

The list below illustrates the types of pathogens/problems found on plants submitted to the plant diagnostic lab in 2016. 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.

**Abelia (*Abelia* sp.)**

- Abiotic (root bound) (1)

**Angel trumpet (*Brugmansia* sp.)**

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

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

- Cedar-apple rust (*Gymnosporangium juniperi-virginianae*) (1)

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

- Abiotic (drought stress) (3)
- Diplodia canker (*Diplodia mutila*) (1)
- Root rot (*Armillaria* sp.) (1)
- Root rot (*Phytophthora* sp.) (1)ber
- Undetermined needle browning (2)

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

- Abiotic (Temperature/moisture stress suspected) (1)
- Needle blight (*Pestalotiopsis* sp.) (1)

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

- Abiotic (growth regulator herbicide injury suspected) (1)

**Aucuba (*Aucuba japonica*)**

- Abiotic (sunscald) (1)
- Root disease or too much water suspected (1)

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

- Abiotic (genetic mutation suspected (witches broom) (1)
- Abiotic (nutrient stress) (1)
- Leaf gall (*Exobasidium* sp.) (1)
- Leaf spot (*Pestalotiopsis* sp.) (1)
- Root problem suspected (1)

**Azalea 'Encore' (*Rhododendron* hybrid)**

- Aerial web blight (*Rhizoctonia solani*) (1)

**Bacopa (*Sutera cordata*)**

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

**Bahiagrass (*Paspalum notatum*)**

- Abiotic and secondary fungal infection (cultural stress/*Exserohilum rostratum*) (1)
- Leaf spot and/or melting out (*Bipolaris* sp.) (2)

**Bald Cypress (*Taxodium distichum*)**

- Insect –Cypress gall midge (*Taxidiomyia* sp.) (1)

**Bamboo (*Phyllostachys* sp.)**

- Fusarium blight suspected (*Fusarium* sp.) (1)

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

- Abiotic (growth regulator herbicide exposure suspected) (1)
- Abiotic (low pH (4.0) and related nutrient deficiencies/toxicities) (1)
- Abiotic (nutrient deficiency) (2)

**Bean, Lima (*Phaseolus lunatus*)**

- Abiotic (swelling caused by wind rocking young stem back and forth) (1)
- Aerial web blight (*Rhizoctonia solani*) (1)
- Anthracnose (*Colletotrichum truncatum*) (1)
- Root-knot nematode (*Meloidogyne* sp.) (1)
- White mold (*Sclerotium rolfsii*) (1)

**Beet (*Beta vulgaris*)**

- Root-knot nematode (*Meloidogyne* sp.) (1)

**Begonia (*Begonia* sp.)**

- Slime mold (1)

**Bentgrass (*Agrostis* sp.)**

- Abiotic (cultural stress from lack of maintenance) (1)
- Crown and root rot (*Pythium* sp.) (2)
- Leaf blight (*Leptosphaerulina* sp.) (3)
- Leaf spot (*Bipolaris* sp.) (1)

**Bermudagrass (*Cynodon dactylon*)**

- Abiotic (Black layer- hydrogen sulfide toxicity) (3)
- Abiotic and secondary fungal infection (cultural stress/*Exserohilum rostratum*) (9)
- Abiotic (cultural problems) (1)
- Abiotic (dinitroaniline (DNA) herbicide damage) (1)
- Abiotic (high pH) (1)
- Bermudagrass decline (*Gaeumannomyces graminis* var. *graminis*) (10)
- Dollar spot (*Sclerotinia homoeocarpa*) (11)
- Ectotrophic root infecting fungi (ERI) (2)
- Leaf blight (*Pythium* sp.) (23)
- Leaf spot and/or melting out (*Bipolaris* sp.) (26)

- Nematode feeding damage (undetermined nematodes) (33)
- Nematodes, Lance (*Hoplolaimus* sp.) (1)
- Nematodes, Ring (5)
- Nematodes, Root-knot (*Meloidogyne* sp.) (6)
- Nematodes, Sting (*Belonolaimus* sp.) (9)
- Root rot (*Pythium* sp.) (37)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (2)

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

- Abiotic (Black layer) (1)
- Bermudagrass decline (*Gaeumannomyces graminis* var. *graminis*) (4)
- Crown rot (*Pythium* sp.) (1)
- Leaf spot and/or melting out (*Bipolaris* sp.) (1)
- Mini-ring suspected (*Rhizoctonia zeae*) (1)
- Nematodes suspected (4)
- Nematode, Root-knot (*Meloidogyne* sp.) (1)
- Root rot (*Pythium* sp.) (15)
- Spring dead spot suspected (*Ophiosphaerella* sp.) (1)

**Bermudagrass, ‘Jones dwarf’ (*Cynodon dactylon*)**

- Leaf blight (*Pythium* sp.) (1)
- Nematodes, Sting (*Belonolaimus* sp.) (1)

**Bermudagrass, ‘Mini-verde’**

- Bermudagrass decline (*Gaeumannomyces graminis* var. *graminis*) (1)
- Root rot (*Pythium* sp.) (1)
- Nematodes, Sting (*Belonolaimus* sp.) (1)

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

- Abiotic (Black layer) (1)
- Leaf blight (*Pythium* sp.) (1)
- Nematodes suspected (3)

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

- Dollar spot (*Sclerotinia homoeocarpa*) (1)
- Leaf blight (*Pythium* sp.) (4)
- Leaf spot and/or melting out (*Bipolaris* sp.) (5)
- Nematodes suspected (4)
- Nematode, Root-knot (*Meloidogyne* sp.) (1)
- Nematode, Sting (*Belonolaimus* sp.) (1)
- Root rot (*Pythium* sp.) (5)

**Blackberry (*Rubus* sp.)**

- Orange felt (*Cephaluros virescens*) (1)

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

- Abiotic (too much water suspected) (1)
- Stem canker (*Phyllosticta vaccinii*) (1)

**Boston Fern (*Nephrolepis exaltata bostoniensis*)**

- Abiotic (low pH, nutrient problem suspected) (1)

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

- Abiotic (desiccation- winter burn) (2)
- Abiotic (drought stress) (1)
- Dieback (*Colletotrichum theobromicola*) (1)
- Failure to establish-Abiotic (drought/heat stress suspected) (1)
- Root rot (*Pythium* sp.) (6)
- Twig blight (*Macrophoma candollei*) (5)
- Volutella blight (*Volutella buxi*) (1)

**Boxwood, Korean (*Buxus sinica*)**

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

**Cactus, Prickly Pear (*Opuntia* sp.)**

- Abiotic (sunscald) (1)

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

- Abiotic (drought stress) (1)
- Abiotic (Edema-too much water) (2)
- Abiotic (nutrient deficiency suspected) (1)
- Insect (Tea scale) (1)
- Leaf spot (*Pestalotiopsis karstenii*) (1)
- No pathogen (lichens) (1)
- Root dysfunction suspected (1)
- Twig cankers (*Colletotrichum* sp.) (1)

**Camellia (*Camellia sasanqua*)**

- Canker and dieback (*Botryosphaeria* sp.) (1)

**Cantaloupe (*Cucumis melo*)**

- Abiotic (nutrient deficiency) (1)

**Cedar, Eastern red (*Juniperus virginiana*)**

- Insect (Juniper webworm suspected) (1)
- Quince rust (*Gymnosporangium clavipes*) (1)
- Unexplained needle browning (1)

**Centipedegrass (*Eremochloa ophiuroides*)**

- Abiotic (dinitroaniline (DNA) herbicide)

- Abiotic (cultural/environmental stress suspected) (2)
- Anthracnose (*Colletotrichum eremochloae*) (4)
- Anthracnose (*Colletotrichum* sp.) (3)
- Dollar spot (*Sclerotinia homoeocarpa*) (1)
- Large patch (*Rhizoctonia solani*) (3)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (2)

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

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

**Cherry, Black (*Prunus serotina*)**

- Cherry leaf spot (*Blumeriella jaapii*) (1)

**Cherry, Flowering (*Prunus* sp.)**

- Bacterial blight (*Pseudomonas syringae* pv. *syringae*) (1)

**Cherry Laurel (*Prunus laurocerasus*)**

- Stem and root rot (*Phytophthora* sp.) (1)

**Cherry Laurel (*Prunus laurocerasus* ‘Otto Luyken’)**

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

**Chestnut (*Castanea* sp.)**

- Abiotic (high soluble salts, pH or incompatible potting medium suspected) (1)

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

- Insect (European pepper moth) (6)

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

- Insect (mite feeding injury) (1)

**Corn, Sweet (*Zea mays*)**

- Abiotic (cold, wet soils contributing to nutrient deficiency) (1)
- Abiotic (nutrient deficiency) (1)

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

- Rabbit tracks (Abiotic- nutrient deficiency suspected) (1)

**Cryptomeria (*Cryptomeria japonica*)**

- Abiotic (heat and drought stress suspected) (2)

**Cucumber (*Cucumis sativus*)**

- Abiotic (physiological response to heat stress suspected) (1)
- Anthracnose (*Colletotrichum* sp.) (1)

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

- Insect (scale) (1)
- Needle blight (*Pestalotiopsis* sp.) (1)
- Phomopsis blight suspected (*Phomopsis* sp.) (1)
- Seiridium canker (*Seiridium unicorne*) (1)
- Undetermined needle browning (1)

**Daisy, Gerber (*Gerbera jamesonii*)**

- Abiotic (high soluble salts) (1)

**Daylily (*Hemerocallis* sp.)**

- Daylily leaf rust (*Puccinia hemerocallidis*) (1)

**Dogwood, Kousa (*Cornus kousa*)**

- Abiotic (drought stress) (2)
- Root-knot nematode (*Meloidogyne* sp.) (1)

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

- Secondary twig dieback (*Leptosphaeria* sp.) (1)

**Eucalyptus (*Eucalyptus* sp.)**

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

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

- Root stress suspected (1)

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

- Brown patch (*Rhizoctonia solani*) (1)

**Fescue, Tall (*Festuca arundinacea*)**

- Brown patch (*Rhizoctonia solani*) (2)

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

- Aerial web blight (*Rhizoctonia solani*) (1)
- Leaf spot (*Cercospora* sp.) (1)
- Pink disease (*Erythricium salmonicolor*) (1)

**Fungus ID**

- Slime mold (*Stemonitis* sp.) (1)
- White rot fungus (*Poria* sp. or *Ceriporia* sp. suspected) (1)

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

- Abiotic (too much water) (1)
- Slime mold (*Stemonitis* sp. suspected) (1)

**Garlic (*Allium sativum*)**

- Black mold (*Aspergillus niger*) (1)
- Blue mold (*Penicillium* sp.) (1)

**Geranium (*Pelargonium x hortorum*)**

- Insect (cyclamen mites) (1)

**Ginger (*Alpinia* sp.)**

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

**Ginkgo (*Ginkgo biloba*)**

- Abiotic (drought stress) (1)

**Grape (*Vitis* sp.)**

- Black rot suspected (*Guignardia bidwellii*) (1)

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

**Hairy Vetch (*Vicia villosa*)**

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

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

- Opportunistic stem pathogen (*Thyronectria austroamericana*) (1)
- Insect suspected (1)
- Insect (scale insects) (1)

**Holly, Japanese (*Ilex crenata*)**

- Root problem suspected (2)

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

- Black root rot (*Thielaviopsis basicola*) (1)

**Holly, Red Hybrid Holly Oak Leaf™ (*Ilex* hybrid)**

- Abiotic (root dysfunction or pH) (1)

**Hollyhock (*Alcea rosea*)**

- Rust (*Puccinia malvacearum*) (1)

**Hydrangea, (*Hydrangea* sp.)**

- Leaf spot (*Colletotrichum gloeosporioides*) (1)
- Leaf spot (*Cercospora* sp.) (4)
- Leaf spot (*Corynespora cassicola*) (1)

**Impatiens, New Guinea hybrid**

- Insect (cyclamen mites) (1)
- Stem canker (*Macrophomina phaseolina*) (1)

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

- Abiotic (root bound) (2)
- Entomosporium leaf spot (*Entomosporium* sp.) (4)
- Stem and twig cankers (*Colletotrichum* sp.) (1)

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

- Leaf spot (*Phyllosticta ampelicida*) (1)

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

- Anthracnose (*Colletotrichum* sp.) (1)
- Root problem suspected (1)
- Root rot (*Phytophthora* sp.) (2)

**Japanese Anemone (*Anemone japonica*)**

- Root problem suspected (1)

**Japanese Blueberry Tree (*Elaeocarpus decipens*)**

- Abiotic (Excess water-hydrogen sulfide toxicity) (1)

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

- Twig blight (*Sphaeropsis* sp.) (1)

**Juniper, Bonsai (*Juniperus* sp.)**

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

**Juniper, Parson's (*Juniperus chinensis* 'Parsonii')**

- Abiotic (Glyphosate toxicity suspected) (1)

**Juniper, Spartan (*Juniperus chinensis* 'Spartan')**

- Phomopsis blight (*Phomopsis juniperivora*) (1)

**Kale (*Brassica oleracea*)**

- Abiotic (nutrient deficiency/toxicity suspected) (1)

**Kudzu (*Pueraria lobata*)**

- Leaf spot (*Cercospora* sp.) (2)

**Lantana (*Lantana camara*)**

- Insect (lantana lace bug) (1)
- Root rot (*Phytophthora* sp.) (1)

**Lemon (*Citrus limon*)**

- Insect (citrus leaf miner) (1)



**Lettuce, Hydroponic (*Lactuca sativa*)**

- Abiotic (high soluble salts suspected) (1)

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

- Abiotic (winter desiccation) (1)
- Abiotic (drought stress suspected) (2)
- Insect problem suspected (1)
- Needle blight (*Mycosphaerella* sp.) (1)
- Needle blight (*Passalora sequoiae*) (5)
- Seiridium canker (*Seiridium unicorne*) (1)
- Unexplained needle browning (3)

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

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

**Lilac (*Syringa* sp.)**

- Abiotic (heat stress suspected) (1)

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

- Abiotic suspected (1)
- Anthracnose (*Colletotrichum* sp.) (5)
- Crown and root rot (*Fusarium* sp.) (1)

**Liriope 'Big Blue' (*Liriope muscari*)**

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

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

- Sooty mold (1)

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

- Abiotic (environmental stress suspected) (2)
- Abiotic (dysfunctional roots suspected) (1)
- Abiotic (winter burn) (2)
- Algal leaf spot -lichenized (*Cephaleuros* sp. colonized by *Strigula* sp.) (3)
- Twig blight (*Diplodia* sp.) (1)
- Non-pathogenic fungus on leaves (*Parastenella magnolia*) (1)

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

- Abiotic (drought/transplant stress) (1)
- Animal injury (Squirrel) (1)

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

- Abiotic (drought stress) (1)
- Anthracnose (*Discula* sp.) (2)
- Canker/Dieback (*Botryosphaeria* sp.) (1)

- Insect (caterpillar) (1)

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

- Abiotic (no pathogen found) (1)
- Abiotic (root dysfunction suspected) (1)
- Botryosphaeria canker (*Botryosphaeria dothidea*) (1)
- Botryosphaeria canker (*Botryosphaeria stevensii*) (3)

**Marigold (*Tagetes*)**

- Insect (mites suspected) (1)

**Moss**

- Abiotic suspected (1)

**Nandina ‘Firecracker’ (*Nandina domestica*)**

- Abiotic (herbicide injury suspected) (1)

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

- Abiotic (growth regulator herbicide suspected) (1)
- Abiotic (ingrown bark) (1)
- Alcoholic flux (fermented tree sap) (1)
- Bacterial leaf scorch (*Xylella fastidiosa*) (2)
- Tubakia leaf spot (*Tubakia dryina*) (1)
- Insect (scale) (1)
- Insect (twig borer) (1)

**Oak, Cherrybark (*Quercus pagoda*)**

- Slime mold suspected (1)

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

- Irpex canker (*Spongipellis pachyodon*) (1)

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

- Abiotic (excessive water) (2)
- Bacterial leaf scorch (*Xylella fastidiosa*) (12)
- Tubakia leaf spot (*Tubakia dryina*) (2)

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

- Abiotic (herbicide suspected) (1)
- Bacterial leaf scorch (*Xylella fastidiosa*) (2)
- Oak leaf blister (*Taphrina caerulescens*) (1)

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

- Oak anthracnose (*Discula quercina*) (1)
- Sap sucking insects on leaves (1)

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

- Fusiform rust (*Cronartium quercuum* f. sp. *fusiforme*) (1)
- Saprophytic bark fungus (*Peniophora* sp. suspected) (1)

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

- Bacterial wetwood (various bacteria) (1)

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

- Heart rot (*Inonotus dryadeus*) (1)
- Tubakia leaf spot (*Tubakia dryina*) (1)

**Osteospermum (*Osteospermum* sp.)**

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

**Okra (*Abelmoschus esculentes*)**

- Abiotic (Herbicide exposure suspected) (1)
- Insect (stink bug feeding injury suspected) (1)

**Onion (*Allium cepa*)**

- Basal plate rot (*Fusarium oxysporum* f.sp. *cepae*) (1)

**Pansy (*Viola* sp.)**

- Aerial web blight (*Rhizoctonia solani*) (1)

**Papaya (*Carica papaya*)**

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

**Pasture**

- Leaf spot (*Bipolaris* sp.) (1)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (1)

**Peach (*Prunus persica*)**

- Insect (San Jose Scale) (2)

**Peanut (*Arachis hypogaea*)**

- Early leaf spot (*Passalora arachidicola*) (1)

**Pea, Garden (*Pisum sativum*)**

- Abiotic (growth regulator herbicide exposure suspected) (1)

**Pear (*Pyrus communis*)**

- Bitter rot suspected (*Colletotrichum* sp.) (1)
- Cedar-quince rust (*Gymnosporangium clavipes*) (2)
- Fruit cracking –Abiotic (too much water) (1)

- Twig dieback (*Fusarium lateritium*) (1)

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

- Cedar-quince rust (*Gymnosporangium clavipes*) (3)

**Pecan (*Carya illinoensis*)**

- Insect (Pecan phylloxera) (1)
- Abiotic (hot dry weather during nut fill and kernel maturation) (1)
- Bacterial leaf scorch (*Xylella fastidiosa*) (1)
- Scab (*Venturia effuse*) (91)

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

- Bacterial canker (*Clavibacter michiganensis* subsp. *michiganensis*) (2)
- Bacterial leaf spot (*Xanthomonas campestris*) (1)
- Blossom end rot (Abiotic-calcium deficiency) (1)
- Insect (cyclamen mites) (5)

**Pepper-Greenhouse (*Capsicum* sp.)**

- Abiotic (Magnesium deficiency suspected)
- Abiotic- Blotchy ripening (overcast during ripening + magnesium deficiency)

**Periwinkle (*Vinca* sp.)**

- Anthracnose (*Colletotrichum*) (1)

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

- Leaf blight (*Alternaria alternate*) (1)

**Pine (*Pinus* sp.)**

- Insect (black turpentine beetle suspected) (1)

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

- Brown spot needle blight (*Lecanosticta acicula*) (1)
- Root and butt rot (*Heterobasidion* sp.) (2)

**Pine, Shortleaf (*Pinus echinata*)**

- Slime mold suspected (1)

**Pineapple Lily (*Eucomis* sp.)**

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

**Pumpkin (*Curcubita* sp.)**

- Cercospora leaf spot (*Cercospora citrullina*) (4)
- Downy mildew (*Pseudoperonospora cubensis*) (3)
- Plectosporium blight (*Plectosporium tabacinum*) (2)

**Redbud (*Cercis canadensis*) (1)**

- Abiotic (drought stress)

**Rice, Greenhouse (*Oryza sativa*)**

- Abiotic (nutritional deficiency) (1)
- Abiotic tip blight (possible potassium deficiency or idiopathic tip blight) (1)
- Akiochi “Autumn decline” Abiotic (hydrogen sulfide toxicity) (1)
- Glume blight (*Phoma sorghina*) (1)
- Insect (mites) (1)

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

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

**Roughstalk Bluegrass (*Poa trivialis*)**

- Seedling blight (*Bipolaris* sp.) (1)

**Rudbeckia (*Rudbeckia* sp.)**

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

**Rutabaga (*Brassica napus*)**

- Root-knot nematode (*Meloidogyne* sp.) (1)

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

- Blast suspected (*Pyricularia grisea*)(1)
- Leaf spot (*Bipolaris* sp.) (3)

**Snapdragon (*Antirrhinum* sp.)**

- Aerial web blight (*Rhizoctonia solani*) (1)

**Soybean (*Glycine max*)**

- Abiotic (chemical injury suspected) (1)
- Abiotic (environmental/cultural problem suspected) (1)
- Brown spot (*Septoria glycines*) (1)
- Charcoal rot (*Macrophomina phaseolina*) (4)
- Frogeye leaf spot (*Cercospora sojina*) (1)
- Insect (Threecornered alfalfa hopper) (1)
- Pod anthracnose (*Colletotrichum* sp.) (1)
- Pod and seed decay (*Phomopsis longicolla*) (1)
- Pod blight *Cercospora kikuchii*) (2)
- Root rot (*Phytophthora* sp.) (1)
- Stem canker (*Colletotrichum truncatum*) (1)
- Stem canker (*Phomopsis longicolla*) (1)
- Soybean cyst nematode (*Heterodera glycines*) (1)

- Target spot (*Corynespora cassiicola*) (3)

**Spider Lily, White (*Hymenocallis occidentalis*)**

- Red leaf spot (*Peyronellaea curtisii*) (1)

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

- Abiotic (phytotoxicity) (3)

**Squash, Turk's Turban (*Cucurbita maxima*)**

- Bacterial wilt (*Erwinia tracheiphila*) (1)

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

- Abiotic (low pH) (1)
- Anthracnose (*Colletotrichum sp.*) (2)
- Gray leaf spot (*Pyricularia grisea*) (6)
- Insect (chinch bugs) (2)
- Large patch (*Rhizoctonia solani*) (1)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (28)

**Sweetpotato (*Ipomoea batatas*)**

- Black rot (*Ceratocystis fimbriata*) (1)
- Charcoal rot (*Macrophomina phaseolina*) (1)
- Chlorotic leaf distortion (*Fusarium denticulatum*) (1)
- Endophytic fungus (*Macrophomina phaseolina*) (1)
- Fusarium wilt (*Fusarium oxysporum*) (1)
- Leaf spot (*Cercospora sp.*) (1)
- Root rot (*Fusarium sp.*) (1)
- Root rot (*Fusarium solani*) (3)
- Slime mold (1)
- Stem canker phase of Fusarium root rot (*Fusarium sp.*) (1)

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

- Abiotic (burn) (1)
- Abiotic (genetic chimera) (2)
- Fusarium wilt (*Fusarium oxysporum* f. sp. *lycopersici* race 3) (1)
- Ghost spot (aborted *Botrytis sp.* fruit infections) (1)

**Tomato (Field grown)**

- Abiotic (Herbicide injury suspected) (7)
- Abiotic (Glyphosate herbicide) (1)
- Abiotic (Magnesium deficiency suspected) (2)
- Abiotic (Nitrogen deficiency suspected) (1)
- Abiotic (Nutrient deficiency suspected) (2)
- Abiotic (Phosphorus deficiency) (1)
- Alternaria leaf spot (*Alternaria alternata*) (1)

- Bacterial canker (*Clavibacter michiganensis*) (2)
- Bacterial speck (*Pseudomonas syringae* pv. *tomato*) (1)
- Bacterial wilt (*Ralstonia solanacearum*) (6)
- Buckeye rot (*Phytophthora* sp.) (1)
- Catface (Abiotic) (1)
- Early blight (*Alternaria solani*) (3)
- Fusarium wilt (*Fusarium oxysporum* f. sp. *lycopersici*) (2)
- Insect (spider mites) (1)
- Insect (Three cornered alfalfa hopper) (1)
- Leaf mold (*Passalora fulva*) (1)
- Leaf spot (*Stemphyllium* sp.) (1)
- Pith necrosis (*Pseudomonas corrugate*) (2)
- Southern blight (*Sclerotium rolfsii*) (1)
- Tomato spotted wilt virus (TSWV) (1)

#### **Tree**

- Canker (*Diplodia* sp.) (1)
- Root rot (*Armillaria* sp.) (1)

#### **Turfgrass (identity not provided)**

- Abiotic and secondary fungal infection (cultural stress/*Exserohilum rostratum*) (1)
- Fairy ring (basidiomycete fungi) (1)
- Large patch (*Rhizoctonia solani*) (4)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (2)

#### **Twinspur (*Diascia* sp.)**

- Stem lesion (*Cercospora* sp.) (1)

#### **Unknown Plant**

- Abiotic (Nitrogen deficiency suspected) (1)
- Abiotic (cultural/environmental stress suspected) (1)

#### **Viburnum (*Viburnum* sp.)**

- Greenhouse thrips suspected (*Heliothrips haemorrhoidalis*) (1)

#### **Vinca- Madagascar periwinkle (*Catharanthus roseus*)**

- Aerial stem blight (*Phytophthora nicotianae*) (2)
- Root rot (*Pythium* sp.) (1)

#### **Watermelon (*Citrullus lanatus*)**

- Abiotic (high pH and fertilizer burn suspected) (1)
- Abiotic (nutrient deficiency) (1)
- Alternaria leaf blight (*Alternaria* sp.) (1)
- Anthracnose (*Colletotrichum* sp.) (1)
- Bacterial fruit blotch (*Acidovorax avena* subsp. *citrulli*) (1)

- Cercospora leaf spot (*Cercospora citrullina*) (41)
- Gummy stem blight (*Stagonosporopsis cucurbitacearum*) (13)
- Pythium cottony leak (*Pythium* sp.) (1)
- Root rot (*Thielaviopsis* sp.) (1)

**Willow, Corkscrew (*Salix matsudana*)**

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

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

- Black canker (*Colletotrichum salicis*) (2)

**Zinnia (*Zinnia* sp.)**

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

**Zoysiagrass (*Zoysia japonica*)**

- Abiotic (herbicide injury) (3)
- Abiotic (high pH) (1)
- Abiotic (site conditions/weather) (2)
- Dollar spot (*Sclerotinia homoeocarpa*) (4)
- Insect (chinch bugs) (1)
- Insect (scale) (1)
- Large patch (*Rhizoctonia solani*) (2)
- Leaf spot (*Bipolaris* sp.) (1)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (8)

**Zoysiagrass, 'Geo' (*Zoysia japonica*)**

- Ink spot (*Curvularia malina*) (1)

**Zoysiagrass 'Palisades' (*Zoysia japonica*)**

- Ascochyta leaf blight (*Ascochyta* sp.) (1)
- Large patch (*Rhizoctonia solani*) (4)
- Rust (*Puccinia zoysia*) (1)
- Take-all root rot (*Gaeumannomyces graminis* var. *graminis*) (1)

**Zoysiagrass 'Z-52' (*Zoysia japonica*)**

- Abiotic (dinitroaniline (DNA) herbicide injury) (1)

**Zucchini (*Cucurbita pepo*)**

- Abiotic (potassium deficiency suspected) (1)
- Powdery mildew (*Podosphaera fuliginea* or *Golovinomyces cichoracarum*) (1)