitted
<b>January</b>	<b>51</b>
Week 1	10
Week 2	0
Week 3	20
Week 4	16
Week 5	5 (16 for weekly total)
<b>February</b>	<b>128</b>
Week 5	11 (16 for weekly total)
Week 6	24
Week 7	11
Week 8	44
Week 9	38 (43 for weekly total)
<b>March</b>	<b>167</b>
Week 9	5 (43 for weekly total)
Week 10	0
Week 11	51
Week 12	29
Week 13	82

<b>April</b>	<b>225</b>
Week 14	31
Week 15	36
Week 16	50
Week 17	75
Week 18	33 (92 for weekly total)
<b>May</b>	<b>484</b>
Week 18	59 (92 for weekly total)
Week 19	121
Week 20	122
Week 21	109
Week 22	73
<b>June</b>	<b>272</b>
Week 23	101
Week 24	72
Week 25	33
Week 26	66
<b>July</b>	<b>246</b>
Week 27	43
Week 28	33
Week 29	35
Week 30	97
Week 31	38 (64 for weekly total)
<b>August</b>	<b>230</b>
Week 31	26 (64 for weekly total)
Week 32	45
Week 33	51
Week 34	61
Week 35	47
<b>September</b>	<b>205</b>
Week 36	45
Week 37	50
Week 38	46
Week 39	52
Week 40	12 (58 for weekly total)
<b>October</b>	<b>189</b>
Week 40	46 (58 for weekly total)
Week 41	35
Week 42	56
Week 43	25
Week 44	27 (32 for weekly total)
<b>November</b>	<b>113</b>
Week 44	5 (32 for weekly total)
Week 45	38
Week 46	29
Week 47	29

Week 48	12
<b>December</b>	<b>39</b>
Week 49	12
Week 50	11
Week 51	16
Week 52	0
<b>Total</b>	<b>2349</b>

Month	Plant Health Samples Diagnosed
<b>January</b>	<b>51</b>
Week 1	9
Week 2	1
Week 3	10
Week 4	24
Week 5	7 (18 for weekly total)
<b>February</b>	<b>95</b>
Week 5	11 (18 for weekly total)
Week 6	24
Week 7	11
Week 8	38
Week 9	11 (43 for weekly total)
<b>March</b>	<b>118</b>
Week 9	32 (43 for weekly total)
Week 10	0
Week 11	37
Week 12	26
Week 13	23
<b>April</b>	<b>164</b>
Week 14	63
Week 15	24
Week 16	19
Week 17	26
Week 18	32 (72 for weekly total)
<b>May</b>	<b>213</b>
Week 18	40 (72 for weekly total)
Week 19	58
Week 20	37
Week 21	31
Week 22	47
<b>June</b>	<b>162</b>
Week 23	34
Week 24	40
Week 25	38
Week 26	50

<b>July</b>	<b>357</b>
Week 27	29
Week 28	40
Week 29	34
Week 30	219
Week 31	35 (57 for weekly total)
<b>August</b>	<b>218</b>
Week 31	22 (57 for weekly total)
Week 32	55
Week 33	46
Week 34	59
Week 35	36
<b>September</b>	<b>228</b>
Week 36	60
Week 37	55
Week 38	37
Week 39	50
Week 40	26 (55 for weekly total)
<b>October</b>	<b>187</b>
Week 40	29 (55 for weekly total)
Week 41	49
Week 42	43
Week 43	41
Week 44	25 (30 for weekly total)
<b>November</b>	<b>115</b>
Week 44	5 (30 for weekly total)
Week 45	32
Week 46	32
Week 47	34
Week 48	12
<b>December</b>	<b>39</b>
Week 49	12
Week 50	11
Week 51	16
Week 52	0
<b>Total</b>	<b>1947</b>

## Comprehensive Host-Disease Diagnosis List

### Annuals

#### Annual Chrysanthemum

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Insect damage	Class Insecta
1	No pathogen found	No Detection
3	Total for Annual Chrysanthemum	

#### Boston Fern

1	Chemical; Environmental injury - Suspected	Abiotic disorder
1	Total for Boston Fern	

#### Caladium; Elephant Ear

1	Insufficient sample	Incomplete submission
1	Total for Caladium; Elephant Ear	

#### Cockscomb; Celosia

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	No pathogen found	No Detection
1	Rhizoctonia root rot	Rhizoctonia sp./spp.
3	Total for Cockscomb; Celosia	

#### Coleus

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Pythium damping off	Pythium sp./spp.
2	Total for Coleus	

#### Dahlia

1	Leaf spot	Phyllosticta sp./spp.
1	Total for Dahlia	

#### Gourd

1	Root-knot nematodes	Meloidogyne sp./spp.
1	Total for Gourd	

#### Impatiens

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Insufficient sample	Incomplete submission
1	Oedema; Edema	Abiotic disorder
1	Pythium damping off	Pythium sp./spp.
1	Spider mites - Not Detected	Family Tetranychidae
5	Total for Impatiens	

**Lantana**

1	Insufficient sample	Incomplete submission
1	Total for Lantana	

**Lisianthus**

1	Scorch - Suspected	Abiotic disorder
1	Total for Lisianthus	

**Petunias**

1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Phytophthora stem rot	<i>Phytophthora</i> <i>nicotianae</i>
1	Root-knot nematodes	<i>Meloidogyne</i> sp./spp.
3	Total for Petunias	

**Statice**

1	Anthracnose	<i>Colletotrichum</i> <i>gloeosporioides</i>
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
2	Total for Statice	

**Strawflower**

1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Total for Strawflower	

**Sunflower**

1	Excessive water - Suspected	Abiotic disorder
1	Herbicide injury G#4 Synthetic auxin - Suspected	Abiotic disorder
2	Total for Sunflower	

**Zinnia**

1	Bacterial leaf spot	<i>Xanthomonas</i> sp./spp.
2	Powdery mildew	<i>Erysiphe</i> <i>cichoracearum</i>
3	Total for Zinnia	

**Aquatic Plant****Plant Identification Request**

1	Floating marshpennywort	<i>Hydrocotyle</i> <i>ranunculoides</i>
1	Whorled marsh pennywort	<i>Hydrocotyle</i> <i>verticillata</i>
2	Total for Plant Identification Request	

**Thin-leaf Pondweed**

1	Waterthread pondweed	Potamogeton diversifolius
1	Total for Thin-leaf Pondweed	

#### Field Crop

##### Pearl Millet

1	Aspergillus - Not Detected	Aspergillus sp./spp.
1	Total for Pearl Millet	

##### Rice

1	Fungus fly	Order Diptera
1	Rhizoctonia damping off	Rhizoctonia sp./spp.
1	Rice white-tip nematode - Not Detected	Aphelenchoides besseyi
1	Springtails	Order Collembola
4	Total for Rice	

##### Soybean

5	Charcoal rot	Macrophomina phaseolina
1	Charcoal rot - Not Detected	Macrophomina phaseolina
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Heat stress	Abiotic disorder
1	Neocosmospora root or fruit rot	Neocosmospora vasinfecta
1	Phomopsis seed decay	Phomopsis sp./spp.
1	Red crown rot - Not Detected	Calonectria ilicicola
1	Rust - Not Detected	Phakopsora sp./spp.
1	Soybean bacterial pustule	Xanthomonas campestris pv. glycines
1	Soybean bacterial pustule - Not Detected	Xanthomonas axonopodis pv. glycines
1	Soybean frogeye leaf spot	Cercospora sojina
1	Soybean leaf blight	Cercospora kikuchii
1	Soybean Phytophthora - Not Detected	Phytophthora sojae
2	Soybean Phytophthora root and stem rot	Phytophthora sojae
2	Soybean stem borer	Dectes texanus
1	Soybean stem borer - Not Detected	Dectes texanus
22	Total for Soybean	

##### Wheat

1	Chemical injury - Suspected	Abiotic disorder
1	No pathogen found	No Detection
1	Stem rust; Black rot	<i>Puccinia graminis</i>

### 3 Total for Wheat

#### Food Additive

##### Blond psyllium

1	Crown and root rot	Phytophthora sp./spp.
1	Crown rot	<i>Pythium dissotocum</i>
1	Fusarium wilt	<i>Fusarium oxysporum</i>
1	Non-pathogenic; Saprophyte	Secondary Agents; Saprophytes; Unspecif.
1	Oedema; Edema	Abiotic disorder
1	Powdery mildew	<i>Erysiphe cichoracearum</i>
1	Pythium damping off	<i>Pythium</i> sp./spp.
3	Thrips	Order Thysanoptera
10	Total for Blond psyllium	

#### Forage

##### Beardgrass; Bluestem

1	Plant/Weed Identification Request	Identification request
1	Total for Beardgrass; Bluestem	

##### Bermudagrass - Forage

1	Flower smut	<i>Ustilago cynodontis</i>
1	Large patch	<i>Rhizoctonia solani</i>
1	White grubs (Scarab beetles)	Family Scarabaeidae
3	Total for Bermudagrass - Forage	

#### Clover

1	Alfalfa mosaic (AMV) - Not Detected	Alfamovirus Alfalfa Mosaic Virus
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Impatiens necrotic spot (INSV)	Tospovirus Impatiens Necrotic Spot Virus
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Red clover sooty blotch	<i>Polythrincium trifolii</i>
1	Thrips	Order Thysanoptera
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
8	Total for Clover	

#### Fruit/Nut

American Plum

1	Bacterial canker - Suspected	<i>Pseudomonas syringae</i>
1	Total for American Plum	

Apricot

1	Coryneum blight (Shothole)	<i>Thyrostroma carpophilum</i>
1	Total for Apricot	

Black Currant

1	Aphids; Plant lice	Family Aphididae
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
2	Total for Black Currant	

Blackberry

1	Cane and leaf rust	<i>Kuehneola uredinis</i>
3	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Deteriorated sample	Deterioration
1	Drought stress damage - Suspected	Abiotic disorder
1	Dryberry mite	<i>Phyllocoptes gracilis</i>
1	Fire blight - Not Detected	<i>Erwinia amylovora</i>
1	Freeze; Frost; Cold damage	Abiotic disorder
2	Fusarium wilt	<i>Fusarium oxysporum</i>
1	Insect damage	Class Insecta
1	Lab notes	Lab comments
1	Leaf spot	<i>Phyllosticta</i> sp./spp.
2	No pathogen found	No Detection
1	Pestalotiopsis canker/ dieback	<i>Pestalotiopsis</i> sp./spp.
2	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.
2	Raspberry crown borer	<i>Pennisetia marginata</i>
1	Raspberry crown borer - Not Detected	<i>Pennisetia marginata</i>
1	Spot anthracnose	<i>Elsinoe veneta</i>
1	Spur; Cane blight - Not Detected	<i>Didymella applanata</i>
1	Sunscald	Abiotic disorder
25	Total for Blackberry	

Blueberry

1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Deteriorated sample	Deterioration
1	Insufficient sample	Incomplete submission
1	Leaf spot	<i>Phyllosticta</i> sp./spp.
2	No pathogen found	No Detection

1	Phomopsis canker and twig blight	Diaporthe vaccinii
1	Septoria leaf spot; Stem canker	Septoria albopunctata
1	Spiders - Suspected	Order Araneae
9	Total for Blueberry	

#### Boysenberry

1	Deteriorated sample	Deterioration
1	Total for Boysenberry	

#### Cantalope; Cantaloupe

1	Anthracnose	Colletotrichum orbiculare
1	Cucurbit bacterial wilt	Erwinia tracheiphila
1	Insect damage	Class Insecta
1	Melon Fusarium wilt	Fusarium oxysporum f sp melonis
4	Total for Cantalope; Cantaloupe	

#### Cherry (For Fruit)

1	Deteriorated sample	Deterioration
1	European fruit Lecanium	Parthenolecanium corni
1	Wild cherry leaf spot	Pseudocercospora graphioides
3	Total for Cherry (For Fruit)	

#### Chestnut

1	Insect damage	Class Insecta
1	Total for Chestnut	

#### Commercial Strawberry; Garden Strawberry

1	Anthracnose	Colletotrichum sp./spp.
1	Anthracnose basal rot; Crown rot	Colletotrichum sp./spp.
2	Crown/Stem rot	Neopestalotiopsis sp./spp.
1	Pythium damping off	Pythium sp./spp.
1	Pythium root and/or crown rot	Pythium sp./spp.
6	Total for Commercial Strawberry; Garden Strawberry	

#### Common Apple

1	Apple leaf skeletonizer	Psorosina hammondi
1	Apple scab	Venturia inaequalis
2	Bitter rot	Colletotrichum gloeosporioides
1	Botryosphaeria canker; Dieback	Diplodia mutila
1	Cicada egg-laying injury	Family Cicadidae
5	Fire blight	Erwinia amylovora
1	Fire blight - Not Detected	Erwinia amylovora
1	Flatheaded appletree borer	Chrysobothris femorata

1	Insect damage	Class Insecta
1	Insect damage - Suspected	Class Insecta
1	Lichens	Lichenes
2	Phoma leaf spot	Phoma sp./spp.
1	Sooty blotch flyspeck complex	Various Fungi
1	Spider mites	Family Tetranychidae
1	Woolly apple aphid	<i>Eriosoma lanigerum</i>
1	Yellow-bellied sapsucker	<i>Sphyrapicus varius</i>
22	Total for Common Apple	

#### Common Fig

1	Anthracnose	<i>Colletotrichum</i> sp./spp.
1	Bacterial blight - Not Detected	<i>Xanthomonas</i> sp./spp.
1	Begomovirus Group - Not Detected	Begomovirus Group
1	Closteroviridae family - Not Detected	Family Closteroviridae
2	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Emaravirus Group - Not Detected	Emaravirus Group
1	Hop stunt (HSVd) - Not Detected	Hostuviroid Hop Stunt Viroid
2	Impatiens necrotic spot (INSV)	Tospovirus Impatiens Necrotic Spot Virus
1	No pathogen found	No Detection
1	Phytophthora canker - Not Detected	<i>Phytophthora</i> sp./spp.
1	Pospiviroid Group - Not Detected	Pospiviroid Group
2	Powdery mildew	<i>Leveillula taurica</i>
1	Rhizoctonia blight - Not Detected	<i>Rhizoctonia solani</i>
1	Root rot	Unidentified Agent
1	Stink bugs	Family Pentatomidae
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
1	Trichovirus Group - Not Detected	Trichovirus Group
21	Total for Common Fig	

#### Common Persimmon

1	Insufficient sample	Incomplete submission
1	Total for Common Persimmon	

#### Domestic Apple

1	Apple scab	<i>Venturia inaequalis</i>
1	Apple-and-thorn skeletonizer	<i>Choreutis pariana</i>
1	Chemical injury - Suspected	Abiotic disorder

1	Chemical; Environmental injury - Suspected	Abiotic disorder
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
2	Deteriorated sample	Deterioration
4	Fire blight	<i>Erwinia amylovora</i>
2	Fire blight - Not Detected	<i>Erwinia amylovora</i>
1	Marssonina Blotch	<i>Diplocarpon mali</i>
1	Nectria canker	<i>Neonectria ditissima</i>
1	No pathogen found	No Detection
1	San jose scale	<i>Diaspidiotus perniciosus</i>
1	Scorch	Abiotic disorder
1	Yellow-bellied sapsucker	<i>Sphyrapicus varius</i>
20	Total for Domestic Apple	

#### European Grape

1	Grape erineum mite	<i>Colomerus vitis</i>
1	Total for European Grape	

#### Fig

1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Fig rust	<i>Cerotelium fici</i>
1	Fig tree borer - Not Detected	<i>Neoptychodes trilineatus</i>
1	Insect damage	Class Insecta
1	Insufficient sample	Incomplete submission
1	Root-knot nematodes - Not Detected	<i>Meloidogyne</i> sp./spp.
1	Scorch	Abiotic disorder
7	Total for Fig	

#### Fuji Apple

1	Sunscald - Suspected	Abiotic disorder
1	Total for Fuji Apple	

#### Grape

2	Black rot	<i>Phyllosticta ampelicida</i>
1	Chemical injury - Suspected	Abiotic disorder
1	Deteriorated sample	Deterioration
2	Grape downy mildew	<i>Plasmopara viticola</i>
3	Grapevine leafroll (GLRaV-3) - Not Detected	<i>Ampelovirus</i> Grapevine Leafroll Associated Virus 3
4	Grapevine Pierce's disease - Not Detected	<i>Xylella fastidiosa</i>

1	Grapevine red blotch (GRBaV)	Incetae sedis Grapevine Red Blotch Associated Virus
6	Grapevine red blotch (GRBaV) - Not Detected	Incetae sedis Grapevine Red Blotch Associated Virus
1	Insect damage	Class Insecta
2	Insufficient sample	Incomplete submission
3	No pathogen found	No Detection
4	Nutritional deficiency - Suspected	Abiotic disorder
30	Total for Grape	

#### Hazelnut; Filbert Nut

1	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Leaf spot	Phyllosticta sp./spp.
2	Total for Hazelnut; Filbert Nut	

#### Highbush Blueberry

1	Canker; Stem blight; Dieback	Botryosphaeria dothidea
1	Freeze; Frost; Cold damage	Abiotic disorder
2	Herbicide injury - Suspected	Abiotic disorder
4	Total for Highbush Blueberry	

#### Lemon

1	Excessive water	Abiotic disorder
1	Heat stress	Abiotic disorder
1	Scale insects	Order Homoptera
1	Sooty mold	Unidentified Fungus
4	Total for Lemon	

#### Malay Apple

1	Fire blight	Erwinia amylovora
1	Total for Malay Apple	

#### Meyer Lemon

1	Whiteflies	Family Aleyrodidae
1	Total for Meyer Lemon	

#### Muscadine Grape

1	Chemical injury - Suspected	Abiotic disorder
1	Crown and root rot	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Grape anthracnose; Birds-eye rot	Elsinoe ampelina
1	Grapevine Pierce's disease	Xylella fastidiosa
1	Grapevine Pierce's disease - Not Detected	Xylella fastidiosa

1	Insufficient sample	Incomplete submission
1	Phomopsis cane; Leaf spot; Excoriosis	<i>Diaporthe ampelina</i>
8	Total for Muscadine Grape	

#### Oriental Pear; Shinglo

1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Spider mites	Family Tetranychidae
2	Total for Oriental Pear; Shinglo	

#### Pawpaw

1	Phoma leaf spot	<i>Phoma</i> sp./spp.
1	Total for Pawpaw	

#### Peach

1	Anthracnose	<i>Colletotrichum</i> sp./spp.
1	Apple mosaic (ApMV) - Not Detected	<i>Ilarvirus</i> Apple Mosaic Virus
1	Bacterial canker - Suspected	<i>Pseudomonas syringae</i>
1	Bacterial leaf scorch - Not Detected	<i>Xylella fastidiosa</i>
1	Butterflies; Moths; Caterpillers	Order Lepidoptera
1	Canker; Dieback	<i>Valsa leucostoma</i>
1	Cherry leaf roll (CLRV) - Not Detected	<i>Nepovirus</i> Cherry Leaf Roll Virus
1	Coryneum blight (Shothole)	<i>Thyrostroma carpophilum</i>
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Fire blight	<i>Erwinia amylovora</i>
1	Freeze; Frost; Cold damage	Abiotic disorder
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Greater peachtree borer - Not Detected	<i>Synanthedon exitiosa</i>
1	Heart rot	Unidentified Agent
1	Hop stunt (HSVd) - Not Detected	<i>Hostuviroid</i> Hop Stunt Viroid
1	Insect damage	Class Insecta
1	Insufficient sample	Incomplete submission
2	Internal cracking	Abiotic disorder
1	Jelly fungus	<i>Exidia</i> sp./spp.
1	Lab notes	Lab comments
1	Lesser peachtree borer - Not Detected	<i>Synanthedon pictipes</i>
1	Lesser peachtree borer - Suspected	<i>Synanthedon pictipes</i>

1	Lichens	Lichenes
2	No pathogen found	No Detection
2	Oriental fruit moth	<i>Grapholita molesta</i>
2	Peach leaf curl	<i>Taphrina deformans</i>
1	Peach rosette mosaic (PrMV) - Not Detected	Nepovirus Peach Rosette Mosaic Virus
1	Phytoplasma disease - Not Detected	Phytoplasma sp./spp.
1	Plum pox (PPV) - Not Detected	Potyvirus Plum Pox Virus
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Prune dwarf (PDV) - Not Detected	Ilarvirus Prune Dwarf Virus
1	Prunus necrotic ringspot (PNRSV) - Not Detected	Ilarvirus Prunus Necrotic Ringspot Virus
1	Scab	<i>Fusicladium carpophilum</i>
1	Scab	<i>Venturia carpophila</i>
2	Scale insects	Order Homoptera
1	Tomato mosaic (ToMV) - Not Detected	Tobamovirus Tomato Mosaic Virus
1	Tomato ringspot (ToRSV) - Not Detected	Nepovirus Tomato Ringspot Virus
10	X-disease (Prunus spp.) - Not Detected	Candidatus Phytoplasma pruni 16SrIII
53	Total for Peach	

#### Pear

1	Brooks fruit spot	<i>Mycosphaerella pomi</i>
1	Cedar-quince rust	<i>Gymnosporangium clavipes</i>
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
4	Deteriorated sample	Deterioration
1	Fabraea leaf and fruit spot	<i>Diplocarpon mespili</i>
2	Fire blight	<i>Erwinia amylovora</i>
2	Insect damage	Class Insecta
2	Rust	<i>Gymnosporangium</i> sp./spp.
14	Total for Pear	

#### Pear (For Fruit)

1	Bitter rot	<i>Colletotrichum gloeosporioides</i>
1	Fire blight	<i>Erwinia amylovora</i>
1	Rust	<i>Gymnosporangium</i> sp./spp.
3	Total for Pear (For Fruit)	

#### Pecan

1	Anthracnose	<i>Colletotrichum gloeosporioides</i>
2	Bacterial leaf scorch - Not Detected	<i>Xylella fastidiosa</i>

1	Chemical injury - Suspected	Abiotic disorder
2	Deteriorated sample	Deterioration
2	Drought stress damage	Abiotic disorder
1	Environmental stress; Problem - Suspected	Abiotic disorder
3	Herbicide injury - Suspected	Abiotic disorder
1	Hickory shuckworm	<i>Cydia caryana</i>
1	Insect damage	Class Insecta
1	Lichens	Lichenes
1	Luna moth - Suspected	<i>Actias luna</i>
1	Pecan leaf scorch mite	<i>Eotetranychus hicoriae</i>
1	Pecan shuck decline	Abiotic disorder
1	Pecan; Hickory scab	<i>Fusicladium caryigenum</i>
1	Phylloxerans	Family Phylloxeridae
1	Poor pollination	Abiotic disorder
1	Sooty mold	Unidentified Fungus
2	Stink bugs	Family Pentatomidae
1	Sunscald - Suspected	Abiotic disorder
1	Yellow-bellied sapsucker - Suspected	<i>Sphyrapicus varius</i>
1	Yellowstriped armyworm	<i>Spodoptera ornithogalli</i>
27	Total for Pecan	

#### Plum

2	Black knot	<i>Apiosporina morbosa</i>
1	Butterflies; Moths; Caterpillers	Order Lepidoptera
2	Coryneum blight (Shothole)	<i>Thyrostroma carpophilum</i>
1	Deteriorated sample	Deterioration
1	Sooty mold	Unidentified Fungus
7	Total for Plum	

#### Purple Raspberry

1	Allexivirus Group - Not Detected	Allexivirus Group
1	Apple mosaic (ApMV) - Not Detected	<i>Ilarvirus Apple Mosaic Virus</i>
1	Arabis mosaic (ARMV) - Not Detected	<i>Nepovirus Arabis Mosaic Virus</i>
1	Carlavirus Group - Not Detected	Carlavirus Group
1	Cherry leaf roll (CLRV) - Not Detected	<i>Nepovirus Cherry Leaf Roll Virus</i>
1	Closteroviridae family	Family Closteroviridae
1	Cucumber mosaic (CMV) - Not Detected	<i>Cucumovirus Cucumber Mosaic Virus</i>
1	Impatiens necrotic spot (INSV) - Not Detected	<i>Tospovirus Impatiens Necrotic Spot Virus</i>

1	Luteovirus Group - Not Detected	Luteovirus Group
1	Polerovirus Group - Not Detected	Polerovirus Group
1	Potexvirus Group - Not Detected	Potexvirus Group
1	Potyviridae Family - Not Detected	Family Potyviridae
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Prunus necrotic ringspot (PNRSV) - Not Detected	Ilarvirus Prunus Necrotic Ringspot Virus
1	Raspberry bushy dwarf - Not Detected	Raspberry Bushy Dwarf Virus (RBDVA)
1	Raspberry ringspot (ch) - Not Detected	Raspberry Ringspot Virus (RPRSV) Cherry strain
1	Septoria leaf spot	Septoria sp./spp.
1	Strawberry latent ringspot - Not Detected	Sadwavirus Strawberry Latent Ringspot Virus (SLRSV)
1	Tobacco ringspot (TRSV) - Not Detected	Nepovirus Tobacco Ringspot Virus
1	Tobacco streak (TSV) - Not Detected	Ilarvirus Tobacco Streak Virus
1	Tomato black ring (TBRV) - Not Detected	Nepovirus Tomato Black Ring Virus
1	Tomato ringspot (ToRSV)	Nepovirus Tomato Ringspot Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
23	Total for Purple Raspberry	

#### Raspberry

1	Allexivirus Group - Not Detected	Allexivirus Group
1	Apple mosaic (ApMV) - Not Detected	Ilarvirus Apple Mosaic Virus
1	Arabis mosaic (ARMV) - Not Detected	Nepovirus Arabis Mosaic Virus
1	Carlavirus Group - Not Detected	Carlavirus Group
1	Cherry leaf roll (CLRV) - Not Detected	Nepovirus Cherry Leaf Roll Virus
1	Closteroviridae family	Family Closteroviridae
1	Crown and root rot	Phytophthora sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Luteovirus Group - Not Detected	Luteovirus Group
1	Polerovirus Group - Not Detected	Polerovirus Group
1	Potexvirus Group - Not Detected	Potexvirus Group
1	Potyviridae Family - Not Detected	Family Potyviridae
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Prunus necrotic ringspot (PNRSV) - Not Detected	Ilarvirus Prunus Necrotic Ringspot Virus

1	Raspberry bushy dwarf - Not Detected	Raspberry Bushy Dwarf Virus (RBDVA)
1	Raspberry ringspot (ch) - Not Detected	Raspberry Ringspot Virus (RPRSV) Cherry strain
1	Strawberry latent ringspot - Not Detected	Sadwavirus Strawberry Latent Ringspot Virus (SLRSV)
1	Tobacco ringspot (TRSV) - Not Detected	Nepovirus Tobacco Ringspot Virus
1	Tobacco streak (TSV) - Not Detected	Ilarvirus Tobacco Streak Virus
1	Tomato black ring (TBRV) - Not Detected	Nepovirus Tomato Black Ring Virus
1	Tomato ringspot (ToRSV)	Nepovirus Tomato Ringspot Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
23	Total for Raspberry	

#### Red Mulberry

1	Herbicide injury - Suspected	Abiotic disorder
1	Total for Red Mulberry	

#### Satsuma Tangerine

1	Sooty mold	Unidentified Fungus
1	Total for Satsuma Tangerine	

#### Serviceberry

1	Deteriorated sample	Deterioration
1	Spider mites	Family Tetranychidae
2	Total for Serviceberry	

#### Strawberry

3	Anthracnose	Colletotrichum sp./spp.
1	Anthracnose basal rot; Crown rot	Colletotrichum sp./spp.
1	Botrytis blight	Botrytis sp./spp.
6	Crown and root rot	Phytophthora sp./spp.
3	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	Crown/Stem rot	Neopestalotiopsis sp./spp.
1	Environmental stress; Problem - Suspected	Abiotic disorder
1	Fall armyworm	Spodoptera frugiperda
1	Flea beetles - Suspected	Subfamily Galerucinae; Tribe Alticini
1	Insect damage	Class Insecta
4	Leaf spot	Neopestalotiopsis sp./spp.
2	Leaf spot; Blight	Ramularia grevilleana
1	Neopestalotiopsis - Not Detected	Neopestalotiopsis sp./spp.

2	No pathogen found	No Detection
2	Pythium damping off	Pythium sp./spp.
3	Pythium root and/or crown rot	Pythium sp./spp.
1	Scale insects	Order Homoptera
1	Scorch	Abiotic disorder
2	Spider mites	Family Tetranychidae
1	Strawberry crown rot	Rhizoctonia fragariae
39	Total for Strawberry	

#### Walnut

1	Herbicide injury - Suspected	Abiotic disorder
1	Walnut witches' broom - Suspected	Candidatus Phytoplasma pruni 16SrIII
2	Total for Walnut	

#### Wild Cherry; Choke Cherry

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	No pathogen found	No Detection
2	Total for Wild Cherry; Choke Cherry	

#### Herb

##### Cilantro

1	Pythium damping off	Pythium sp./spp.
1	Unspecified pathology	Alternaria sp./spp.
2	Total for Cilantro	

##### Garlic

1	Crown and root rot	Phytophthora sp./spp.
1	Excessive water	Abiotic disorder
2	White rot - Not Detected	Stromatinia cepivora
4	Total for Garlic	

##### Lavender

1	Crown and root rot	Phytophthora sp./spp.
1	Total for Lavender	

##### Savory

1	Deteriorated sample	Deterioration
1	Total for Savory	

##### Sweet Basil

1	Thrips	Order Thysanoptera
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1 Total for Sweet Basil

House Plant

Anthurium Plant

1	Bacterial leaf spot	Unidentified Bacteria
1	Total for Anthurium Plant	

Corn Plant (Ornamental)

1	Fluoride toxicity - Suspected	Abiotic disorder
1	Total for Corn Plant (Ornamental)	

Multiple House Plants

1	Excessive water - Suspected	Abiotic disorder
1	Fluoride toxicity - Suspected	Abiotic disorder
1	Lab notes	Lab comments
1	Scorch - Suspected	Abiotic disorder
4	Total for Multiple House Plants	

Parlor Palm

1	Host-site mis-match	Abiotic disorder
1	Total for Parlor Palm	

Schefflera

1	Brown soft scale	Coccus hesperidum
1	Total for Schefflera	

Unknown House Plant

1	Whiteflies	Family Aleyrodidae
1	Total for Unknown House Plant	

Non-Plant Material

Insect/Arthropod ID Request

1	Miscellaneous debris	Identification Analysis
1	Total for Insect/Arthropod ID Request	

Potting Soil; Growing Media

1	Non-pathogenic; Saprophyte	Secondary Agents; Saprophytes; Unspecif.
6	Pythium root and/or crown rot	Pythium sp./spp.
5	Pythium root and/or crown rot - Not Detected	Pythium sp./spp.
12	Total for Potting Soil; Growing Media	

Residential Property

1	Butterflies; Moths; Caterpillers	Order Lepidoptera
1	Total for Residential Property	

Soil

1	Crown and root rot	<i>Phytophthora</i> sp./spp.
2	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Slime mold	Class Myxogastria; Mycetozoa
4	Total for Soil	

Water Sample

1	Pythium root and/or crown rot - Not Detected	<i>Pythium</i> sp./spp.
1	Total for Water Sample	

Perennials

Aster

1	Leaf rust; Rust	<i>Puccinia</i> sp./spp.
1	Total for Aster	

Asters

1	Aster yellows Phytoplasma - Not Detected	<i>Candidatus Phytoplasma asteris</i>
1	Total for Asters	

Astilbe

3	Deteriorated sample	Deterioration
3	Total for Astilbe	

Bee  
Balm

1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.
2	Total for Bee Balm	

Bigfruit evening primrose

1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Total for Bigfruit evening primrose	

Blue Sage

1	Mealybugs	Family Pseudococcidae
1	Total for Blue Sage	

Butterfly Bush; Summer Lilac

1	Southern blight	Sclerotium rolfsii
1	Total for Butterfly Bush; Summer Lilac	

Canna Lily

1	Lesser canna leafroller	Geshna cannalis
1	Total for Canna Lily	

Chrysanthemum

1	Root rot - Suspected	Unidentified Agent
1	Total for Chrysanthemum	

Clematis

1	Clematis wilt;Clematis blight	Calophoma clematidina
1	Clematis wilt;Clematis blight - Suspected	Calophoma clematidina
1	Spider mites	Family Tetranychidae
1	Sunscald - Suspected	Abiotic disorder
4	Total for Clematis	

Climbing Begonia

1	Nutritional deficiency - Suspected	Abiotic disorder
1	Total for Climbing Begonia	

Compass Plant

1	Alternaria leaf blight	Alternaria sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Lab comments	Lab notes
3	Total for Compass Plant	

Coneflower

1	Deteriorated sample	Deterioration
1	Insect damage	Class Insecta
2	Total for Coneflower	

Crowfoot; Buttercup (Ornamental)

1	Crown and root rot	Phytophthora sp./spp.
1	Total for Crowfoot; Buttercup (Ornamental)	

Daylily

1	Crown and root rot	Phytophthora sp./spp.
1	Total for Daylily	

**Echinacea Coneflower**

1	Aster yellows Phytoplasma - Suspected	Candidatus Phytoplasma asteris
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Flatid planthoppers	Family Flatidae
1	Insect damage	Class Insecta
1	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.
1	Sunflower moth	<i>Homoeosoma electellum</i>
1	White mold (Stem rot)	<i>Sclerotinia sclerotiorum</i>
8	Total for Echinacea Coneflower	

**Elephant Ear Plant**

1	Excessive water - Suspected	Abiotic disorder
1	Leaf spot	<i>Phyllosticta</i> sp./spp.
2	Total for Elephant Ear Plant	

**English Ivy**

1	Deteriorated sample	Deterioration
1	Total for English Ivy	

**False Dragonhead**

1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Stalk borer	<i>Papaipema nebris</i>
2	Total for False Dragonhead	

**Ferns**

1	Deteriorated sample	Deterioration
1	Mechanical damage	Abiotic disorder
2	Total for Ferns	

**Geranium**

1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Total for Geranium	

**Goldenrod**

1	Alternaria leaf blight	<i>Alternaria</i> sp./spp.
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	<i>Cucumovirus Cucumber Mosaic Virus</i>
1	Herbicide injury - Suspected	Abiotic disorder
1	Impatiens necrotic spot (INSV) - Not Detected	<i>Tospovirus Impatiens Necrotic Spot Virus</i>

1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
7	Total for Goldenrod	

#### Hellebore

2	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Downy mildew	Peronospora pulveracea
2	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Leaf spot	Coniothyrium hellebori
6	Total for Hellebore	

#### Hosta

1	Alternaria leaf blight	Alternaria sp./spp.
1	Anthracnose	Colletotrichum sp./spp.
1	Crown and root rot	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	High temperature damage - Suspected	Abiotic disorder
5	Total for Hosta	

#### Iris

1	Bacterial soft rot	Pectobacterium carotovorum
1	Bacterial stem rot	Erwinia carotovora
2	Insufficient sample	Incomplete submission
1	Iris borer	Macrocothra onusta
1	Iris leaf spot	Cladosporium iridis
6	Total for Iris	

#### Ironweed

1	Alternaria leaf blight	Alternaria sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Insect damage	Class Insecta
3	Total for Ironweed	

#### Ivy

1	Deteriorated sample	Deterioration
1	Total for Ivy	

#### Kudzu

1	Natural senescence	Abiotic disorder
1	Spider mites - Not Detected	Family Tetranychidae

## 2 Total for Kudzu

### Leucanthemum

1	Deteriorated sample	Deterioration
1	Total for Leucanthemum	

### Mondograss; Dwarf Lily Turf

1	Rhizoctonia root rot	Rhizoctonia sp./spp.
1	Total for Mondograss; Dwarf Lily Turf	

### Multiple Perennials

1	Flatid planthoppers	Family Flatidae
1	Total for Multiple Perennials	

### Penstemon; Beard-tongue

1	Crown and root rot	Phytophthora sp./spp.
1	Rust	Order Pucciniales
2	Total for Penstemon; Beard-tongue	

### Peony

4	Alfalfa mosaic (AMV) - Not Detected	Alfamovirus Alfalfa Mosaic Virus
4	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Crown and root rot	Phytophthora sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
4	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Deteriorated sample	Deterioration
1	Freeze; Frost; Cold damage	Abiotic disorder
4	Hosta virus X (HVX) - Not Detected	Potexvirus Hosta Virus X
4	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
3	No pathogen found	No Detection
2	Peony leaf blotch	Graphiosis chlorocephala
4	Phytophthora canker - Not Detected	Phytophthora sp./spp.
1	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
2	Powdery mildew	Erysiphe polygoni
4	Raspberry ringspot (ch) - Not Detected	Raspberry Ringspot Virus (RPRSV) Cherry strain
1	Rhizoctonia root rot	Rhizoctonia sp./spp.
4	Strawberry latent ringspot - Not Detected	Sadwavirus Strawberry Latent Ringspot Virus (SLRSV)

4	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
3	Tobacco rattle (TRV)	Tobravirus Tobacco Rattle Virus
2	Tobacco rattle (TRV) - Not Detected	Tobravirus Tobacco Rattle Virus
4	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
58	Total for Peony	

#### Phlox

2	Crown and root rot	Phytophthora sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Pythium root and/or crown rot	Pythium sp./spp.
4	Total for Phlox	

#### Pincushion Flower

1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Lace bugs	Family Tingidae
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
6	Total for Pincushion Flower	

#### Prairie Blazing Star

1	Crown and root rot	Phytophthora sp./spp.
1	Total for Prairie Blazing Star	

#### Rose

1	Alternaria leaf blight	Alternaria sp./spp.
3	Black spot (Rose)	Diplocarpon rosae
1	Black spot (Rose) - Suspected	Diplocarpon rosae
1	Canker; Coral spot; Blight; Dieback	Nectria cinnabarinna
1	Chemical injury - Suspected	Abiotic disorder
1	Crown and root rot	Phytophthora sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
11	Deteriorated sample	Deterioration
1	Fire blight - Not Detected	Erwinia amylovora
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder

1	Heat and water stress	Abiotic disorder
1	Herbicide injury G#9 Glyphosate - Suspected	Abiotic disorder
1	Impatiens necrotic spot (INSV)	Tospovirus Impatiens Necrotic Spot Virus
2	Insect damage	Class Insecta
1	Insufficient sample	Incomplete submission
6	No pathogen found	No Detection
1	Nutritional deficiency - Suspected	Abiotic disorder
2	Powdery mildew	<i>Podosphaera pannosa</i>
2	Root rot - Suspected	Unidentified Agent
1	Rose midge	<i>Dasineura rhodophaga</i>
19	Rose rosette disease (RRV)	Emaravirus Rose Rosette Virus
40	Rose rosette disease (RRV) - Not Detected	Emaravirus Rose Rosette Virus
3	Roseslug	<i>Endelomyia</i> sp./spp.
1	Spider mites	Family Tetranychidae
1	Tobacco mosaic (TMV) - Not Detected	<i>Tobamovirus</i> Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
105	Total for Rose	

#### Sedges

1	Pythium root and/or crown rot	Pythium sp./spp.
1	Total for Sedges	

#### Sedum

1	Black vine weevil-suspected	<i>Otiorhynchus sulcatus</i>
1	Sunscald - Suspected	Abiotic disorder
1	Tobacco mosaic (TMV)	<i>Tobamovirus</i> Tobacco Mosaic Virus
3	Total for Sedum	

#### Shasta Daisy

1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Pythium root and/or crown rot	Pythium sp./spp.
2	Total for Shasta Daisy	

#### St. Johnswort

1	Deteriorated sample	Deterioration
1	Total for St. Johnswort	

#### Strawflower

1	No pathogen found	No Detection
1	Total for Strawflower	

Tea Rose	1	Nutritional deficiency - Suspected	Abiotic disorder
	1	Total for Tea Rose	
Tulips	1	Corm and bulb rot	<i>Penicillium</i> sp./spp.
	1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
	2	Total for Tulips	
Unknown Bulb	1	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.
	1	Total for Unknown Bulb	
Wingstem	1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
	1	Cucumber mosaic (CMV) - Not Detected	<i>Cucumovirus</i> Cucumber Mosaic Virus
	1	Impatiens necrotic spot (INSV) - Not Detected	<i>Tospovirus</i> Impatiens Necrotic Spot Virus
	1	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.
	1	Root rot - Suspected	Unidentified Agent
	1	Tobacco mosaic (TMV) - Not Detected	<i>Tobamovirus</i> Tobacco Mosaic Virus
	1	Tomato spotted wilt (TSWV) - Not Detected	<i>Tospovirus</i> Tomato Spotted Wilt Virus
	7	Total for Wingstem	
Yarrow	1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
	1	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.
	2	Total for Yarrow	
Shrub			
Azalea; Rhododendron	6	Azalea lace bug	<i>Stephanitis pyrioides</i>
	2	Azalea leaf spot	<i>Pseudocercospora handelii</i>
	1	Azalea leafminer	<i>Caloptilia azaleella</i>
	2	Crown and root rot	<i>Phytophthora</i> sp./spp.
	9	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
	5	Deteriorated sample	Deterioration
	5	Freeze; Frost; Cold damage	Abiotic disorder

1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
2	Herbicide injury - Suspected	Abiotic disorder
1	Honeydew	Order Hemiptera
3	Host-site mis-match	Abiotic disorder
1	Insufficient sample	Incomplete submission
1	Lace bugs	Family Tingidae
1	Mechanical damage	Abiotic disorder
1	Mites	Order Acari
9	No pathogen found	No Detection
1	Nutritional deficiency - Suspected	Abiotic disorder
1	Ovulinia petal blight	Ovulinia azaleae
2	Pestalotia dieback	Pestalotia sp./spp.
12	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Phytophthora leaf spot positive - Confirmed	Phytophthora sp./spp.
2	Root rot - Suspected	Unidentified Agent
1	Sooty mold	Unidentified Fungus
70	Total for Azalea; Rhododendron	

#### Burford Holly

1	Black root rot - Not Detected	Berkeleyomyces basicola
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Leaf spot	Botryosphaeria sp./spp.
1	Oedema; Edema	Abiotic disorder
1	Pythium damping off - Not Detected	Pythium sp./spp.
1	Tea scale	Fiorinia theae
6	Total for Burford Holly	

#### Canada Yew

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	No pathogen found	No Detection
1	Root rot - Suspected	Unidentified Agent
3	Total for Canada Yew	

#### Crape Myrtle

7	Crapemyrtle bark scale	Acanthococcus lagerstroemiae
1	Crown and root rot	Phytophthora sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Freeze; Frost; Cold damage	Abiotic disorder
2	Herbicide injury - Suspected	Abiotic disorder
1	Powdery mildew	Erysiphe australiana

1	Rhizoctonia root rot	Rhizoctonia sp./spp.
3	Sooty mold	Unidentified Fungus
1	Spiders - Suspected	Order Araneae
18	Total for Crape Myrtle	

#### Dog's-hobble

1	Rhizoctonia root rot	Rhizoctonia sp./spp.
1	Total for Dog's-hobble	

#### Evergreen Azalea

1	Azalea lace bug	Stephanitis pyrioides
1	Spider mites	Family Tetranychidae
2	Total for Evergreen Azalea	

#### Firethorn; Lalancei Scarlet

1	Fire blight	Erwinia amylovora
1	Total for Firethorn; Lalancei Scarlet	

#### Fragrant Snowball Viburnum

1	Deteriorated sample	Deterioration
1	Total for Fragrant Snowball Viburnum	

#### Holly

4	Black root rot - Not Detected	Berkeleyomyces basicola
1	Botryosphaeria canker; Dieback	Diplodia mutila
1	Canker - Suspected	Unidentified Agent
1	Crown and root rot	Phytophthora sp./spp.
15	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Deteriorated sample	Deterioration
1	Excessive water	Abiotic disorder
1	Fertilizer injury - Suspected	Abiotic disorder
6	Freeze; Frost; Cold damage	Abiotic disorder
5	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Herbicide injury - Suspected	Abiotic disorder
1	Holly leafminer complex - Not Detected	Phytomyza sp./spp.
1	Hypoxylon canker	Biscogniauxia atropunctata
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
2	Insufficient sample	Incomplete submission
1	Lichens	Lichenes

10	No pathogen found	No Detection
1	Oedema; Edema	Abiotic disorder
1	Phomopsis dieback; Tip blight; Canker	Phomopsis sp./spp.
1	Phytophthora canker - Not Detected	Phytophthora sp./spp.
1	Potyvirus Group - Not Detected	Potyvirus Group
4	Pythium root and/or crown rot	Pythium sp./spp.
1	Pythium root and/or crown rot - Not Detected	Pythium sp./spp.
2	Rhizoctonia root rot	Rhizoctonia sp./spp.
4	Root rot - Suspected	Unidentified Agent
2	Scale insects	Order Homoptera
1	Sunscald	Abiotic disorder
2	Tea scale	Fiorinia theae
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
1	Whiteflies	Family Aleyrodidae
1	Wood boring insect damage	Class Insecta
78	Total for Holly	

#### Hydrangea

1	Bacterial blight - Not Detected	Xanthomonas sp./spp.
3	Bacterial leaf spot	Xanthomonas sp./spp.
2	Bacterial wilt - Not Detected	Ralstonia solanacearum
1	Carlavirus Group	Carlavirus Group
1	Carlavirus Group - Not Detected	Carlavirus Group
1	Crown and root rot	Phytophthora sp./spp.
3	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
5	Fungal leaf spot	Cercospora hydrangeae
2	Herbicide injury - Suspected	Abiotic disorder
1	Herbicide injury G#9 Glyphosate - Suspected	Abiotic disorder
1	Honeydew	Order Hemiptera
2	Host-site mis-match	Abiotic disorder
1	Insufficient sample	Incomplete submission
2	No pathogen found	No Detection
1	Oedema; Edema	Abiotic disorder
1	Pythium root and/or crown rot	Pythium sp./spp.
1	Wood boring insect damage	Class Insecta
30	Total for Hydrangea	

Japanese Barberry

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Scale insects	Order Homoptera
3	Total for Japanese Barberry	

Japanese Garden Juniper

1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Total for Japanese Garden Juniper	

Lilac

1	Leaf spot	Pseudocercospora sp./spp.
1	Total for Lilac	

Ninebark

1	Cercospora leaf spot	Cercospora sp./spp.
1	Total for Ninebark	

Panicle Hydrangea

1	Alternaria leaf blight	Alternaria sp./spp.
1	Bacterial wilt - Not Detected	Ralstonia solanacearum
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Host-site mis-match	Abiotic disorder
1	Nutritional deficiency - Suspected	Abiotic disorder
1	Pythium root and/or crown rot - Not Detected	Pythium sp./spp.
6	Total for Panicle Hydrangea	

Red-tip Photinia

1	Wood boring insect damage	Class Insecta
1	Total for Red-tip Photinia	

Spice Bush

1	Lindera severe mosaic (LSMaV) - Suspected	Lindera severe mosaic-associated emaravirus
1	Total for Spice Bush	

Sweetshrub; Carolina Allspice

1	Oedema; Edema	Abiotic disorder
1	Total for Sweetshrub; Carolina Allspice	

Tree

American Beech

1	No pathogen found	No Detection
1	Total for American Beech	

American Elm

1	Bacterial wetwood; Slime flux	Unidentified Bacteria
1	Dutch elm disease - Not Detected	<i>Ophiostoma</i> sp./spp.
1	Verticillium dieback	<i>Verticillium</i> sp./spp.
3	Total for American Elm	

American Sycamore

1	Spider mites	Family Tetranychidae
1	Sycamore anthracnose	<i>Apiognomonia</i> veneta
2	Total for American Sycamore	

Austrian Pine

1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Dothistroma needle blight	<i>Dothistroma septosporum</i>
1	Pitch canker - Suspected	<i>Fusarium</i> tricinctum
3	Total for Austrian Pine	

Beech

1	Ascomycete fungus	<i>Brachysporium</i> nigrum
1	Freeze; Frost; Cold damage	Abiotic disorder
2	Total for Beech	

Black Gum

1	Botryosphaeria canker; Dieback	<i>Diplodia</i> multila
1	Cicada egg-laying injury	Family Cicadidae
1	Noctuid moth	<i>Spodoptera</i> sp./spp.
3	Total for Black Gum	

Black Walnut

1	Normal plant growth	Identification Analysis
1	Orange slime flux	<i>Cryptococcus</i> macerans
2	Total for Black Walnut	

Black-jack Oak

2	No pathogen found	No Detection
1	Ramorum blight; Sudden oak death - Not Detected	<i>Phytophthora</i> ramorum
3	Total for Black-jack Oak	

**Blue Atlas Cedar**

2	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Cytospora canker; Dieback	Cytospora sp./spp.
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	No pathogen found	No Detection
5	Total for Blue Atlas Cedar	

**Callery Pear**

1	No pathogen found	No Detection
1	Rust	Gymnosporangium sp./spp.
2	Total for Callery Pear	

**Cedar**

1	Brown spot; Needle blight	Lecanosticta acicola
1	Canker	Unidentified Agent
1	Cedar-apple rust	Gymnosporangium juniperi-virginianae
2	Deteriorated sample	Deterioration
1	Dieback; Canker	Seiridium sp./spp.
1	Natural senescence	Abiotic disorder
2	No pathogen found	No Detection
1	Sirococcus shoot/tip blight; Blight	Sirococcus strobilinus
10	Total for Cedar	

**Cherry (Ornamental)**

1	Bacterial canker - Suspected	Pseudomonas syringae
1	Deteriorated sample	Deterioration
1	Insect damage	Class Insecta
1	No pathogen found	No Detection
1	Verticillium dieback	Verticillium sp./spp.
1	Wild cherry leaf spot	Pseudocercospora graphioides
1	Wood boring insect damage - Suspected	Class Insecta
7	Total for Cherry (Ornamental)	

**Chinese Parasol Tree**

1	Fasciation	Abiotic disorder
1	Herbicide injury - Suspected	Abiotic disorder
2	Total for Chinese Parasol Tree	

**Cryptomeria**

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
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2	Dieback; Canker	Seiridium sp./spp.
1	Dieback; Canker - Suspected	Seiridium sp./spp.
1	Excessive water	Abiotic disorder
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Natural senescence	Abiotic disorder
1	No pathogen found	No Detection
2	Pestalotiopsis needle blight; Tip blight	Pestalotiopsis sp./spp.
1	Phytophthora canker - Not Detected	Phytophthora sp./spp.
1	Squirrel damage - Suspected	Vertebrate Damage
12	Total for Cryptomeria	

#### Deodar Cedar

1	Insufficient sample	Incomplete submission
1	No pathogen found	No Detection
1	Sirococcus twig blight	Sirococcus sp./spp.
1	Sphaeropsis dieback	Sphaeropsis sp./spp.
4	Total for Deodar Cedar	

#### Eastern Black Cherry

1	Crown and root rot	Phytophthora sp./spp.
1	Lace bug	Corythucha sp./spp.
1	Scorch	Abiotic disorder
1	Tent caterpillar	Malacosoma sp./spp.
4	Total for Eastern Black Cherry	

#### Eastern Cottonwood; Necklace Poplar

1	Poplar petiolegall aphid	Pemphigus populitransversus
1	Total for Eastern Cottonwood; Necklace Poplar	

#### Eastern Red Cedar

1	Cedar and cypress bark beetle	Phloeosinus sp./spp.
1	Crown and root rot	Phytophthora sp./spp.
1	No pathogen found	No Detection
1	Rust	Gymnosporangium sp./spp.
4	Total for Eastern Red Cedar	

#### Eastern Redbud

1	Bacterial leaf scorch - Not Detected	Xylella fastidiosa
1	Cercospora leaf spot	Cercospora sp./spp.
1	Deteriorated sample	Deterioration

1	Eriophyid mites - Not Detected	Family Eriophyidae
1	Herbicide injury - Suspected	Abiotic disorder
1	Insufficient sample	Incomplete submission
1	Lecanium scales	<i>Lecanium</i> sp./spp.
7	Total for Eastern Redbud	

#### Eastern White Pine

1	Brown spot; Needle blight	<i>Lecanosticta acicola</i>
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Natural senescence	Abiotic disorder
1	Wood boring insect damage	Class Insecta
4	Total for Eastern White Pine	

#### Elm

1	Bacterial wetwood; Slime flux - Suspected	Unidentified Bacteria
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Deteriorated sample	Deterioration
1	Insufficient sample	Incomplete submission
1	Lab comments	Lab notes
1	Lace bugs	Family Tingidae
6	Total for Elm	

#### Elm (Ornamental)

1	Canker	<i>Sphaeropsis ulmicola</i>
1	Wood boring insect damage	Class Insecta
2	Total for Elm (Ornamental)	

#### Flowering Dogwood

1	No pathogen found	No Detection
1	Total for Flowering Dogwood	

#### Ginkgo

1	Bacterial leaf scorch - Suspected	<i>Xylella fastidiosa</i>
1	Herbicide injury - Suspected	Abiotic disorder
1	Root rot - Suspected	Unidentified Agent
3	Total for Ginkgo	

#### Green Giant Arborvitae

3	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Dieback; Canker	<i>Seiridium</i> sp./spp.
1	Pestalotiopsis needle blight; Tip blight	<i>Pestalotiopsis</i> sp./spp.

1	Scale insects	Order Homoptera
1	Seiridium canker	<i>Seiridium unicorn</i>
7	Total for Green Giant Arborvitae	

#### Hackberry

1	Wood rot fungus	<i>Perenniporia</i> sp./spp.
1	Total for Hackberry	

#### Hickory

1	Deteriorated sample	Deterioration
1	Hypoxylon canker - Suspected	<i>Biscogniauxia atropunctata</i>
1	Pecan leaf Phylloxera	<i>Phylloxera notabilis</i>
1	Wood boring insect damage	Class Insecta
4	Total for Hickory	

#### Japanese Flowering Cherry

1	No pathogen found	No Detection
1	Total for Japanese Flowering Cherry	

#### Japanese Lanceleaf Maple

1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Phomopsis dieback; Tip blight; Canker	<i>Phomopsis</i> sp./spp.
2	Total for Japanese Lanceleaf Maple	

#### Japanese Maple

1	Anthracnose	<i>Colletotrichum gloeosporioides</i>
1	Anthracnose	<i>Colletotrichum</i> sp./spp.
2	Bagworm moths	Family Psychidae
1	Botryosphaeria canker; Dieback	<i>Diplodia</i> <i>mutila</i>
1	Butt rot	Unidentified Agent
1	Butterflies; Moths; Caterpillars	Order Lepidoptera
1	Canker; Coral spot; Blight; Dieback	<i>Nectria cinnabarin</i>
1	Canker; Stem blight; Dieback	<i>Botryosphaeria dothidea</i>
1	Cicada egg-laying injury	Family Cicadidae
1	Colletotrichum stem decay	<i>Colletotrichum</i> sp./spp.
13	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
4	Deteriorated sample	Deterioration
1	Excessive water	Abiotic disorder
1	Freeze; Frost; Cold damage	Abiotic disorder
1	Fungal wood rot	<i>Schizophyllum commune</i>
1	Herbicide injury - Suspected	Abiotic disorder

3	Insect damage	Class Insecta
1	Insufficient sample	Incomplete submission
1	Japanese maple scale	<i>Lopholeucaspis japonica</i>
1	Maple canker	<i>Stegonsporium</i> sp./spp.
1	Maple Cristulariella leaf spot	<i>Cristulariella depraedans</i>
14	No pathogen found	No Detection
4	Powdery mildew	Order Erysiphales
1	Powdery mildew - Not Detected	Order Erysiphales
2	Pythium root and/or crown rot - Not Detected	<i>Pythium</i> sp./spp.
1	Root girdling	Abiotic disorder
1	Root rot	Unidentified Agent
3	Root rot - Suspected	Unidentified Agent
2	Root rot - Undetermined	Unidentified Agent
2	Scale insects	Order Homoptera
6	Scorch	Abiotic disorder
3	Scorch - Suspected	Abiotic disorder
1	Spider mites	Family Tetranychidae
1	Sunscald	Abiotic disorder
3	Sunscald - Suspected	Abiotic disorder
2	Verticillium dieback	<i>Verticillium</i> sp./spp.
1	Verticillium dieback - Not Detected	<i>Verticillium</i> sp./spp.
2	Wood boring insect damage	Class Insecta
88	Total for Japanese Maple	

#### Juniper

1	Deteriorated sample	Deterioration
1	Total for Juniper	

#### Leyland Cypress

1	Bagworm moths	Family Psychidae
2	Cypress canker	<i>Seiridium cardinale</i>
1	Cypress canker	<i>Seiridium cupressi</i>
1	Deteriorated sample	Deterioration
1	Dieback; Canker	<i>Seiridium</i> sp./spp.
2	Dieback; Canker - Suspected	<i>Seiridium</i> sp./spp.
1	Lab notes	Lab comments
1	Leaf spot	<i>Phyllosticta</i> sp./spp.
2	Minute cypress scale	<i>Carulaspis minima</i>
1	Natural senescence	Abiotic disorder
1	Normal plant growth	Identification Analysis
3	Pestalotiopsis needle blight; Tip blight	<i>Pestalotiopsis</i> sp./spp.

1	Scale insects	Order Homoptera
1	Seiridium canker	Seiridium unicorn
1	Seiridium canker - Suspected	Seiridium unicorn
20	Total for Leyland Cypress	

#### Loblolly Pine

1	Crown and root rot	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
4	No pathogen found	No Detection
1	Non-pathogenic; Saprophyte	Secondary Agents; Saprophytes; Unspecif.
1	Pine webworm	Pococera robustella
3	Pitch canker	Fusarium tricinctum
1	Soil compaction	Abiotic disorder
1	Wood boring insect damage	Class Insecta
13	Total for Loblolly Pine	

#### Magnolia

1	Bacterial wetwood; Slime flux - Suspected	Unidentified Bacteria
1	Crown and root rot	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
5	Freeze; Frost; Cold damage	Abiotic disorder
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Lichens	Lichenes
6	Natural senescence	Abiotic disorder
3	Natural senescence - Suspected	Abiotic disorder
1	No pathogen found	No Detection
1	Undetermined injury	Unidentified agent
21	Total for Magnolia	

#### Maple

1	Anthracnose	Colletotrichum gloeosporioides
2	Bacterial leaf scorch - Not Detected	Xylella fastidiosa
1	Bagworm moths	Family Psychidae
1	Canker	Unidentified Agent
1	Chemical injury - Suspected	Abiotic disorder
1	Chemical; Environmental injury - Suspected	Abiotic disorder
3	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	Deteriorated sample	Deterioration
1	Discula anthracnose	Discula sp./spp.
4	Herbicide injury - Suspected	Abiotic disorder

1	Host-site mis-match	Abiotic disorder
1	Mites	Order Acari
10	No pathogen found	No Detection
2	Root rot - Suspected	Unidentified Agent
2	Scale insects	Order Homoptera
1	Scorch	Abiotic disorder
1	Scorch - Suspected	Abiotic disorder
1	Spider mites	Family Tetranychidae
3	Verticillium dieback	Verticillium sp./spp.
2	Verticillium dieback - Not Detected	Verticillium sp./spp.
1	Wood boring insect damage	Class Insecta
42	Total for Maple	

#### Mulberry (Ornamental)

1	Bacterial wetwood; Slime flux	Unidentified Bacteria
1	No pathogen found	No Detection
1	White peach scale	<i>Pseudaulacaspis pentagona</i>
3	Total for Mulberry (Ornamental)	

#### Norway Spruce

1	Insect damage - Suspected	Class Insecta
1	No pathogen found	No Detection
2	Total for Norway Spruce	

#### Oak

1	Bacterial wetwood; Slime flux	Unidentified Bacteria
1	Canker	Unidentified Agent
2	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
2	Deteriorated sample	Deterioration
1	Gnarled oak leaf midge gallmaker	<i>Macrodiplosis niveipila</i>
4	Herbicide injury - Suspected	Abiotic disorder
1	Horned oak gall wasp	<i>Callirhytis cornigera</i>
1	Hypoxylon canker	<i>Biscogniauxia atropunctata</i>
3	Hypoxylon canker - Suspected	<i>Biscogniauxia atropunctata</i>
2	Insect damage	Class Insecta
1	Insufficient sample	Incomplete submission
1	Jelly fungus	<i>Exidia</i> sp./spp.
3	No pathogen found	No Detection
1	Oak powdery mildew	<i>Erysiphe alphitoides</i>
1	Oak skeletonizer	<i>Bucculatrix ainsliella</i>
1	Scale insects	Order Homoptera
1	Smooth patch	<i>Aleurodiscus oakesii</i>
1	Solitary oak leafminer	<i>Cameraria hamadryadella</i>

1	Twig pruner	Elaphidionoides villosus
2	Undetermined injury	Unidentified agent
1	Wood boring insect damage	Class Insecta
32	Total for Oak	

#### Paper Birch

1	Scale insects	Order Homoptera
1	Total for Paper Birch	

#### Pin Oak

1	Anthracnose	<i>Apiognomonia errabunda</i>
2	Bacterial leaf scorch	<i>Xylella fastidiosa</i>
1	Bacterial leaf scorch - Not Detected	<i>Xylella fastidiosa</i>
1	Bacterial wetwood; Slime flux	Unidentified Bacteria
1	Bark damage	Abiotic disorder
1	Deteriorated sample	Deterioration
1	Hypoxylon canker	<i>Biscogniauxia atropunctata</i>
1	Marginal leaf fold midge gallmaker	<i>Macrodiplosis erubescens</i>
1	No pathogen found	No Detection
1	Oak skeletonizer	<i>Bucculatrix ainsliella</i>
1	Oak wilt - Not Detected	<i>Bretziella fagacearum</i>
1	Obscure scale	<i>Melanaspis obscura</i>
1	Scorch	Abiotic disorder
1	Scorch - Suspected	Abiotic disorder
15	Total for Pin Oak	

#### Pine

1	Bark beetle; Engraver beetle- suspected	<i>Ips</i> sp./spp.
1	Brown spot; Needle blight	<i>Lecanosticta acicola</i>
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Deteriorated sample	Deterioration
1	Flathead; Metallic wood borers	Family Buprestidae
1	No pathogen found	No Detection
3	Pitch canker	<i>Fusarium tricinctum</i>
1	Wood boring insect damage	Class Insecta
11	Total for Pine	

#### Planetree; Sycamore

1	Butt rot - Suspected	Unidentified Agent
1	Ceratocystis canker - Suspected	<i>Ceratocystis fimbriata</i>

1	Insect damage	Class Insecta
1	Sycamore anthracnose	<i>Apiognomonia veneta</i>
4	Total for Planetree; Sycamore	

#### Post Oak

1	Aphid	<i>Stegophylla</i> sp./spp.
1	Bacterial leaf scorch - Not Detected	<i>Xylella fastidiosa</i>
1	Canker - Suspected	Unidentified Agent
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Fungal wood rot - Suspected	Unidentified Fungus
1	Insect damage	Class Insecta
1	Mechanical damage - Suspected	Abiotic disorder
1	No pathogen found	No Detection
1	Oak skeletonizer	<i>Bucculatrix ainsliella</i>
1	Oak twig canker and dieback	<i>Botryosphaeria quercuum</i>
1	Smooth patch	<i>Aleurodiscus oakesii</i>
1	Wood boring insect damage	Class Insecta
12	Total for Post Oak	

#### Red Horse Chestnut

1	Leaf rust	<i>Puccinia andropogonis</i>
1	Total for Red Horse Chestnut	

#### Red Maple

1	Anthracnose	<i>Colletotrichum gloeosporioides</i>
1	Brown soft scale	<i>Coccus hesperidum</i>
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
2	Deteriorated sample	Deterioration
1	Fungal wood rot	Unidentified Fungus
1	Herbicide injury - Suspected	Abiotic disorder
1	Honeydew	Order Hemiptera
1	Insect damage	Class Insecta
1	Leaf spot	<i>Pestalotiopsis</i> sp./spp.
2	Scale insects	Order Homoptera
1	Sooty mold	Unidentified Fungus
1	Sunscald - Suspected	Abiotic disorder
1	Wood boring insect damage	Class Insecta
15	Total for Red Maple	

#### Red Oak

1	Bacterial leaf scorch	<i>Xylella fastidiosa</i>
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1	Bacterial leaf scorch - Not Detected	Xylella fastidiosa
1	Bacterial wetwood; Slime flux	Unidentified Bacteria
1	Fusarium leaf spot	Fusarium sp./spp.
1	Insect damage	Class Insecta
1	Oak lecanium	Parthenolecanium quercifex
1	Oak powdery mildew	Erysiphe alphitoides
1	Phytophthora canker	Phytophthora sp./spp.
1	Wood boring insect damage	Class Insecta
1	Wood rot fungus	Ganoderma sp./spp.
10	Total for Red Oak	

#### Red Oaks

1	Bacterial leaf scorch	Xylella fastidiosa
1	Branch and twig borers	Family Bostriichidae
1	Branch and twig borers - Suspected	Family Bostriichidae
1	Dieback; Canker; Twig blight	Botryosphaeria sp./spp.
1	Gall wasps	Family Cynipidae
1	Hypoxylon canker	Biscogniauxia atropunctata
1	Insect damage	Class Insecta
2	Oak Kermes scale	Allokermes kingii
1	Oak powdery mildew	Erysiphe alphitoides
1	Oak twig canker and dieback	Botryosphaeria quercuum
2	Oak vein pocket gallmaker	Macrodiplosis qoruca
2	Spider mites	Family Tetranychidae
15	Total for Red Oaks	

#### Red Osier Dogwood

1	Insufficient sample	Incomplete submission
1	Total for Red Osier Dogwood	

#### Redbud

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Leafspot	Mycosphaerella cercidicola
1	Mechanical damage	Abiotic disorder
2	No pathogen found	No Detection
1	Vascular-streak dieback - Not Detected	Rhizoctonia theobromae
1	Vascular-streak dieback - Suspected	Rhizoctonia theobromae
1	Verticillium dieback - Not Detected	Verticillium sp./spp.

1	Verticillium dieback - Suspected	Verticillium sp./spp.
1	Wood boring insect damage	Class Insecta
11	Total for Redbud	

#### Southern Magnolia

1	Butterflies; Moths; Caterpillars	Order Lepidoptera
1	Crown and root rot	Phytophthora sp./spp.
6	Freeze; Frost; Cold damage	Abiotic disorder
1	Lab comments	Lab notes
5	Natural senescence	Abiotic disorder
1	Natural senescence - Suspected	Abiotic disorder
1	No pathogen found	No Detection
1	Non-pathogenic; Saprophyte	Secondary Agents; Saprophytes; Unspecif.
1	Phytophthora canker	Phytophthora sp./spp.
1	Phytophthora canker - Not Detected	Phytophthora sp./spp.
1	Pythium root and/or crown rot	Pythium sp./spp.
1	Root rot - Suspected	Unidentified Agent
21	Total for Southern Magnolia	

#### Sugar Maple

1	Bacterial leaf scorch - Not Detected	Xylella fastidiosa
1	Lichens	Lichenes
2	Total for Sugar Maple	

#### Tulip Tree

1	Bacterial wetwood; Slime flux	Unidentified Bacteria
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
3	No pathogen found	No Detection
5	Total for Tulip Tree	

#### Water Oak

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Heart rot	Unidentified Agent
1	Insect damage	Class Insecta
1	Oak leaf blister	Taphrina caerulescens
5	Total for Water Oak	

#### Weeping Blue Spruce

2	Crown and root rot	Phytophthora sp./spp.
2	Total for Weeping Blue Spruce	

**Weeping Cherry**

2	Deteriorated sample	Deterioration
1	Scale insects	Order Homoptera
1	Wood boring insect damage - Suspected	Class Insecta
4	Total for Weeping Cherry	

**Western Red Cedar**

1	Pestalotiopsis needle blight; Tip blight	Pestalotiopsis sp./spp.
1	Scale insects	Order Homoptera
2	Total for Western Red Cedar	

**White Fringetree**

1	Deteriorated sample	Deterioration
1	Total for White Fringetree	

**White Oak**

1	Bacterial wetwood; Slime flux - Suspected	Unidentified Bacteria
1	Butt rot - Suspected	Unidentified Agent
1	Cynipid gall wasp	<i>Neuroterus tantulus</i>
1	Deteriorated sample	Deterioration
1	Herbicide injury - Suspected	Abiotic disorder
2	Hypoxylon canker - Suspected	<i>Biscogniauxia atropunctata</i>
1	Insufficient sample	Incomplete submission
2	Lichens	Lichenes
1	Mites	Order Acari
3	No pathogen found	No Detection
1	Oak leaf blister	<i>Taphrina caerulescens</i>
1	Oak twig blight	<i>Coryneum kunzei</i>
1	Oak twig canker and dieback	<i>Botryosphaeria quercum</i>
1	Wool sower gall wasp	<i>Callirhytis seminator</i>
18	Total for White Oak	

**White Oaks**

1	Insect damage	Class Insecta
1	No pathogen found	No Detection
1	Smooth patch	<i>Aleurodiscus oakesii</i>
3	Total for White Oaks	

**Willow**

1	Cercospora leaf spot	<i>Pseudocercospora salicina</i>
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1	Crown and root rot	Phytophthora sp./spp.
1	Freeze; Frost; Cold damage	Abiotic disorder
1	Insect damage	Class Insecta
1	Willow leaf blight; Scab	<i>Venturia saliciperda</i>
5	Total for Willow	

#### Tree/Shrub

##### Alaska cypress

1	Deteriorated sample	Deterioration
1	Total for Alaska cypress	

##### Alberta Spruce

1	Rhizosphaera needle cast	<i>Rhizosphaera kalkhoffii</i>
1	Total for Alberta Spruce	

##### American Beautyberry

1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Total for American Beautyberry	

##### American Holly

1	Bacterial wetwood; Slime flux	Unidentified Bacteria
1	Crown and root rot	Phytophthora sp./spp.
1	Freeze; Frost; Cold damage	Abiotic disorder
1	Tea scale	<i>Fiorinia theae</i>
4	Total for American Holly	

##### American Yellowwood

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	No pathogen found	No Detection
2	Total for American Yellowwood	

##### Amur Maple

1	No pathogen found	No Detection
1	Total for Amur Maple	

##### Arborvitae

1	Bagworm moths	Family Psychidae
2	Canker - Suspected	Unidentified Agent
11	Crown and root rot	Phytophthora sp./spp.
6	Crown and root rot - Not Detected	Phytophthora sp./spp.
7	Deteriorated sample	Deterioration

2	Dieback; Canker	Seiridium sp./spp.
1	Dieback; Canker - Suspected	Seiridium sp./spp.
1	Excessive water - Suspected	Abiotic disorder
2	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
2	Heat stress	Abiotic disorder
1	Heat stress - Suspected	Abiotic disorder
1	High temperature damage	Abiotic disorder
1	High temperature damage - Suspected	Abiotic disorder
1	Insect damage	Class Insecta
1	Insect damage - Suspected	Class Insecta
1	Lab comments	Lab notes
1	Mechanical damage - Suspected	Abiotic disorder
3	Mites	Order Acari
8	Natural senescence	Abiotic disorder
14	No pathogen found	No Detection
3	Normal plant growth	Identification Analysis
5	Pestalotiopsis needle blight; Tip blight	Pestalotiopsis sp./spp.
2	Root rot - Suspected	Unidentified Agent
1	Scale insects	Order Homoptera
5	Spider mites	Family Tetranychidae
1	Winter injury	Abiotic disorder
84	Total for Arborvitae	

#### Arizona Cypress

1	Dieback; Canker	Seiridium sp./spp.
1	Total for Arizona Cypress	

#### Ash

1	Ash flower gall mite	Aceria fraxiniflora
1	Crown and root rot	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Emerald ash borer	Agrilus planipennis
1	Emerald ash borer - Suspected	Agrilus planipennis
1	Flea beetles	Subfamily Galerucinae; Tribe Alticinae
1	Wood boring insect damage	Class Insecta
7	Total for Ash	

#### Bigleaf Hydrangea

3	Alfalfa mosaic (AMV) - Not Detected	Alfamovirus Alfalfa Mosaic Virus
1	Anthracnose	Colletotrichum gloeosporioides

1	Anthracnose	Colletotrichum sp./spp.
3	Arabis mosaic (ARMV) - Not Detected	Nepovirus Arabis Mosaic Virus
1	Bacterial blight - Not Detected	Xanthomonas sp./spp.
3	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Bacterial wilt - Not Detected	Ralstonia solanacearum
3	Carlavirus Group - Not Detected	Carlavirus Group
3	Cherry leaf roll (CLRV) - Not Detected	Nepovirus Cherry Leaf Roll Virus
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
3	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Fungal leaf spot	Cercospora hydrangeae
1	Fungal leaf spot - Not Detected	Cercospora hydrangeae
3	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
3	No pathogen found	No Detection
3	Potexvirus Group - Not Detected	Potexvirus Group
2	Potyvirus Group - Not Detected	Potyvirus Group
1	Powdery mildew	Erysiphe sp./spp.
3	Rhizoctonia damping off - Not Detected	Rhizoctonia sp./spp.
2	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
3	Tobacco rattle (TRV) - Not Detected	Tobravirus Tobacco Rattle Virus
3	Tobacco ringspot (TRSV) - Not Detected	Nepovirus Tobacco Ringspot Virus
3	Tomato black ring (TBRV) - Not Detected	Nepovirus Tomato Black Ring Virus
3	Tomato ringspot (ToRSV) - Not Detected	Nepovirus Tomato Ringspot Virus
3	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
57	Total for Bigleaf Hydrangea	

#### Blue Holly

1	Pythium root and/or crown rot	Pythium sp./spp.
1	Total for Blue Holly	

#### Blue Pfitzer Juniper

1	Leaf spot	Botryodiplodia sp./spp.
1	Spider mites	Family Tetranychidae
2	Total for Blue Pfitzer Juniper	

#### Blue Spruce

1	Bagworm moths	Family Psychidae
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Cytospora canker; Dieback	<i>Cytospora</i> sp./spp.
1	No pathogen found	No Detection
1	Rhizosphaera needle cast	<i>Rhizosphaera kalkhoffii</i>
5	Total for Blue Spruce	

#### Boxleaf Japanese Holly

1	Canker; Stem blight; Dieback	<i>Botryosphaeria dothidea</i>
1	Dieback; Canker; Twig blight	<i>Botryosphaeria</i> sp./spp.
2	Total for Boxleaf Japanese Holly	

#### Boxwood

2	Boxwood blight; Leaf and stem blight	<i>Calonectria pseudonaviculata</i>
3	Boxwood leafminer	<i>Monarthropalpus flavus</i>
1	Boxwood leafminer - Not Detected	<i>Monarthropalpus flavus</i>
6	Boxwood Macrophoma leaf spot	<i>Dothiorella cadollei</i>
1	Boxwood mite - Suspected	<i>Eurytetranychus buxi</i>
1	Boxwood psyllid	<i>Psylla buxi</i>
13	Boxwood Volutella blight; Canker	<i>Pseudonectria buxi</i>
1	Boxwood Volutella blight; Canker - Suspected	<i>Pseudonectria buxi</i>
2	Chemical injury - Suspected	Abiotic disorder
7	Crown and root rot	<i>Phytophthora</i> sp./spp.
10	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	<i>Cucumovirus Cucumber Mosaic Virus</i>
2	Deteriorated sample	Deterioration
1	Drought stress damage - Suspected	Abiotic disorder
1	Excessive water	Abiotic disorder
3	Freeze; Frost; Cold damage	Abiotic disorder
10	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Herbicide injury - Suspected	Abiotic disorder
1	Honeydew	Order Hemiptera
1	Impatiens necrotic spot (INSV) - Not Detected	<i>Tospovirus Impatiens Necrotic Spot Virus</i>
1	Lab comments	Lab notes
3	No pathogen found	No Detection
1	Pythium damping off - Not Detected	<i>Pythium</i> sp./spp.
1	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.
2	Root rot - Suspected	Unidentified Agent

1	Root-knot nematodes	Meloidogyne sp./spp.
1	Sooty mold	Unidentified Fungus
1	Spider egg sac	Order Araneae
5	Spider mites	Family Tetranychidae
1	Spiders - Suspected	Order Araneae
1	Stem canker	Colletotrichum theobromicola
1	Temperature induced pathology	Abiotic disorder
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
89	Total for Boxwood	

#### Boxwood Hybrids

1	Boxwood blight; Leaf and stem blight	Calonectria pseudonaviculata
1	Crown and root rot	Phytophthora sp./spp.
2	Total for Boxwood Hybrids	

#### Buckthorn; Mock Orange

1	Deteriorated sample	Deterioration
1	Total for Buckthorn; Mock Orange	

#### Burning Bush

1	Alternaria leaf blight	Alternaria sp./spp.
1	Crown and root rot	Phytophthora sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	Euonymus scale	Unaspis euonymi
2	Mites	Order Acari
1	Oedema; Edema	Abiotic disorder
1	Powdery mildew	Erysiphe sp./spp.
1	Spider mites	Family Tetranychidae
10	Total for Burning Bush	

#### Butterfly Bush

1	Crown and root rot	Phytophthora sp./spp.
1	No pathogen found	No Detection
1	Root-knot nematodes	Meloidogyne sp./spp.
3	Total for Butterfly Bush	

#### Buttonbush

1	No pathogen found	No Detection
1	Total for Buttonbush	

**Camellia**

1	Cottony camellia scale	Pulvinaria floccifera
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Freeze; Frost; Cold damage	Abiotic disorder
1	Gray leaf blight	Pestalotiopsis sp./spp.
1	No pathogen found	No Detection
1	Purple camellia mite	Calacarus carinatus
1	Scorch - Suspected	Abiotic disorder
8	Total for Camellia	

**Cherry laurel**

2	Bacterial leaf spot	Pseudomonas sp./spp.
3	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Deteriorated sample	Deterioration
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
7	Total for Cherry laurel	

**Cherrybark Oak**

1	Deteriorated sample	Deterioration
1	Solitary oak leafminer	Cameraria hamadryadella
2	Total for Cherrybark Oak	

**Chinese Holly**

1	Scale insects	Order Homoptera
1	Total for Chinese Holly	

**Chinese Privet**

1	Deteriorated sample	Deterioration
1	Undetermined injury	Unidentified agent
2	Total for Chinese Privet	

**Clematis**

1	Clematis wilt;Clematis blight	Calophoma clematidina
1	Total for Clematis	

**Cleyera**

1	Freeze; Frost; Cold damage	Abiotic disorder
1	Pythium root and/or crown rot	Pythium sp./spp.
2	Total for Cleyera	

**Common Boxwood**

1	Boxwood leafminer	Monarthropalpus flavus
2	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Environmental stress; Problem - Suspected	Abiotic disorder
4	Freeze; Frost; Cold damage	Abiotic disorder
2	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	No pathogen found	No Detection
1	Scale insects	Order Homoptera
13	Total for Common Boxwood	

#### Common Camellia

1	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Total for Common Camellia	

#### Common Juniper

1	No pathogen found	No Detection
1	Spider mites	Family Tetranychidae
2	Total for Common Juniper	

#### Common Lilac

6	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Phytophthora leaf spot positive - Confirmed	Phytophthora sp./spp.
1	Pseudomonas blight	Pseudomonas syringae
1	Septoria leaf spot	Septoria sp./spp.
9	Total for Common Lilac	

#### Conifers, Softwoods

3	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	Dieback; Canker	Seiridium sp./spp.
1	Pestalotiopsis needle blight; Tip blight	Pestalotiopsis sp./spp.
6	Total for Conifers, Softwoods	

#### Contorted Filbert

1	Eastern filbert blight	Anisogramma anomala
1	Root rot - Suspected	Unidentified Agent
2	Total for Contorted Filbert	

#### Crabapple

1	Apple scab	Venturia inaequalis
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1	Crown and root rot	Phytophthora sp./spp.
1	Flatheaded appletree borer	<i>Chrysobothris femorata</i>
1	Insect damage	Class Insecta
1	Leaf spot	<i>Pestalotiopsis</i> sp./spp.
1	Leaf spot	<i>Phyllosticta</i> sp./spp.
6	Total for Crabapple	

#### Crape Myrtle

1	Cercospora leaf spot	<i>Cercospora</i> sp./spp.
5	Crapemyrtle bark scale	<i>Acanthococcus lagerstroemiae</i>
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	<i>Cucumovirus Cucumber Mosaic Virus</i>
1	Deteriorated sample	Deterioration
1	Herbicide injury - Suspected	Abiotic disorder
1	Herbicide injury G#4 Synthetic auxin - Suspected	Abiotic disorder
1	Honeydew	Order Hemiptera
1	Impatiens necrotic spot (INSV) - Not Detected	<i>Tospovirus Impatiens Necrotic Spot Virus</i>
1	Lab comments	Lab notes
1	Potyvirus Group - Not Detected	Potyvirus Group
3	Sooty mold	Unidentified Fungus
1	Tobacco mosaic (TMV) - Not Detected	<i>Tobamovirus Tobacco Mosaic Virus</i>
1	Tomato spotted wilt (TSWV) - Not Detected	<i>Tospovirus Tomato Spotted Wilt Virus</i>
20	Total for Crape Myrtle	

#### Cypress

1	Crown and root rot	Phytophthora sp./spp.
2	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Cypress canker	<i>Seiridium cupressi</i>
2	Deteriorated sample	Deterioration
1	Dieback; Canker	<i>Seiridium</i> sp./spp.
1	No pathogen found	No Detection
1	Normal plant growth	Identification Analysis
1	Pestalotiopsis needle blight; Tip blight	<i>Pestalotiopsis</i> sp./spp.
10	Total for Cypress	

#### Densiformis Yew

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Natural senescence	Abiotic disorder
2	Total for Densiformis Yew	

**Dogwood**

1	Cercospora leaf spot	Cercospora sp./spp.
2	Cercospora leaf spot	Pseudocercospora cornicola
1	Crown and root rot	Phytophthora sp./spp.
2	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Dogwood leaf spot	Septoria cornicola
1	Dogwood powdery mildew	Erysiphe pulchra
1	Herbicide injury - Suspected	Abiotic disorder
1	Insect damage	Class Insecta
1	Mechanical damage	Abiotic disorder
4	No pathogen found	No Detection
1	Oedema; Edema	Abiotic disorder
4	Scorch	Abiotic disorder
1	Wood boring insect damage	Class Insecta
21	Total for Dogwood	

**Downy Sunflower**

1	Alternaria leaf blight	Alternaria sp./spp.
2	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Rhizoctonia root rot	Rhizoctonia sp./spp.
1	White mold (Stem rot)	Sclerotinia sclerotiorum
5	Total for Downy Sunflower	

**Elaeagnus**

1	Crown and root rot	Phytophthora sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Elaeagnus phyllosticta leaf spot	Phyllosticta argyrea
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
3	No pathogen found	No Detection
1	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Sooty mold	Unidentified Fungus
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
12	Total for Elaeagnus	

**Elderberry**

1	Eriophyid mites	Family Eriophyidae
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1 Total for Elderberry

**Euonymus**

1	Euonymus scale	Unaspis euonymi
1	Pestalotiopsis canker/ dieback	Pestalotiopsis sp./spp.
2	Total for Euonymus	

**Evergreen Kousa Dogwood**

1	Herbicide injury - Suspected	Abiotic disorder
1	Total for Evergreen Kousa Dogwood	

**Expansa Japanese Yew**

1	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Total for Expansa Japanese Yew	

**Falsecypress**

1	Insufficient sample	Incomplete submission
1	Total for Falsecypress	

**Fir**

1	Deteriorated sample	Deterioration
1	Total for Fir	

**Flowering Cherry**

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Lab comments	Lab notes
1	Phoma leaf spot - Suspected	Phoma sp./spp.
4	Total for Flowering Cherry	

**Foster Holly**

1	Environmental stress; Problem	Abiotic disorder
1	Spiders - Suspected	Order Araneae
2	Total for Foster Holly	

**Frangipani; Plumeria**

1	Scorch	Abiotic disorder
1	Total for Frangipani; Plumeria	

**Gardenia**

1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
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2	Insufficient sample	Incomplete submission
3	Total for Gardenia	

#### Hawthorn

1	Deteriorated sample	Deterioration
1	Entomosporium leaf spot	Entomosporium sp./spp.
2	Total for Hawthorn	

#### Heller Holly; Mushroom Holly

1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Scale insects	Order Homoptera
2	Total for Heller Holly; Mushroom Holly	

#### Hemlock

1	Crown and root rot	Phytophthora sp./spp.
1	Rhizoctonia root rot	Rhizoctonia sp./spp.
2	Total for Hemlock	

#### Hibiscus

2	Deteriorated sample	Deterioration
1	Insect damage	Class Insecta
1	No pathogen found	No Detection
4	Total for Hibiscus	

#### Hicks Anglojap Yew

1	Crown and root rot	Phytophthora sp./spp.
1	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Phytophthora leaf spot positive - Confirmed	Phytophthora sp./spp.
3	Total for Hicks Anglojap Yew	

#### Hinoki Falsecypress

1	Crown and root rot	Phytophthora sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Natural senescence - Suspected	Abiotic disorder
1	No pathogen found	No Detection
4	Total for Hinoki Falsecypress	

#### Hollywood Juniper

1	Bagworm moths	Family Psychidae
1	Total for Hollywood Juniper	

### Hydrangea

2	Cercospora leaf spot	Cercospora sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Fungal leaf spot	Cercospora hydrangeae
1	Host-site mis-match	Abiotic disorder
1	Leaf spot	Phyllosticta sp./spp.
2	Natural senescence	Abiotic disorder
1	Root problems	Abiotic disorder
1	Scorch	Abiotic disorder
1	Spider mites	Family Tetranychidae
12	Total for Hydrangea	

### Italian Cypress

2	Cypress canker	Seiridium cupressi
1	Deteriorated sample	Deterioration
1	Scale insects	Order Homoptera
4	Total for Italian Cypress	

### Japanese Andromeda

1	Canker - Suspected	Unidentified Agent
1	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
2	Total for Japanese Andromeda	

### Japanese Black Pine

1	Pine wilt nematode (Pinewood)	Bursaphelenchus xylophilus
1	Total for Japanese Black Pine	

### Japanese Boxwood

1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Spider mites	Family Tetranychidae
2	Total for Japanese Boxwood	

### Japanese Flowering Crabapple

1	Deteriorated sample	Deterioration
1	Total for Japanese Flowering Crabapple	

### Japanese Holly

2	Deteriorated sample	Deterioration
1	No pathogen found	No Detection
3	Total for Japanese Holly	

Japanese Plum-yew

2	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
2	Total for Japanese Plum-yew	

Japanese Privet

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	No pathogen found	No Detection
2	Total for Japanese Privet	

Japanese Yew

1	Crown and root rot	Phytophthora sp./spp.
1	No pathogen found	No Detection
1	Phytophthora canker - Not Detected	Phytophthora sp./spp.
3	Total for Japanese Yew	

Juniper

1	Botryosphaeria canker; Dieback	Diplodia multila
2	Crown and root rot	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
1	Flathead; Metallic wood borers	Family Buprestidae
1	Freeze; Frost; Cold damage	Abiotic disorder
2	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Insufficient sample	Incomplete submission
3	Kabatina tip blight; Needle blight	Kabatina juniperi
5	No pathogen found	No Detection
1	Normal plant growth	Identification Analysis
3	Phomopsis tip blight; Needle blight	Phomopsis juniperovora
2	Spider mites	Family Tetranychidae
23	Total for Juniper	

Laurel

1	Crown and root rot	Phytophthora sp./spp.
2	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Deteriorated sample	Deterioration
3	No pathogen found	No Detection
1	Scorch - Suspected	Abiotic disorder
8	Total for Laurel	

Ligustrum; Privet

1	Crown and root rot	Phytophthora sp./spp.
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1	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	No pathogen found	No Detection
1	Pythium root and/or crown rot	Pythium sp./spp.
1	Spider mites	Family Tetranychidae
1	Whiteflies	Family Aleyrodidae
7	Total for Ligustrum; Privet	

#### Lilac

1	Crown and root rot	Phytophthora sp./spp.
1	Insect damage	Class Insecta
1	No pathogen found	No Detection
2	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
5	Total for Lilac	

#### Live Oak

1	Canker	Unidentified Agent
1	Deteriorated sample	Deterioration
2	Total for Live Oak	

#### Loropetalum; Chinese Fringe Flower

1	Bacterial gall	Pseudomonas savastanoi
2	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	Deteriorated sample	Deterioration
2	No pathogen found	No Detection
7	Total for Loropetalum; Chinese Fringe Flower	

#### Nandina

1	Deteriorated sample	Deterioration
1	Total for Nandina	

#### Nellie R. Stevens Holly

1	Freeze; Frost; Cold damage	Abiotic disorder
1	Root rot - Suspected	Unidentified Agent
2	Total for Nellie R. Stevens Holly	

#### Nuttall Oak

1	Chemical; Environmental injury - Suspected	Abiotic disorder
1	Oak skeletonizer	Bucculatrix ainsliella
2	Total for Nuttall Oak	

#### Oakleaf Hydrangea

1	Aphids; Plant lice	Family Aphididae
1	Bacterial leaf spot	<i>Xanthomonas</i> sp./spp.
2	Bacterial wilt - Not Detected	<i>Ralstonia solanacearum</i>
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Herbicide injury G#9 Glyphosate - Suspected	Abiotic disorder
1	Honeydew	Order Hemiptera
1	Insufficient sample	Incomplete submission
1	Lace bug	<i>Corythucha</i> sp./spp.
1	Lecanium scales	<i>Lecanium</i> sp./spp.
2	Mites	Order Acari
1	No pathogen found	No Detection
1	Sooty mold	Unidentified Fungus
14	Total for Oakleaf Hydrangea	

#### Ozark chinquapin

1	Woodboring weevils	Family Curculionidae
1	Total for Ozark chinquapin	

#### Pear (Ornamental)

1	Deteriorated sample	Deterioration
1	Fire blight - Not Detected	<i>Erwinia amylovora</i>
2	Total for Pear (Ornamental)	

#### Peegee Hydrangea

1	Sunscald - Suspected	Abiotic disorder
1	Target spot	<i>Corynespora cassiicola</i>
2	Total for Peegee Hydrangea	

#### Persimmon (Ornamental)

1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Total for Persimmon (Ornamental)	

#### Pieris

4	Phytophthora leaf spot negative - Not Detected	<i>Phytophthora</i> sp./spp.
4	Total for Pieris	

#### Pieris japonica hybrids

5	Phytophthora leaf spot negative - Not Detected	<i>Phytophthora</i> sp./spp.
1	Phytophthora leaf spot positive - Confirmed	<i>Phytophthora</i> sp./spp.
6	Total for Pieris japonica hybrids	

Pink Flowering Dogwood

1	No pathogen found	No Detection
1	Total for Pink Flowering Dogwood	

Quince

1	Deteriorated sample	Deterioration
1	Total for Quince	

Red Buckeye

1	Deteriorated sample	Deterioration
1	Total for Red Buckeye	

Rhododendron

1	Azalea lace bug	Stephanitis pyrioides
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Gray leaf blight	Pestalotiopsis sp./spp.
1	Insect damage	Class Insecta
2	Natural senescence	Abiotic disorder
1	No pathogen found	No Detection
1	Oedema; Edema	Abiotic disorder
13	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Phytophthora leaf spot positive - Confirmed	Phytophthora sp./spp.
1	Root rot - Undetermined	Unidentified Agent
23	Total for Rhododendron	

Rhododendron hybrids

10	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
4	Phytophthora leaf spot positive - Confirmed	Phytophthora sp./spp.
14	Total for Rhododendron hybrids	

Rose-of-sharon; Shrub-althea

1	Chemical; Environmental injury - Suspected	Abiotic disorder
2	No pathogen found	No Detection
3	Total for Rose-of-sharon; Shrub-althea	

Sakaki; Japanese Cleyera

1	Crown and root rot	Phytophthora sp./spp.
1	Total for Sakaki; Japanese Cleyera	

San Jose Holly

1	Black root rot	Berkeleyomyces basicola
1	Total for San Jose Holly	

Sasanqua Camellia

2	Oedema; Edema	Abiotic disorder
4	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
6	Total for Sasanqua Camellia	

Sassafras

s

1	Verticillium dieback	Verticillium sp./spp.
1	Total for Sassafras	

Saucer Magnolia

1	Glomerella leaf blight	Colletotrichum gloeosporioides
1	Lab comments	Lab notes
1	Oedema; Edema	Abiotic disorder
3	Total for Saucer Magnolia	

Savannah Holly

1	Root rot - Suspected	Unidentified Agent
1	Trunk girdling suspected	Abiotic disorder
2	Total for Savannah Holly	

Sawara Falsecypress

2	Deteriorated sample	Deterioration
2	Total for Sawara Falsecypress	

Sawtooth Oak

1	Anthracnose	Apiognomonia errabunda
1	No pathogen found	No Detection
2	Total for Sawtooth Oak	

Serviceberry

1	Deteriorated sample	Deterioration
1	Total for Serviceberry	

Shrubby Yew Podocarpus

3	Freeze; Frost; Cold damage	Abiotic disorder
3	Total for Shrubby Yew Podocarpus	

Silver (Tough Bully) Buckthorn

1	Viruses	Viruses
1	Total for Silver (Tough Bully) Buckthorn	

Spirea

1	Alternaria leaf blight	Alternaria sp./spp.
1	Cercospora leaf spot	Cercospora sp./spp.
2	Total for Spirea	

Spruce (Ornamental)

1	Cytospora canker; Dieback	Cytospora sp./spp.
1	Total for Spruce (Ornamental)	

Star Magnolia

1	Wood boring insect damage - Suspected	Class Insecta
1	Total for Star Magnolia	

Sweet Bay Magnolia

1	Natural senescence	Abiotic disorder
1	Total for Sweet Bay Magnolia	

Sweetgum

1	Armillaria root rot	Armillaria sp./spp.
1	Bagworm moths	Family Psychidae
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Lepidopteran leafminer	Phyllocnistis sp./spp.
1	No pathogen found	No Detection
5	Total for Sweetgum	

Tuliptree

1	No pathogen found	No Detection
1	Total for Tuliptree	

Umbrella Pine

1	Crown and root rot	Phytophthora sp./spp.
1	No pathogen found	No Detection
2	Total for Umbrella Pine	

Unknown Tree/Shrub

1	Cercospora leaf spot	Cercospora sp./spp.
1	Deteriorated sample	Deterioration

1	Environmental stress; Problem - Suspected	Abiotic disorder
1	Lichens	Lichenes
1	Magnolias	Family Magnoliaceae
1	Scale insects - Not Detected	Order Homoptera
1	Septoria leaf spot	Septoria sp./spp.
1	Wood boring insect damage	Class Insecta
8	Total for Unknown Tree/Shrub	

#### Variegated Red-twig Dogwood

1	Deteriorated sample	Deterioration
1	Total for Variegated Red-twig Dogwood	

#### Viburnum

1	Herbicide injury - Suspected	Abiotic disorder
1	No pathogen found	No Detection
1	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Scale insects	Order Homoptera
4	Total for Viburnum	

#### Ward Anglojap Yew

1	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Total for Ward Anglojap Yew	

#### Weeping Willow

1	Cercospora leaf spot	Pseudocercospora salicina
1	Phytophthora canker - Not Detected	Phytophthora sp./spp.
2	Root rot - Suspected	Unidentified Agent
2	Willow black canker	Colletotrichum salicis
1	Willow black canker - Not Detected	Colletotrichum salicis
7	Total for Weeping Willow	

#### Weigela

1	Bacterial leaf scorch - Not Detected	Xylella fastidiosa
1	Scorch	Abiotic disorder
2	Total for Weigela	

#### Willow Oak

1	Anthracnose	Apiognomonia errabunda
1	Cicada egg-laying injury	Family Cicadidae

4	Deteriorated sample	Deterioration
1	Lichens	Lichenes
2	No pathogen found	No Detection
9	Total for Willow Oak	

#### Wisteria

2	Spider mites	Family Tetranychidae
2	Total for Wisteria	

#### Yaupon

1	Crown and root rot	Phytophthora sp./spp.
2	No pathogen found	No Detection
3	Total for Yaupon	

#### Yew

4	Crown and root rot	Phytophthora sp./spp.
1	Herbicide injury - Suspected	Abiotic disorder
1	Mites	Order Acari
6	Total for Yew	

#### Turf

##### Bermudagrass - Turf

1	Algae	Unidentified Algae
1	Bermudagrass mite	Eriophyes cynodoniensis
14	Bermudagrass scale	Odonaspis ruthae
41	Billbug	Sphenophorus sp./spp.
1	Broomsedge bluestem	Andropogon virginicus
2	Curvularia blight; Leaf spot	Curvularia sp./spp.
151	Deteriorated sample (Turf)	Deterioration
13	Freeze; Frost; Cold damage	Abiotic disorder
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Groundpearls	Margarodes sp./spp.
4	Helminthosporium leaf spot	Bipolaris cynodontis
23	Insect damage on Turfgrass	Class Insecta
1	Insufficient sample	Incomplete submission
75	Large patch	Rhizoctonia solani
1	Leaf rust; Rust	Puccinia sp./spp.
1	Nutritional deficiency	Abiotic disorder
1	Physiological drought	Abiotic disorder
104	Pythium blight; Cottony blight	Pythium sp./spp.

1	Pythium blight; Cottony blight - Suspected	Pythium sp./spp.
2	Rust	<i>Puccinia cynodontis</i>
1	Slime mold	Class Myxogastria; Mycetozoa
1	Smooth crabgrass	<i>Digitaria ischaemum</i>
8	Spring dead spot	<i>Ophiosphaerella</i> sp./spp.
37	Take all	<i>Gaeumannomyces graminis</i>
8	White grubs (Scarab beetles)	Family Scarabaeidae
2	White grubs (Scarab beetles) - Suspected	Family Scarabaeidae
496	Total for Bermudagrass - Turf	

#### Centipedegrass

3	Deteriorated sample (Turf)	Deterioration
2	Insect damage on Turfgrass	Class Insecta
4	Large patch	<i>Rhizoctonia solani</i>
7	Pythium blight; Cottony blight	Pythium sp./spp.
1	Take all	<i>Gaeumannomyces graminis</i>
17	Total for Centipedegrass	

#### Fescues

2	Brown patch	<i>Rhizoctonia</i> sp./spp.
4	Pythium blight; Cottony blight	Pythium sp./spp.
6	Total for Fescues	

#### Grass

1	Billbug	<i>Sphenophorus</i> sp./spp.
1	Take all	<i>Gaeumannomyces graminis</i>
2	Total for Grass	

#### Johnsongrass

1	Deteriorated sample	Deterioration
1	Total for Johnsongrass	

#### Lilyturf; Bordergrass

2	Deteriorated sample	Deterioration
2	Total for Lilyturf; Bordergrass	

#### Mixed Grasses

1	Pythium blight; Cottony blight	Pythium sp./spp.
1	Total for Mixed Grasses	

#### St. Augustinegrass

1	Bermudagrass scale	Odonaspis ruthae
2	Billbug	Sphenophorus sp./spp.
18	Deteriorated sample (Turf)	Deterioration
7	Gray leaf spot	Pyricularia grisea
1	Insect damage on Turfgrass	Class Insecta
6	Large patch	Rhizoctonia solani
1	Leaf rust; Rust - Suspected	Puccinia sp./spp.
7	Pythium blight; Cottony blight	Pythium sp./spp.
1	Pythium blight; Cottony blight - Suspected	Pythium sp./spp.
24	Take all	Gaeumannomyces graminis
1	White grubs (Scarab beetles)	Family Scarabaeidae
69	Total for St. Augustinegrass	

#### Tall Fescue - Turf

1	Deteriorated sample (Turf)	Deterioration
1	Insufficient sample	Incomplete submission
2	Total for Tall Fescue - Turf	

#### Turfgrass

1	Large patch	Rhizoctonia solani
1	Pythium blight; Cottony blight	Pythium sp./spp.
2	Total for Turfgrass	

#### Unknown Turf

1	Bermuda grass	Cynodon sp./spp.
1	Lab comments	Lab notes
1	Pythium blight; Cottony blight	Pythium sp./spp.
3	Total for Unknown Turf	

#### Zoysia Grass

65	Billbug	Sphenophorus sp./spp.
1	Billbug - Suspected	Sphenophorus sp./spp.
2	Curvularia blight; Leaf spot	Curvularia sp./spp.
5	Dense thatch layer	Abiotic disorder
1	Deteriorated sample	Deterioration
100	Deteriorated sample (Turf)	Deterioration
1	Dormancy	Abiotic disorder
5	Freeze; Frost; Cold damage	Abiotic disorder
4	Freeze; Frost; Cold damage - Not Detected	Abiotic disorder
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
1	Helminthosporium leaf spot	Bipolaris cynodontis

3	Host-site mis-match	Abiotic disorder
9	Insect damage on Turfgrass	Class Insecta
1	Insect damage on Turfgrass - Not Detected	Class Insecta
91	Large patch	<i>Rhizoctonia solani</i>
1	Physiological drought	Abiotic disorder
111	Pythium blight; Cottony blight	<i>Pythium</i> sp./spp.
2	Rust; Leaf rust	<i>Puccinia zoysiae</i>
3	Spring dead spot	<i>Ophiophaerella</i> sp./spp.
49	Take all	<i>Gaeumannomyces graminis</i>
3	White grubs (Scarab beetles)	Family Scarabaeidae
1	White grubs (Scarab beetles) - Suspected	Family Scarabaeidae
1	Wireworms (Click beetles)	Family Elateridae
461	Total for Zoysia Grass	

#### Zoysia; Japanese Lawnglass

6	Billbug	<i>Sphenophorus</i> sp./spp.
1	Butterflies; Moths; Caterpillers	Order Lepidoptera
1	Curvularia blight; Leaf spot	<i>Curvularia</i> sp./spp.
1	Dense thatch layer	Abiotic disorder
1	Insect damage on Turfgrass	Class Insecta
1	Lab notes	Lab comments
7	Large patch	<i>Rhizoctonia solani</i>
13	Pythium blight; Cottony blight	<i>Pythium</i> sp./spp.
5	Take all	<i>Gaeumannomyces graminis</i>
1	White grubs (Scarab beetles)	Family Scarabaeidae
37	Total for Zoysia; Japanese Lawnglass	

#### Unknown

#### Unknown

1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Lace bugs	Family Tingidae
1	Plant/Weed Identification Request	Identification request
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
1	Whiteflies	Family Aleyrodidae
8	Total for Unknown	

## Vegetables

### Arugula

1	Bacterial blight - Not Detected	Xanthomonas sp./spp.
1	Crown and root rot	Phytophthora sp./spp.
1	Pythium damping off	Pythium sp./spp.
3	Total for Arugula	

### Beans; Peas; Dolichos

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Pythium damping off	Pythium sp./spp.
2	Total for Beans; Peas; Dolichos	

### Bell Pepper

2	Bacterial canker - Not Detected	Clavibacter michiganensis subsp michiganensis
1	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Crown and root rot	Phytophthora sp./spp.
2	Crown and root rot - Not Detected	Phytophthora sp./spp.
5	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Deteriorated sample	Deterioration
1	Herbicide injury - Suspected	Abiotic disorder
1	Herbicide injury G#4 Synthetic auxin - Suspected	Abiotic disorder
5	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
2	Insect damage	Class Insecta
1	Lab comments	Lab notes
1	No pathogen found	No Detection
1	Pepino mosaic (PepMV) - Not Detected	Potexvirus Pepino Mosaic Virus
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Pythium root and/or crown rot	Pythium sp./spp.
1	Root rot - Suspected	Unidentified Agent
1	Southern blight	Sclerotium rolfsii
1	Tobacco etch (TEV) - Not Detected	Potyvirus Tobacco Etch Virus
1	Tobacco mosaic (TMV)	Tobamovirus Tobacco Mosaic Virus
4	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
5	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
1	Tomato; Pepper bacterial spot	Xanthomonas campestris pv. vesicatoria

40 Total for Bell Pepper

Bush Bean

1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Lab comments	Lab notes
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
6	Total for Bush Bean	

Cabbage

1	Broad mite	Polyphagotarsonemus latus
1	Total for Cabbage	

Cherry Tomato

1	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Bacterial wilt	Ralstonia solanacearum
2	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Early blight; Leaf spot - Not Detected	Alternaria solani
3	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Lab comments	Lab notes
1	Late blight - Not Detected	Phytophthora infestans
2	Nutritional deficiency	Abiotic disorder
2	Nutritional deficiency - Suspected	Abiotic disorder
1	Oedema; Edema	Abiotic disorder
1	Pepino mosaic (PepMV) - Not Detected	Potexvirus Pepino Mosaic Virus
2	Septoria leaf spot	Septoria lycopersici
2	Spider mites	Family Tetranychidae
1	Tobacco etch (TEV) - Not Detected	Potyvirus Tobacco Etch Virus
3	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tobacco streak (TSV) - Not Detected	Ilarvirus Tobacco Streak Virus
1	Tomato aspermy (TAV) - Not Detected	Cucumovirus Tomato Aspermy Virus
2	Tomato Brown Rugose Fruit (ToBRFV) - Not Detected	Tobamovirus Tomato Brown Rugose Fruit Virus

1	Tomato leaf curl New Delhi virus - Not Detected	Begomovirus ToLCNDV Tomato leaf curl New Delhi virus
1	Tomato mosaic (ToMV) - Not Detected	Tobamovirus Tomato Mosaic Virus
1	Tomato ringspot (ToRSV) - Not Detected	Nepovirus Tomato Ringspot Virus
3	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
1	Yellow shoulder; Water imbalance	Abiotic disorder
1	Zippering	Abiotic disorder
36	Total for Cherry Tomato	

#### Cole Crops

1	Aphids; Plant lice	Family Aphididae
1	Total for Cole Crops	

#### Corn

1	Chemical injury - Suspected	Abiotic disorder
1	Total for Corn	

#### Cowpea

1	Ascochyta leaf and pod spot	Ascochyta pisi
1	Total for Cowpea	

#### Cucumber

3	Anthracnose	Colletotrichum orbiculare
2	Aphids; Plant lice	Family Aphididae
1	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Cercospora leaf spot	Cercospora citrullina
2	Cucumber green mottle mosaic - Not Detected	Tobamovirus Cucumber Green Mottle Mosaic Virus (CGMMV)
3	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Cucurbit bacterial wilt	Erwinia tracheiphila
1	Fertilizer injury - Suspected	Abiotic disorder
3	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Insect damage	Class Insecta
1	Insufficient sample	Incomplete submission
2	Melon necrotic spot (MNSV) - Not Detected	Melon Necrotic Spot Carmovirus Melon necrotic spot virus (MNSV)
3	Melon severe mosaic (MeSMV) - Not Detected	Orthotospovirus Melon Severe Mosaic Virus
1	Mites	Order Acari
2	Temperature induced pathology	Abiotic disorder

3	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
3	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
1	Zucchini yellow mosaic (ZYMV) - Not Detected	Potyvirus Zucchini Yellow Mosaic Virus
34	Total for Cucumber	

#### Curly Mustard; Leaf Mustard

1	Aphids; Plant lice	Family Aphididae
1	Cabbage pepper spot	Abiotic disorder
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
3	Total for Curly Mustard; Leaf Mustard	

#### Dry Bean

1	Bean brown spot blight	<i>Pseudomonas syringae</i>
1	Spider mites	Family Tetranychidae
2	Total for Dry Bean	

#### Dry Field Peas

1	No pathogen found	No Detection
1	Total for Dry Field Peas	

#### Guar

1	Bacterial identification	<i>Xanthomonas campestris</i>
1	Total for Guar	

#### Jalapeno Pepper

1	Bacterial wilt - Not Detected	<i>Ralstonia solanacearum</i>
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Insufficient sample	Incomplete submission
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato aspermy (TAV) - Not Detected	Cucumovirus Tomato Aspermy Virus
1	Tomato leaf curl New Delhi virus - Not Detected	Begomovirus ToLCNDV Tomato leaf curl New Delhi virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
9	Total for Jalapeno Pepper	

#### Kale

1	Bacterial blight	Xanthomonas sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Pythium damping off	Pythium sp./spp.
3	Total for Kale	

#### Lettuce

1	Crown rot	Botrytis sp./spp.
2	Pythium root and/or crown rot	Pythium sp./spp.
3	Total for Lettuce	

#### Okra

1	Aphids; Plant lice	Family Aphididae
1	Fusarium wilt	Fusarium oxysporum
1	Herbicide injury - Suspected	Abiotic disorder
1	Insect damage	Class Insecta
1	Root-knot nematodes	Meloidogyne sp./spp.
2	Spider mites	Family Tetranychidae
2	Stink bugs	Family Pentatomidae
1	Tobacco mosaic (TMV)	Tobamovirus Tobacco Mosaic Virus
10	Total for Okra	

#### Onion

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Iris yellow spot (IYSV) - Not Detected	Tospovirus Iris Yellow Spot Virus
1	Thrips - Suspected	Order Thysanoptera
3	Total for Onion	

#### Pea

1	Alternaria leaf and pod spot	Alternaria alternata
1	Total for Pea	

#### Pepper

1	Alfalfa mosaic (AMV) - Not Detected	Alfamovirus Alfalfa Mosaic Virus
1	Anthracnose	Colletotrichum coccodes
1	Anthracnose	Colletotrichum gloeosporioides
1	Anthracnose - Not Detected	Colletotrichum sp./spp.
2	Bacterial canker - Not Detected	Clavibacter michiganensis subsp michiganensis
1	Bacterial wilt	Ralstonia solanacearum
1	Bacterial wilt - Not Detected	Ralstonia solanacearum
1	Bacterial wilt; Canker; Rot	Clavibacter sp./spp.
2	Crown and root rot - Not Detected	Phytophthora sp./spp.

4	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Flea beetles	Subfamily Galerucinae; Tribe Alticini
1	Herbicide injury - Suspected	Abiotic disorder
4	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Leafhoppers	Family Cicadellidae
1	No pathogen found	No Detection
1	Normal plant growth	Identification Analysis
1	Nutritional deficiency	Abiotic disorder
2	Pepper mild mottle (PMMOV) - Not Detected	Tobamovirus Pepper Mild Mottle Virus
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Pythium damping off - Suspected	Pythium sp./spp.
1	Sunscald	Abiotic disorder
1	Tobacco etch (TEV) - Not Detected	Potyvirus Tobacco Etch Virus
4	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
4	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
2	Tomato; Pepper bacterial spot	Xanthomonas campestris pv. vesicatoria
41	Total for Pepper	

#### Potato

1	No pathogen found	No Detection
1	Potato common scab	Streptomyces scabies
1	Sweetpotato weevil	Cylas formicarius
3	Total for Potato	

#### Pumpkin

1	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Cucumber green mottle mosaic - Not Detected	Tobamovirus Cucumber Green Mottle Mosaic Virus (CGMMV)
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
2	Cucurbit bacterial wilt	Erwinia tracheiphila
2	Cucurbit bacterial wilt - Not Detected	Erwinia tracheiphila
1	Cucurbit gummy stem blight - Not Detected	Stagonosporopsis cucurbitacearum
1	Fusarium fruit rot	Fusarium sp./spp.
1	Fusarium wilt	Fusarium oxysporum
1	Fusarium wilt	Fusarium solani
1	Herbicide injury - Suspected	Abiotic disorder

1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Manganese toxicity - Suspected	Abiotic disorder
1	Melon severe mosaic (MeSMV) - Not Detected	Orthotospovirus Melon Severe Mosaic Virus
1	Nutritional deficiency - Suspected	Abiotic disorder
1	Phytophthora fruit rot	<i>Phytophthora capsici</i>
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Powdery mildew	<i>Podosphaera fuliginea</i>
1	Powdery mildew	<i>Podosphaera xanthii</i>
1	Spider mites	Family Tetranychidae
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
1	Zucchini yellow mosaic (ZYMV)	Potyvirus Zucchini Yellow Mosaic Virus
25	Total for Pumpkin	

#### Snap Bean; Green Bean

1	Bean brown spot blight	<i>Pseudomonas syringae</i>
1	Deteriorated sample	Deterioration
2	Herbicide injury - Suspected	Abiotic disorder
1	Insufficient sample	Incomplete submission
1	Oedema; Edema	Abiotic disorder
1	Scorch	Abiotic disorder
7	Total for Snap Bean; Green Bean	

#### Southern Peas; Cowpeas Blackeye Peas

1	Spider mites	Family Tetranychidae
1	Total for Southern Peas; Cowpeas Blackeye Peas	

#### Spinach

1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
2	Pythium damping off	<i>Pythium</i> sp./spp.
4	Total for Spinach	

#### Squash

3	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
3	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Insect damage	Class Insecta
2	Melon severe mosaic (MeSMV)	Orthotospovirus Melon Severe Mosaic Virus

1	Melon severe mosaic (MeSMV) - Not Detected	Orthosporovirus Melon Severe Mosaic Virus
1	Nutritional deficiency - Suspected	Abiotic disorder
1	Rain check	Abiotic disorder
3	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
3	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
3	Zucchini yellow mosaic (ZYMV) - Not Detected	Potyvirus Zucchini Yellow Mosaic Virus
21	Total for Squash	

#### Swiss Chard

1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Insect damage	Class Insecta
1	Spider mites	Family Tetranychidae
3	Total for Swiss Chard	

#### Tomatillo

1	Oedema; Edema	Abiotic disorder
1	Total for Tomatillo	

#### Tomato

1	Aphids; Plant lice	Family Aphididae
9	Bacterial canker	Clavibacter michiganensis subsp michiganensis
9	Bacterial canker - Not Detected	Clavibacter michiganensis subsp michiganensis
1	Bacterial hairy root - Suspected	Agrobacterium rhizogenes
2	Bacterial leaf spot	Xanthomonas sp./spp.
2	Bacterial leaf spot - Not Detected	Xanthomonas sp./spp.
1	Bacterial soft rot	Pectobacterium carotovorum
1	Bacterial stem rot	Erwinia carotovora
3	Bacterial wilt	Ralstonia solanacearum
14	Bacterial wilt - Not Detected	Ralstonia solanacearum
2	Blossom end rot	Abiotic disorder
1	Brown stink bug	Euschistus servus
1	Butterflies; Moths; Caterpillars	Order Lepidoptera
1	Calcium deficiency	Abiotic disorder
5	Crown and root rot	Phytophthora sp./spp.
5	Crown and root rot - Not Detected	Phytophthora sp./spp.
17	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
4	Early blight; Leaf spot	Alternaria solani

1	Early blight; Leaf spot - Not Detected	Alternaria solani
2	Excessive water - Suspected	Abiotic disorder
4	Flea beetles	Subfamily Galerucinae; Tribe Alticini
2	Freeze; Frost; Cold damage	Abiotic disorder
1	Growth cracks	Abiotic disorder
1	Heat stress - Suspected	Abiotic disorder
5	Herbicide injury - Suspected	Abiotic disorder
7	Herbicide injury G#4 Synthetic auxin - Suspected	Abiotic disorder
14	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Insect damage	Class Insecta
1	Insect damage - Suspected	Class Insecta
4	Insufficient sample	Incomplete submission
1	Lab comments	Lab notes
1	Late blight	Phytophthora infestans
3	Late blight - Not Detected	Phytophthora infestans
1	Magnesium deficiency	Abiotic disorder
1	Mealybugs	Family Pseudococcidae
1	Mechanical damage	Abiotic disorder
2	Mites	Order Acari
5	No pathogen found	No Detection
1	Noctuid moth	Spodoptera sp./spp.
2	Nutritional deficiency	Abiotic disorder
1	Nutritional deficiency - Suspected	Abiotic disorder
2	Phosphorus deficiency	Abiotic disorder
1	Physiological leaf roll	Abiotic disorder
1	Pith necrosis - Not Detected	Pseudomonas corrugata
4	Potyvirus Group - Not Detected	Potyvirus Group
1	Pythium damping off	Pythium sp./spp.
1	Schorch - Suspected	Abiotic disorder
3	Spider mites	Family Tetranychidae
2	Tobacco etch (TEV) - Not Detected	Potyvirus Tobacco Etch Virus
1	Tobacco mosaic (TMV)	Tobamovirus Tobacco Mosaic Virus
16	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
2	Tobacco ringspot (TRSV) - Not Detected	Nepovirus Tobacco Ringspot Virus
1	Tobacco streak (TSV) - Not Detected	Iilarvirus Tobacco Streak Virus
1	Tomato aspermy (TAV)	Cucumovirus Tomato Aspermy Virus
2	Tomato aspermy (TAV) - Not Detected	Cucumovirus Tomato Aspermy Virus

2	Tomato bacterial speck	Pseudomonas tomato
4	Tomato Brown Rugose Fruit (ToBRFV) - Not Detected	Tobamovirus Tomato Brown Rugose Fruit Virus
4	Tomato leaf curl New Delhi virus - Not Detected	Begomovirus ToLCNDV Tomato leaf curl New Delhi virus
1	Tomato ringspot (ToRSV) - Not Detected	Nepovirus Tomato Ringspot Virus
2	Tomato spotted wilt (TSWV)	Tospovirus Tomato Spotted Wilt Virus
15	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
2	Tomato; Pepper bacterial spot	Xanthomonas campestris pv. vesicatoria
1	Twospotted spider mite	Tetranychus urticae
1	White mold (Stem rot)	Sclerotinia sclerotiorum
2	Yellowstriped armyworm	Spodoptera ornithogalli
213	Total for Tomato	

#### Turnip (Greens)

1	Aphids; Plant lice	Family Aphididae
1	Bacterial leaf spot	Xanthomonas sp./spp.
1	Herbicide injury - Suspected	Abiotic disorder
1	White spot	Cercospora sp./spp.
4	Total for Turnip (Greens)	

#### Vegetables

1	Mites	Order Acari
1	Total for Vegetables	

#### Watermelon

2	Alternaria leaf blight	Alternaria sp./spp.
3	Bacterial fruit blotch - Not Detected	Acidovorax citrulli
5	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
1	Cucurbit bacterial wilt - Not Detected	Erwinia tracheiphila
1	Cucurbit downy mildew - Not Detected	Pseudoperonospora cubensis
2	Cucurbit gummy stem blight - Not Detected	Stagonosporopsis cucurbitacearum
1	Cucurbit yellow vine disease - Not Detected	Serratia marcescens
1	Cucurbit yellow vine disease - Suspected	Serratia marcescens
2	Fusarium wilt - Not Detected	Fusarium oxysporum
2	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus

1	Insect damage	Class Insecta
1	Leaf spot	<i>Cercospora fragariae</i>
2	Melon necrotic spot (MNSV) - Not Detected	Melon Necrotic Spot Carmovirus Melon necrotic spot virus (MNSV)
2	Melon severe mosaic (MeSMV) - Not Detected	Orthospovirus Melon Severe Mosaic Virus
4	No pathogen found	No Detection
1	Oedema; Edema	Abiotic disorder
2	Phytophthora dieback; Blight	<i>Phytophthora</i> sp./spp.
2	Potyvirus Group - Not Detected	Potyvirus Group
1	Pythium root and/or crown rot	<i>Pythium</i> sp./spp.
1	Rhizoctonia damping off - Not Detected	<i>Rhizoctonia</i> sp./spp.
1	Squash mosaic (SqMV) - Not Detected	Comovirus Squash Mosaic Virus
2	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
2	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
6	Watermelon Fusarium wilt	<i>Fusarium oxysporum</i> f sp <i>niveum</i>
50	Total for Watermelon	

#### Yellow Squash

1	Bacterial fruit blotch - Not Detected	<i>Acidovorax citrulli</i>
1	Choanephora leaf spot	<i>Choanephora cucurbitarum</i>
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
3	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
2	Cucurbit bacterial wilt - Not Detected	<i>Erwinia tracheiphila</i>
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
2	Insufficient sample	Incomplete submission
1	Lab notes	Lab comments
1	Natural senescence	Abiotic disorder
1	Nitrogen deficiency	Abiotic disorder
1	Oedema; Edema	Abiotic disorder
1	Pythium damping off	<i>Pythium</i> sp./spp.
1	Seedling blight	<i>Acidovorax citrulli</i>
1	Tobacco mosaic (TMV) - Not Detected	Tobamovirus Tobacco Mosaic Virus
1	Tomato spotted wilt (TSWV) - Not Detected	Tospovirus Tomato Spotted Wilt Virus
20	Total for Yellow Squash	

Zucchini Squash

1	Bacterial blight	Xanthomonas sp./spp.
1	Crown and root rot	<i>Phytophthora</i> sp./spp.
1	Insufficient sample	Incomplete submission
2	Nutritional deficiency - Suspected	Abiotic disorder
1	Powdery mildew	<i>Podosphaera xanthii</i>
6	Total for Zucchini Squash	

Weed

Unknown Weed

2	Insufficient sample	Incomplete submission
2	Total for Unknown Weed	