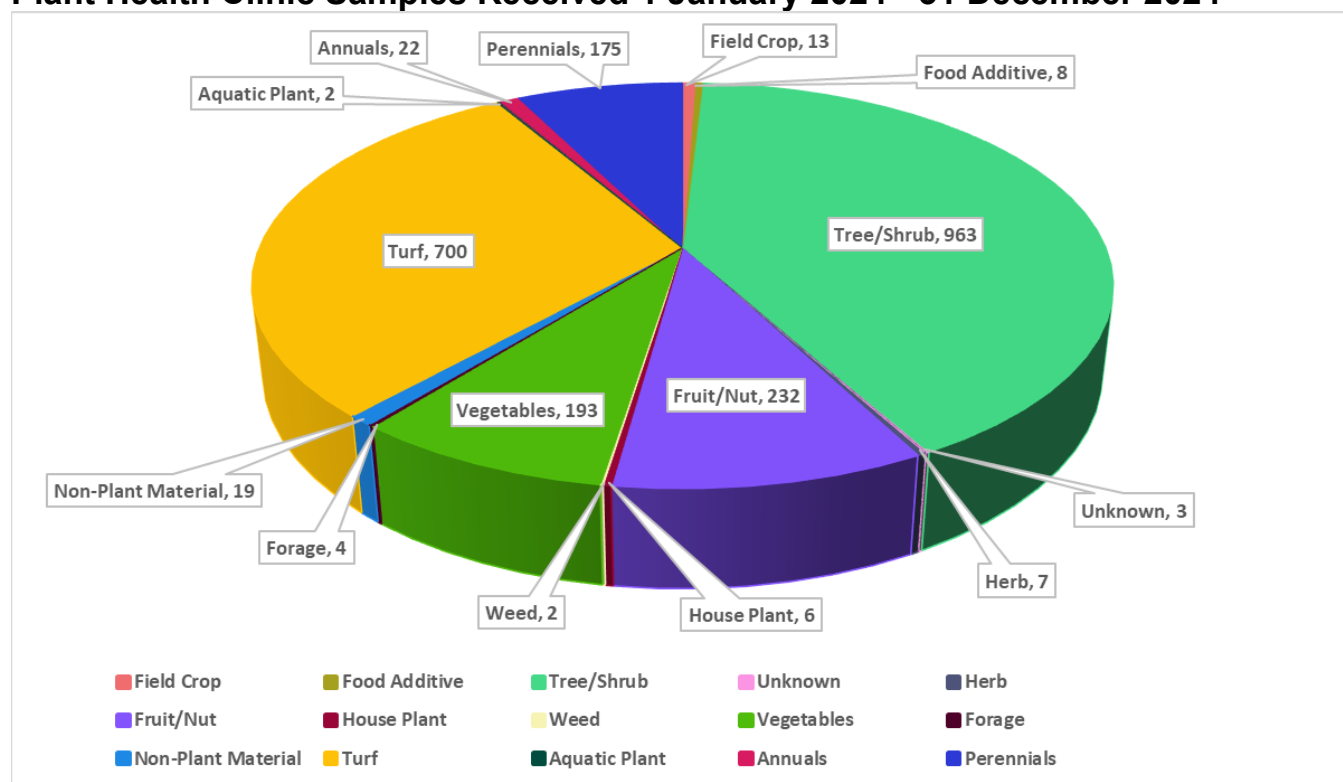


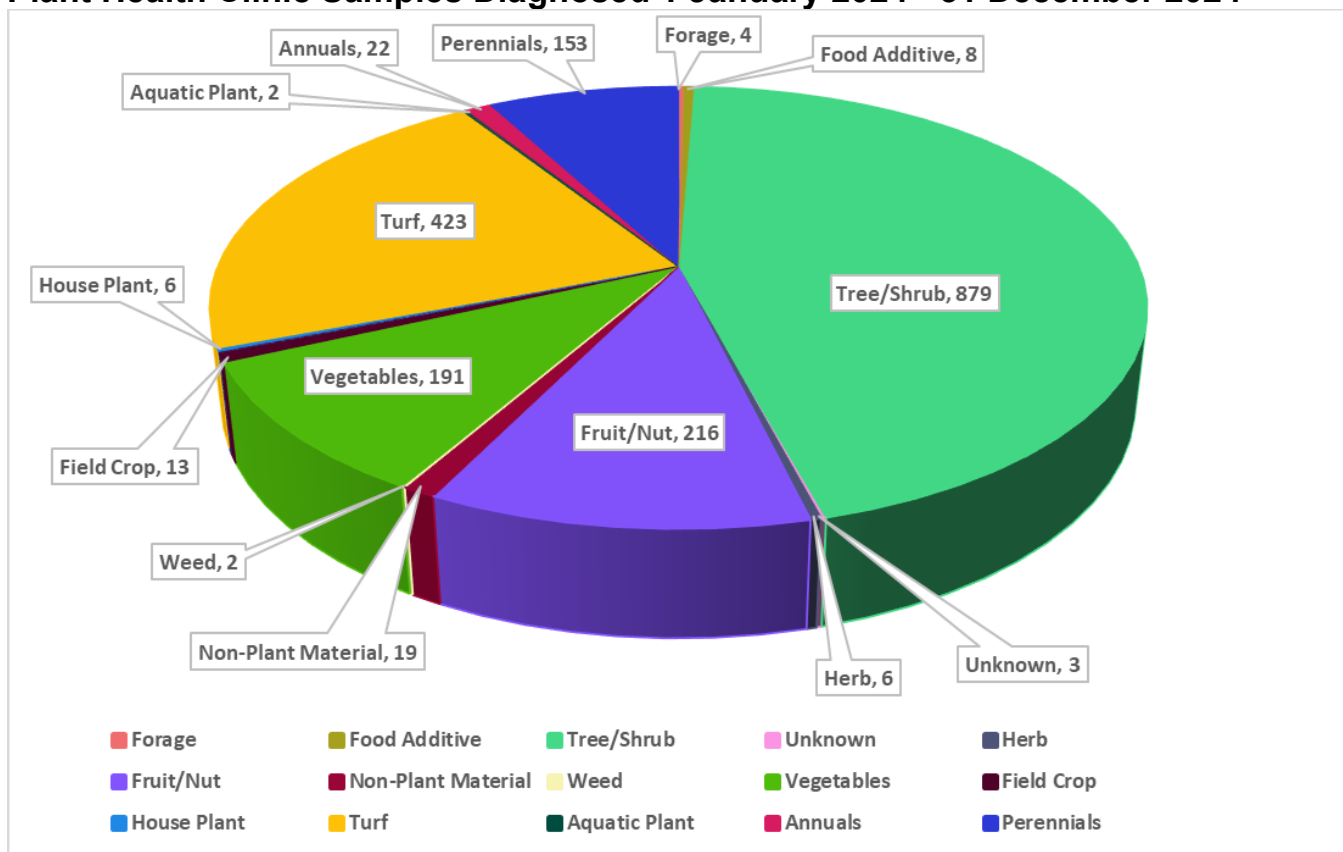
Plant Health Clinic 2024 Summary Report

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
Total	2349	

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
Total	2349	

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
Total	2349		

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
Total	2349	

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

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

Week 48	12
December	39
Week 49	12
Week 50	11
Week 51	16
Week 52	0

Total	2349
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Month	Plant Health Samples Diagnosed
January	51
Week 1	9
Week 2	1
Week 3	10
Week 4	24
Week 5	7 (18 for weekly total)
February	95
Week 5	11 (18 for weekly total)
Week 6	24
Week 7	11
Week 8	38
Week 9	11 (43 for weekly total)
March	118
Week 9	32 (43 for weekly total)
Week 10	0
Week 11	37
Week 12	26
Week 13	23
April	164
Week 14	63
Week 15	24
Week 16	19
Week 17	26
Week 18	32 (72 for weekly total)
May	213
Week 18	40 (72 for weekly total)
Week 19	58
Week 20	37
Week 21	31
Week 22	47
June	162
Week 23	34
Week 24	40
Week 25	38
Week 26	50

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

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	Phytophthora sp./spp.
1	Phytophthora stem rot	Phytophthora nicotianae
1	Root-knot nematodes	Meloidogyne sp./spp.
3	Total for Petunias	

Statice

1	Anthraxnose	Colletotrichum gloeosporioides
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	Total for Statice	

Strawflower

1	Crown and root rot	Phytophthora 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	Xanthomonas sp./spp.
2	Powdery mildew	Erysiphe cichoracearum
3	Total for Zinnia	

Aquatic Plant

Plant Identification Request

1	Floating marshpennywort	Hydrocotyle ranunculoides
1	Whorled marsh pennywort	Hydrocotyle verticillata
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 frog-eye 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	Puccinia graminis

3 Total for Wheat

Food Additive

Blond psyllium

1	Crown and root rot	Phytophthora sp./spp.
1	Crown rot	Pythium dissotocum
1	Fusarium wilt	Fusarium oxysporum
1	Non-pathogenic; Saprophyte	Secondary Agents; Saprophytes; Unspecif.
1	Oedema; Edema	Abiotic disorder
1	Powdery mildew	Erysiphe cichoracearum
1	Pythium damping off	Pythium 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	Ustilago cynodontis
1	Large patch	Rhizoctonia solani
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	Polythrincium trifolii
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	<i>Coryneum</i> 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	

Cantaloupe; Cantaloupe

1	Anthrachnose	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 Cantaloupe; 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	Anthrachnose	Colletotrichum sp./spp.
1	Anthrachnose 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	Eriosoma lanigerum
1	Yellow-bellied sapsucker	Sphyrapicus varius
22	Total for Common Apple	

Common Fig

1	Anthrachnose	Colletotrichum sp./spp.
1	Bacterial blight - Not Detected	Xanthomonas 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	Phytophthora sp./spp.
1	Pospiviroid Group - Not Detected	Pospiviroid Group
2	Powdery mildew	Leveillula taurica
1	Rhizoctonia blight - Not Detected	Rhizoctonia solani
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	Venturia inaequalis
1	Apple-and-thorn skeletonizer	Choreutis pariana
1	Chemical injury - Suspected	Abiotic disorder

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

European Grape

1	Grape erineum mite	Colomerus vitis
1	Total for European Grape	

Fig

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

Fuji Apple

1	Sunscauld - Suspected	Abiotic disorder
1	Total for Fuji Apple	

Grape

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

1	Grapevine red blotch (GRBaV)	Uncertain Grapevine Red Blotch Associated Virus
6	Grapevine red blotch (GRBaV) - Not Detected	Uncertain 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	Diaporthe ampelina
8	Total for Muscadine Grape	

Oriental Pear; Shinglo

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

Pawpaw

1	Phoma leaf spot	Phoma sp./spp.
1	Total for Pawpaw	

Peach

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

1	Lichens	Lichenes
2	No pathogen found	No Detection
2	Oriental fruit moth	Grapholita molesta
2	Peach leaf curl	Taphrina deformans
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	Fusicladium carpophilum
1	Scab	Venturia carpophila
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	Mycosphaerella pomi
1	Cedar-quince rust	Gymnosporangium clavipes
1	Crown and root rot	Phytophthora sp./spp.
4	Deteriorated sample	Deterioration
1	Fabraea leaf and fruit spot	Diplocarpon mespili
2	Fire blight	Erwinia amylovora
2	Insect damage	Class Insecta
2	Rust	Gymnosporangium sp./spp.
14	Total for Pear	

Pear (For Fruit)

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

Pecan

1	Anthraxnose	Colletotrichum gloeosporioides
2	Bacterial leaf scorch - Not Detected	Xylella fastidiosa

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	Cydia caryana
1	Insect damage	Class Insecta
1	Lichens	Lichenes
1	Luna moth - Suspected	Actias luna
1	Pecan leaf scorch mite	Eotetranychus hicoriae
1	Pecan shuck decline	Abiotic disorder
1	Pecan; Hickory scab	Fusicladium caryigenum
1	Phylloxerans	Family Phylloxeridae
1	Poor pollination	Abiotic disorder
1	Sooty mold	Unidentified Fungus
2	Stink bugs	Family Pentatomidae
1	Sunscauld - Suspected	Abiotic disorder
1	Yellow-bellied sapsucker - Suspected	Sphyrapicus varius
1	Yellowstriped armyworm	Spodoptera ornithogalli
27	Total for Pecan	

Plum

2	Black knot	Apiosporina morbosa
1	Butterflies; Moths; Caterpillars	Order Lepidoptera
2	Coryneum blight (Shothole)	Thyrostroma carpophilum
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	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	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	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
---	--------	--------------------

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; Caterpillars | Order Lepidoptera |
| 1 | Total for Residential Property | |

Soil

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

Water Sample

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

Perennials

Aster

- | | | |
|---|-----------------|-------------------|
| 1 | Leaf rust; Rust | Puccinia sp./spp. |
| 1 | Total for Aster | |

Asters

- | | | |
|---|--|--------------------------------|
| 1 | Aster yellows Phytoplasma - Not Detected | Candidatus Phytoplasma asteris |
| 1 | Total for Asters | |

Astilbe

- | | | |
|---|---------------------|---------------|
| 3 | Deteriorated sample | Deterioration |
| 3 | Total for Astilbe | |

Bee

Balm

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

Bigfruit evening primrose

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

Elephant Ear Plant

1	Excessive water - Suspected	Abiotic disorder
1	Leaf spot	Phyllosticta 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	Phytophthora sp./spp.
1	Stalk borer	Papaipema nebris
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	Phytophthora sp./spp.
1	Total for Geranium	

Goldenrod

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

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	Anthraxnose	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	Macronoctua 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 | Graphiopsis 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 cinnabarina
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	Podosphaera pannosa
2	Root rot - Suspected	Unidentified Agent
1	Rose midge	Dasineura rhodophaga
19	Rose rosette disease (RRV)	Emaravirus Rose Rosette Virus
40	Rose rosette disease (RRV) - Not Detected	Emaravirus Rose Rosette Virus
3	Roseslug	Endelomyia sp./spp.
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
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	Otiorhynchus sulcatus
1	Sunscald - Suspected	Abiotic disorder
1	Tobacco mosaic (TMV)	Tobamovirus Tobacco Mosaic Virus
3	Total for Sedum	

Shasta Daisy

1	Crown and root rot - Not Detected	Phytophthora 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	Penicillium sp./spp.
1	Freeze; Frost; Cold damage - Suspected	Abiotic disorder
2	Total for Tulips	

Unknown Bulb

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

Wingstem

1	Crown and root rot - Not Detected	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	Pythium root and/or crown rot	Pythium sp./spp.
1	Root rot - Suspected	Unidentified Agent
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 Wingstem	

Yarrow

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

Shrub

Azalea; Rhododendron

6	Azalea lace bug	Stephanitis pyrioides
2	Azalea leaf spot	Pseudocercospora handellii
1	Azalea leafminer	Caloptilia azaleella
2	Crown and root rot	Phytophthora sp./spp.
9	Crown and root rot - Not Detected	Phytophthora 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	Hypoxyylon 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 | Ophiostoma sp./spp. |
| 1 | Verticillium dieback | Verticillium sp./spp. |
| 3 | Total for American Elm | |

American Sycamore

- | | | |
|---|-----------------------------|----------------------|
| 1 | Spider mites | Family Tetranychidae |
| 1 | Sycamore anthracnose | Apiognomonina veneta |
| 2 | Total for American Sycamore | |

Austrian Pine

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

Beech

- | | | |
|---|----------------------------|----------------------|
| 1 | Ascomycete fungus | Brachysporium nigrum |
| 1 | Freeze; Frost; Cold damage | Abiotic disorder |
| 2 | Total for Beech | |

Black Gum

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

Black Walnut

- | | | |
|---|------------------------|-------------------------|
| 1 | Normal plant growth | Identification Analysis |
| 1 | Orange slime flux | Cryptococcus macerans |
| 2 | Total for Black Walnut | |

Black-jack Oak

- | | | |
|---|---|----------------------|
| 2 | No pathogen found | No Detection |
| 1 | Ramorum blight; Sudden oak death - Not Detected | Phytophthora 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	Lecanium sp./spp.
7	Total for Eastern Redbud	

Eastern White Pine

1	Brown spot; Needle blight	Lecanosticta acicola
1	Crown and root rot	Phytophthora 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	Phytophthora 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	Sphaeropsis ulmicola
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	Xylella fastidiosa
1	Herbicide injury - Suspected	Abiotic disorder
1	Root rot - Suspected	Unidentified Agent
3	Total for Ginkgo	

Green Giant Arborvitae

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

1	Scale insects	Order Homoptera
1	Seiridium canker	Seiridium unicorne
7	Total for Green Giant Arborvitae	

Hackberry

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

Hickory

1	Deteriorated sample	Deterioration
1	Hypoxylon canker - Suspected	Biscogniauxia atropunctata
1	Pecan leaf Phylloxera	Phylloxera notabilis
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	Phomopsis sp./spp.
2	Total for Japanese Lanceleaf Maple	

Japanese Maple

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

3	Insect damage	Class Insecta
1	Insufficient sample	Incomplete submission
1	Japanese maple scale	Lopholeucaspis japonica
1	Maple canker	Stegonsporium sp./spp.
1	Maple Cristulariella leaf spot	Cristulariella depraedans
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	Pythium 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	Verticillium sp./spp.
1	Verticillium dieback - Not Detected	Verticillium 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	Seiridium cardinale
1	Cypress canker	Seiridium cupressi
1	Deteriorated sample	Deterioration
1	Dieback; Canker	Seiridium sp./spp.
2	Dieback; Canker - Suspected	Seiridium sp./spp.
1	Lab notes	Lab comments
1	Leaf spot	Phyllosticta sp./spp.
2	Minute cypress scale	Carulaspis minima
1	Natural senescence	Abiotic disorder
1	Normal plant growth	Identification Analysis
3	Pestalotiopsis needle blight; Tip blight	Pestalotiopsis sp./spp.

1	Scale insects	Order Homoptera
1	Seiridium canker	Seiridium unicorne
1	Seiridium canker - Suspected	Seiridium unicorne
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	Anthraxnose	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	Pseudaulacaspis pentagona
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	Phytophthora sp./spp.
2	Deteriorated sample	Deterioration
1	Gnarled oak leaf midge gallmaker	Macrodiplosis niveipila
4	Herbicide injury - Suspected	Abiotic disorder
1	Horned oak gall wasp	Callirhytis cornigera
1	Hypoxylon canker	Biscogniauxia atropunctata
3	Hypoxylon canker - Suspected	Biscogniauxia atropunctata
2	Insect damage	Class Insecta
1	Insufficient sample	Incomplete submission
1	Jelly fungus	Exidia sp./spp.
3	No pathogen found	No Detection
1	Oak powdery mildew	Erysiphe alphitoides
1	Oak skeletonizer	Bucculatrix ainsliella
1	Scale insects	Order Homoptera
1	Smooth patch	Aleurodiscus oakesii
1	Solitary oak leafminer	Cameraria hamadryadella

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

Pine

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

Planetree; Sycamore

1	Butt rot - Suspected	Unidentified Agent
1	Ceratocystis canker - Suspected	Ceratocystis fimbriata

1	Insect damage	Class Insecta
1	Sycamore anthracnose	Apiognomonia veneta
4	Total for Planetree; Sycamore	

Post Oak

1	Aphid	Stegophylla sp./spp.
1	Bacterial leaf scorch - Not Detected	Xylella fastidiosa
1	Canker - Suspected	Unidentified Agent
1	Crown and root rot - Not Detected	Phytophthora 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	Bucculatrix ainsliella
1	Oak twig canker and dieback	Botryosphaeria quercuum
1	Smooth patch	Aleurodiscus oakesii
1	Wood boring insect damage	Class Insecta
12	Total for Post Oak	

Red Horse Chestnut

1	Leaf rust	Puccinia andropogonis
1	Total for Red Horse Chestnut	

Red Maple

1	Anthrachnose	Colletotrichum gloeosporioides
1	Brown soft scale	Coccus hesperidum
1	Crown and root rot	Phytophthora 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	Pestalotiopsis sp./spp.
2	Scale insects	Order Homoptera
1	Sooty mold	Unidentified Fungus
1	Sunscauld - Suspected	Abiotic disorder
1	Wood boring insect damage	Class Insecta
15	Total for Red Maple	

Red Oak

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

Red Oaks

1	Bacterial leaf scorch	<i>Xylella fastidiosa</i>
1	Branch and twig borers	Family Bostrichidae
1	Branch and twig borers - Suspected	Family Bostrichidae
1	Dieback; Canker; Twig blight	<i>Botryosphaeria</i> sp./spp.
1	Gall wasps	Family Cynipidae
1	Hypoxylon canker	<i>Biscogniauxia atropunctata</i>
1	Insect damage	Class Insecta
2	Oak Kermes scale	<i>Allokermes kingii</i>
1	Oak powdery mildew	<i>Erysiphe alphitoides</i>
1	Oak twig canker and dieback	<i>Botryosphaeria quercuum</i>
2	Oak vein pocket gallmaker	<i>Macrodiplosis qoruca</i>
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	<i>Phytophthora</i> sp./spp.
1	Deteriorated sample	Deterioration
1	Leafspot	<i>Mycosphaerella cercidicola</i>
1	Mechanical damage	Abiotic disorder
2	No pathogen found	No Detection
1	Vascular-streak dieback - Not Detected	<i>Rhizoctonia theobromae</i>
1	Vascular-streak dieback - Suspected	<i>Rhizoctonia theobromae</i>
1	Verticillium dieback - Not Detected	<i>Verticillium</i> 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	Neuroterus tantulus
1	Deteriorated sample	Deterioration
1	Herbicide injury - Suspected	Abiotic disorder
2	Hypoxylon canker - Suspected	Biscogniauxia atropunctata
1	Insufficient sample	Incomplete submission
2	Lichens	Lichenes
1	Mites	Order Acari
3	No pathogen found	No Detection
1	Oak leaf blister	Taphrina caerulescens
1	Oak twig blight	Coryneum kunzei
1	Oak twig canker and dieback	Botryosphaeria quercuum
1	Wool sower gall wasp	Callirhytis seminator
18	Total for White Oak	

White Oaks

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

Willow

1	Cercospora leaf spot	Pseudocercospora salicina
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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	Venturia saliciperda
5	Total for Willow	

Tree/Shrub

Alaska cypress

1	Deteriorated sample	Deterioration
1	Total for Alaska cypress	

Alberta Spruce

1	Rhizosphaera needle cast	Rhizosphaera kalkhoffii
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	Fiorinia theae
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 Alticini
1	Wood boring insect damage	Class Insecta
7	Total for Ash	

Bigleaf Hydrangea

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

1	Anthrachnose	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	Phytophthora sp./spp.
1	Cytospora canker; Dieback	Cytospora sp./spp.
1	No pathogen found	No Detection
1	Rhizosphaera needle cast	Rhizosphaera kalkhoffii
5	Total for Blue Spruce	

Boxleaf Japanese Holly

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

Boxwood

2	Boxwood blight; Leaf and stem blight	Calonectria pseudonaviculata
3	Boxwood leafminer	Monarthropalpus flavus
1	Boxwood leafminer - Not Detected	Monarthropalpus flavus
6	Boxwood Macrophoma leaf spot	Dothiorella candollei
1	Boxwood mite - Suspected	Eurytetranychus buxi
1	Boxwood psyllid	Psylla buxi
13	Boxwood Volutella blight; Canker	Pseudonectria buxi
1	Boxwood Volutella blight; Canker - Suspected	Pseudonectria buxi
2	Chemical injury - Suspected	Abiotic disorder
7	Crown and root rot	Phytophthora sp./spp.
10	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
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	Tospovirus Impatiens Necrotic Spot Virus
1	Lab comments	Lab notes
3	No pathogen found	No Detection
1	Pythium damping off - Not Detected	Pythium sp./spp.
1	Pythium root and/or crown rot	Pythium 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	<i>Pulvinaria floccifera</i>
1	Crown and root rot - Not Detected	<i>Phytophthora</i> sp./spp.
1	Deteriorated sample	Deterioration
1	Freeze; Frost; Cold damage	Abiotic disorder
1	Gray leaf blight	<i>Pestalotiopsis</i> sp./spp.
1	No pathogen found	No Detection
1	Purple camellia mite	<i>Calacarus carinatus</i>
1	Scorch - Suspected	Abiotic disorder
8	Total for Camellia	

Cherry laurel

2	Bacterial leaf spot	<i>Pseudomonas</i> sp./spp.
3	Bacterial leaf spot - Not Detected	<i>Xanthomonas</i> 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	<i>Cameraria hamadryadella</i>
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	<i>Calophoma clematidina</i>
1	Total for Clematis	

Cleyera

1	Freeze; Frost; Cold damage	Abiotic disorder
1	Pythium root and/or crown rot	<i>Pythium</i> 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	Chrysobothris femorata
1	Insect damage	Class Insecta
1	Leaf spot	Pestalotiopsis sp./spp.
1	Leaf spot	Phyllosticta sp./spp.
6	Total for Crabapple	

Crape Myrtle

1	Cercospora leaf spot	Cercospora sp./spp.
5	Crapemyrtle bark scale	Acanthococcus lagerstroemiae
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	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
1	Honeydew	Order Hemiptera
1	Impatiens necrotic spot (INSV) - Not Detected	Tospovirus Impatiens Necrotic Spot Virus
1	Lab comments	Lab notes
1	Potyvirus Group - Not Detected	Potyvirus Group
3	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
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	Seiridium cupressi
2	Deteriorated sample	Deterioration
1	Dieback; Canker	Seiridium sp./spp.
1	No pathogen found	No Detection
1	Normal plant growth	Identification Analysis
1	Pestalotiopsis needle blight; Tip blight	Pestalotiopsis 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 mutila
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	Xanthomonas sp./spp.
2	Bacterial wilt - Not Detected	Ralstonia solanacearum
1	Crown and root rot	Phytophthora sp./spp.
1	Herbicide injury G#9 Glyphosate - Suspected	Abiotic disorder
1	Honeydew	Order Hemiptera
1	Insufficient sample	Incomplete submission
1	Lace bug	Corythucha sp./spp.
1	Lecanium scales	Lecanium 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	Erwinia amylovora
2	Total for Pear (Ornamental)	
Peegee Hydrangea		
1	Sunscald - Suspected	Abiotic disorder
1	Target spot	Corynespora cassiicola
2	Total for Peegee Hydrangea	
Persimmon (Ornamental)		
1	Crown and root rot	Phytophthora sp./spp.
1	Total for Persimmon (Ornamental)	
Pieris		
4	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
4	Total for Pieris	
Pieris japonica hybrids		
5	Phytophthora leaf spot negative - Not Detected	Phytophthora sp./spp.
1	Phytophthora leaf spot positive - Confirmed	Phytophthora 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

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	Anthrachnose	Apiognomonina 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	Anthrachnose	Apiognomonina 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 cynodontensis
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	Puccinia cynodontis
1	Slime mold	Class Myxogastria; Mycetozoa
1	Smooth crabgrass	Digitaria ischaemum
8	Spring dead spot	Ophiosphaerella sp./spp.
37	Take all	Gaeumannomyces graminis
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	Rhizoctonia solani
7	Pythium blight; Cottony blight	Pythium sp./spp.
1	Take all	Gaeumannomyces graminis
17	Total for Centipedegrass	

Fescues

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

Grass

1	Billbug	Sphenophorus sp./spp.
1	Take all	Gaeumannomyces graminis
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	Rhizoctonia solani
1	Physiological drought	Abiotic disorder
111	Pythium blight; Cottony blight	Pythium sp./spp.
2	Rust; Leaf rust	Puccinia zoysiae
3	Spring dead spot	Ophiosphaerella sp./spp.
49	Take all	Gaeumannomyces graminis
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 Lawngrass

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

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	Anthrachnose	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	Pseudomonas syringae
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	Xanthomonas campestris
1	Total for Guar	

Jalapeno Pepper

1	Bacterial wilt - Not Detected	Ralstonia solanacearum
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	Anthraxnose	Colletotrichum coccodes
1	Anthraxnose	Colletotrichum gloeosporioides
1	Anthraxnose - 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	Phytophthora capsici
1	Potyvirus Group - Not Detected	Potyvirus Group
1	Powdery mildew	Podosphaera fuliginea
1	Powdery mildew	Podosphaera xanthii
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	Pseudomonas syringae
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	Phytophthora sp./spp.
1	Crown and root rot - Not Detected	Phytophthora sp./spp.
2	Pythium damping off	Pythium 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	Orthotospovirus 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	Scorch - 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	Ilarvirus 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	<i>Pseudomonas</i> 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	<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i>
1	Twospotted spider mite	<i>Tetranychus urticae</i>
1	White mold (Stem rot)	<i>Sclerotinia sclerotiorum</i>
2	Yellowstriped armyworm	<i>Spodoptera ornithogalli</i>
213	Total for Tomato	

Turnip (Greens)

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

Vegetables

1	Mites	Order Acari
1	Total for Vegetables	

Watermelon

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

1	Insect damage	Class Insecta
1	Leaf spot	Cercospora fragariae
2	Melon necrotic spot (MNSV) - Not Detected	Melon Necrotic Spot Carmovirus Melon necrotic spot virus (MNSV)
2	Melon severe mosaic (MeSMV) - Not Detected	Orthotospovirus Melon Severe Mosaic Virus
4	No pathogen found	No Detection
1	Oedema; Edema	Abiotic disorder
2	Phytophthora dieback; Blight	Phytophthora sp./spp.
2	Potyvirus Group - Not Detected	Potyvirus Group
1	Pythium root and/or crown rot	Pythium sp./spp.
1	Rhizoctonia damping off - Not Detected	Rhizoctonia 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	Fusarium oxysporum f sp niveum
50	Total for Watermelon	

Yellow Squash

1	Bacterial fruit blotch - Not Detected	Acidovorax citrulli
1	Choanephora leaf spot	Choanephora cucurbitarum
1	Crown and root rot	Phytophthora sp./spp.
3	Crown and root rot - Not Detected	Phytophthora sp./spp.
1	Cucumber mosaic (CMV) - Not Detected	Cucumovirus Cucumber Mosaic Virus
2	Cucurbit bacterial wilt - Not Detected	Erwinia tracheiphila
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	Pythium sp./spp.
1	Seedling blight	Acidovorax citrulli
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	Phytophthora sp./spp.
1	Insufficient sample	Incomplete submission
2	Nutritional deficiency - Suspected	Abiotic disorder
1	Powdery mildew	Podosphaera xanthii
6	Total for Zucchini Squash	

Weed

Unknown Weed

2	Insufficient sample	Incomplete submission
2	Total for Unknown Weed	