

The list below illustrates the types of pathogens/problems found on plants submitted to the plant diagnostic lab in 2015. The general format of the list shows the common name for the disease, followed by the scientific name of the pathogen, followed by a number in parentheses that indicates the number of times this problem was diagnosed in the lab.

**Apple (*Malus x domestica*)**

- Abiotic (Potassium deficiency suspected) (1)
- Alternaria blotch (*Alternaria mali*) (1)
- Bitter rot (*Colletotrichum* sp.) (1)
- Burrknot (genetic) (1)
- Cedar apple rust (*Gymnosporangium juniperi-virgiana*) (1)
- Cedar apple rust resistance reaction (*Gymnosporangium juniperi-virgiana*) (2)
- Flyspeck (*Schizothyrium pomi*) (1)
- Leaf spot (*Gloeosporium* sp.) (1)
- Leaf spot (*Pseudocercospora* sp.) (1)

**Arborvitae (*Thuja* sp.)**

- Arborvitae Needle blight (*Phyllosticta thujae*) (2)
- Needle blight (*Passalora* sp.) (2)
- Needle blight (*Pestalotiopsis* sp.) (2)
- Needle blight suspected (various fungi) (1)
- Root rot (*Phytophthora* sp.) (1)
- Root rot (*Phaeolus schweinitzii*) (1)

**Arborvitae (*Thuja* sp. 'Green Giant')**

- Abiotic (1)
- Sphaeropsis canker (*Sphaeropsis* sp.)- opportunistic pathogen (1)
- Wood boring insect (1)

**Ash (*Fraxinus* sp.)**

- Anthracnose (*Plagiostoma fraxini*) (1)
- Sapstain (*Fusarium* sp. suspected) (1)
- Scale insects (1)
- Sooty mold (fungus) (2)

**Aucuba (*Aucuba japonica*)**

- Anthracnose stem blight (*Colletotrichum* sp.) (2)

**Azalea (*Rhododendron* sp.)**

- Abiotic (high soil pH) (2)
- Abiotic (oedema) (1)
- Abiotic (winter burn) (2)
- Armillaria root rot (*Armillaria* sp.) (1)
- Cercospora leaf spot suspected (*Cercospora* sp.) (1)

- Leaf blight (*Pestalotiopsis* sp.) (1)
- Phomopsis canker (*Phomopsis* sp.) (2)
- Root rot (*Phytophthora* sp.) (1)
- Secondary fungus (*Seiridium* sp.) (1)
- Whiteflies suspected (1)

**Banana, Japanese (*Musa basjoo*)**

- Root rot (*Pythium* sp.) (1)

**Bamboo (*Bambusa* sp.)**

- Leaf spot (*Colletotrichum* sp.) (1)

**Bean, Green (*Phaseolus vulgaris*)**

- Abiotic (anoxia) (1)
- Abiotic (herbicide suspected) (1)
- Ashy stem blight (*Macrophomina phaseolina*) (1)
- Phyllosticta leaf spot (*Boeremia exigua* var. *exigua*) (1)
- Web blight (*Rhizoctonia solani*) (2)

**Beech, American (*Fagus grandifolia*)**

- Sooty mold (*Scorias spongiosa*) (1)
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**Bentgrass (*Agrostis* sp.)**

- Abiotic (Anoxia) (2)
- Abiotic (heat stress) (3)
- Anthracnose basal rot (*Colletotrichum graminicola*) (3)
- Nematodes (2)
- Root rot (*Pythium* sp.) (5)

**Bermudagrass (*Cynodon dactylon*)**

- Abiotic (growth regulator (Primo)) (1)
- Abiotic (clubbed roots) (1)
- Abiotic (soil compaction) (1)
- Abiotic (thatch) (2)
- Algae (filamentous green algae) (1)
- Bermudagrass decline (*Gaeumannomyces graminis* var. *graminis*) (19)
- Dollar spot (*Sclerotinia homoeocarpa*) (7)
- Ectotrophic Root Infecting Fungi (ERI) (5)
- Fall Army worm (2)
- Lance nematode (*Hoplolaimus* sp.) (2)
- Leaf spot and melting out (*Bipolaris cynodontis*) (2)
- Leaf spot and melting out suspected (*Bipolaris* sp.) (10)
- Leaf spot (*Curvularia* sp.) (5)
- Leaf spot (*Curvularia hawaiiensis*) (1)

- Leaf spot (*Exserohilum rostratum*) (1)
- Mini-ring suspected (*Rhizoctonia zae*) (1)
- Nematodes suspected (5)
- Nitrogen-fixing algae or bacteria suspected (1)
- Pythium blight (*Pythium* sp.) (18)
- Ring nematode (*Mesocriconema* sp.) (3)
- Root-knot nematode (*Meloidogyne* sp.) (23)
- Root rot (*Pythium* sp.) (38)
- Sheath nematode (*Hemicycliophora* sp.) (1)
- Spring dead spot suspected (*Ophiosphaerella* sp.) (1)
- Sting nematode (*Belonolaimus* sp.) (8)
- Virus suspected (1)

**Bermudagrass, ‘Champion’ (*Cynodon dactylon*)**

- Abiotic (winter flooding suspected) (1)
- Bermudagrass decline (*Gaeumannomyces graminis* var. *graminis*) (3)
- Mini-ring suspected (*Rhizoctonia zae*) (1)
- Root rot (*Pythium* sp.) (1)
- Sting nematode (*Belonolaimus* sp.) (1)

**Bermudagrass, ‘Tifeagle’ (*Cynodon dactylon*)**

- Pythium blight (*Pythium* sp.) (1)

**Birch (*Betula* sp.)**

- Normal bark (1)

**Blackberry (*Rubus* sp.) ‘Arapaho’**

- Abiotic (herbicide injury) (1)

**Blueberry (*Vaccinium* sp.)**

- Canker (*Fusicoccum* sp.) (1)
- Leaf and Fruit Spot (*Exobasidium maculosum*) (1)

**Bottlebrush (*Callistemon* sp.)**

- Abiotic (freeze damage suspected) (1)

**Boxwood (*Buxus* sp.)**

- Abiotic (Phosphorus deficiency suspected) (1)
- Abiotic (winter burn) (4)
- Abiotic (too wet) (1)
- Leafminer (*Monarthopalpus flavus*) (1)
- Root rot (*Phytophthora* sp.) (1)
- Volutella blight (*Pseudonectria buxi*) (2)

**Brugmansia (*Brugmansia suaveolens*)**

- Cercospora leaf spot (*Cercospora* sp.) (1)

**Bugle-weed (*Ajuga* sp.)**

- Rhizoctonia crown and root rot (*Rhizoctonia solani*) (1)

**Camellia (*Camellia* sp.)**

- Abiotic (oedema) (1)
- Abiotic (root stress suspected) (2)
- Anthracnose (*Colletotrichum* sp.) (1)
- Tea scale (*Fiorinia theae*) (1)

**Camellia (*Camellia sasanqua*)**

- Abiotic (planted too deep) (1)

**Cantaloupe (*Cucumis melo*)**

- Gummy stem blight (*Stagonosporopsis cucurbitacearum*) (1)

**Cedar (*Cedrus* sp.)**

- Needle blight (*Pestalotiopsis*) (2)

**Centipedegrass (*Eremochloa ophiuroides*)**

- Abiotic (herbicide) (1)
- Abiotic (overmanaged) (1)
- Anthracnose (*Colletotrichum* sp.) (4)
- Anthracnose (*Colletotrichum caudatum*) (3)
- Large Patch (*Rhizoctonia solani*) (4)
- Scale insect (undetermined pathology) (3)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (1)

**Cherry (*Prunus* sp.)**

- Leaf spot (*Cercospora circumscissa*) (1)
- Shot-hole (*Wilsonomyces carpophilus*) (1)

**Cherry, Japanese (*Prunus serrulata*)**

- Cercospora leaf spot (*Passalora circumscissa*) (1)
- Scale insects (1)
- Shot-hole (*Wilsonomyces carpophilus*) (2)

**Cherry, Yoshino (*Prunus x yedoensis*)**

- Shot-hole (*Wilsonomyces carpophilus*) (1)

**Cherry Laurel (*Prunus laurocerasus* 'Otto Luyken')**

- Abiotic (soil too wet) (2)
- Botryosphaeria canker (*Botryosphaeria* sp.) (1)
- Granulate ambrosia beetle (*Xylosandrus crassiusculus*) (1)

- Oedema (too much water) (1)
- Root rot (*Phytophthora* sp.) (1)
- Shot-hole disease (*Thyrostroma carpophilum* suspected) (2)

**Chestnut, Chinese (*Castanea mollissima*)**

- Abiotic (high pH) (1)

**Chrysanthemum (*Chrysanthemum* sp.)**

- Bacterial leaf spot (*Pseudomonas cichorii*) (1)

**Clematis (*Clematis* sp.)**

- Leaf spot (*Passalora* sp.) (1)

**Cleyera, Japanese (*Ternstroemia gymnanthera*)**

- Abiotic (too wet) (1)
- Leaf spot (*Cercospora* sp.) (1)
- Root rot (*Pythium* sp.) (2)

**Clover, Durana (*Trifolium* sp.)**

- Crown and root rot (*Rhizoctonia solani*) (1)

**Collards (*Brassica oleracea*)**

- Abiotic (nutrient deficiency suspected) (1)

**Cowpea (*Vigna unguiculata*)**

- Root rot (*Pythium* sp.) (1)

**Crabapple (*Malus* sp.)**

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**Crape Myrtle (*Lagerstroemia indica*)**

- Abiotic (growth regulator herbicide suspected) (1)
- Cercospora leaf spot (*Cercospora* sp.) (2)
- Crape myrtle bark scale (*Eriococcus* sp.) (1)
- Botryosphaeria canker (*Botryosphaeria* sp.) (1)

**Cryptomeria (*Cryptomeria japonica*)**

- Abiotic (root suffocation suspected) (1)
- Needle blight (*Phyllosticta* sp.) (1)
- Scale insect (undetermined pathology) (1)

**Cucumber (*Cucumis sativus*)**

- Abiotic (Nitrogen deficiency suspected) (1)
- Leaf spot (*Cercospora apii*) (1)
- Target leaf spot (*Corynespora cassicola*) (1)

**Cucurbit sp.**

- Abiotic (Phytotoxicity suspected) (1)
- Cercospora leaf spot suspected (*Cercospora citrullina*) (2)

**Cypress (*Cupressus* sp.)**

- Cypress twig gall midge suspected (*Taxodiomyia cupressiananassa*) (1)

**Cypress, Italian (*Cupressus sempervirens*)**

- Diplodia blight (*Diplodia pinea* f. sp. cupressi) (2)
- Seiridium canker (*Seiridium unicorne*) (1)

**Dill (*Anethum graveolens*)**

- Stem anthracnose (*Colletotrichum* sp.) (1)

**Elaeagnus (*Elaeagnus* sp.)**

- Verticillium wilt suspected (*Verticillium* sp.) (1)

**Elm, Chinese (*Ulmus parvifolia*)**

- Black spot (*Stegophora ulmea*) (3)

**Euonymus (*Euonymus* sp.)**

- Scale insect (3)

**Evergreen (no identification provided)**

- Abiotic (winter desiccation) (1)

**Fescue (*Festuca* spp.)**

- Leaf spot (*Fusarium* sp.) (1)

**Fig, Common (*Ficus carica*)**

- Fig canker suspected (*Diaporthe eres*) (1)
- Web blight (*Rhizoctonia solani*) (1)
- Wood boring beetles (1)

**Gardenia (*Gardenia* sp.)**

- Abiotic (soil pH or root stress suspected) (1)
- Abiotic (wet soil) (1)
- Root problem suspected (1)

**Gourd (*Cucurbita* sp.)**

- Abiotic (drought suspected) (1)

**Holly (*Ilex* sp.)**

- Abiotic (poor drainage) (1)

- Abiotic (root bound) (1)
- Animal burrowing (1)
- Anthracnose (*Colletotrichum* sp.) (1)
- Phomopsis canker (*Phomopsis* sp.) (2)

**Holly, East Palatka (*Ilex x attenuata* ‘East Palatka’)**

- Abiotic (1)
- Cercospora leaf spot (*Cercospora* sp.) (1)

**Holly, ‘Heller’ (*Ilex crenata* ‘Helleri’)**

- Ectomycorrhizae (1)

**Holly, Oakland™ (*Ilex hybrid* ‘Magland’)**

- Abiotic (root suffocation suspected) (1)

**Hollyhock (*Alcea rosea*)**

- Hollyhock rust (*Puccinia malvacearum*) (1)

**Hydrangea, Panicle (*Hydrangea paniculata* ‘Limelight®’)**

- Crown rot (*Phytophthora* sp.) (1)

**Impatiens, New Guinea ‘Sunpatiens’ (*Impatiens hawkerii* ‘Sunpatiens’)**

- Stem canker (undetermined Coelomycete) (1)

**Indian Hawthorn (*Raphiolepis indica*)**

- Abiotic (root bound, girdling or J-ed roots) (2)
- Entomosporium leaf spot (*Diplocarpon mespili*) (4)

**Ivy, Boston (*Parthenocissus tricuspidata*)**

- Anthracnose (*Colletotrichum* sp.) (1)

**Ivy, English (*Hedera helix*)**

- Poor root health (undetermined cause) (1)
- Pythium root rot (*Pythium* sp.) (1)

**Jasmine, Asiatic (*Trachelospermum asiaticum*)**

- Abiotic (Cold injury) (1)

**Johnsongrass (*Sorghum halepense*)**

- Abiotic (1)
- Leaf spot (*Cercospora* sp.) (1)

**Juniper (*Juniperus* sp.)**

- Cedar apple rust (*Gymnosporangium juniperi-virginianae*) (1)
- Charcoal rot (*Macrophomina phaseolina*) (1)

- Needle blight (*Alternaria* sp.) (1)
- Needle blight (*Lophodermium juniperinum*) (1)
- Needle blight (*Macrophoma* sp.) (1)
- Needle blight (*Pestalotiopsis* sp.) (4)
- Twig blight (*Sphaeropsis* sp.) (1)

**Juniper, Creeping (*Juniperus horizontalis* ‘Bar Harbor’)**

- Botryosphaeria canker (*Botryosphaeria* sp.) (1)

**Juniper, Japanese (*Juniperus procumbens*)**

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**Juniper, Parson’s (*Juniperus chinensis* ‘Parsonii’)**

- Needle blight (*Pestalotiopsis* sp.) (1)

**Juniper, Pfitzer (*Juniperus chinensis* ‘Pfitzeraiana’)**

- Abiotic (too much water) (1)
- Twig blight (*Phomopsis* sp.) (1)

**Kale (*Brassica oleracea*)**

- Abiotic (nutrient deficiency suspected) (1)
- Aphids (1)
- Hollow stem (Cause undetermined) (1)

**Lantana (*Lantana camara*)**

- Lantana lace bug (*Teleonemia scrupulosa*) (1)

**Lemon (*Citrus limon*)**

- Alternaria leaf spot of rough lemon suspected (*Alternaria* sp.) (1)

**Lettuce, Bibb (*Lactuca sativa*)**

- Abiotic (fungicide burn suspected) (1)
- Tomato Spotted Wilt Virus (2)

**Leyland Cypress (X *Cupressocyparis leylandii*)**

- Abiotic (winter desiccation) (1)
- Abiotic (trunk strangulation) (1)
- Arborvitae needle blight (*Phyllosticta thujae*) (1)
- Needle blight (*Passalora sequoiae*) (2)
- Needle blight (*Pestalotiopsis* sp.) (3)
- Seiridium canker (*Seiridium unicorne*) (1)
- Stem girdling (insect or animal suspected) (1)

**Leyland Cypress, Murray (X *Cupressocyparis leylandii* ‘Murray’)**

- Abiotic (too deep) (1)
- Abiotic (J-rooted) (1)



- Needle blight (*Pestalotiopsis* sp.) (1)

**Ligustrum, Wax-leaf (Japanese privet) (*Ligustrum japonicum*)**

- Abiotic (1)
- Leaf spot (*Cercospora* sp.) (4)

**Liriope (*Liriope* sp.)**

- Anthracnose (*Colletotrichum* sp.) (1)
- Fusarium crown rot (*Fusarium* sp.) (1)

**Loropetalum (*Loropetalum chinense*)**

- Abiotic (too wet) (1)
- Bacterial gall (*Pseudomonas savastanoi*) (1)

**Mallow (*Malva* sp.)**

- Hollyhock rust (*Puccinia malvacearum*) (1)

**Magnolia (*Magnolia* sp.)**

- Powdery mildew (1)

**Magnolia, Southern (*Magnolia grandiflora*)**

- Abiotic (cold injury) (1)
- Abiotic (growth regulator herbicide suspected) (1)
- Algal leaf spot (*Cephaleuros virescens*) (1)
- Bacterial leaf spot suspected (*Pseudomonas cichorii*) (1)
- Leaf spot (*Coniothyrium* sp.) (1)
- Normal leaf drop (3)
- Scale insects (1)
- Wood boring insect (1)

**Magnolia, Sweet Bay (*Magnolia virginiana*)**

- Abiotic (cold damage suspected) (1)

**Maple (*Acer* sp.)**

- Abiotic (root dysfunction suspected) (1)
- Abiotic (heat stress suspected) (1)
- Granulate ambrosia beetles (*Xylosandrus crassiusculus*) (1)
- Sapsucker injury (*Sphyrapicus*) (1)

**Maple, Japanese (*Acer palmatum*)**

- Botryosphaeria canker (*Botryosphaeria* sp.) (1)

**Maple, Red (*Acer rubrum*)**

- Branch canker (*Fusicoccum* sp.) (1)
- Leaf spot (*Phyllosticta* sp.) (1)

**Maple, Red ‘Autumn Blaze’ (*Acer rubrum*)**

- Abiotic (root bound, girdling or J-ed roots) (1)
- Insect injury (1)

**Mayhaw (*Crataegus aestivalis*)**

- Rust (*Gymnosporangium* sp.) (1)

**Mondo Grass (*Ophiopogon japonicas*)**

- Anthracnose (*Colletotrichum* sp.) (3)
- Crown rot (*Fusarium* sp.)
- Crown rot (*Phytophthora* sp.) (1)
- Scale insects (1)

**Mondo Grass, Dwarf (*Ophiopogon japonicas*)**

- Anthracnose (*Colletotrichum* sp.) (1)

**Mulberry, Weeping (*Morus* sp.)**

- False mildew (*Phloeospora mori*) (1)

**Muscadine (*Vitis rotundifolia*)**

- Leaf blight (*Pseudocercospora vitis*) (1)

**Mustard Greens (*Brassicaceae* Family)**

- Abiotic (nutrient deficiency suspected) (1)
- White leaf spot (*Pseudocercoporella capsellae*) (1)

**Oak (*Quercus* sp.)**

- Abiotic (herbicide injury suspected) (1)
- Anthracnose (*Discula quercina*) (2)
- Armillaria root rot (*Armillaria* sp.) (1)
- Bacterial leaf scorch (*Xylella fastidiosa*) (2)
- Butt rot (*Ganoderma* sp.) (1)
- Fusiform rust (*Cronartium quercuum* f. sp. *fusiforme*) (1)
- Leaf spot (*Phyllosticta* sp.) (1)
- Oak Apple Gall (*Amphibolips* sp.) (1)
- Oak leaf blister (*Taphrina caerulescens*) (1)
- Oak twig canker and dieback (*Botryosphaeria quercuum*) (1)
- Obscure scale (*Melanaspis obscura*) (1)

**Oak, Live (*Quercus virginiana*)**

- Abiotic (overwatering) (2)
- Abiotic (root bound, girdling or J-ed roots) (1)
- Insect (1)
- Oak leaf blister (*Taphrina caerulescens*) (1)

- Oak lecanium scale suspected (*Parthenolecanium quercifex*) (1)

**Oak, Northern Red (*Quercus rubra*)**

- Bacterial leaf scorch (*Xylella fastidiosa*) (1)

**Oak, Nutall's (*Quercus nuttallii*)**

- Tubakia leaf spot (*Tubakia dryina*) (2)
- Squirrel damage (1)

**Oak, Pin (*Quercus palustris*)**

- Abiotic (growth regulator herbicide suspected) (1)
- Abiotic (glyphosate suspected) (1)
- Bacterial leaf scorch (*Xylella fastidiosa*) (7)
- Insect injury (1)
- Oak vein pocket gall (insect) (3)
- Obscure scale (*Melanaspis obscura*) (4)
- Powdery mildw (*Phyllactinia gutata*) (1)
- Twig canker (*Sphaeropsis* sp.) (1)
- Undetermined pathogenicity (*Nectria cinnabarina*) (2)

**Oak, Post (*Quercus stellata*)**

- Jumping oak gall (Insect) (1)
- Leaf spot (*Tubakia dryina*) (1)

**Oak, Red (*Quercus* sp.)**

- Tubakia leaf spot (*Tubakia dryina*) (1)
- Twig borer (1)

**Oak, Scarlet (*Quercus coccinea*)**

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**Oak, Shumard (*Quercus shumardii*)**

- Squirrel damage (1)

**Oak, Swamp Chestnut (*Quercus michauxii*)**

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**Oak, Water (*Quercus nigra*)**

- Gasteromycete fungus (possibly *Scleroderma* sp.) (1)
- Root and butt rot (*Inonotus dryadeus*) 91)

**Oak, White (*Quercus alba*)**

- Anthracnose (*Apiognomonina errabunda*) (1)
- Bacterial leaf scorch (*Xylella fastidiosa*) (1)
- Cicada oviposition damage (1)

- Insect galls (1)
- Obscure scale (*Melanaspis obscura*) (1)

**Oak, Willow (*Quercus phellos*)**

- Abiotic (growth regulator herbicide injury) (1)
- Abiotic (Iron deficiency) (2)
- Burls (undetermined cause) (1)
- Squirrel damage (1)
- Sooty mold (fungus) (1)
- Tubakia leaf spot (*Tubakia dryina*) (2)

**Okra (*Abelmoschus esculentes*)**

- Abiotic (too much water) (1)

**Oleander (*Nerium oleander*)**

- Abiotic (herbicide injury suspected) (1)

**Pachysandra (*Pachysandra* sp.)**

- Scale insects (2)
- Volutella blight (*Coccinonectria pachysandricola*) (3)

**Peach (*Prunus persica*)**

- Bacterial spot (*Xanthomonas arboricola* pv. *Pruni*) (1)
- Brown rot (*Monilinia fructicola*) (4)
- Shot-hole (*Wilsonomyces carpophilus*) (1)

**Peanut (*Arachis hypogaea*)**

- Abiotic (herbicide) (2)
- Diplodia collar rot (*Diplodia gossypina*) (1)
- Early leaf spot (*Passalora arachidicola*) (1)
- Late leaf spot (*Passalora personata*) (1)

**Pear (*Pyrus* sp.)**

- Bacterial shot-hole disease (*Pseudomonas syringae*) (1)
- Cedar quince rust (*Gymnosporangium clavipes*) (2)
- Leaf spot (*Phoma* sp.) (1)
- Spot anthracnose (*Elsinoë pyri*) (2)

**Pear, Ornamental (*Pyrus* sp.)**

- Fire blight (*Erwinia amylovora*) (1)
- Leaf spot (*Colletotrichum* sp.) (1)

**Pearl millet (*Pennisetum glaucum*)**

- Millet leaf blast (*Pyricularia* sp.) (1)

**Pecan (*Carya illinoensis*)**

- Aphid injury suspected (1)
- Burl (undetermined cause) (1)

**Pepper (*Capsicum* sp.)**

- Bacterial spot (*Xanthomonas campestris* pv. *vesicatoria*) (1)
- Blossom end rot (calcium deficiency) (3)
- Broad mites suspected (1)
- Virus suspected (1)

**Petunia (*Petunia* sp. hybrids)**

- Root rot (*Pythium* sp.) (1)

**Phlox (*Phlox* sp.)**

- Anthracnose (*Phyllosticta* sp.) (1)

**Pine, Loblolly (*Pinus taeda*)**

- Annosus root rot suspected (*Heterobasidion annosum*) (1)
- Normal leaf drop (1)

**Pittosporum, Dwarf (*Pittosporum tobira*)**

- Angular leaf spot (*Pseudocercospora pittospori*) (1)

**Plum (*Prunus* sp.)**

- Black-knot (*Apiosporina morbosa*) 91
- Gummosis (*Botryosphaeria* sp.) (1)
- Shot-hole disease (*Wilsonomyces carpophilus*) (1)
- Shot-hole borer suspected (1)

**Podocarpus (*Podocarpus* sp.)**

- Abiotic (winter desiccation suspected) (1)

**Privet (*Ligustrum* sp.)**

- Abiotic (pot bound) (1)

**Red Bay (*Persea borbonia*)**

- Laurel wilt (*Raffaelea lauricola*) (1)
- Wood boring insect (1)

**Rose (*Rosa* sp.)**

- Abiotic (glyphosate suspected) (1)
- Common canker (*Paraconiothyrium fuckelii*) (1)
- Insect feeding injury suspected (1)
- Normal plant part (rose hips) (1)
- Root rot (*Armillaria* sp.) (1)

- Root rot (*Pythium* sp.) (1)
- Sap rot (*Schizophyllum commune*) (1)

**Rose, Drift (*Rosa* sp.)**

- Cercospora leaf spot (*Passalora rosicola*) (1)

**Rose, Knock-out (*Rosa* sp.)**

- Black spot (*Diplocarpon rosae*) (1)
- Rose rosette virus suspected (1)

**Rutabaga (*Brassica napus*)**

- Abiotic (nutrient deficiency suspected) (1)
- White leaf spot (*Pseudocercoporella capsellae*) (1)

**Ryegrass (*Lolium* sp.)**

- Barley Yellow Dwarf Virus suspected (2)
- Blast (*Pyricularia grisea*) (1)

**Satsuma (*Citrus reticulata*)**

- Abiotic (nutrient deficiency suspected) (1)
- Abiotic (alternate bearing) (1)
- Fruit drop (abiotic) (1)
- Fruit split (abiotic) (1)
- Sweet orange scab suspected (*Elsinoe fawcettii*) (1)

**Saw Palmetto (*Serenoa repens*)**

- Ganoderma trunk rot suspected (*Ganoderma* sp.) (1)

**Skip Laurel (*Prunus laurocerasus* 'Schipkaensis')**

- Abiotic (1)
- Botryosphaeria canker (*Botryosphaeria* sp.) (1)

**Sorghum (*Sorghum vulgare*)**

- Rough leaf spot (*Ascochyta sorghi*) (1)
- Target leaf spot (*Bipolaris sorghicola*) (1)

**Soybean (*Glycine max*)**

- Abiotic (glufosinate drift suspected) (1)
- Charcoal root rot (*Macrophomina phaseolina*) (9)
- Frog-eye leaf spot (*Cercospora sojina*) (3)
- Leaf blight/purple seed stain (*Cercospora kikuchii*) (4)
- Leaf spot (*Septoria* sp.) (1)
- Pink root (*Setophoma terrestris*) (1)
- Pod and stem blight (*Phomopsis longicola*) (3)
- Pod blight (*Colletotrichum* sp.) (2)

- Pod blight (*Cercospora kikuchii*) (1)
- Root rot (*Fusarium* sp.) (5)
- Target spot (*Corynespora cassiicola*) (2)
- Undetermined pathology-possible root rot (*Neocosmospora vasinfecta*) (5)

**Soybean, Greenhouse (*Glycine max*)**

- Abiotic (nutritional problem suspected Mg and maybe Zn or Fe) (1)

**Spruce, Colorado Blue (*Picea pungens*)**

- Rhizosphaera needle cast (*Rhizosphaera kalkhoffii*) (1)

**Squash (*Cucurbita* sp.)**

- Abiotic (2)
- Blossom end rot (calcium deficiency) (1)
- Leaf spot (*Alternaria cucumerina*) (1)
- Leaf spot (*Cercospora* sp.) (2)
- Soil saprophyte (*Paecilomyces* sp.) (1)

**Squash, Butternut (*Cucurbita* sp.)**

- Ground stain (Unknown cause) (1)

**St. Augustinegrass (*Stenotaphrum secundatum*)**

- Gray leaf spot (*Pyricularia grisea*) (4)
- Large Patch (*Rhizoctonia solani*) (9)
- St. Augustinegrass Decline- SAD (Panicum Mosaic Virus) (1)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (32)

**Strawberry (*Fragaria* sp.)**

- Abiotic (acetochlor plus heavy clay soil plus cold wet weather suspected) (1)
- Abiotic (nutrient deficiency suspected) (1)
- Abiotic (root stress-too wet) (1)
- Bacterial leaf scorch (*Xylella fastidiosa*) (1)

**Sugarberry (*Celtis laevigata*)**

- Abiotic (growth regulator herbicide suspected) (1)

**Sweet olive (*Osmanthus fragrans*)**

- Anthracnose (*Colletotrichum gloeosporioides*) (1)

**Sweetpotato (*Ipomoea batatas*)**

- Black rot (*Ceratocystis fimbriata*) (1)
- Root-knot nematode (*Meloidogyne* sp.) (1)

**Sycamore (*Platanus occidentalis*)**

- Abiotic (root dysfunction suspected) (1)

#### **Tomato (Greenhouse) (*Lycopersicon esculentum*)**

- Abiotic (3)
- Abiotic (glyphosate herbicide- Roundup) (1)
- Abiotic (phenoxy herbicide suspected) (2)
- Abiotic (Golden speck or physiological russeting) (1)
- Abiotic (magnesium deficiency) (2)
- Abiotic (nutrient deficiency) (1)
- Abiotic (potassium deficiency suspected) (1)
- Bacterial canker (*Clavibacter michiganensis* subsp. *Michiganensis*) (1)
- Blossom end rot (Calcium deficiency) (1)
- Botrytis blight (*Botrytis* sp.) (1)
- Root rot (*Pythium* sp.) (1)
- Soil saprophyte (*Paecilomyces* sp.) (1)
- Zippering (open locule) (abiotic- anther sticks to ovary wall) (1)

#### **Tomato (Field grown)**

- Abiotic (3)
- Abiotic (herbicide suspected) (2)
- Abiotic (magnesium deficiency) (1)
- Abiotic (nitrogen deficiency suspected) (1)
- Abiotic nutrient deficiency suspected) (2)
- Abiotic (phytotoxicity suspected) (1)
- Bacterial speck suspected (*Pseudomonas syringae* pv. *tomato*) (2)
- Bacterial wilt (*Ralstonia solanacearum*) (7)
- Buckeye rot (*Phytophthora parasitica*) (3)
- Early blight (*Alternaria solani*) (3)
- Indeterminate leaf spot (Abiotic-unknown physiological cause) (1)
- Leaf mold (*Passalora fulva*) (1)
- Leaf spot (*Phoma lycopersica*) (2)
- Leaf spot (*Septoria lycopersici*) (1)
- Target spot (*Corynespora cassiicola*) (1)
- Persistent Green Shoulder (abiotic) (1)
- Phoma rot (*Phoma destructiva*) (2)
- Pith necrosis (*Pseudomonas corrugate*) (3)
- Yellow shoulder (abiotic- environmental, nutritional, genetic) (1)

#### **Tree ID**

- Sugarberry (*Celtis laevigata*) (1)

#### **Tulip poplar (*Liriodendron tulipifera*)**

- Leaf spot (Abiotic-physiological) (1)



**Turfgrass (identity not provided)**

- Anthracnose (*Colletotrichum* sp.) (1)
- Leaf spot (*Bipolaris* sp.) (1)
- Dollar spot (*Sclerotinia homoeocarpa*) (2)
- Large patch (*Rhizoctonia solani*) (5)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (2)

**Turnip (*Brassica rapa*)**

- Abiotic (Nitrogen deficiency suspected) (1)
- White leaf spot (*Pseudocercoporella capsellae*) (1)

**Unknown Identification**

- Artillary fungus (*Sphaerobolus* sp.) (1)
- Bolete fungus (1)
- Bryophyte
- Chanterelle (*Cantharellus cibarius*) (1)
- Cyanobacteria (*Nostoc* sp.) (1)
- *Galerina* sp. fungus (suspected) (1)
- Lichen (1)
- Nepalese browntop (*Microstegium vimineum*) (1)
- Moss (1)
- Oxalis corms (1)
- Pigmented hyphomycete (from under house) (1)
- Slime mold (*Fuligo septica*) (1)
- Stinkhorn (*Aseroë* sp.) (1)

**Vitex (*Vitex quinata*)**

- Abiotic (cold damage suspected) (1)

**Watermelon (*Citrullus lanatus*)**

- Gummy stem blight (*Stagonosporopsis cucurbitacearum*) (2)

**Wheat (*Triticum aestivum*)**

- Root rot (*Fusarium* sp.) (1)
- Root rot (*Pythium* sp.) (1)
- Root rot (*Rhizoctonia* sp.) (1)

**Willow, Weeping (*Salix babylonica*)**

- Black canker (*Colletotrichum salicis*) (1)

**Woody ornamentals**

- Abiotic (herbicide injury) (1)
- Cicada oviposition injury (1)

**Yew (*Taxus* sp.)**

- Root rot (*Phytophthora* sp.) (1)

**Zoysiagrass (*Zoysia japonica*)**

- Abiotic (2)
- Abiotic club-shaped root tips (herbicide) (7)
- Anthracnose suspected (*Colletotrichum* sp.) (4)
- Chinch bugs (2)
- Dollar spot (*Sclerotinia homoeocarpa*) (5)
- Large Patch (*Rhizoctonia solani*) (4)
- Leaf spot (*Bipolaris* sp.) (2)
- Pythium blight (*Pythium* sp.) (1)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (13)
- Zoysia rust (*Puccinia zoysiae*) (2)

**Zoysiagrass 'Pallisades' (*Zoysia japonica*)**

- Large Patch (*Rhizoctonia solani*) (4)