

INDEX OF PLANT DISEASES

IN SOUTH CAROLINA

**Third Edition**

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**PREFACE**

### The first edition of the Index of Plant Diseases in South Carolina published in 2008 listed the plant diseases occurring on cultivated and native plants in SC as reported from plant samples submitted to the Clemson University Plant Problem Clinic between 1972 and 2006, with the addition of disease reports from Extension and research plant pathologists across SC. The second edition included data from 2007 through 2011, adding 85 new host plants and 634 new diagnoses. This third edition includes disease reports from 2012 through 2014, adding 54 new host plants and 350 new diagnoses.

### The Index now contains 1,041 genera and species of plants from 124 plant families with 1,573 common names. There are 5,727 disease reports with 4,712 diseases being caused by fungi, 442 diseases caused by nematodes, 380 diseases caused by bacteria, 247 diseases caused by viruses, 20 diseases caused by algae, 3 diseases caused lichens, 1 disease caused by a phytoplasma, and 1 disease caused by a viroid.

### No attempt has been made to update the binomial nomenclature of either plants or plant pathogens listed in this publication. This index lists the plants and their pathogens as taken from the sample submission forms and the reports generated by the various Clemson University plant pathologists. This index does not imply that it is a complete list of the diseases of plants in South Carolina. New plants as well as new plant pathogens are continually being introduced into the United States.

### The Index is arranged so that plant families are listed alphabetically. Within each plant family is an alphabetical listing of plant species. Plant pathogens found on each plant are then listed under pathogen categories – algae, bacteria, fungi, nematodes, phytoplasmas, viroids and viruses.

### New to this edition is a series of indices to the common and Latin binomials (genus species) of plants, plant family names, common names of plant diseases, and Latin binomials of the disease-causing organisms (algae, bacteria, fungi, nematodes, phytoplasmas, viruses and viroids) found in this publication.

### This publication will serve as a useful reference for anyone interested in plant diseases, including county Extension agents, diagnosticians, students, Master Gardeners, Master Naturalists, and Department of Plant Industry personnel.

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**TABLE OF CONTENTS**

Index of Plant Diseases in South Carolina 4

[Index to the Genera and Species of Plants 142](#_TOC_250010)

[Index to the Common Names of Plants 152](#_TOC_250009)

[Index to the Plant Families 162](#_TOC_250008)

[Index to the Common Names of Plant Diseases 164](#_TOC_250007)

[Index to the Genera and Species of Plant Pathogenic Algae 172](#_TOC_250006)

[Index to the Genera and Species of Plant Pathogenic Bacteria 173](#_TOC_250005)

[Index to the Genera and Species of Plant Pathogenic Fungi 174](#_TOC_250004)

[Index to the Genera and Species of Plant Pathogenic Lichens 182](#_TOC_250003)

[Index to the Genera and Species of Plant Pathogenic Nematodes 183](#_TOC_250002)

[Index to the Genera and Species of Plant Pathogenic Phytoplasmas 184](#_TOC_250001)

Index to the Genera and Species of Plant Pathogenic Viroids 185

[Index to the Genera and Species of Plant Pathogenic Viruses 186](#_TOC_250000)

**ACANTHACEAE**

***Aphelandra justicia (*Zebra Plant)**

FUNGI

*Botrytis* sp. — Botrytis leaf spot

***Justicia brandegeana* (Shrimp Plant)**

FUNGI

*Sclerotium rolfsii* — Southern blight

***Justicia* sp. (Water Willow)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Ruellia brittoniana* (Mexican Petunia)**

FUNGI

*Sclerotinia sclerotiorum* — White mold

***Thunbergia* sp. (Thunbergia)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Pythium* sp. — Pythium root rot

**ACERACEAE**

***Acer barbatum* (Southern Sugar Maple, Florida Maple)**

FUNGI

*Colletotrichum* sp. — Colletotrichum leaf spot, Anthracnose

#### *Acer* buergeranum (Trident Maple)

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

***Acer japonicum* (Japanese Maple)**

FUNGI

*Botryodiplodia* sp. — Botryodiplodia dieback *Kabatiella apocrypta* — Anthracnose *Phomopsis* sp. — Phomopsis dieback *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

***Acer negundo* (Box Elder)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Colletotrichum* sp. — Anthracnose *Gloeosporium* sp. — Anthracnose *Phomopsis* sp. — Phomopsis canker

***Acer palmatum* (Cutleaf Japanese Maple)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

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

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Apiognomonia* sp. — Anthracnose *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum gloeosporioides* — Colletotrichum dieback

*Colletotrichum* sp. — Anthracnose, Colletotrichum stem decay

*Coniothyrium* sp. — Coniothyrium canker and dieback

*Discula* sp. — Discula anthracnose

*Fusicoccum* sp. — Fusicoccum canker and dieback *Gloeosporium* sp. — Gloeosporium leaf spot *Kabatiella apocrypta* — Anthracnose

*Pestalotia* sp. — Pestalotia leaf spot

*Phoma* sp. — Phoma canker and dieback *Phomopsis* sp. — Phomopsis dieback, canker, stem canker and twig dieback

*Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root and crown rot

*Pythium* sp. — Pythium root rot

*Sphaeropsis* sp. — Sphaeropsis dieback and canker

***Acer palmatum* ‘Sango-kaku’ (Coral Bark Maple)**

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Rhytisma acerinum* — Tar spot *Septoria* sp. — Septoria leaf spot *Uncinula bicornis* — Powdery mildew *Uncinula* sp. — Powdery mildew

***Acer saccharinum* (Silver Maple)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker

***Acer platanoides* (Norway Maple)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

***Acer pseudoplatanus* (Sycamore Maple)**

FUNGI

*Apiognomonia veneta* — Anthracnose

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

BACTERIA

*Enterobacter cloacae* — Bacterial wetwood

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Actinopelte* sp. — Actinopelte leaf spot

*Ascochyta* sp. — Ascochyta leaf spot *Botryosphaeria dothidea* — Botryosphaeria canker *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Colletotrichum* sp. — Anthracnose *Cristulariella moricola* — Zonate leaf spot *Cristulariella pyramidalis* — Zonate leaf spot

*Cylindrosporium* sp. — Cylindrosporium leaf spot

*Discula* sp. — Anthracnose

*Gloeosporium* sp. — Gloeosporium leaf spot *Hypoxylon* sp. — Hypoxylon canker *Kabatiella* sp. — Anthracnose *Macrophomina* sp. — Charcoal rot *Phomopsis* sp. — Phomopsis canker *Phyllosticta minima* — Phyllosticta leaf spot *Phyllosticta* sp. — Purple-bordered leaf spot, Phyllosticta leaf spot

*Pilidium* sp. — Pilidium leaf spot

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Cristulariella depraedans* — Cristulariella leaf spot

*Discula* sp. — Anthracnose

*Gloeosporium apocryptum* — Anthracnose *Gloeosporium* sp. — Anthracnose *Phyllosticta minima* — Phyllosticta leaf spot *Phyllosticta* sp. — Purple-bordered leaf spot, Phyllosticta leaf spot

*Rhytisma acerinum* — Tar spot

***Acer saccharum* (Sugar Maple)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Apiognomonia* sp. — Anthracnose *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Discula* sp. — Discula anthracnose *Kabatiella* sp. — Anthracnose *Monostichella* sp. — Monostichella leaf spot *Phomopsis* sp. — Phomopsis canker *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora cinnamomi* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Septoria* sp. — Septoria leaf spot

*Verticillium* sp. — Verticillium wilt

***Acer saccharum* subsp. *nigrum* (Black Maple)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

***Acer* x *freemanii* (Freeman’s Maple)**

FUNGI

*Fusarium* sp. — Fusarium canker

*Pythium* sp. — Pythium root rot

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

FUNGI

*Armillaria* sp. — Armillaria root rot

*Ascochyta* sp. — Ascochyta leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Ceratocystis caerulescens* — Sap streak *Cercospora* sp. — Cercospora leaf spot *Cladosporium humile* — Cladosporium leaf spot *Colletotrichum acutatum* — Anthracnose *Colletotrichum* sp. — Anthracnose *Coniothyrium* sp. — Coniothyrium leaf spot

*Cylindrosporium* sp. — Cylindrosporium leaf spot *Cristulariella pyramidalis* — Zonate leaf spot *Discula* sp. — Anthracnose

*Elsinoe* sp. — Spot anthracnose

*Fusarium solani* — Fusarium stem rot *Gloeosporium apocryptum* — Anthracnose *Gloeosporium* sp. — Anthracnose *Kabatiella apocrypta* — Anthracnose *Nectria cinnabarina* — Nectria canker

*Phyllosticta minima* — Purple-bordered leaf spot *Phyllosticta* sp. — Purple-bordered leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhytisma acerinum* — Tar spot *Venturia acerina* — Venturia leaf spot *Verticillium* sp. — Verticillium wilt

NEMATODES

*Criconemella* sp. — Ring nematode

**ACTINIDIACEAE**

***Actinidia chinensis* (Kiwi)**

BACTERIA

*Agrobacterium* sp. — Crown gall

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Cylindrocladium crotolariae —* Cylindrocladium root rot

*Cylindrocladium* sp. — Cylindrocladium root rot

*Fusarium oxysporum —* Fusarium wilt *Fusarium* sp. — Fusarium root rot *Phomopsis* sp. — Phomopsis canker *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora cinnamomi —* Phytophthora root rot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii —* Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

**AIZOACEAE**

***Delosperma cooperi* (Cooper’s Hardy Ice Plant, Delosperma)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

***Delosperma nubigenum* (Delosperma, Hardy Yellow Ice Plant)**

FUNGI

*Phytophthora nicotianae —* Phytophthora root and crown rot

***Mesembryanthemum* sp. (Ice Plant)**

FUNGI

*Phytophthora parasitica —* Phytophthora root rot

*Pythium* sp. — Root and stem rot

**AMARANTHACEAE**

***Alternanthera* sp. (Alternanthera)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Amaranthus* sp. (Pigweed)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

***Celosia* sp. (Woolflower)**

FUNGI

*Fusarium* sp. — Fusarium stem rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

*Phytophthora* sp. — Phytophthora stem rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Gomphrena* sp. (Gomphrena)**

FUNGI

*Botrytis* sp. — Gray mold

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

**ANACARDIACEAE**

***Pistacia chinensis* (Chinese Pistachio)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

***Rhus michauxii* (Sumac)**

FUNGI

*Oidium* sp. — Powdery mildew

**APIACEAE**

***Aegopodium* sp. (Goutweed)**

FUNGI

*Pythium* sp. — Pythium root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Astrantia* sp. (Astrantia)**

FUNGI

*Colletotrichum* sp. — Anthracnose

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Coriandrum sativum* (Cilantro)**

BACTERIA

*Pseudomonas syringae —* Bacterial leaf spot

***Daucus carota* (Carrot)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Petroselinum crispum* (Parsley)**

FUNGI

*Fusarium* sp. — Fusarium root and stem rot

*Pythium* sp. — Pythium root rot

**APOCYNACEAE**

***Adenium* sp. (Desert Rose)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Amsonia* sp. (Bluestar)**

FUNGI

*Coleosporium apocynaceum —* Rust

***Catharanthus roseus* (Annual Vinca)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis cinerea —* Gray mold *Botrytis* sp. — Gray mold *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium stem and root rot

*Gloeosporium* sp. — Anthracnose

*Phoma* sp. — Phoma leaf spot

*Phytophthora nicotianae —* Phytophthora aerial blight, branch blight, stem and root rot *Phytophthora nicotianae* var. *parasitica* — Phytophthora stem rot

*Phytophthora* sp. — Phytophthora root rot, Aerial blight, Branch blight

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia stem, root and crown rot, Aerial blight

*Sclerotium rolfsii —* Southern blight

***Catharanthus* sp. (Annual Vinca)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Mandevilla laxa* (Chilean Jasmine)**

FUNGI

*Botrytis* sp. — Gray mold

***Mandevilla* sp. (Mandevilla)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Phytophthora nicotianae —* Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Aerial blight

***Nerium* sp. (Oleander)**

BACTERIA

*Pseudomonas syringae —* Bacterial knot

*Xylella fastidiosa —* Bacterial leaf scorch

FUNGI

*Aleurodiscus oakesii* — Smooth patch fungus *Alternaria* sp. — Alternaria leaf spot *Armillaria* sp. — Armillaria root rot *Botryodiplodia* sp. — Botryodiplodia leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback and canker, Leaf spot

*Botrytis cinerea —* Botrytis blight *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Leaf spot *Gloeosporium* sp. — Gloeosporium leaf spot *Macrophoma* sp. — Foliage necrosis *Phomopsis* sp. — Phomopsis dieback *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Plumeria* sp. (Frangipani Temple Tree)**

FUNGI

*Macrophoma* sp. — Macrophoma leaf spot

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

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia solani — Rhizoctonia root and stem rot*

*Rhizoctonia* sp. — Rhizoctonia root rot

*Sclerotium rolfsii* — Southern stem blight

***Trachelospermum jasminoides* (Confederate Jasmine)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback, canker, and twig blight

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

***Vinca major* (Greater Periwinkle)**

FUNGI

*Alternaria sp. — Alternaria leaf spot Botryodiploidia* sp. — Botryodiploidia dieback, canker and stem rot

*Colletotrichum* sp. — Anthracnose *Golovinomyces orontii* — Powdery mildew *Phoma* sp. — Phoma blight

*Phytophthora* sp. — Phytophthora blight and root rot

*Rhizoctonia solani —* Rhizoctonia root rot *Rhizoctonia* sp. — Rhizoctonia root, crown and stem rot

*Sclerotium rolfsii* — Southern stem blight

***Vinca minor* (Common Periwinkle)**

BACTERIA

*Acidovorax konjaci —* Bacterial leaf spot

*Ralstonia solanacearum —* Bacterial wilt

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis* sp. — Gray mold *Colletotrichum* sp. — Anthracnose

*Cylindrocladium* sp. — Cylindrocladium stem and root rot, Cylindrocladium blight *Gloeosporium* sp. — Anthracnose

*Phoma* sp. — Phoma leaf spot and blight *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae —* Phytophthora blight *Phytophthora parasitica* — Phytophthora stem rot, blight

*Phytophthora sp. —* Phytophthora root rot *Pythium* sp. — Pythium blight, root and stem rot *Rhizoctonia solani —* Rhizoctonia root and stem rot

*Sclerotium rolfsii —* Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

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

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis cinerea —* Gray mold *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium stem rot *Gloeosporium* sp. — Anthracnose *Phoma exigua —* Phoma dieback *Phoma* sp. *—* Phoma blight

*Phomopsis livella —* Phomopsis canker and dieback

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora branch blight, root and stem rot

*Phytophthora parasitica —* Phytophthora stem rot *Phytophthora* sp. — Phytophthora root and stem rot, Aerial blight

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot, Damping off, Web blight

*Sclerotium rolfsii —* Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

**AQUIFOLIACEAE**

***Ilex aquifolium* (English Holly)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Gloeosporium* sp. — Gloeosporium leaf spot

***Ilex* x *attenuata* (Foster Hybrid Holly, Savannah Holly)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryodiplodia* sp. — Botryodiplodia dieback and canker

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Diplodia* sp. — Diplodia dieback

*Phomopsis* sp. — Phomopsis dieback *Phytophthora cinnamomi —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Thielaviopsis basicola —* Black root rot

NEMATODES

*Criconemella* sp. — Ring nematode

***Ilex* x *attenuata fosteri* (East Palatka Holly)**

FUNGI

*Colletotrichum* sp. — Anthracnose, twig dieback, and leaf spot

#### *Ilex cornuta* (Chinese Holly —‘Burford’ Holly, ‘Carissa’ Holly, ‘Dwarf Burford’ Holly, ‘Needlepoint’ Holly)

ALGAE

*Cephaleuros* sp. — Algal leaf spot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback, Fruit rot

*Botrytis* sp. — Botrytis blight *Cercospora* sp. — Leaf spot *Cladosporium* sp. — Leaf necrosis *Colletotrichum* sp. — Anthracnose *Diplodia* sp. — Diplodia dieback *Dothiorella* sp. — Dothiorella leaf spot *Elsinoe* sp. — Spot anthracnose *Fusarium* sp. — Fusarium stem necrosis *Fusicoccum* sp. — Twig blight

*Gloeosporium* sp. — Gloeosporium leaf spot, Anthracnose

*Phacidium* sp. — Tar spot

*Phomopsis* sp. — Phomopsis dieback *Phytophthora cinnamomi —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

*Thielaviopsis basicola —* Black root rot

NEMATODES

*Criconemella* sp. — Ring nematode

*Helicotylenchus* sp. — Spiral nematode

#### *Ilex crenata* (Japanese Holly — ‘Convexa’, ‘Dwarf Convexa’, ‘Helleri’, ‘Hoogendorn’, ‘Roundleaf’, ‘Steeds’, ‘Stokes’)

BACTERIA

*Agrobacterium tumefaciens —* Crown gall

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Colletotrichum* sp. — Anthracnose *Cylindrocladium* sp. — Cylindrocladium leaf spot *Dothiorella* sp. — Dothiorella leaf spot

*Elsinoe* sp. — Spot anthracnose *Fusarium* sp. — Fusarium root rot *Guignardia* sp. — Guignardia leaf spot

*Macrophoma* sp. — Macrophoma leaf spot *Phomopsis* sp. — Phomopsis canker and dieback, Twig blight

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora ilicis* — Phytophthora root rot *Phytophthora nicotianae —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

*Thielaviopsis basicola —* Black root rot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne* sp. — Root-knot nematode *Tylenchorhynchus* sp. — Stunt nematode *Scutellonema* sp. — Spiral nematode *Xiphinema* sp. — Dagger nematode

***Ilex* x *Emily Bruner (‘*Emily Bruner’ Holly)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Phacidium* sp. — Tar spot

***Ilex glabra* (Inkberry Holly)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback, Stem rot

*Colletotrichum* sp. — Anthracnose *Phytophthora* sp. — Phytophthora root rot *Thielaviopsis basicola —* Black root rot

***Ilex latifolia* (Lusterleaf Holly)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker

*Colletotrichum* sp. — Anthracnose

***Ilex* x *meserveae* (Holly)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

*Rhizoctonia* sp. — Thread blight

***Ilex* x *Nellie R. Stevens* (‘Nellie Stevens’ Holly)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Colletotrichum* sp. — Anthracnose *Phacidium* sp. — Tar spot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Thielaviopsis basicola —* Black root rot

FUNGI

*Armllaria* sp. — Armillaria root rot *Botryosphaeria dothidea —* Botryosphaeria canker and dieback

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Colletotrichum* sp. — Anthracnose *Cylindrocladium* sp. — Cylindrocladium leaf spot *Fusarium* sp. — Fusarium stem rot

*Leptothyrium* sp. — Leptothyrium leaf spot *Phytophthora cinnamomi —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot

*Phoma* sp. — Phoma dieback

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Web blight

*Thielaviopsis basicola —* Black root rot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne* sp. — Root-knot nematode

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

***Ilex opaca* (American Holly)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium canker *Fusicoccum* sp. — Fusicoccum twig blight *Gloeosporium* sp. — Gloeosporium leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot

NEMATODES

*Criconemella* sp. — Ring nematode

***Ilex vomitoria* (Yaupon Holly, Dwarf Yaupon Holly)**

BACTERIA

*Agrobacterium tumefaciens —* Crown gall

BACTERIA

*Agrobacterium tumefaciens —* Crown gall

*Corynebacterium ilicis —* Bacterial gall

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Armillaria mellea —* Oak root rot *Armillaria* sp. — Armillaria root rot

*Botryodiplodia* sp. — Botryodiplodia leaf spot *Botryosphaeria* sp. — Botryosphaeria canker and dieback, Fruit rot

*Botrytis* sp. — Botrytis blight *Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Leaf necrosis *Colletotrichum* sp. — Anthracnose

*Cytosporella* sp. — Cytosporella twig blight *Dothiorella* sp. — Dothiorella leaf spot *Elsinoe* sp. — Spot anthracnose

*Fusarium* sp. — Fusarium dieback *Gloeosporium ilicis —* Gloeosporium canker and leaf spot

*Gloeosporium* sp. — Anthracnose *Macrophoma* sp. — Macrophoma dieback and leaf spot

*Myrothecium* sp. — Myrothecium leaf spot

*Pellicularia* sp. — Leaf rot

*Pestalotia* sp. — Pestalotia leaf spot

*Phacidium* sp. — Tar spot

*Phoma* sp. — Phoma dieback and leaf spot *Phomopsis* sp. — Phomopsis blight, canker and dieback

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cactorum —* Phytophthora dieback *Phytophthora cinnamomi —* Phytophthora root rot *Phytophthora illicis —* Phytophthora twig blight *Phytophthora nicotianae —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Thread blight, Web blight

*Thielaviopsis basicola —* Black root rot *Thielaviopsis* sp. — Black root rot *Volutella* sp. — Volutella blight

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne* sp. — Root-knot nematode *Scutellonema* sp. — Spiral nematode *Tylenchorhynchus* sp. — Stunt nematode *Xiphinema* sp. — Dagger nematode

**ARACEAE**

***Acorus gramineus* (Grassy-leaved Sweet Flag)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Rhizoctona* sp. — Rhizoctona root and stem rot

***Acorus* sp. (Sweet Flag)**

FUNGI

*Sphaerulina acorii —* Sphaerulina leaf spot

***Aglaonema commutatum* (Chinese Evergreen)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

***Aglaonema modestum* (Chinese Evergreen)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Aglaonema* sp. (Chinese Evergreen)**

FUNGI

*Fusarium* sp. — Fusarium root rot *Pythium splendens —* Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Alocasia taro* (Elephant’s Ear)**

BACTERIA

*Xanthomonas campestris —* Bacterial leaf spot

***Alocasia* sp. (Elephant’s Ear)**

FUNGI

*Fusarium* sp. — Fusarium bulb rot

*Pythium* sp. — Pythium root rot

***Anthurium* sp. (Anthurium)**

BACTERIA

*Erwinia* sp. — Bacterial soft rot

***Caladium* sp. (Caladium)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot *Fusarium* sp. — Fusarium crown rot *Pythium* sp. — Pythium root rot

***Colocasia jensii* (Elephant's Ear)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia stem rot

***Colocasia* sp. (Elephant's Ear)**

FUNGI

*Fusarium* sp. — Fusarium corm rot

*Pythium* sp. — Pythium root and crown rot

***Dieffenbachia* sp. (Dumb Cane)**

BACTERIA

*Erwinia chrysanthemi —* Bacterial soft rot *Erwinia* sp. — Bacterial soft rot *Pseudomonas* sp. — Bacterial leaf spot

*Xanthomonas campestris —* Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Gloeosporium* sp. — Gloeosporium leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root rot

***Monstera deliciosa* (Split-Leaf Philodendron)**

BACTERIA

*Erwinia chrysanthemi —* Bacterial soft rot

***Philodendron* sp. (Philodendron)**

BACTERIA

*Erwinia carotovora —* Bacterial soft rot *Erwinia chrysanthemi —* Bacterial leaf rot *Erwinia* sp. — Bacterial leaf rot

FUNGI

*Colletotrichum* sp. — Anthracnose *Glomerella* sp. — Anthracnose *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Pothos* sp. (Pothos)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

*Pythium splendens —* Pythium root rot

***Spathiphyllum* sp. (Spathe Flower)**

BACTERIA

*Erwinia chrysanthemi —* Bacterial soft rot

*Erwinia* sp. — Bacterial soft rot

FUNGI

*Cylindrocladium spathiphylli —* Cylindrocladium root and petiole rot

*Pythium* sp. — Pythium root rot

***Syngonium podophyllum* (Nephthytis)**

FUNGI

*Pythium* sp. — Pythium root rot

***Syngonium* sp. (Syngonium)**

BACTERIA

*Erwinia chrysanthemi —* Bacterial soft rot *Xanthomonas vitians —* Bacterial leaf spot *Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Botrytis* sp. — Gray mold

*Colletotrichum* sp. — Anthracnose

***Zantedeschia* sp. (Calla Lilly)**

BACTERIA

*Erwinia chyrsanthemi* — Bacterial soft rot

*Erwinia* sp. — Bacterial soft rot

*Pectobacterium carotovorum* ssp. *carotovorum* — Bacterial soft rot

FUNGI

*Fusarium* sp. — Fusarium dry rot

*Pythium* sp. — Pythium blight

**ARALIACEAE**

***Aralia* sp. (Aralia)**

FUNGI

*Pythium* sp. — Pythium root rot

***Brassaia actinophylla* (Australian Umbrella Tree, Schefflera)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot

***Brassaia arboricola* (Umbrella Tree, Schefflera)**

FUNGI

*Pythium* sp. — Pythium root rot

*Gloeosporium* sp. — Anthracnose

**x *Fatshedera lizei* (Ivy Tree)**

FUNGI

*Phomopsis* sp. — Phomopsis leaf spot

*Phytophthora* sp. — Phytophthora root rot

**x *Fatshedera* sp. (Aralia Ivy)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

***Fatsia japonica* (Fatsia)**

BACTERIA

*Xanthomonas campestris* pv. *hederae —* Bacterial leaf spot

FUNGI

*Alternaria panax —* Alternaria leaf spot

*Alternaria* sp. — Alternaria leaf spot

*Colletotrichum* sp. — Anthracnose

*Phytophthora nicotianae —* Phytophthora root rot *Phytophthora palmivora —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root and crown rot

*Pythium* sp. — Pythium root rot

***Fatsia* sp. (Fatsia)**

BACTERIA

*Pseudomonas syringae —* Bacterial leaf spot

FUNGI

*Colletotrichum* sp. — Anthracnose

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root and crown rot

*Pythium* sp. — Pythium root rot

***Hedera canariensis* (Algerian Ivy)**

BACTERIA

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Fusicoccum* sp. — Fusicoccum dieback *Phytophthora cinnamomi —* Phytophthora root rot *Phytophthora nicotianae —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot, Stem blight

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Hedera colchica* (Fragrant Ivy)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot

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

BACTERIA

*Xanthomonas campestris —* Bacterial leaf spot *Xanthomonas campestris* pv. *hederae —* Bacterial leaf spot

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis* sp. — Botrytis blight

*Colletotrichum trichellum —* Colletotrichum leaf spot

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot *Glomerella sp. —* Anthracnose *Guignardia bidwellii —* Leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi —* Phytophthora root rot *Phytophthora nicotianae —* Phytophthora root rot *Phytophthora palmivora —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne* sp. — Root-knot nematode

***Panax* sp. (Ginseng)**

FUNGI

*Alternaria panax —* Alternaria leaf spot *Cylindrocarpon* sp. — Disappearing root rot *Phytophthora* sp. — Phytophthora root and stem rot

***Polyscias fruticosa* (Ming Aralia)**

FUNGI

*Fusarium* sp. — Fusarium root and stem rot

***Schefflera* sp. (Umbrella Tree, Schefflera)**

FUNGI

***Hedera* sp. (Ivy)**

BACTERIA

*Alternaria* sp. — Alternaria leaf spot *Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium root rot *Gloeosporium* sp. — Anthracnose

*Xanthomonas campestris* pv. *hederae —* Bacterial leaf spot

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria alternata —* Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Colletotrichum trichellum —* Anthracnose *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf and stem spot *Guignardia bidwellii —* Leaf spot *Macrophoma* sp. — Macrophoma leaf blight *Phomopsis* sp. — Phomopsis leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora cinnamomi —* Phytophthora root rot *Phytophthora cryptogea —* Phytophthora root rot *Phytophthora nicotianae —* Phytophthora root rot *Phytophthora parasitica —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

*Glomerella* sp. — Anthracnose *Pythium splendens —* Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Tetrapanax papyrifer* (Rice Paper Plant)**

FUNGI

*Fusarium* sp. — Fusarium stem rot

*Phytophthora palmivora* — Phytophthora root rot

**ARAUCARIACEAE**

***Araucaria araucana* (Monkey Puzzle Tree)**

FUNGI

*Coniothyrium* sp. — Needle necrosis

***Araucaria heterophylla* (Norfolk Island Pine)**

FUNGI

*Alternaria* sp. — Alternaria needle necrosis *Botryosphaeria* sp. — Botryosphaeria canker *Colletotrichum* sp. — Needle browning *Dothiorella* sp. — Dothiorella canker *Phomopsis* sp. — Phomopsis dieback

**ARECACEAE**

***Butia capitata* (Pindo Palm)**

FUNGI

*Armillaria tabescens* — Armillaria root rot *Armillaria* sp. — Armillaria root rot *Colletotrichum* sp. — Colletotrichum stem decay *Fusarium* sp. — Fusarium bud rot, Fusarium basal rot

*Pestalotiopsis* sp. — Pestalotiopsis leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot

***Butia* sp. (Butia, Jelly Palm)**

FUNGI

*Pestalotiopsis* sp. — Pestalotiopsis leaf spot

***Chamaerops humilis* (European Fan Palm, Mediterranean Fan Palm)**

FUNGI

*Pestalotiopsis* sp. — Pestalotiopsis leaf spot *Phomopsis* sp. — Phomopsis leaf spot *Phytophthora* sp. — Phytophthora root rot

***Cocos plumosa* (Cocos Palm)**

FUNGI

*Pestalotiopsis* sp. — Pestalotiopsis leaf spot

#### *Cocos* sp. (Cocos Palm, Blue Coconut Palm)

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Helminthosporium* sp. — Helminthosporium leaf spot

*Melanconium* sp. — Melanconium leaf spot *Pestalotia* sp. — Pestalotia leaf blight *Pestalotiopsis* sp. — Pestalotiopsis leaf spot *Phomopsis* sp. — Phomopsis leaf spot *Pythium* sp. — Pythium root rot

***Livistona chinensis* (Chinese Fan Palm)**

FUNGI

*Pythium* sp. — Pythium root rot

***Phoenix canariensis* (Canary Island Date Palm)**

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback, canker, and twig blight

*Colletotrichum* sp. — Anthracnose *Fusarium oxysporum* f.sp. *canariensis* — Fusarium wilt

*Graphiola phoenicis* — False smut *Phomopsis* sp. — Phomopsis rachis rot *Pestalotia* sp. — Rachis rot *Serenomyces phoenicis — Rachis blight Stigmina palmivora* — Palm leaf spot

***Rhapidophyllum hystrix* (Needle Palm)**

FUNGI

*Pestalotiopsis* sp. — Pestalotiopsis leaf spot

***Rhapidophyllum* sp. (Needle Palm)**

ALGAE

*Cephaleuros virescens* — Algal leaf spot

***Sabal palmetto* (Cabbage Palmetto)**

FUNGI

*Fusarium* sp. — Fusarium bud rot

*Ganoderma zonatum* — Butt rot

*Pestalotiopsis palmarum* — Pestalotiopsis leaf and rachis spot

*Serenomyces* sp. — Rachis blight

*Thielaviopsis paradoxa* — Thielaviopsis trunk rot

*Thielaviopsis* sp. — Thielaviopsis trunk rot

***Sabal* sp. (Sabal Palm)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Phomopsis* sp. — Phomopsis rachis rot *Serenomyces* sp. — Rahcis blight

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

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Trachycarpus fortunei* (Windmill Palm)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Diplodia* sp. — Diplodia canker

*Fusarium* sp. — Fusarium bud rot, Fusarium root rot

*Ganoderma zonatum* — Ganoderma butt rot *Macrophoma* sp. — Macrophoma leaf spot *Pestalotiopsis* sp. — Pestalotiopsis leaf and petiole spot

*Phytophthora palmivora* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot, Bud rot

***Washingtonia* sp. (Washington Palm)**

FUNGI

*Stigmina palmivora* — Stigmina leaf spot

**ARISTOLOCHIACEAE**

***Asarum* sp. (Wild Ginger)**

FUNGI

*Fusarium* sp. — Fusarium root rot

**ASCLEPIADACEAE**

***Asclepias incarnata* (Swamp Milkweed)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Asclepias* sp. (Milkweed)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Uromyces asclepiadis —* Rust

***Hoya* sp. (Wax Vine)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Gloeosporium* sp. — Gloeosporium leaf spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

**ASPARAGACEAE**

***Agave* sp. (Century Plant)**

FUNGI

*Botrytis* sp. — Gray mold *Fusarium* sp. — Fusarium leaf spot *Pythium* sp. — Pythium root rot

***Aloe barbadensis* (Aloe Vera)**

FUNGI

*Fusarium* sp. — Fusarium root rot

*Pythium* sp. — Pythium root rot

***Aloe* sp. (Aloe)**

BACTERIA

***Aspidistra elatior* (Cast Iron plant)**

FUNGI

*Burkholderia cepacia* — Soft rot

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Rhizoctonia solani* — Rhizoctonia root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Asparagus officinalis* (Asparagus)**

FUNGI

*Fusarium oxysporum* — Fusarium crown rot

***Asparagus setaceus* (Asparagus Fern)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia web blight

***Asparagus* sp. (Asparagus)**

FUNGI

*Fusarium* sp. — Fusarium leaf spot

*Gloeosporium* sp. — Anthracnose

***Chlorophytum* sp. (Spider Plant)**

FUNGI

*Botrytis cinerea* — Botrytis blight

***Liriope muscari* (Lilyturf)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium crown and root rot

*Rhizoctonia* sp. — Rhizoctonia crown rot

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

BACTERIA

*Pectobacterium carotovorum carotovorum* — Bacterial soft rot

*Alternaria* sp. — Alternaria leaf spot

*Botrytis* sp. — Gray mold

*Cercospora asparagi* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot, Blight *Colletotrichum* sp. — Anthracnose

*Fusarium moniliforme* — Fusarium crown rot *Fusarium oxysporum* — Fusarium crown rot *Fusarium* sp. — Fusarium crown, root and stem rot

*Macrophomina phaseoli* — Charcoal rot *Phomopsis* sp. — Phomopsis canker *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Stemphylium* sp. — Purple spot

NEMATODES

*Helicotylenchus* sp. — Spiral nematode *Meloidogyne* sp. — Root-knot nematode *Scutellonema* sp. — Spiral nematode

FUNGI

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Fusarium* sp. — Fusarium basal leaf, crown, root and stem rot

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

***Ophiopogon japonicus* (Mondo Grass)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium basal rot, Root rot

***Ophiopogon* sp. (Mondo Grass)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Damping off, Fusarium crown rot

*Mycoleptodiscus indicus* — Leaf spot *Phytophthora* sp. — Phytophthora crown rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Polygonatum* sp. (Solomon's Seal)**

FUNGI

*Phoma/Phyllosticta* sp. — Phyllosticta leaf spot

***Rhodea japonica* (Nippon Lily)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Sansevieria trifasciata* (Snake Plant)**

BACTERIA

*Erwinia* sp. — Bacterial soft rot

***Sansevieria* sp. (Devil's Tongue)**

FUNGI

*Fusarium* sp. — Fusarium root rot

*Pythium* sp. — Pythium root rot

***Tricyrtis hirta* (Toad Lily)**

FUNGI

*Pythium* sp. — Pythium root rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Tricyrtis* sp. (Toad Lily)**

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Yucca aloifolia* (Dagger Plant)**

FUNGI

*Coniothyrium* sp. — Coniothyrium leaf spot

***Yucca recurvifolia* (Weeping Yucca)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Coniothyrium* sp. — Coniothyrium leaf spot

***Yucca* sp. (Yucca)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cladosporium* sp. — Cladosporium leaf spot *Coniothyrium* sp. — Coniothyrium leaf spot *Glomerella* sp. — Anthracnose

*Kellermania* sp. — Leaf spot

*Leptosphaeria* sp. — Leptosphaeria leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot

**ASPLENIACEAE**

***Asplenium* sp. (Bird's-nest Fern)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Pythium* sp. — Pythium root rot

***Phyllitis scolopendrium* (Hart's Tongue Fern)**

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

**ASTERACEAE**

***Achillea* sp. (Yarrow)**

BACTERIA

*Pseudomonas* sp. *—* Bacterial leaf blight

FUNGI

*Botrytis* sp. — Gray mold

*Pythium* sp. — Pythium petiole rot

*Rhizoctonia* sp. — Rhizoctonia stem rot

***Ageratum* sp. (Floss Flower)**

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

*Sclerotium rolfsii* — Southern blight

***Anacyclus* sp. (Anacyclus)**

FUNGI

*Botrytis* sp. — Gray mold

***Arctotis* sp. (African Daisy)**

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Artemisia schmidtiana* (Artemisia)**

FUNGI

*Botrytis cinerea* — Botrytis melting out

*Phoma* sp. — Phoma blight

***Artemisia* sp. (Wormwood)**

FUNGI

*Botrytis* sp. — Botrytis blight

*Rhizoctonia* sp. — Aerial blight

***Aster novi-belgii* (Aster)**

FUNGI

*Fusarium* sp. — Fusarium stem rot

***Aster* sp. (Aster)**

FUNGI

*Alternaria tenuissima* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Colletotrichum* sp. — Anthracnose, Stem rot *Coleosporium asterum* — Aster rust, Pine needle rust

*Fusarium* sp. — Stem rot

*Fusarium oxysporum* — Fusarium wilt, Root rot

*Phoma* sp. — Phoma blight *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Puccinia grindeliae* — Goldenrod rust *Puccinia* sp. — Rust

*Pythium* sp. — Pythium root rot

*Ramularia* sp. — Ramularia leaf spot *Rhizoctonia* sp. — Rhizoctonia crown, root and stem rot, Aerial blight, Web blight

*Sclerotium rolfsii —* Southern blight

*Septoria* sp. — Septoria leaf spot

***Calendula* sp. (Calendula)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Rhizoctonia* sp. — Rhizoctonia root rot *Stemphylium* sp. — Stemphylium leaf spot

***Centaurea cyanus* (Bachelor's Button)**

FUNGI

*Puccinia* sp. — Rust

***Centaurea montana* (Mountain Bluet)**

FUNGI

*Botrytis cinerea* — Botrytis blight *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia crown rot

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Centaurea* sp. (Bachelor's Button)**

FUNGI

*Phytophthora* sp. — Phytophthora crown and root rot

***Chrysanthemum leucanthemum* (Marguerite Daisy)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Chrysanthemum nipponicum* (Nippon Daisy)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Chrysanthemum* x *superbum* (Shasta Daisy)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis* sp. — Botrytis blight *Fusarium oxysporum* — Fusarium wilt *Phoma* sp. — Phoma blight

*Pythium* sp. — Black leg, Pythium stem rot

*Sclerotium rolfsii —* Southern blight

***Chrysanthemum* sp. (Daisy, Mum)**

BACTERIA

*Erwinia carotovora —* Bacterial blight *Erwinia chrysanthemi* — Bacterial blight *Erwinia* sp. — Bacterial blight

*Pseudomonas cichorii* — Bacterial leaf spot *Pseudomonas syringae* — Bacterial leaf spot *Pseudomonas viridiflava* — Bacterial leaf spot *Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Ascochyta* sp. — Ray blight *Botrytis cinerea —* Gray mold *Colletotrichum* sp. — Anthracnose

*Fusarium oxysporum* — Fusarium wilt

*Fusarium solani —* Fusarium wilt

*Fusarium* sp. — Fusarium crown root and stem rot, Fusarium wilt

*Oidium* sp. — Powdery mildew

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cryptogea* — Phytophthora root rot *Phytophthora nicotianae* — Phytophthora crown and root rot

*Phytophthora* sp. — Phytophthora crown, root and stem rot, Aerial blight

*Puccinia tanaceti* — Brown rust

*Pythium* sp. — Pythium root and stem rot *Rhizoctonia solani* — Rhizoctonia web blight *Rhizoctonia* sp. — Rhizoctonia root and stem rot *Sclerotium* sp. — Southern blight

*Septoria chrysanthemi* — Septoria leaf spot *Stemphylium* sp. — Gray leaf spot, Stemphylium leaf spot

*Verticillium albo-atrum* — Verticillium wilt

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

***Chrysogonum* sp. (Green and Gold)**

FUNGI

*Pythium* sp. — Pythium root rot

*Sclerotium rolfsii* — Southern blight

***Cineraria* sp. (Cineraria)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

***Coreopsis auriculata* (Tick Seed)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

***Coreopsis grandiflora* (Tick Seed)**

FUNGI

*Plasmopara* sp. — Downy mildew

***Coreopsis verticillata* (Tick Seed)**

BACTERIA

*Pectobacterium chrysanthemi* — Bacterial stem rot

*Pseudomonas cichorii* — Bacterial leaf spot

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot *Plasmopara* sp*.* — Downy mildew *Rhizoctonia* sp. — Rhizoctonia foliar blight *Sclerotium* sp. — Southern blight

***Coreopsis* sp. (Tick Seed)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot and blight

*Pseudomonas syringae* pv. *maculicola* — Bacterial leaf spot

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis cinerea* — Botrytis blight, Botrytis crown rot

*Botrytis* sp. — Botrytis blight

*Cercospora* sp. — Cercospora leaf spot *Myrothecium roridum* — Myrothecium stem and root rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium crown and root rot *Rhizoctonia* sp. — Rhizoctonia crown, root and stem rot, Foliar blight, Web blight

*Sclerotinia sclerotiorum* — White mold

*Sclerotium* sp. — Southern blight

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

***Cosmos atrosanguineus* (Cosmos)**

FUNGI

*Botrytis* sp. — Botrytis blight

***Cosmos* sp. (Cosmos)**

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Phoma* sp. — Phoma stem rot

*Pythium splendens* — Pythium root rot

***Cynara scolymus* (Artichoke)**

FUNGI

*Pythium* sp. — Pythium root rot *Sclerotium rolfsii* — Southern blight *Sclerotium* sp. — Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Dahlia* sp. (Dahlia)**

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Botrytis* sp. — Gray mold

*Pythium* sp. — Pythium root rot

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Dimorphotheca sinuata* (Cape Marigold)**

FUNGI

*Botrytis* sp. — Botrytis blight

***Doronicum orientale* (Doronicum)**

FUNGI

*Phytophthora* sp. — Phytophthora root and crown rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Doronicum* sp. (Doronicum, Leopard’s Bane)**

BACTERIA

*Pseudomonas viridiflava* — Bacterial blight

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Phytophthora* sp. — Phytophthora crown and root rot

***Echinacea laevigata* (Smooth Purple Coneflower)**

FUNGI

*Oidium* sp. — Powdery mildew

***Echinacea purpurea* (Purple Coneflower)**

BACTERIA

*Pectobacterium chrysanthemi* — Bacterial blight

***Echinacea* sp. (Coneflower)**

BACTERIA

*Pseudomonas* sp. — Bacterial stem rot

FUNGI

*Botrytis cinerea* — Botrytis blight *Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium root rot *Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii* — Southern blight

PHYTOPLASMAS

*Candidatus* Phytoplasma asteris — Aster yellows

***Eupatorium purpureum* (Joe-Pye Weed)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

***Eupatorium* sp. (Joe-Pye Weed)**

FUNGI

*Sclerotium rolfsii* — Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Euryops chrysanthemoides* (African Bush Daisy)**

FUNGI

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Pythium* sp. — Pythium root rot *Rhizoctonia solani* — Rhizoctonia blight *Rhizoctonia* sp. — Rhizoctonia leaf blight

FUNGI

*Colletotrichum* sp. — Colletotrichum stem decay

*Fusarium* sp. — Fusarium canker

*Phytophthora* sp. — Phytophthora root rot

***Euryops pectinatus* (Gray-Leaved Euryops)**

FUNGI

*Fusarium* sp. — Fusarium stem rot

***Euryops* sp. (Euryops)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Farfugium japonicum* (Leopard Plant)**

FUNGI

*Alternaria* sp. — Altenaria leaf spot

***Gaillardia* x *grandiflora* (Blanket Flower)**

FUNGI

*Entyloma* sp. — Gaillardia white smut

*Pythium* sp. — Pythium root rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Gaillardia* sp. (Blanket Flower)**

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Entyloma polysporum* — Gaillardia white smut

*Entyloma* sp. — Gaillardia white smut

*Pythium* sp. — Pythium root rot

***Gerbera* sp. (Gerbera Daisy)**

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis* sp. — Botrytis blight

*Colletotrichum* sp. — Colletotrichum leaf spot *Fusarium* sp. — Fusarium crown and root rot *Oidium* sp. — Powdery mildew *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia crown and root rot

*Sclerotinia sclerotiorum* — Sclerotinia crown rot

***Gynura aurantiaca* (Purple Passion Vine)**

FUNGI

*Botrytis* sp. — Botrytis blight

***Helianthus annuus* (Sunflower)**

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Alternaria helianthi* — Alternaria leaf spot, blight, and stem spot

*Fusarium* sp. — Fusarium stem and root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Helianthus tuberosus* (Jerusalem Artichoke)**

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotinia sclerotiorum* — Sclerotinia stem rot *Sclerotium rolfsii* — Southern blight *Sclerotium* sp. — Southern blight

***Helianthus* sp. (Sunflower)**

FUNGI

*Alternaria helianthi* — Alternaria flower, leaf and stem spot

*Alternaria* sp. — Alternaria leaf and stem spot *Alternaria zinniae* — Alternaria leaf spot and dieback

*Fusarium* sp. — Fusarium root and stem rot *Macrophomina phaseoli* — Charcoal stem rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Web blight

***Heliopsis helianthoides* (Oxeye)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Lactuca sativa* (Lettuce)**

FUNGI

***Marshallia grandiflora* (Barbaras Buttons, Marshallia)**

*Cercospora* sp. — Cercospora leaf spot

*Pythium* sp. — Pythium root and crown rot

***Lactuca* sp. (Lettuce)**

FUNGI

*Botrytis* sp. — Gray mold

***Leucanthemum* sp. (Leucanthemum, Ryan’s Daisy)**

FUNGI

*Pythium* sp. — Pythium root rot

***Melampodium* sp. (Melampodium)**

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

BACTERIA

*Agrobacterium* sp. — Crown gall

*Erwinia carotovora —* Bacterial soft rot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia stem, crown and root rot

***Liatris spicata* (Blazing Star)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Liatris* sp. (Blazing Star)**

FUNGI

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

VIRUSES

*Tospovirus — Impatiens necrotic spot virus*

***Rudbeckia hirta* (Black-eyed Susan)**

FUNGI

*Sclerotium rolfsii —* Southern blight

***Rudbeckia* sp. (Black-eyed Susan, Rudbeckia)**

BACTERIA

*Pectobacterium* (*Erwinia*) *chrysanthemi —*

Bacterial soft rot

*Botrytis* sp. — Botrytis blight

*Sclerotinia sclerotiorum* — Sclerotinia stem rot

*Sclerotium rolfsii* — Southern blight

***Ligularia* sp. (Ligularia)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Colletotrichum* sp. — Anthracnose

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis* sp. — Botrytis blight *Colletotrichum* sp. — Stem canker *Macrophomina phaseoli* — Charcoal rot *Phoma* sp. — Phoma leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Plasmopara halstedii* — Downy mildew *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot *Sclerotinia* sp. — Sclerotinia stem rot *Sclerotium rolfsii* — Southern blight

*Septoria* sp.— Septoria leaf spot

***Santolina virens* (Santolina)**

FUNGI

*Alternaria* sp. — Alternaria foliar blight

***Santolina* sp. (Santolina)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

***Senecio cineraria* (Dusty Miller)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Pythium* sp. — Pythium root rot

***Senecio* x *hybridus* (Cineraria)**

FUNGI

*Pythium* sp. — Pythium root rot

***Solidago rugosa* (Rough Goldenrod)**

FUNGI

*Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Puccinia* sp. — Rust

***Solidago* sp. (Goldenrod)**

FUNGI

*Coleosporium* sp. — Rust

*Sclerotium rolfsii* — Southern stem blight

***Stokesia laevis* (Stokes’ Aster)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Sclerotinia sclerotiorum* — Sclerotinia dieback and stem rot

***Stokesia* sp. (Stokes’ Aster)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phomopsis* sp. — Phomopsis leaf spot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotinia sclerotiorum* — White mold

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

***Tagetes erecta* (African Marigold)**

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Tagetes patula* (French Marigold)**

BACTERIA

*Pseudomonas solanacearum* — Bacterial wilt

FUNGI

*Pythium* sp. — Pythium root rot

***Tagetes* sp. (Marigold)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Alternaria tagetica* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf and petal blight *Botrytis cinerea* — Botrytis blight

*Botrytis* sp. — Botrytis blight *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium root and stem rot, Fusarium wilt

*Phytophthora cryptogea* — Phytophthora wilt and stem rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root and stem rot *Rhizoctonia* sp. — Rhizoctonia root and stem rot, Web blight

*Septoria* sp. — Septoria leaf spot

***Tithonia* sp. (Mexican Sunflower)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Pythium* sp. — Pythium root rot

***Xanthium* sp. (Cocklebur)**

FUNGI

*Puccinia xanthii* — Rust

*Puccinia* sp. — Rust

***Zinnia angustifolia* (Narrow-leaf Zinnia)**

FUNGI

*Botrytis* sp. — Botrytis blight

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Zinnia elegans* (Common Zinnia)**

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt

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

BACTERIA

*Agrobacterium tumefaciens* — Crown gall *Ralstonia solanacearum* — Bacterial wilt *Xanthomonas campestris* — Bacterial leaf spot *Xanthomonas nigromaculans* — Bacterial leaf spot

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria zinniae* — Alternaria blight *Alternaria* sp. — Alternaria leaf spot *Botrytis cinerea* — Gray mold

*Botrytis* sp. — Botrytis blight, Gray mold *Cercospora zinniae* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Fusarium* sp. — Fusarium crown and root rot *Gloeosporium* sp. — Anthracnose

*Oidium* sp. — Powdery mildew

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root and crown rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

**BALSAMINACEAE**

***Impatiens* x *hawkeri* (New Guinea Impatiens)**

FUNGI

*Botrytis cinerea* — Gray mold

*Botrytis* sp. — Gray mold

*Colletotrichum* sp. — Colletotrichum stem decay *Myrothecium roridum* — Myrothecium leaf spot *Phytophthora nicotianae* var. *parasitica* — Phytophthora stem rot

*Pythium* sp. — Pythium crown, root and stem rot

*Rhizoctonia* sp. — Rhizoctonia stem rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

***Impatiens walleriana* (Impatiens)**

FUNGI

*Plasmopara obducens* — Downy mildew *Pythium* sp. — Pythium root and stem rot *Rhizoctonia solani* — Rhizoctonia root rot *Rhizoctonia* sp. — Rhizoctonia root and stem rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Impatiens* sp. (Impatiens)**

BACTERIA

*Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis cinerea* — Botrytis blight, gray mold *Botrytis* sp. — Botrytis blight, Botrytis leaf spot *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium root rot

*Phytophthora nicotinae* — Phytophthora root and stem rot

*Phytophthora* sp. — Phytophthora root and stem rot

*Phyllosticta* sp. — Phyllosticta leaf spot

*Pythium splendens* — Pythium root rot

*Pythium* sp. — Pythium crown, root and stem rot *Rhizoctonia solani —* Rhizoctonia root rot *Rhizoctonia* sp. — Rhizoctonia crown, root and stem rot, Stem canker

*Sclerotium rolfsii* — Southern stem blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Alfamovirus* — *Alfalfa mosaic virus Cucumovirus* — *Cucumber mosaic virus Potyvirus* — *Turnip mosaic virus Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

**BEGONIACEAE**

***Begonia* x *semperflorens-cultorum* (Begonia)**

FUNGI

*Botrytis* sp. — Gray mold

*Cladosporium* sp. — Cladosporium leaf spot

*Colletotrichum* sp. — Anthracnose *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

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

BACTERIA

*Xanthomonas campestris* — Bacterial leaf spot *Xanthomonas campestris* pv. *begoniae* — Bacterial leaf spot

FUNGI

*Botrytis* sp. — Gray mold *Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium stem rot

*Myrothecium* sp. — Myrothecium leaf spot *Oidium* sp. — Powdery mildew *Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root and stem rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot, Aerial blight

NEMATODES

*Aphelenchoides* sp. — Foliar nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Potyvirus* — *Turnip mosaic virus Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

**BERBERIDACEAE**

***Berberis* x *mentorensis* (Mentor’s Barberry)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Berberis thunbergii* (Barberry)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Berberis* sp. (Barberry)**

FUNGI

*Gloeosporium* sp. — Anthracnose *Phytophthora* sp. — Phytophthora root rot *Sclerotium rolfsii* — Southern blight

***Mahonia bealei* (Leatherleaf Mahonia)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Mahonia fortunei* (Chinese Mahonia)**

FUNGI

*Oidium* sp. — Powdery mildew

***Mahonia* sp. (Mahonia)**

FUNGI

*Phomopsis* sp. — Phomopsis stem gall

***Nandina domestica* (Nandina, Dwarf Nandina)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium stem rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

VIRUSES

*Capillovirus* — *Nandina stem pitting virus Cucumovirus* — *Cucumber mosaic virus Potexvirus* — *Plantago asiatica mosaic virus*

***Nandina* sp. (Nandina)**

FUNGI

*Cercospora nandinae* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Phyllosticta* sp. — Phyllosticta leaf sot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

VIRUSES

*Cucumovirus* — *Cucumber mosaic virus*

***Podophyllum peltatum* (Mayapple)**

FUNGI

*Puccinia podophylli* — Rust

**BETULACEAE**

***Betula nigra* (River Birch)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Colletotrichum* sp. — Colletotrichum leaf spot *Coryneum betulinum* — Twig dieback *Cryptocline betularum* — Cryptocline leaf spot *Cylindrosporium* sp. — Cylindrosporium leaf spot *Gloeosporium* sp. — Gloeosporium leaf spot *Phoma* sp. — Phoma leaf spot

*Phomopsis* sp. — Phomopsis leaf spot *Phyllosticta betulina* — Phyllosticta leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root rot

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

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis* sp. — Gray mold

*Cryptocline betularum* — Cryptocline leaf spot *Cylindrosporium betulae* — Cylindrosporium leaf spot

*Cylindrosporium* sp. — Cylindrosporium leaf spot *Dothiorella* sp. — Dothiorella stem canker *Gloeosporium* sp. — Gloeosporium leaf spot *Phoma* sp. — Phoma leaf spot

*Phyllosticta betulina* — Phyllosticta leaf spot

*Pythium* sp. — Pythium root rot

**BIGNONIACEAE**

***Bignonia* sp. (Bignonia)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

***Campsis grandiflora* (Chinese Trumpet Flower)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Catalpa* sp. (Catawba)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

*Oidium* sp. — Powdery mildew

*Phyllosticta catalpae* — Phyllosticta leaf spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

**BORAGINACEAE**

***Anchusa* sp. (Bugloss)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Borago* sp. (Borage)**

***Lithodora* sp. (Lithodora)**

BACTERIA

*Acidovorax* sp. — Bacterial leaf spot

***Myosotis scorpioides* (Forget-Me-Not)**

FUNGI

*Sclerotinia sclerotiorum* — Sclerotinia crown rot

***Myosotis* sp. (Forget-Me-Not)**

FUNGI

*Botrytis* sp. — Gray mold

*Phytophthora cinnamomi* — Phytophthora root rot

*Pythium* sp. — Pythium root rot

***Pulmonaria* sp. (Lungwort)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Brunnera* sp. (Bugloss)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

***Lithodora diffusa* (Grace Ward Lithodora)**

FUNGI

*Botrytis* sp. — Botrytis blight

*Phoma* sp. — Phoma blight

*Phytophthora* sp. — Phytophthora root, crown, and stem rot

*Rhizoctonia* sp. — Rhizoctonia root rot

*Thielaviopsis basicola* — Black root rot

*Meloidogyne* sp. — Root-knot nematode

*Ditylenchus dipsaci* — Stem and bulb nematode

**BRASSICACEAE**

***Alyssum* sp. (Madwort)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

FUNGI

*Rhizoctonia* sp. — Web blight

***Arabis* sp. (Rockcress)**

FUNGI

*Phytophthora* sp. — Phytophthora crown and root rot

***Arugula* sp. (Arugula)**

FUNGI

***Brassica juncea* var. *foliosa* (Broadleaf Mustard)**

*Alternaria* sp. — Alternaria leaf spot

*Pythium* sp. — Black leg, Pythium stem rot

***Aubrieta* sp. (Rock Cress)**

FUNGI

*Botrytis* sp. — Botrytis crown rot

***Brassica chinensis* (Bok Choy)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Brassica juncea* (Mustard)**

BACTERIA

*Xanthomonas campestris* —Bacterial black rot

FUNGI

*Albugo* sp. — White rust

*Alternaria* sp. — Alternaria leaf spot and stem rot *Cercospora* sp. — Cercospora leaf spot *Cercosporella* sp. — White leaf spot *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium root and stem rot, Wilt *Peronospora parasitica* — Downy mildew *Pythium* sp. — Pythium root rot, Damping off *Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Pratylenchus* sp. — Lesion nematode

VIRUSES

*Potyvirus* — *Turnip mosaic virus*

***Brassica juncea* var. *crispifolia* (Southern Curled Mustard)**

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Cercosporella* sp. — White leaf spot

*Peronospora* sp. — Downy mildew

***Brassica napus* (Canola)**

FUNGI

*Botrytis* sp. — Gray mold

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia blight *Sclerotinia* sp. — Sclerotinia stem rot

NEMATODES

*Paratrichodorus* sp. — Stubby root nematode

***Brassica napus* (Rape)**

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Cercospora* sp. — Cercospora leaf spot

VIRUSES

*Potyvirus* — *Turnip mosaic virus*

***Brassica napus* var. *napobrassica* — Rutabaga, Swedish Turnip)**

NEMATODES

*Meloidogyne sp. — Root-knot nematode*

***Brassica napus* var. *solidiflora* (Rutabaga)**

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria brassicola* — Alternaria leaf spot

*Cercospora brassicola* — Cercospora leaf spot

*Peronospora* sp. — Downy mildew

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Brassica oleracea* var. *acephala* (Collards)**

BACTERIA

*Erwinia carotovora* — Bacterial soft rot *Erwinia* sp. — Bacterial soft rot *Xanthomonas campestris* — Black rot *Xanthomonas* sp. — Black rot

FUNGI

*Alternaria brassicola* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Cercospora* sp. — Cercospora leaf spot *Cercosporella* sp. — White leaf spot *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Erysiphe* sp. — Powdery mildew

*Fusarium oxysporum* — Fusarium wilt, Fusarium yellows

*Fusarium* sp. — Fusarium root and stem rot, Wilt *Peronospora parasitica* — Downy mildew *Peronospora* sp. — Downy mildew

*Phoma lingam* — Phoma leaf spot *Phoma* sp. — Phoma leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Plasmodiophora brassicae* — clubroot

*Pythium* sp. — Pythium root and stem rot, Damping off

*Rhizoctonia solani* — Rhizoctonia root rot *Rhizoctonia* sp. — Rhizoctonia root and stem rot, Damping off, Wire stem disease

*Sclerotinia sclerotiorum* — Sclerotinia stem rot, Watery soft rot

*Stemphylium* sp. — Stemphylium leaf spot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus columbus* — Columbia lance nematode

*Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Scutellonema* sp. — Spiral nematode *Tylenchorhynchus* sp. — Stunt nematode

VIRUSES

*Potyvirus* — *Turnip mosaic virus*

***Brassica oleracea* var. *acephala* (Kale)**

BACTERIA

*Erwinia carotovora* — Soft rot

*Pseudomonas marginalis* — Bacterial leaf spot

*Xanthomonas campestris* — Black rot

FUNGI

*Alternaria brassicicola* — Black leaf spot *Ascochyta* sp. — Ascochyta leaf spot *Botrytis* sp. — Botrytis blight

*Fusarium* sp. — Fusarium yellows

*Sclerotinia sclerotiorum* — Sclerotinia stem rot

***Brassica oleracea* var. *botrytis* (Broccoli)**

FUNGI

*Alternaria brassicola* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Cercospora* sp. — Cercospora leaf spot *Fusarium* sp. — Fusarium stem rot *Peronospora parasitica* — Downy mildew *Pythium* sp. — Pythium root rot *Rhizoctonia solani* — Wire stem disease *Rhizoctonia* sp. — Wire stem disease *Scerotinia sclerotiorum* —White rot *Sclerotinia* sp. — Watery soft rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Brassica oleracea* var. *botrytis* (Cauliflower)**

BACTERIA

*Erwinia* sp. — Bacterial soft rot

*Xanthomonas campestris* — Black rot

FUNGI

*Peronospora parasitica* —Downy mildew

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

*Trichodorus* sp. — Stubby root nematode

***Brassica oleracea* var. *capitata* (Cabbage)**

BACTERIA

*Erwinia carotovora* — Bacterial soft rot *Erwinia* sp. — Bacterial soft rot *Pseudomonas* sp. — Bacterial leaf spot *Xanthomonas campestris* — Black rot

FUNGI

*Alternaria brassicola* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Botrytis cinerea* — Gray mold

*Cercospora* sp. — Cercospora leaf spot *Fusarium oxysporum* — Fusarium yellows *Fusarium* sp. — Fusarium wilt *Peronospora parasitica* — Downy mildew *Peronospora* sp. — Downy mildew

*Pythium* sp. — Pythium root rot, Damping off *Rhizoctonia solani* — Wire stem disease *Rhizoctonia* sp. — Rhizoctonia root rot, Wire stem disease, Stem canker

*Sclerotinia sclerotiorum* — White rot

NEMATODES

*Scutellonema* sp. — Spiral nematode

***Brassica oleracea* var. *gemmifera* (Brussels Sprouts)**

FUNGI

*Alternaria* sp. —Alternaria leaf spot

*Pythium* sp. — Pythium root rot

***Brassica pekinensis* (Napa, Chinese Cabbage)**

BACTERIA

*Xanthomonas campestris* — Black rot

FUNGI

*Pythium* sp. — Black leg, Pythium stem rot

***Brassica rapa* (Pak Choy)**

FUNGI

*Cercosporella* sp. — White leaf spot

***Brassica rapa* var. *lorifolia* (Turnip)**

BACTERIA

*Erwinia* sp. — Bacterial soft rot *Pseudomonas* sp. — Bacterial leaf spot *Xanthomonas campestris* — Black rot

FUNGI

*Alternaria brassicola* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Cercospora brassicae* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Cercosporella brassicae* — White leaf spot *Cercosporella* sp. — White leaf spot *Colletotrichum higginsianum* — Anthracnose *Colletotrichum* sp. — Anthracnose *Curvularia* sp. — Basal stem rot

*Fusarium oxysporum* — Fusarium yellows *Helminthosporium* sp. — Helminthosporium leaf spot

*Oidium* sp. — Powdery mildew

*Peronospora parasitica* — Downy mildew *Pseudocercosporella capsellae* — White leaf spot *Pythium irregulare* — Pythium root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Scutellonema* sp. — Spiral nematode

VIRUSES

*Cauliomvirus* — *Cauliflower mosaic virus Potyvirus* — *Turnip mosaic virus*

***Brassica* sp. (Ornamental Cabbage)**

BACTERIA

*Xanthomonas campestris* — Black rot

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Capsella bursa-pastoris* (Shepherd's Purse)**

BACTERIA

*Xanthomonas campestris* — Black rot

***Cardamine* sp. (Cardamine)**

BACTERIA

*Xanthomonas campestris* — Black rot

***Coronopus didymus* (Swinecress)**

BACTERIA

*Xanthomonas campestris* — Black rot

***Erysimum repandum* (Wallflower)**

FUNGI

*Phytophthora* sp. — Phytophthora crown and root rot

***Erysimum linfolium* (Wallflower)**

BACTERIA

*Xanthomonas campestris* — Bacterial blight

***Erysimum* sp. (Wallflower)**

BACTERIA

*Xanthomonas campestris* — Black rot *Xanthomonas campestris* pv. *vesicatoria* — Bacterial leaf spot

*Xanthomonas* sp. — Black rot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis cinerea* — Botrytis blight

***Iberis sempervirens* (Candytuft)**

BACTERIA

*Pseudomonas aeruginosa* — Bacterial blight *Pseudomonas cichorii* — Leaf and stem necrosis *Pseudomonas viridiflava* — Bacterial stem rot *Xanthomonas campestris* pv. *raphani* — Radish bacterial black rot

FUNGI

*Fusarium* sp. — Fusarium stem rot

*Phytophthora cryptogea* — Phytophthora root rot

*Pythium* sp. — Pythium root rot

***Iberis* sp. (Candytuft)**

BACTERIA

*Pseudomonas viridiflava* — Bacterial stem rot

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium stem and root rot, Fusarium wilt

*Phytophthora* sp. — Phytophthora crown rot *Pythium* sp. — Pythium root and crown rot *Rhizoctonia* sp. — Rhizoctonia root and stem rot, Damping off

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Lepidium* sp. (Peppergrass)**

BACTERIA

*Xanthomonas campestris* — Bacterial spot

***Lobularia* sp. (Alyssum)**

FUNGI

*Phoma/Ascochyta* sp. — Phoma crown rot

***Matthiola* sp. (Stock)**

FUNGI

*Pythium* sp. — Pythium root rot

**BUXACEAE**

***Buxus harlandii* (Harland’s Boxwood)**

FUNGI

*Fusarium* sp. — Fusarium root and crown rot

***Buxus microphylla* (Japanese Boxwood, Korean Boxwood)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

*Colletotrichum* sp. — Crown rot

*Colletotrichum theobromicola* — Colletotrichum dieback

*Fusarium* sp. — Fusarium root rot *Macrophoma* sp. — Macrophoma twig dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotinae* — Phytophthora root rot *Phytophthora parasitica* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Volutella buxi* — Volutella blight

*Volutella* sp. — Volutella dieback

NEMATODES

*Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode

***Buxus sempervirens* (American Boxwood, Dwarf Boxwood, English Boxwood)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium root rot, Dieback *Gloeosporium* sp. — Gloeosporium leaf necrosis *Macrophoma* sp. — Macrophoma leaf spot, Twig dieback, Twig blight, Leaf blight, Boxwood decline

*Nectria* sp. — Nectria canker

*Paecilomyces buxi* — Boxwood decline *Paecilomyces* sp. — Boxwood decline *Phomopsis* sp. — Phomopsis dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root and stem rot

*Phytophthora parasitica* — Phytophthora root rot *Phytophthora* sp. — Phytophthora crown and root rot

*Pseudonectria buxi* — Canker, Volutella blight

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Thielaviopsis basicola* — Black root rot *Volutella buxi* — Volutella blight *Volutella* sp. — Volutella blight

NEMATODES

*Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus columbus* — Columbia lance nematode

*Hoplolaimus* sp. — Lance nematode *Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode *Scutellonema* sp. — Spiral nematode

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

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback *Botrytis* sp. — Botrytis blight *Cephalosporium* sp. — Dieback *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium crown canker, Root rot *Fusicoccum* sp. — Fusicoccum leaf spot, Blight *Macrophoma candollei* —Macrophoma leaf spot *Macrophoma* sp. — Macrophoma leaf blight, Macrophoma dieback

*Nectria cinnabarina* — Nectria canker *Oxysporus* sp. — White root rot *Paecilomyces* sp. — Boxwood decline *Phoma* sp. — Phoma dieback

*Phomopsis* sp. — Phomopsis canker, Dieback *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root and stem rot

*Phytophthora parasitica* — Phytophthora root rot *Phytophthora* sp. — Phytophthora crown rot, root rot, and branch blight

*Pseudonectria rousseliana* — Pseudonectria canker

*Pseudonectria* sp. *—* Pseudonectria canker

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Damping off

*Thielaviopsis basicola* — Black root rot *Verticillium tenerum* — Verticillium wilt *Volutella buxi* — Volutella leaf and stem blight, Dieback

*Volutella* sp. — Volutella blight, Dieback

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus columbus* — Columbia lance nematode

*Hoplolaimus galeatus* — Lance nematode *Hoplolaimus* sp. — Lance nematode *Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode

***Pachysandra terminalis* (Japanese Spurge)**

FUNGI

*Volutella pachysandrae* — Volutella blight

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

FUNGI

*Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium stem rot *Sclerotium rolfsii* — Southern blight

*Volutella pachysandrae* — Volutella leaf and stem blight

*Volutella* sp. — Volutella leaf and stem blight

**CACTACEAE**

***Echinopsis multiplex* (Easter Lily Cactus)**

FUNGI

*Gloeosporium* sp. — Anthracnose

***Echinopsis* sp. (Cactus)**

FUNGI

*Alternaria* sp. — Alternaria scab

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

BACTERIA

*Erwinia* sp. — Bacterial soft rot

***Schlumbergera bridgesii* (Christmas Cactus)**

BACTERIA

*Erwinia* sp. — Bacterial soft rot

FUNGI

*Fusarium* sp. — Fusarium basal rot, Stem rot

***Schlumbergera truncata* (Thanksgiving Cactus)**

FUNGI

*Gloeosporium* sp. — Anthracnose

*Phomopsis* sp. — Phomopsis leaf spot

**CALYCANTHACEAE**

***Calycanthus* sp. (Sweet Shrub)**

FUNGI

***Cereus* sp. (Cactus)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Gloeosporium* sp. — Anthracnose

**CAMPANULACEAE**

***Adenophora* sp. (Ladybells)**

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Campanula medium* (Canterbury Bells)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

***Laurentia fluviatilis* (Blue Star Creeper)**

FUNGI

*Pythium* sp. — Pythium root and crown rot

VIRUSES

*Tospovirus — Impatiens necrotic spot virus*

***Lobelia cardinalis* (Cardinal Flower)**

FUNGI

*Botrytis cinerea* — Gray mold *Colletotrichum* sp. — Anthracnose *Pythium* sp. — Pythium root rot

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Lobelia* sp. (Lobelia)**

FUNGI

*Botrytis* sp. — Botrytis blight

*Sclerotinia sclerotiorum* — White mold

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

***Platycodon grandiflorus* (Balloon Flower)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Phoma* sp. — Phoma blight and dieback *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia crown rot

***Platycodon* sp. (Balloon Flower)**

FUNGI

*Alternaria* sp. — Alternaria blight

*Pythium* sp. — Pythium root rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

**CANNACEAE**

***Canna generalis* (Canna)**

BACTERIA

*Acidovorax avenae* — Bacterial leaf spot

***Canna* sp. (Canna Lily)**

BACTERIA

*Acidovorax avenae* — Bacterial blight

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cylindrocarpon* sp. — Cylindrocarpon crown rot *Fusarium* sp. — Fusarium bulb, rhizome and root rot

*Penicillium* sp. — Blue mold *Phyllosticta* sp. — Phyllosticta leaf spot *Puccinia* sp. — Rust

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot VIRUSES

*Badnavirus — Canna yellow mottle virus Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

**CAPRIFOLIACEAE**

***Abelia grandiflora* (Glossy Abelia)**

FUNGI

*Cercospora abeliae* — Cercospora leaf spot

*Phytophthora* sp. — Phytophthora root rot

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

***Lonicera japonica* (Japanese Honeysuckle)**

FUNGI

*Oidium* sp. — Powdery mildew

***Lonicera sempervirens* (Trumpet Honeysuckle)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Phytophthora* sp. — Phytophthora root rot

***Lonicera* sp. (Honeysuckle)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Phytophthora* sp. — Phytophthora root rot *Thielaviopsis basicola* — Black root rot

***Viburnum chindo* (Viburnum)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

***Viburnum davidii* (David Viburnum)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Colletotrichum* sp. — Colletotrichum stem decay *Pythium* sp. — Pythium root rot

***Viburnum japonica* (Japanese Viburnum)**

FUNGI

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

***Viburnum macrocephalum* (Chinese Snowball)**

FUNGI

*Phoma* sp. — Phoma leaf spot

***Viburnum obovatum* (Small-leaf Arrowhead)**

FUNGI

*Phytophthora nicotianae* — Phytophthora root and stem rot

*Phytophthora* sp. — Phytophthora blight

***Viburnum odoratissimum* var. *awabuki* (Sweet Viburnum)**

FUNGI

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Phytophthora nicotianae* — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Viburnum odoratissimum* (Sweet Viburnum)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Macrophoma* sp. — Macrophoma blight *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot

***Viburnum opulus* (Cranberry Bush, Snowball Bush)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora viburnicola* — Cercospora leaf spot *Pythium* sp. — Pythium root rot

***Viburnum suspensum* (Sandankwa Viburnum)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Colletotrichum* sp. — Anthracnose *Phyllosticta punctata* — Phyllosticta leaf spot *Plasmopara viburni* — Downy mildew

***Viburnum tinus* (Laurustinus)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Microsphaera sparsa* — Powdery mildew *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root and crown rot

*Phytophthora ramorum* — Ramorum blight *Phytophthora* sp. — Phytophthora root rot, Leaf blight

*Plasmopara viburni* — Downy mildew

*Pythium* sp. — Pythium root rot

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

VIRUSES

*Alfamovirus* — *Alfalfa mosaic virus*

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

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria dothidea* — Botryosphaeria canker and dieback

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Botrytis* sp. — Botrytis blight

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Leaf spot *Erysiphe* sp. — Powdery mildew

*Oidium* sp. — Powdery mildew *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root and crown rot

*Phytophthora* sp. — Phytophthora root rot, Phytophthora blight

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

***Weigela* sp. (Weigela)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

**CARYOPHYLLACEAE**

***Arenaria montana* (Mountain Sandwort)**

FUNGI

*Alternaria* sp. — Alternaria blight

***Dianthus barbatus* (Sweet William)**

FUNGI

*Fusarium* sp. — Fusarium stem rot, Wilt

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and crown rot

***Dianthus caryophyllus* (Carnation)**

FUNGI

*Fusarium* sp. — Fusarium stem rot, Fusarium wilt

***Dianthus gratianopolitanus* (Cheddar Pink, Dianthus)**

FUNGI

*Colletotrichum* sp. — Anthracnose, Leaf spot, Stem decay

***Dianthus knappii* (Dianthus)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Dianthus* sp. (Dianthus, Pink)**

BACTERIA

*Burkholderia andropogonis* — Bacterial leaf spot FUNGI

*Alternaria dianthi* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot, Blight, Stem rot

*Cladosporium* sp. — Fairy ring leaf spot *Colletotrichum* sp. — Anthracnose, Stem rot *Fusarium* sp. — Fusarium crown, root and stem rot

*Phytophthora nicotianae* — Phytophthora crown rot

*Phytophthora* sp. — Phytophthora crown and root rot, Leaf blight

*Pythium* sp. — Pythium crown and root rot *Rhizoctonia* sp. — Rhizoctonia crown, root and stem rot

***Sagina subulata* (Irish Moss)**

FUNGI

*Puccinia arenariae* — Rust

*Rhizoctonia* sp. — Aerial blight

***Silene* sp. (Campion)**

FUNGI

*Phytophthora* sp. — Phytophthora crown rot

**CELASTRACEAE**

***Euonymus fortunei* (Wintercreeper)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Euonymus fortunei* var. *coloratus* (Purple Wintercreeper)**

***Euonymus japonicus* (Japanese Spindle Tree)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Oidium* sp. — Powdery mildew

***Euonymus japonicus* var. *microphylla* (Boxleaf Euonymus)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

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

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum gloeosporioides* — Anthracnose *Colletotrichum* sp. — Anthracnose *Gloeosporium frigidum* — Anthracnose *Gloeosporium* sp. — Anthracnose

*Oidium euonymi-japonici* — Powdery mildew

*Oidium* sp. — Powdery mildew

*Phyllosticta euonymi* — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Thread blight *Sphaceloma euonymi-japonica* — Scab *Sphaceloma* sp. — Scab

**CEPHALOTAXACEAE**

***Cephalotaxus harringtonia* (Plum Yew)**

FUNGI

*Phytophthora cinnamomi* — Phytophthora root rot

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Cephalotaxus harringtonia drupacea* (Japanese Plum Yew)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Phytophthora cinnamomi* — Phytophthora root and crown rot

**CHENOPODIACEAE**

***Beta vulgaris* (Beet)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Fusarium* sp. — Fusarium root rot *Pythium* sp. — Pythium root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Beta vulgaris* var. *cicla* (Swiss Chard)**

FUNGI

*Sclerotium rolfsii* — Southern stem blight

***Spinacia oleracea* (Spinach)**

FUNGI

*Albugo occidentalis* — White rust *Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Cladosporium leaf spot *Pythium* sp. — Damping off

*Rhizoctonia* sp. — Damping off

NEMATODES

*Belonolaimus* sp. — Sting nematode

VIRUSES

*Potyvirus* — *Turnip mosaic virus*

**CLUSIACEAE**

***Hypericum androsaemum* (St. John's Wort)**

FUNGI

*Phytophthora cinnamomi* — Phytophthora root rot

***Hypericum ascyron* (Great St. John's Wort)**

FUNGI

*Colletotrichum* sp. — Stem anthracnose

***Hypericum calycinum* (Creeping St. John’s Wort)**

FUNGI

*Pythium* sp. — Pythium root rot

***Hypericum perforatum* (Common St. John's Wort)**

FUNGI

*Pythium* sp. — Pythium root rot

***Hypericum* sp. (St. John's Wort)**

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Colletotrichum* sp. — Colletotrichum stem and crown rot

*Fusarium* sp. — Fusarium root rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Uromyces triquetrus* — Rust

**COMMELINACEAE**

***Tradescantia pallida* (Purple Queen)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

***Tradescantia* sp. (Wandering Jew)**

FUNGI

*Botrytis* sp. — Gray mold

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

**CONVOLVULACEAE**

***Dichondra* sp. (Dichondra)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

***Ipomoea batatas* (Sweet Potato)**

BACTERIA

*Erwinia* sp. — Bacterial soft rot

*Streptomyces ipomoea* — Soil rot

FUNGI

*Ceratocystis* sp. — Black rot *Ceratostomella fimbriata* — Black rot *Colletotrichum* sp. — Anthracnose, Colletotrichum stem decay

*Diplodia gossypina* — Java black rot *Fusarium oxysporum* — Fusarium surface rot, Fusarium wilt

*Fusarium solani* — Fusarium surface rot *Fusarium* sp. — Fusarium end, root and surface rot; Stem canker; Wilt

*Macrophomina phaseoli* — Charcoal rot *Macrophomina* sp. — Charcoal rot *Monilochaetes infuscans* — Scurf *Monilochaetes* sp. — Scurf

*Penicillium* sp. — Blue mold *Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root, stem and surface rot, Stem canker

*Rhizopus* sp. — Rhizopus soft rot

*Sclerotium rolfsii* — Southern blight, Circular spot

*Septoria* sp. — Septoria leaf spot

*Trichoderma* sp. — Punky rot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne* sp. — Root-knot nematode *Scutellonema* sp. — Spiral nematode

VIRUSES

*Potyvirus* — *Sweet potato feathery mottle virus*

***Ipomoea* sp. (Morning Glory)**

FUNGI

*Albugo ipomoeae* — White rust

*Albugo ipomoeae-panduratae* — White rust *Cercospora* sp. — Cercospora leaf spot *Coleosporium ipomoeae* — Rust *Coleosporium* sp. — Rust

*Colletotrichum* sp. — Leaf spot

*Puccinia* sp. — Rust

**CORNACEAE**

***Aucuba japonica* (Japanese Aucuba)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Phytophthora* sp. — Phytophthora root rot *Sclerotium rolfsii* — Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Aucuba* sp. (Aucuba)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Colletotrichum* sp. — Anthracnose *Botryosphaeria* sp. — Dieback *Gloeosporium* sp. — Anthracnose *Phomopsis* sp. — Phomopsis dieback *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii* — Southern blight *Sclerotium* sp. — Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Cornus alba elegantissima* (Variegated Red- twig Dogwood)**

FUNGI

*Colletotrichum* sp. — Anthracnose, Twig dieback

***Cornus canadensis* (Bunchberry)**

FUNGI

*Cylindrocladium* sp. — Damping off

***Cornus controversa* (Giant Dogwood)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

*Phomopsis* sp. — Phomopsis dieback

***Cornus florida* (Flowering Dogwood)**

FUNGI

*Actinopelte* sp. — Actinopelte leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Dieback *Discula destructiva* — Dogwood anthracnose *Elsinoe corni* — Spot anthracnose

*Elsinoe* sp. — Spot anthracnose

*Erysiphe* sp. — Powdery mildew *Microsphaera penicillata* — Powdery mildew *Oidium* sp. — Powdery mildew

*Phomopsis* sp. — Phomopsis dieback *Phyllostitica* sp. — Phyllostitica leaf spot *Phytophthora cinnamomi* — Phytophthora root and crown rot

*Phytophthora* sp. — Phytophthora root rot

*Septoria* sp. — Septoria leaf spot

VIRUSES

*Nepovirus* — *Cherry leaf roll virus*

***Cornus florida rubra* (Pink Flowering Dogwood)**

FUNGI

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

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

BACTERIA

*Enterobacter nimipressuralis* — Bacterial wetwood, Slime flux

FUNGI

*Botryosphaeria sp*. — Botryosphaeria dieback, canker, and twig blight

*Colletotrichum* sp. — Anthracnose *Microsphaera* sp. — Powdery mildew *Phoma* sp. — Phoma blight and dieback

*Phomopsis* sp. — Phomopsis dieback and canker *Phytophthora* sp. — Phytophthora root rot *Pseudocercospora* sp. — Pseudocercospora leaf spot

***Cornus* sp. (Dogwood)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria ribis* — Botryosphaeria dieback *Botryodiplodia* sp. — Botryosphaeria canker *Botryosphaeria dothidea* — Botryosphaeria dieback

*Botryosphaeria* sp. — Botryosphaeria canker, twig blight and dieback

*Botrytis cinerea* — Botrytis leaf necrosis *Cercospora cornicola* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum acutatum* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Discula destructiva* — Dogwood anthracnose

*Discula* sp. — Dogwood anthracnose *Elsinoe corni* — Spot anthracnose *Elsinoe veneta* — Anthracnose *Elsinoe* sp. — Spot anthracnose *Fusarium* sp. — Fusarium canker *Glomerella* sp. — Twig dieback

*Macrophoma* sp. — Macrophoma twig blight *Microsphaera pulchra* — Powdery mildew *Microsphaera* sp. — Powdery mildew *Oidium* sp. — Powdery mildew

*Pestalotia* sp. — Pestalotia leaf spot

*Phoma* sp. — Phoma dieback *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phomopsis* sp. — Phomopsis canker and dieback, Blight, Leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora leaf blight *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Septobasidium* sp. — Brown felt fungus *Septoria cornicola* — Septoria leaf spot *Septoria floridae* — Septoria leaf spot *Septoria* sp. — Septoria leaf spot

NEMATODES

*Criconemella* sp. — Ring nematode

*Xiphinema* sp. — Dagger nematode

***Nyssa sylvatica* (Black Gum)**

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Cercospora* sp. — Leaf spot *Colletotrichum* sp. — Leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Tubakia dryina* — Tubakia leaf spot

***Nyssa* sp. (Black Gum)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

NEMATODES

*Criconemella* sp. — Ring nematode

*Meloidogyne* sp. — Root-knot nematode

**CRASSULACEAE**

***Crassula arborescens* (Jade Plant)**

FUNGI

*Gloeosporium* sp. — Anthracnose

*Pythium* sp. — Pythium root rot

***Kalanchoe tubiflora* (Chandelier Plant)**

FUNGI

*Armillaria tabescens* — Armillaria root rot

***Kalanchoe* sp. (Kalanchoe)**

FUNGI

*Cylindrocladium* sp. — Cylindrocladium root rot

*Oidium* sp. — Powdery mildew

*Rhizoctonia* sp. — Rhizoctonia stem blight *Sphaerotheca humuli* var. *fuliginea* — Powdery mildew

***Sedum acre* (Golden Carpet)**

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Sedum reflexum* (Sedum)**

FUNGI

*Phytophthora* sp. — Phytophthora crown and stem rot

##### *Sedum rupestre ‘Angelina’ (Sedum angelina)*

FUNGI

*Rhizoctonia* sp. — Rhizoctonia crown and stem rot

***Sedum sieboldii* (Sedum)**

FUNGI

*Botrytis* sp. — Botrytis stem rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia stem and root rot

***Sedum spectabile* (Sedum, Stonecrop)**

BACTERIA

*Erwinia carotovora* — Bacterial soft rot

*Pectobacterium chrysanthemi* — Bacterial soft rot FUNGI

*Choanephora* sp. — Choanephora wet rot *Colletotrichum* sp. — Anthracnose *Myrothecium* sp. — Myrothecium stem rot *Phytophthora* sp. — Phytophthora stem rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

***Sedum spurium* (Sedum)**

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Sedum* sp. (Sedum)**

BACTERIA

*Erwinia carotovora* — Bacterial soft rot

FUNGI

*Alternaria alternata* — Alternaria stem canker *Botrytis cinerea* — Botrytis blight *Colletotrichum* sp. — Anthracnose, Crown rot *Fusarium* sp. — Fusarium stem rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora parasitica* — Phytophthora crown and stem and rot

*Phytophthora* sp. — Phytophthora root and stem rot

*Pythium* sp. — Pythium root and stem rot

*Rhizoctonia* sp. — Rhizoctonia basal stem rot

***Sempervivum* sp. (Hen and Chicks)**

FUNGI

*Botrytis cinerea* — Botrytis blight

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium leaf base rot and root rot

*Macrophomina* sp. — Macrophomina leaf spot

*Phoma* sp. — Phoma leaf spot

*Phytophthora* sp. — Phytophthora crown and root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

**CUCURBITACEAE**

***Citrullus lanatus* (Watermelon)**

BACTERIA

*Acidovorax avenae* — Watermelon fruit blotch *Acidovorax avenae* subsp. *citrulli —* Watermelon fruit blotch

*Erwinia tracheiphila* — Bacterial wilt *Pseudomonas* sp. — Bacterial leaf spot *Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora citrullina* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Cladosporium cucumerina* — Scab *Colletotrichum orbiculare* — Anthracnose

*Colletotrichum* sp. — Anthracnose *Didymella bryoniae* — Gummy stem blight *Didymella* sp. — Gummy stem blight

*Fusarium oxysporum* f.sp. *niveum* — Fusarium wilt

*Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium crown, root, seedling and stem rot, Fusarium wilt

*Mycosphaerella citrullina* — Gummy stem blight *Mycosphaerella* sp. — Gummy stem blight *Oidium* sp. — Powdery mildew

*Phoma cucurbitacearum* — Gummy stem blight

*Phoma* sp. — Gummy stem blight

*Phytophthora capsici* — Phytophthora crown and root rot

*Pseudoperonospora cubensis* — Downy mildew *Pseudoperonospora* sp. — Downy mildew *Pythium* sp. — Pythium root and stem rot, Damping off

*Rhizoctonia* sp. — Rhizoctonia root rot, Damping off

*Sclerotium rolfsii* — Southern blight *Sphaerotheca fuliginea* — Powdery mildew *Thielaviopsis basicola* — Black root rot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Tylenchorhynchus* sp. — Stunt nematode

VIRUSES

*Cucumovirus — Cucumber mosaic virus Potyvirus* — *Watermelon mosaic virus 1 Potyvirus* — *Watermelon mosaic virus 2 Potyvirus* — *Zucchini yellow mosaic virus*

***Cucumis melo* (Cantaloupe, Honeydew Melon)**

BACTERIA

*Erwinia carotovora* — Bacterial soft rot *Erwinia tracheiphila* — Bacterial wilt *Pseudomonas* sp. — Angular leaf spot

FUNGI

*Alternaria alternata* — Alternaria leaf spot *Alternaria cucumerina* — Alternaria leaf spot, Leaf blight

*Alternaria* sp. — Alternaria leaf spot, Leaf blight

*Cercospora citrullina* — Cercospora leaf spot

*Colletotrichum* sp. — Anthracnose *Didymella bryoniae* — Gummy stem blight *Didymella melonis* — Gummy stem blight *Didymella* sp. — Gummy stem blight

*Fusarium* sp. — Fusarium crown and root rot, Fusarium wilt

*Macrophomina phaseoli* — Charcoal rot

*Oidium* sp. — Powdery mildew

*Phoma* sp. — Gummy stem blight

*Phyllosticta* sp. — Phyllosticta leaf spot *Pseudoperonospora cubensis* — Downy mildew *Pseudoperonospora* sp. — Downy mildew *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia stem rot *Sclerotium rolfsii* — Southern blight *Sphaerotheca fuliginea* — Powdery mildew *Sphaerotheca* sp. — Powdery mildew

NEMATODES

*Helicotylenchus* sp. — Spiral nematode

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Comovirus* — *Squash mosaic virus Nepovirus* — *Tobacco ringspot virus Potyvirus* — *Watermelon mosaic virus Potyvirus* — *Watermelon mosaic virus 1 Potyvirus* — *Watermelon mosaic virus 2 Potyvirus* — *Zucchini yellow mosaic virus*

***Cucumis sativus* (Cucumber)**

BACTERIA

*Erwinia tracheiphila* — Bacterial wilt *Pseudomonas lachrymans* — Angular leaf spot *Pseudomonas* sp. — Angular leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora* sp. — Target spot *Colletotrichum orbiculare* — Anthracnose *Colletotrichum* sp. — Anthracnose *Corynespora* sp. — Target spot

*Didymella bryoniae* — Gummy stem blight

*Didymella* sp. — Gummy stem blight

*Fusarium* sp. — Damping off, Fusarium stem rot *Mycosphaerella citrullina* — Gummy stem blight *Oidium* sp. — Powdery mildew

*Phoma cucurbitacearum* — Gummy stem blight *Pseudoperonospora cubensis* — Downy mildew *Pseudoperonospora* sp. — Downy mildew

*Pythium aphanidermatum* — Cottony leak *Pythium* sp. — Pythium crown, root and stem rot, Damping off

*Rhizoctonia* sp. — Rhizoctonia root and stem rot NEMATODES

*Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus columbus* — Lance nematode *Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode *Rotylenchulus reniformis* — Reniform nematode *Scutellonema* sp. — Spiral nematode

VIRUSES

*Comovirus* — *Squash mosaic virus Potyvirus* — *Watermelon mosaic virus 1 Potyvirus* — *Zucchini yellow mosaic virus*

***Cucumis* sp. (Melons)**

FUNGI

*Phoma cucurbitacearum* — Gummy stem blight

***Cucurbita maxima* (Squash)**

FUNGI

*Oidium* sp. — Powdery mildew

***Cucurbita moschata* (Butternut Squash, Crookneck Squash)**

FUNGI

*Fusarium* sp. — Fusarium crown and root rot

*Phoma* sp. — Gummy stem blight

*Phytophthora capsici* — Phytophthora crown rot and root rot

*Sclerotinia* sp. — Sclerotinia stem rot

VIRUSES

*Potyvirus* — *Watermelon mosaic virus*

***Cucurbita pepo* (Squash, Zucchini)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Choanephora cucurbitarum* — Choanephora fruit rot

*Oidium* sp. — Powdery mildew *Pseudoperonospora cubensis* — Downy mildew *Sphaerotheca* sp. — Powdery mildew

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Potyvirus* — *Watermelon mosaic virus 1 Potyvirus* — *Watermelon mosaic virus 2 Potyvirus* — *Zucchini yellow mosaic virus*

***Cucurbita* sp. (Gourd, Pumpkin, Squash)**

BACTERIA

*Erwinia* sp. — Bacterial soft rot

FUNGI

*Alternaria cucumerina* — Alternaria leaf blight *Alternaria* sp. — Alternaria leaf spot *Cercospora citrullina* — Cercospora leaf spot

*Choanephora cucurbitarum* — Choanephora fruit rot, Blossom blight

*Colletotrichum orbiculare* — Anthracnose *Colletotrichum* sp. — Anthracnose *Didymella* sp. — Gummy stem blight *Fusarium* sp. — Fusarium root and stem rot, Damping off, Fruit rot

*Microdochium tabacina* — Microdochium blight

*Oidium* sp. — Powdery mildew

*Phoma* sp. — Gummy stem blight, Phoma leaf spot

*Phytophthora* sp. — Phytophthora stem rot *Pseudoperonospora cubensis* — Downy mildew *Pythium* sp. — Pythium root and crown rot *Rhizoctonia solani* — Rhizoctonia crown and stem rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot, Petiole rot

*Rhizopus* sp. — Rhizopus fruit rot

NEMATODES

*Helicotylenchus* sp. — Spiral nematode

*Meloidogyne* sp. — Root-knot nematode

*Paratrichodorus* sp. — Stubby root nematode

VIRUSES

*Comovirus* — *Squash mosaic virus Nepovirus* — *Tobacco ringspot virus Nepovirus* — *Tomato ringspot virus Potyvirus* — *Papaya ringspot virus - w Potyvirus* — *Watermelon mosaic virus Potyvirus* — *Watermelon mosaic virus 1 Potyvirus* — *Watermelon mosaic virus 2 Potyvirus* — *Zucchini yellow mosaic virus*

***Chamaecyparis* sp. (False Cypress)**

FUNGI

*Kabatina* sp. — Kabatina tip blight *Phomopsis* sp. — Phomopsis twig blight *Phytophthora* sp. — Phytophthora root rot

***Cryptomeria globosa* (Cryptomeria)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Luffa* sp. (Loofah)**

FUNGI

***Cryptomeria japonica* (Japanese Cedar)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

**CUPRESSACEAE**

***Chamaecyparis lawsoniana* (Lawson False Cypress)**

FUNGI

*Phomopsis* sp. — Phomopsis twig blight

***Chamaecyparis obtusa* (Hinoki and Dwarf Hinoki False Cypress)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Phomopsis* sp. — Phomopsis dieback *Phytophthora* sp. — Phytophthora root rot

***Chamaecyparis pisifera* (Sawara Falsecypress)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

***Chamaecyparis thyoides* (Atlantic White Cedar)**

FUNGI

*Phomopsis* sp. — Phomopsis twig blight

*Phytophthora* sp. — Phytophthora root rot

*Alternaria* sp. — Alternaria needle necrosis *Botryosphaeria* sp. — Botryosphaeria dieback *Colletotrichum* sp. — Anthracnose *Pestalotiopsis* sp. — Pestalotiopsis needle blight and tip blight

*Phomopsis* sp. — Phomopsis dieback, canker and tip blight

*Phyllosticta* sp. — Phyllosticta needle spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia solani* — Rhizoctonia foliar blight, Aerial blight, Web blight

***Cryptomeria* sp. (Cryptomeria)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora needle necrosis *Cylindrocladium* sp. — Root rot *Macrophoma* sp. — Sphaeropsis shoot blight *Pestalotia* sp. — Pestalotia leaf spot *Pestalotiopsis* sp. — Pestalotiopsis leaf spot *Phoma/Phyllosticta* sp. — Needle blight *Phomopsis* sp. — Phomopsis dieback, Needle necrosis

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Cunninghamia* sp. (China Fir)**

FUNGI

*Botryosphaeria* sp. — Leaf necrosis

**x *Cupressocyparis leylandii* (Leyland Cypress)**

BACTERIA

*Agrobacterium* sp. — Crown gall

FUNGI

*Asperisporium sequoiae* — Asperisporium needle blight, Cercospora needle blight

*Asperisporium* sp. — Cercospora needle blight *Botryodiplodia* sp. — Botryodiplodia dieback and canker

*Botryosphaeria dothidea* — Botryosphaeria canker

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora sequoiae* — Cercospora needle blight *Cercospora* sp. — Cercospora needle blight *Cercosporidium sequoiae* — Cercosporidium needle blight

*Cercosporidium* sp. — Cercosporidium needle blight

*Colletotrichum* sp. — Anthracnose *Fusicoccum* sp. — Fusicoccum branch dieback *Kabatina* sp. — Kabatina tip blight *Macrophoma* sp. — Macrophoma twig blight, Sphaeropsis shoot blight

*Monochaetia* sp. — Monochaetia canker *Passalora sequoiae* — Needle cast *Pestalotiopsis* sp. — Pestalotiopsis needle blight *Phomopsis* sp. —Phomopsis dieback *Phyllosticta* sp. — Phyllosticta needle blight

*Phytophthora cactorum* — Phytophthora root and crown rot

*Phytophthora cinnamomi* — Phytophthora crown and root rot

*Phytophthora* sp. — Phytophthora root rot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Seiridium unicorne* — Seiridium canker and dieback, Cypress canker

*Seiridium* sp. — Seiridium canker *Sphaeropsis sapinea* — Sphaeropsis canker *Sphaeropsis* sp. — Sphaeropsis twig canker, Dieback

NEMATODES

*Criconemella* sp. — Ring nematode

***Cupressus arizonica* (Arizona Cypress)**

FUNGI

*Gymnosporangium sp.* – Rust

*Passalora sequoiae* – Needle cast

*Pestalotiopsis* sp. — Pestalotiopsis needle blight

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

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Macrophoma* sp. — Twig blight

*Passalora seqoiae* — Needle cast, Needle blight *Pestalotiopsis* sp. — Pestalotiopsis canker and dieback

S*eridium unicorne* — Seridium canker

*Seiridium* sp. — Seiridium canker and dieback

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

FUNGI

*Colletotrichum* sp. — Anthracnose

*Pestalotia* sp. — Pestalotia needle necrosis *Pestalotiopsis* sp. — Pestalotiopsis needle blight *Phomopsis* sp. — Phomopsis twig blight *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sphaeropsis* sp. — Sphaeropsis dieback

#### *Juniperus chinensis* (Juniper – ‘Blue Point’, ‘Hetzi’, ‘Old Gold’, ‘Pfitzer’, ‘San Jose’, ‘Sargent’, ‘Sea Green’)

FUNGI

*Fusarium* sp. — Fusarium crown rot *Graphium* sp. — Black mildew *Kabatina juniperi* — Kabatina tip blight *Kabatina* sp. — Kabatina tip blight

*Pestalotiopsis* sp. — Pestalotiopsis needle blight, Tip blight

*Phomopsis* sp. — Phomopsis twig blight, Dieback *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Sphaeropsis* sp. — Sphaeropsis dieback

***Juniperus chinensis* var. *pfitzeriana* (Gold Tip Pfitzer Juniper)**

FUNGI

*Phomopsis* sp. — Phomopsis twig blight

***Juniperus communis* (Common Juniper)**

FUNGI

*Diplodia pinea* — Diplodia tip blight *Kabatina juniperi* - Kabatina tip blight *Pestalotiopsis* sp. — Pestalotiopsis tip blight

***Juniperus conferta* (Shore Juniper)**

FUNGI

*Alternaria* sp. — Alternaria needle blight *Armillaria* sp. — Armillaria root rot *Botryodiploidia* sp. — Botryodiploidia stem rot, dieback, and canker

*Botryosphaeria* sp. — Botryosphaeria dieback

*Diplodia* sp. — Diplodia dieback

*Kabatina* sp. — Kabatina tip blight

*Pestalotiopsis* sp. — Pestalotiopsis needle blight *Phomopsis* sp. — Phomopsis twig blight, Dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Needle blight

*Sphaeropsis* sp. — Tip bight

***Juniperus davurica* (Parsons Juniper)**

FUNGI

*Alternaria* sp. — Alternaria needle blight *Armillaria* sp. — Armillaria root rot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Juniperus horizontalis* (Creeping Juniper)**

FUNGI

*Alternaria* sp. — Alternaria needle blight *Phomopsis* sp. — Phomopsis twig blight *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Needle blight

***Juniperus procumbens* (Japanese Garden Juniper)**

FUNGI

*Phomopsis* sp. — Phomopsis dieback

*Phytophthora* sp. — Phytophthora root rot

***Juniperus scopulorum* (Skyrocket Juniper)**

FUNGI

*Gymnosporanigium clavipes* — Cedar-quince rust

*Gymnosporangium* sp. — Rust

*Sphaeropsis* sp. — Sphaeropsis dieback

***Juniperus squamata* (Himalayan Juniper)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

***Juniperus stricta* (Juniper)**

FUNGI

*Pestalotia* sp. — Pestalotia dieback

***Juniperus virginiana* (Eastern Red Cedar, Juniper)**

BACTERIA

*Agrobacterium* sp. — Crown gall

FUNGI

*Colletotrichum* sp. — Anthracnose, Needle spot

*Cytospora* sp. — Twig blight *Diaporthe* sp. — Branch tip blight *Fomes annosus* — Timber rot *Gymnosporangium clavipes* — Rust

*Gymnosporangium juniperi-virginianae* — Cedar-apple rust

*Gymnosporangium* sp. — Cedar-apple rust *Kabatina juniperi* — Kabatina tip blight *Kabatina* sp. — Kabatina tip blight *Phomopsis juniperovora* — Phomopsis twig blight, Dieback

*Phomopsis* sp. — Phomopsis twig blight, Dieback

*Pseudocercospora juniperi* — Needle blight

***Juniperus virginiana* var. *silicicola* (Southern Red Cedar)**

*Phoma/Phyllosticta* sp. — Needle blight *Phomopsis juniperovora* — Phomopsis twig blight

*Phomopsis* sp. — Phomopsis twig blight, Dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Foliar blight, Needle blight, Aerial blight *Sphaeropsis* sp. — Sphaeropsis dieback

NEMATODES

*Criconemella* sp. — Ring nematode

***Sequoia sempervirens* (Redwood)**

FUNGI

*Passalora sequoiae* — Needle cast, Needle blight

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

FUNGI

FUNGI

*Gymnosporangium* sp. — Stem rust

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

FUNGI

*Alternaria* sp. — Alternaria needle blight *Armillaria mellea* — Oak root rot *Armillaria* sp. — Armillaria root rot

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora needle blight *Colletotrichum* sp. — Anthracnose, Needle necrosis, Twig necrosis

*Diplodia* sp. — Diplodia tip blight

*Fomes* sp. — Timber rot

*Fusarium* sp. — Fusarium crown and root rot *Gymnosporangium clavipes —* Quince rust *Gymnosporangium juniperi-virginianae* — Cedar-apple rust

*Kabatina juniperi* — Kabatina tip blight *Kabatina* sp. — Kabatina tip blight *Lophodermium* sp. — Lophodermium needle cast *Macrophoma* sp. — Macrophoma blight, dieback *Pestalotiopsis* sp. — Pestalotiopsis needle blight

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Phomopsis* sp. — Phomopsis canker

***Thuja occidentalis* (Arborvitae, ‘Blue Cone’ Arborvitae)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Phytophthora* sp. — Phytophthora root rot *Rhizoctonia* sp. — Web blight

***Thuja plicata* (Western Red Cedar)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Macrophoma* sp. — Macrophoma dieback *Pythium* sp. — Pythium root rot

***Thuja standishii* x *plicata* ‘Green Giant’ (Green Giant Arborvitae)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Macrophoma* sp. — Macrophoma blight and dieback

**CYPERACEAE**

***Carex pendula* (Japanese Sedge Grass)**

FUNGI

*Colletotrichum* sp. — Anthracnose

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

FUNGI

***Carex* sp. (Sedge)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria branch blight

*Cercospora* sp. — Cercospora leaf spot, Blight

*Diplodia* sp. — Diplodia dieback

*Kabatina* sp. — Kabatina leaf spot *Macrophoma* sp. — Macrophoma blight and dieback

*Pestalotiopsis* sp. — Pestalotiopsis tip blight *Phoma* sp. — Phoma needle blight *Phomopsis* sp. — Phomopsis blight

*Phytophthora* sp. — Phytophthora root and crown rot

*Pythium* sp. — Pythium root rot

*Seiridium unicorne* — Seiridium canker

*Sphaeropsis* sp. — Botryosphaeria dieback

**CYCADACEAE**

***Cycas revoluta* (Sago Palm)**

FUNGI

*Botryodiploidia* sp. — Botryodiploidia stem rot and canker

*Coniothyrium* sp. — Coniothyrium leaf spot *Pestalotiopsis* sp. — Pestalotiopsis leaf spot *Phomopsis* sp. — Phomopsis leaf spot

***Cycas* sp. (Sago Palm)**

FUNGI

*Coniothyrium* sp. — Leaf spot

*Pestalotiopsis* sp. — Pestalotiopsis leaf spot

*Phoma/Phyllosticta* sp. — Phyllosticta leaf spot

*Bipolaris* sp. — Bipolaris leaf spot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose

***Cyperus esculentus* (Yellow Nut Sedge)**

FUNGI

*Puccinia canaliculata* — Rust

**DIAPENSIACEAE**

***Shortia galacifolia* (Oconee Bells)**

FUNGI

*Rhizoctonia* sp. — Web blight

**DIPSACACEAE**

***Scabiosa columbaria* (Pincushion Flower)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and crown rot

*Sclerotium rolfsii —* Southern blight

***Scabiosa* sp. (Pincushion Flower)**

BACTERIA

*Pseudomonas syringae —* Bacterial blight

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

*Pythium* sp. — Pythium root and stem rot *Phytophthora* sp. — Phytophthora root and stem rot

*Rhizoctonia* sp. — Rhizoctonia root, crown, stem and leaf rot

*Sclerotinia sclerotiorum* — Sclerotinia crown and stem rot, White mold

*Thielaviopsis basicola* — Black root rot

**DRYOPTERIDACEAE**

***Cyrtomium falcatum* (Holly Fern)**

FUNGI

*Fusarium solani* — Fusarium root and stem rot

*Phoma* sp. — Phoma rot

*Rhizoctonia solani* — Rhizoctonia blight

*Rhizoctonia* sp. — Rhizoctonia stem rot

***Cyrtomium* sp. (Holly Fern)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia crown rot

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

***Dryopteris erythrosora* (Japanese Shield Fern)**

FUNGI

*Colletotrichum* sp. — Colletotrichum leaf spot

*Phoma* sp. — Phoma blight and dieback

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

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia aerial blight, Root rot, Web blight

***Nephrolepis* sp. (Sword Fern)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Rhizoctonia* sp. — Web blight

**EBENACEAE**

***Diospyros kaki* (Japanese Persimmon)**

FUNGI

*Phomopsis* sp. — Phomopsis twig dieback

***Diospyros virginiana* (Common Persimmon)**

FUNGI

*Passalora* sp. — Passalora leaf spot

***Diospyros* sp. (Persimmon)**

FUNGI

*Armillaria tabescens —* Armillaria root rot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Phomopsis* sp. — Phomopsis dieback, Twig dieback

*Physalospora* sp. — Black rot

**ELAEAGNACEAE**

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

FUNGI

*Phomopsis* sp. — Phomopsis dieback *Phytophthora nicotianae —* Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

**EQUISETACEAE**

***Equisetum* sp. (Horsetail)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

**ERICACEAE**

***Arctostaphylos* sp. (Strawberry Tree, Manzanita)**

***Leucothoe fontanesiana* (Drooping Leucothoe)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Oidium* sp. — Powdery mildew

*Phyllosticta* sp. — Phyllosticta leaf spot

***Leucothoe populifolia* (Florida Leucothoe)**

FUNGI

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Calluna vulgaris* (Heather)**

FUNGI

*Phytophthora* sp. — Phytophthora dieback

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Kalmia latifolia* (Mountain Laurel)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Phytophthora ramorum* — Ramorum blight *Phytophthora* sp. — Phytophthora root rot, Phytophthora blight

***Leucothoe axillaris* (Coastal Leucothoe)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Phytophthora* sp. — Phytophthora root rot

*Colletotrichum* sp. — Leaf spot

***Leucothoe* sp. (Leucothoe)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Elsinoe* sp. — Spot anthracnose

*Leveillula* sp. — Powdery mildew *Macrophoma* sp. — Macrophoma dieback *Oidium* sp. — Powdery mildew *Pestalotia* sp. — Pestalotia leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora* sp. — Phytophthora root rot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Septoria* sp. — Septoria leaf spot

***Oxydendrum arboreum* (Sourwood)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Cristulariella moricola* — Zonate leaf spot *Fusicladium* sp. — Fusicladium leaf spot *Pythium* sp. — Pythium root rot

***Pieris japonica* (Japanese Andromeda)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback, canker, twig blight

*Botrytis cinerea* — Botrytis leaf, stem, and twig blight; Gray mold

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Phomopsis* sp. — Phomopsis tip blight and canker *Phytophthora hibernalis* — Phytophthora root rot *Phytophthora lateralis* — Phytophthora leaf and twig blight

*Phytophthora* sp. — Phytophthora leaf blight, Phytophthora root rot

***Pieris taiwanensis* (Formosan Pieris)**

FUNGI

*Phytophthora* sp. — Phytophthora leaf blight

***Pieris* sp. (Pieris)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot, Aerial blight

*Pythium* sp. — Pythium root rot

***Rhododendron* x *aromi* (Aromi Azalea)**

FUNGI

*Pucciniastrum vaccinii* — Pucciniastrum leaf rust

***Rhododendron carolinianum* (Carolina Rhododendron)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

***Rhododendron catawbiense* (Catawba Rhododendron)**

***Rhododendron indicum* (Southern Indica Azalea)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Ovulinia azaleae* — Ovulinia petal blight *Phomopsis* sp. — Phomopsis dieback *Phytophthora* sp. — Phytophthora root rot

***Rhododendron maximum* (Rosebay Rhododendron)**

FUNGI

*Pythium* sp. — Pythium root and crown rot

***Rhododendron* x *obtusum* ‘Hinodegiri’ (Hinodegiri Azalea)**

FUNGI

*Phomopsis* sp. — Phomopsis dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

***Rhododendron schlippenbachii* (Royal Azalea)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

***Rhododendron simsii formosa* (Formosa Azalea)**

FUNGI

*Phomposis* sp.— Phompsis tip blight and canker

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

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback *Phytophthora cinnamomi* — Phytophthora root and crown rot

*Phytophthora ramorum* — Ramorum blight *Pseudocercospora* sp. — Pseudocercospora leaf spot

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Agrobacterium* sp. — Crown gall

FUNGI

*Armillaria* sp. — Armillaria root rot, Oak root rot

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Botrytis cinerea* — Gray mold

*Botrytis* sp. — Botrytis petal blight, tip dieback *Briosia azaleae* — Bud and twig blight *Cercospora handelii* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot, Angular leaf spot

*Colletotrichum* sp. — Colletotrichum leaf spot, stem rot, twig dieback, Anthracnose *Cylindrocladium* sp. — Cylindrocladium stem rot *Elsinoe* sp. — Spot anthracnose

*Exobasidium azaleae* — Exobasidium leaf gall *Exobasidium vaccinii* — Exobasidium leaf gall *Exobasidium* sp. — Exobasidium leaf gall, Witch's broom

*Fusarium* sp. — Fusarium root and crown rot *Gloeosporium* sp. — Gloeosporium leaf spot *Glomerella cingulata* — Anthracnose *Glomerella* sp. — Anthracnose *Heterobasidion annosum* — Annosum root rot *Macrophoma* sp. — Macrophoma leaf spot *Microsphaera alni* — Powdery mildew *Microsphaera* sp. — Powdery mildew

*Oidium* sp. — Powdery mildew

*Ovulinia azaleae* — Ovulinia petal blight

*Pestalotia* sp. — Pestalotia leaf spot

*Phomopsis* sp. — Phomopsis dieback and canker, Leaf spot, Leaf necrosis, Leaf blight, Stem blight, Crown rot

*Phyllactinia* sp. — Powdery mildew *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotinae* — Phytophthora crown and root rot

*Phytophthora syringae* — Phytophthora twig blight

*Phytophthora* sp. — Phytophthora blight and dieback, Root rot

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pucciniastrum myrtilli* — Pucciniastrum leaf rust *Pucciniastrum vaccinii* — Pucciniastrum leaf rust *Pucciniastrum* sp. — Pucciniastrum leaf rust *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia blight, Web blight, Root rot, Foliar blight

*Septoria azaleae* — Septoria leaf spot

*Septoria* sp. — Septoria leaf spot

NEMATODES

*Ahelenchoides* sp. — Foliar nematode *Belonolaimus* sp. — Sting nematode *Meloidogyne* sp. — Root-knot nematode

*Paratrichodorus* sp. — Stubby root nematode

*Tylenchorhynchus* sp. — Stunt nematode

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

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Dothiorella* sp. — Dothiorella leaf spot *Exobasidium* sp. — Yellow leaf spot *Gloeosporium* sp. — Gloeosporium leaf spot *Glomerella cingulata* — Anthracnose *Mycosphaerella* sp. — Leaf spot

*Oidium* sp. — Powdery mildew

*Ovulinia azaleae* — Ovulinia petal blight *Pestalotia* sp. — Pestalotia leaf spot *Pestalotiopsis* sp. — Gray blight

*Phomopsis* sp. — Phomopsis canker and dieback, Leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cactorum* — Phytophthora dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora cryptogea* — Phytophthora root rot *Phytophthora parasitica* — Phytophthora root rot *Phytophthora ramorum* — Ramorum blight *Phytophthora syringae* — Phytophthora twig blight

*Phytophthora* sp. — Phytophthora blight and dieback, Root and crown rot, Wilt, Aerial stem blight

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot *Septoria* sp. — Septoria leaf spot *Sphaceloma* sp. — Anthracnose

***Vaccinium arboreum* (Sparkleberry)**

FUNGI

*Ophiodothella vaccinii* — Fly speck leaf spot

***Vaccinium ashei* (Rabbiteye Blueberry)**

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria stem canker

*Botryosphaeria* sp. — Botryosphaeria stem canker

*Botrytis* sp. — Botrytis blight

*Cercospora* sp. — Cercospora stem blotch, Dieback

*Cylindrocladium* sp. — Cylindrocladium root rot

*Glomerella* sp. — Glomerella leaf spot *Oidium* sp. — Powdery mildew *Phomopsis* sp. — Phomopsis twig blight, Phomopsis leaf spot

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora cryptogea* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

***Vaccinium augustifolium* (Lowbush Blueberry)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

***Vaccinium corymbosum* (Highbush Blueberry)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Botryosphaeria* sp. — Botryosphaeria twig blight *Colletotrichum* sp. — Anthracnose *Gloeosporium minus* — Leaf spot, Stem canker *Phomopsis* sp. — Phomopsis canker and twig blight

*Phytophthora* sp. — crown and root rot

***Vaccinium crassifolium* (Creeping Blueberry)**

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria canker

*Pucciniastrum vaccinii* — Leaf rust

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

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria corticis* — Botryosphaeria canker *Botryosphaeria dothidea* — Botryosphaeria canker and dieback

*Botryosphaeria ribis* — Botryosphaeria dieback *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Botrytis* sp. — Botrytis blight

*Cercospora* sp. — Cercospora leaf spot, Stem blight

*Colletotrichum* sp. — Anthracnose *Diaporthe* sp. — Diaporthe twig blight *Dothichiza* sp. — Dothichiza leaf spot *Dothiorella* sp. — Stem canker *Exobasidium* sp. — Exobasidium leaf gall *Gloeosporium cingulata* — Anthracnose *Glomerella* sp. — Anthracnose *Microsphaera* sp. — Powdery mildew

*Monilinia vaccinii-corymbosi* — Mummy berry

*Oidium* sp. — Powdery mildew

*Phomopsis* sp. — Phomopsis dieback, Twig blight *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora branch blight, Root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode *Xiphinema* sp. — Dagger nematode

**EUPHORBIACEAE**

***Euphorbia amygdaloides* (Euphorbia)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot *Rhizoctonia* sp. — Rhizoctonia crown and stem rot

*Fusarium* sp. — Crown and stem rot

***Euphorbia lactea* (Mottled Spurge)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Euphorbia* x *martini* (Spurge)**

FUNGI

*Phytophthora nicotianae —* Phytophthora root rot

*Rhizoctonia* sp. — Rhizoctonia stem rot

***Euphorbia pulcherrima* (Poinsettia)**

BACTERIA

*Corynebacterium* sp. — Bacterial leaf spot *Erwinia carotovora —* Bacterial stem rot *Erwinia chrysanthemi —* Bacterial stem rot *Erwinia* sp. — Bacterial stem rot, Bacterial soft rot

*Xanthomonas campestris —* Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis cinerea —* Botrytis blight, Gray mold *Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Leaf necrosis *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium basal stem rot, Stem rot

*Phytophthora* sp. — Phytophthora stem rot *Pythium* sp. — Pythium root and stem rot *Rhizoctonia* sp. — Rhizoctonia stem and root rot

***Euphorbia* sp. (Euphorbia)**

BACTERIA

*Agrobacterium* sp. — Crown gall

**FABACEAE**

***Albizia julibrissin* (Mimosa)**

FUNGI

*Fusarium* sp. — Fusarium wilt

***Arachis hypogaea* (Peanut)**

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Ascochyta* sp. — Ascochyta leaf spot *Ascochyta* sp. — Web blotch *Aspergillus* sp. — Aspergillus crown rot

*Botryosphaeria* sp. — Botryosphaeria stem and pod rot

*Botrytis* sp. — Botrytis blight

*Cercospora arachidicola* — Early leaf spot *Cercospora* sp. — Cercospora leaf spot *Cercosporidium personatum* — Late leaf spot *Cladosporium* sp. — Black mold *Colletotrichum* sp. — Anthracnose

*Cylindrocladium crotalariae* — Cylindrocladium black rot, Pod rot

*Cylindrocladium* sp. — Cylindrocladium black rot, Pod rot

*Didymella* sp. — Gummy stem blight *Diplodia* sp. — Diplodia stem rot *Fusarium oxysporum* — Fusarium root rot

*Fusarium* sp. — Fusarium crown, root, pod and stem rot

*Leptosphaerulina crassiasca* — Leaf scorch *Leptosphaerulina* sp. — Pepper spot *Macrophomina phaseoli* — Charcoal rot *Neocosmophora* sp. — Neocosmospora stem rot *Passalora personata* — Late leaf spot

*Phoma arachidicola* — Web blotch *Phomopsis* sp. — Phomopsis stem rot *Phyllosticta* sp. — Phyllosticta leaf spot *Puccinia* sp. — Rust

*Pythium myriotylum* — Pod soft rot

*Pythium* sp. — Pythium root, pod and stem rot *Rhizoctonia solani* — Rhizoctonia pod rot *Rhizoctonia* sp. — Damping off, Rhizoctonia root, pod and stem rot, Rhizoctonia foliar blight, Rhizoctonia limb blight, Web blight

*Rhizopus* sp. — Rhizopus seedling blight *Sclerotinia* sp. — Sclerotinia blight *Sclerotium rolfsii* — Southern blight *Verticillium* sp. — Verticillium wilt

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Hoplolaimus columbus* — Columbia lance nematode

*Meloidogyne* sp. — Root-knot nematode

*Pratylenchus* sp. — Lesion nematode

VIRUSES

*Cucumovirus* — *Peanut stunt virus Potyvirus* — *Peanut mottle virus Tospovirus* — *Tomato spotted wilt virus Tospovirus* — *Tomato spotted wilt virus - l*

***Cassia* sp. (Senna)**

FUNGI

*Oidium* sp. — Powdery mildew

***Cercis canadensis* (Eastern Redbud)**

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria canker and diebck

*Cercospora cercidicola* — Cercospora leaf spot *Mycosphaerella cercidicola* — Mycosphaerella leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

***Cercis siliquastrum* (Judas Tree)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

*Phomopsis* sp. — Phomopsis leaf spot

***Cercis* sp. (Redbud)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Phytophthora* sp. — Phytophthora blight

*Rhizoctonia* sp. — Trunk canker

***Glycine max* (Soybean)**

BACTERIA

*Pseudomonas glycines* — Bacterial blight *Pseudomonas* sp. — Bacterial leaf spot, Wild fire *Xanthomonas axonopodis* — Bacterial pustule

*Xanthomonas axonopodis* pv. *glycines* — Bacterial pustule

*Xanthomonas campestris* — Bacterial pustule

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Calonectria crotalariae* — Red crown rot *Calonectria* sp. — Red crown rot

*Cercospora kikuchii* — Frogeye leaf spot, Purple seed stain

*Cercospora sojina* — Frogeye leaf spot *Cercospora* sp. — Frogeye leaf spot, Purple seed stain

*Colletotrichum dematium* — Anthracnose *Colletotrichum truncatum* — Anthracnose *Colletotrichum* sp. — Anthracnose *Corynespora cassiicola* — Target spot *Corynespora* sp. — Target spot *Cylindrocladium crotalariae* — Red crown rot *Cylindrocladium* sp. — Red crown rot *Diaporthe phaseolorum* — Pod and stem blight

*Diaporthe phaseolorum* var. *caulivora* — Pod and stem blight

*Diaporthe phaseolorum* var. *sojae* — Pod and stem blight

*Diaporthe* sp. — Pod and stem blight, Stem canker

*Fusarium oxysporum* — Fusarium wilt *Fusarium virguliforme* — Soybean sudden death syndrome

*Fusarium* sp. — Fusarium pod, collar, root and stem rot; Sudden death syndrome, Fusarium wilt *Glomerella cingulata* — Anthracnose *Glomerella glycines* — Anthracnose *Macrophomina phaseoli* — Charcoal rot, Ashy stem blight

*Macrophomina* sp. — Charcoal rot *Microsphaera* sp. — Powdery mildew *Mycosphaerella* sp. — Brown spot

*Neocomospora vasinfecta* — Neocosmospora root rot

*Neocosmopora* sp. — Neocosmospora stem rot *Peronospora manshurica* — Downy mildew *Phakopsora pachyrhizi* — Asian soybean rust *Phakopsora* sp. — Soybean rust

*Phomopsis* sp. — Phomopsis stem blight, Pod and stem blight

*Phyllosticta sojicola* — Phyllosticta leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root and stem rot, Damping off

*Rhizoctonia solani* — Rhizoctonia foliar blight

*Rhizoctonia* sp. — Rhizoctonia root, crown and stem rot, Damping off, Sore shin, Web blotch, Stem blight, Aerial blight

*Sclerotinia* sp. — White mold *Sclerotium rolfsii* — Southern blight *Sclerotium* sp. — Southern blight *Septoria glycines* — Brown spot

*Septoria* sp. — Brown spot, Septoria leaf spot

*Thielaviopsis basicola* — Black root rot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Heterodera glycines* — Soybean cyst nematode *Heterodera* sp. — Soybean cyst nematode *Hoplolaimus columbus* — Columbia lance nematode

*Hoplolaimus* sp. — Lance nematode *Meloidogyne arenaria* — Root-knot nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne incognita acrita* — Root-knot nematode

*Meloidogyne thamesi* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Rotylenchulus reniformis* — Reniform nematode *Scutellonema* sp. — Spiral nematode *Trichodorus* sp. — Stubby root nematode *Tylenchorhynchus* sp. — Stunt nematode *Xiphinema* sp. — Dagger nematode

VIRUSES

*Potyvirus* — *Peanut mottle virus Potyvirus* — *Soybean mosaic virus Potyvirus* — *Soybean mosaic virus*

***Laburnum* sp. (Golden Chain Tree)**

FUNGI

*Phytophthora cinnamomi* — Phytophthora root rot

***Lathyrus hirsutus* (Austrian Winter Pea)**

FUNGI

*Ascochyta* sp. — Ascochyta stem and leaf spot

*Pythium* sp. — Pythium root rot

***Lespedeza* sp. (Bush Clover)**

FUNGI

*Pythium* sp. — Pythium root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Lupinus* sp. (Lupine)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis* sp. — Botrytis blight *Cladosporium* sp. — Leaf mold *Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Damping off *Pythium* sp. — Damping off

*Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotinia sclerotiorum* — Sclerotinia stem rot *Sclerotium rolfsii* — Southern blight

NEMATODES

*Hoplolaimus columbus* — Columbia lance nematode

*Meloidogyne* sp. — Root-knot nematode

***Medicago sativa* (Alfalfa)**

BACTERIA

*Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora medicaginis* — Summer black stem, Leaf spot

*Cercospora* sp. — Summer black stem, Leaf spot *Colletotrichum dematium* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Erysiphe* sp. — Powdery mildew

*Fusarium* sp. — Fusarium crown, root and bud rot *Leptosphaerulina briosiana* — Leptosphaerulina leaf spot

*Leptosphaerulina* sp*.* — Leptosphaerulina leaf spot

*Phoma medicaginis* — Spring black stem *Phoma* sp. — Spring black stem, Leaf spot *Pseudopeziza medicaginis* — Common leaf spot *Pseudopeziza* sp. — Common leaf spot

*Pythium* sp. — Pythium crown and root rot, Damping off

*Rhizoctonia solani* — Rhizoctonia stem blight *Rhizoctonia* sp. — Rhizoctonia crown, root bud and stem rot, Stem canker, Stem blight *Sclerotinia sclerotiorum* — Sclerotinia crown rot *Sclerotinia* sp. — Sclerotinia crown, root and stem rot

*Sclerotium rolfsii* — Southern blight

*Stemphylium botryosum —* Stemphylium leaf spot *Stemphylium* sp. — Stemphylium leaf spot *Uromyces striatus* — Rust

*Uromyces* sp. — Rust

NEMATODES

*Criconemella* sp. — Ring nematode

*Paratrichodorus* sp. — Stubby root nematode

***Medicago truncatula* (Barrel Medic)**

FUNGI

*Phoma* sp. — Phoma dieback

***Phaseolus acutifolius* (Tepary Bean)**

FUNGI

*Fusarium* sp. — Fusarium root rot

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

FUNGI

*Rhizoconia solani* — Rhizoctonia stem canker

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Phaseolus lunatus* (Butter Bean)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Diaporthe* sp. — Pod and stem blight *Fusarium* sp. — Fusarium root and stem rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Damping off, Rhizoctonia root and stem rot, Web blight

*Sclerotium rolfsii* — Southern blight

NEMATODES

*Belonolaimus* sp. — Sting nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus columbus* — Columbia lance nematode

*Meloidogyne* sp. — Root-knot nematode

*Pratylenchus* sp. — Lesion nematode

VIRUSES

*Potyvirus* — *Bean yellow mosaic virus*

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

BACTERIA

*Xanthomonas* sp. — Bacterial blight

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Aristastoma* sp. — Aristastoma leaf spot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Diaporthe* sp. — Pod and stem blight *Epicoccum* sp. — Epicoccum leaf spot *Erysiphe* sp. — Powdery mildew

*Fusarium* sp. — Fusarium crown, root and stem rot, Fusarium wilt

*Gloeosporium* sp. — Gloeosporium leaf spot *Macrophomina phaseoli* — Ashy stem blight, Charcoal rot

*Macrophomina* sp. — Charcoal rot, Ashy stem blight

*Phaeoisariopsis griseola* — Angular leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root and stem rot, Damping off

*Rhizoctonia solani* — Rhizoctonia stem rot *Rhizoctonia* sp. — Rhizoctonia root, stem and pod rot, Damping off, Web blight

*Sclerotinia sp*. — White mold *Sclerotium rolfsii* — Southern blight *Sclerotium* sp. *—* Southern blight *Uromyces phaseoli* — Rust *Uromyces* sp. *—* Rust

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode

*Pratylenchus* sp. — Lesion nematode

VIRUSES

*Cucumovirus* — *Peanut stunt virus Potyvirus* — *Bean mosaic virus Potyvirus* — *Bean yellow mosaic virus*

***Phaseolus* sp. (Bean)**

BACTERIA

*Agrobacterium* sp. — Crown gall *Pseudomonas syringae* — Bacterial blight *Ralstonia solanacearum* — Bacterial wilt *Xanthomonas campestris* — Common bacterial blight

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Aristastoma* sp. — Aristastoma leaf spot *Ascochyta* sp. — Ascochyta leaf spot *Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Leaf mold *Colletotrichum dematium* — Anthracnose

*Colletotrichum lindemuthianum* — Anthracnose *Colletotrichum truncatum* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium root, crown and stem rot, Fusarium wilt, Fusarium yellows *Leptosphaerulina* sp. — Leptosphaerulina leaf blight

*Macrophomina phaseoli* — Ashy stem blight, Charcoal rot

*Macrophomina* sp. — Charcoal rot *Phoma exigua* — Black node disease *Phyllosticta* sp. — Phyllosticta leaf spot *Puccinia* sp. — Rust

*Pythium* sp. — Pythium root and stem rot, Damping off, Blight

*Rhizoctonia solani* — Rhizoctonia root rot, Web blight, Stem canker

*Rhizoctonia* sp. — Rhizoctonia root and stem rot, Damping off, Web blight

*Sclerotinia sclerotiorum* — White mold *Sclerotium rolfsii* — Southern blight *Uromyces* sp. — Rust

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode

*Scutellonema* sp. — Spiral nematode

*Tylenchorhynchus* sp. — Stunt nematode

VIRUSES

*Comovirus* — *Bean pod mottle virus Potyvirus* — *Bean mosaic virus Sobemovirus* — *Southern bean mosaic virus*

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

FUNGI

*Aphanomyces* sp. — Aphanomyces root rot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Erysiphe* sp. — Powdery mildew

*Fusarium* sp. — Fusarium root and stem rot *Macrophomina phaseoli* — Ashy stem blight *Oidium* sp. — Powdery mildew

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Comovirus* — *Cowpea severe mosaic virus Cucumovirus* — *Cucumber mosaic virus*

***Pisum* sp. (Pea)**

FUNGI

*Aphanomyces* sp. — Aphanomyces root rot

*Ascochyta* sp. — Ascochyta blight

*Botrytis* sp. — Gray mold

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum lindemuthianum* — Anthracnose *Colletotrichum* sp. — Anthracnose *Corynespora cassiicola* — Target spot *Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium root and stem rot *Macrophomina phaseoli* — Ashy stem blight *Macrophomina* sp. — Charcoal rot

*Pythium* sp. — Pythium root rot, Damping off *Rhizoctonia* sp. — Rhizoctonia root, stem and crown rot, Damping off

*Sclerotinia* sp. — White mold *Sclerotium* sp. — Southern blight *Uromyces phaseoli* — Rust

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Potyvirus* — *Blackeye cowpea mosaic virus*

***Pueraria montana* var. *lobata* (Kudzu)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot, Halo blight

FUNGI

*Aschochyta* sp. — Aschochyta leaf spot

*Cercospora* sp. — Cercospora leaf spot

***Trifolium incarnatum* (Crimson Clover)**

FUNGI

*Alternaria* sp. — Alternaria stem rot

*Fusarium* sp. — Fusarium canker

*Sclerotinia sclerotiorum* — Dieback, Stem rot

*Uromyces* sp. — Rust

***Trifolium repens* (Clover, White Clover, Landino Clover)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Polythrincium trifolii* — Sooty blotch *Rhizoctonia* sp. — Rhizoctonia root, stem, crown and leaf rot; Brown patch

***Trifolium subterraneum* (Subterranean Clover)**

FUNGI

*Erysiphe polygoni* — Powdery mildew

***Trifolium vesiculosum* (Arrowleaf Clover)**

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Trifolium* sp. (Clover)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Damping off *Leptosphaerulina* sp. — Pepper spot, Leptosphaerulina leaf spot

*Phoma trifolii* — Black stem

*Phyllosticta* sp. — Phyllosticta leaf spot *Pseudopeziza* sp. — Pseudopeziza leaf spot *Sclerotinia* sp. — Sclerotinia crown and root rot *Stemphylium* sp. — Target spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Vigna unguiculata* (Cowpea)**

FUNGI

*Aristastoma* sp. — Zonate leaf spot *Colletotrichum* sp. — Anthracnose *Erysiphe* sp. — Powdery mildew *Fusarium oxysporum* — Fusarium wilt *Fusarium solani* — Fusarium stem rot

*Fusarium* sp. — Fusarium root and stem rot, Damping off, Fusarium wilt

*Macrophomina phaseoli* — Ashy stem blight *Macrophomina* sp. — Charcoal rot *Phyllosticta* sp. — Phyllosticta leaf spot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot, Damping off

NEMATODES

*Belonolaimus* sp. — Sting nematode

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Bromovirus* — *Cowpea chlorotic mottle virus Comovirus* — *Cowpea mosaic virus Comovirus* — *Cowpea severe mosaic virus Cucumovirus* — *Cucumber mosaic virus Potyvirus* — *Blackeye cowpea mosaic virus Sobemovirus* — *Southern bean mosaic virus*

***Vigna* sp. (Southern Pea)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

*Pythium* sp. — Black leg, Pythium stem rot

***Wisteria* sp. (Wisteria)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Colletotrichum* sp. — Colletotrichum leaf spot

*Sphaeropsis* sp. — Sphaeropsis stem gall

**FAGACEAE**

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

FUNGI

*Actinopelte dryina —* Actinopelte leaf spot and blight

*Botryosphaeria* sp. — Botryosphaeria dieback

***Castanea* sp. (Chestnut, Chinquapin)**

FUNGI

*Discella* sp. — Eye spot *Endothia* sp. — Chestnut blight *Oidium* sp. — Powdery mildew *Polyporus calkinsii* — Heart rot

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

FUNGI

*Apiognomonia errabunda* — Anthracnose *Botryosphaeria* sp. — Dieback, canker, and twig blight

*Phomopsis* sp. — Phomopsis canker and dieback

***Fagus* sp. (Beech)**

FUNGI

*Scorias spongiosa* — Sooty mold

*Scorias* sp. — Sooty mold

***Quercus acuta* (Japanese Evergreen Oak)**

FUNGI

*Sphaeropsis* sp. — Sphaeropsis dieback

***Quercus acutisssima* (Sawtooth Oak)**

FUNGI

*Cytospora* sp. — Cytospora canker

*Tubakia dryina* — Leaf spot

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

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Actinopelte* sp. — Actinopelte leaf spot *Apiognomonia errabunda* — Anthracnose *Botryodiplodia* sp. — Botryodiplodia leaf spot *Botryosphaeria* sp. — Dieback, canker, and twig blight

*Coryneum* sp. — Coryneum dieback

*Discula* sp. — Anthracnose

*Taphrina caerulescens* — Oak leaf blister

*Taphrina* sp. — Oak leaf blister

*Tubakia dryina* — Actinopelte leaf spot

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

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Actinopelte* sp. — Actinopelte leaf spot *Taphrina* sp. — Oak leaf blister

***Quercus falcata* (Red Oak, Southern Red Oak)**

BACTERIA

*Xylella fastidiosa* — Bacterial scorch

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Actinopelte* sp. — Actinopelte leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback *Discula* sp. — Anthracnose

*Inonotus dryadeus* — Root rot *Monochaetia* sp. — Zonate leaf spot *Phytophthora* sp.— Phytophthora canker *Taphrina caerulescens* — Oak leaf blister *Taphrina* sp. — Oak leaf blister

***Quercus hemisphaerica* (Darlington Oak)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria twig dieback

*Taphrina caerulescens* — Oak leaf blister

***Quercus laevis* (Turkey Oak)**

FUNGI

*Actinopelte* sp. — Actinopelte leaf spot

***Quercus laurifolia* (Laurel Oak)**

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Cronartium quercuum* — Pine-oak gall rust *Discula* sp. — Discula anthracnose *Phytophthora cinnamomi* — Phytophthora basal canker

*Pythium* sp. — Pythium root rot

*Taphrina caerulescens* — Oak leaf blister

*Taphrina* sp. — Oak leaf blister

*Tubakia* dryina *—* Actinopelte leaf spot

***Quercus lyrata* (Overcup Oak)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Quercus macrocarpa* (Bur Oak)**

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Colletotrichum* sp. — Anthracnose

*Oidium* sp. — Powdery mildew

***Quercus marilandica* (Blackjack Oak)**

FUNGI

*Tubakia dryina* — Actinopelte leaf spot

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

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Armillaria* sp. — Armillaria Root Rot *Botryosphaeria* sp. — Botryosphaeria dieback *Ceratocystis fagacearum* — Oak wilt *Ceratocystis* sp. — Oak wilt

*Cronartium quercuum* — Fusiform rust *Cronartium quercuum* — Pine-oak gall rust *Cronartium* sp. — Fusiform rust

*Discula quercina* — Anthracnose *Gnomonia quercina* — Oak anthracnose *Phyllactinia* sp. — Powdery mildew *Septobasidium* sp. — Brown felt fungus *Taphrina caerulescens* — Oak leaf blister *Tubakia* sp. — Actinopelte leaf spot

NEMATODES

*Criconemella* sp. — Ring nematode

***Quercus nuttalli* (Nuttall’s Oak)**

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Botryosphaeria* sp. — Botryosphaeria canker *Septobasidium* sp. — Brown felt

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

ALGAE

*Cephaleuros virescens* — Algal leaf spot

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Actinopelte* sp. — Actinopelte leaf spot *Erysiphe alphitoides* — Powdery mildew *Taphrina caerulescens* — Oak leaf blister *Taphrina* sp. — Oak leaf blister

*Tubakia dryina* — Actinopelte leaf spot

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

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Actinopelte* sp. — Actinopelte leaf spot *Apiognomonia quercina* — Anthracnose *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Coryneum kunzei* — Oak twig blight *Cronartium quercuum* f. sp. *fusiforme* — Fusiform rust

*Cronartium quercuum* — Pine-oak gall rust

*Discula* sp. — Anthracnose *Microsphaera* sp. — Powdery mildew *Oidium* sp. — Powdery mildew *Pestalotia* sp. — Pestalotia leaf spot *Phellinus spiculosus* — White rot

*Phytophthora cinnamomi* — Phytophthora root rot

*Pythium* sp. — Pythium root rot *Septobasidium* sp. — Brown felt fungus *Taphrina caerulescens* — Oak leaf blister *Taphrina* sp. — Oak leaf blister

*Tubakia dryina* — Actinopelte leaf spot

NEMATODES

*Tylenchorhynchus* sp. — Stunt nematode

***Quercus robur* (English Oak)**

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot

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

ALGAE

*Cephaleuros virescens* — Algal leaf spot

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Actinopelte* sp. — Actinopelte leaf spot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Phytophthora cinnamomi* — Phytophthora root rot

*Taphrina caerulescens* — Oak leaf blister

*Taphrina* sp. — Oak leaf blister

*Tubakia dryina* — Actinopelte leaf spot

***Quercus shumardii* (Shumard's Red Oak)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Tubakia dryina* — Actinopelte leaf spot

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

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Discula quercina* — Discula anthracnose *Septobasidium* sp. — Brown felt fungus *Taphrina* sp. — Oak leaf blister

*Tubakia dryina* — Actinopelte leaf spot

***Quercus velutina* (Black Oak)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

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

FUNGI

*Acantharia* sp. — Black leaf spot

*Actinopelte* sp. — Actinopelte leaf spot *Apiognomonia quercina* — Anthracnose *Apiognomonia* sp. — Anthracnose *Botryosphaeria sp.* — Botryosphaeria dieback and canker

*Coryneum japonicum* — Twig blight *Coryneum kunzei* — Oak twig blight *Cronatrium quercuum* — Pine-oak gall rust *Cronartium* sp. — Fusiform rust

*Cylindrosporium* sp. — Cylindrosporium leaf spot

*Discula quercina* — Anthracnose *Discula* sp. — Discula anthracnose *Gloeosporium quercina* — Anthracnose

*Gloeosporium* sp. — Gloeosporium leaf spot *Gnomonia quercina* — Oak anthracnose *Microsphaera penicillata* — Powdery mildew *Microsphaera* sp. — Powdery mildew *Oidium* sp. — Powdery mildew

*Phomopsis* sp. — Phomopsis canker and dieback *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Taphrina caerulescens* — Oak leaf blister *Taphrina* sp. — Oak leaf blister, Leaf curl *Trabutia quercina* — Tar spot of oak

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

ALGAE

*Cephaleuros virescens* — Algal leaf spot

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot *Actinopelte* sp. — Actinopelte leaf spot *Apiognomonia quercina* — Anthracnose *Apiognomonia* sp. — Anthracnose *Armillaria* sp. — Armillaria root rot *Ceratocystis* sp. — Oak wilt

*Cronartium* sp. — Fusiform rust

*Discula quercina* — Discula anthracnose *Discula* sp. — Anthracnose, Discula leaf spot *Echinulata* sp. — Black leaf spot

*Fusarium* sp. — Fusarium dieback *Ganoderma* sp. — White rot *Gloeosporium* sp. — Anthracnose *Gnomonia quercina* — Oak anthracnose *Gnomonia* sp. — Anthracnose

*Helminthosporium* sp. — Helminthosporium leaf spot

*Hypoxylon* sp. — Hypoxylon canker

*Melanconium* sp. — Melanconium leaf spot *Microsphaera* sp. — Powdery mildew *Nectria* sp. — Nectria canker

*Oidium* sp. — Powdery mildew *Phellinus gilvus* — White rot *Phomopsis* sp. — Phomopsis gall *Phyllactinia guttata* — Powdery mildew *Phyllactinia* sp. — Powdery mildew *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora cinnamomi* — Phytophthora root rot

*Polyporus hispidus* — Heart rot *Sphaeropsis* sp. — Sphaeropsis blight *Taphrina caerulescens* — Oak leaf blister *Taphrina* sp. — Oak leaf blister, Leaf curl *Trabutia* sp. — Black spot

*Tubakia dryina* — Actinopelte leaf spot

*Tubakia* sp. — Actinopelte leaf spot

NEMATODES

*Belonolaimus* sp. — Sting nematode

**FUMARIACEAE**

***Dicentra spectabilis* (Bleeding Heart)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia crown and stem rot

*Thielaviopsis basicola* — Black root rot

***Dicentra* sp. (Bleeding Heart)**

FUNGI

*Fusarium* sp. — Fusarium root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

VIRUSES

*Tobravirus* — *Tobacco rattle virus*

**GENTIANACEAE**

***Eustoma* sp. (Lisianthus)**

FUNGI

*Fusarium* sp. — Fusarium crown, stem and petiole rot

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Exacum affine* (Persian Violet)**

FUNGI

*Botrytis cinerea* — Botrytis blight *Botrytis* sp. — Botrytis blight *Pythium* sp. — Pythium root rot

***Exacum* sp. (Exacum)**

FUNGI

*Botrytis cinerea* — Botrytis blight *Botrytis* sp. — Botrytis blight *Sclerotium rolfsii* — Basal stem rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

**GERANIACEAE**

***Geranium* sp. (True Geranium, Cranesbill)**

BACTERIA

*Erwinia cypripedii* — Bacterial soft rot

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

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt *Xanthomonas campestris* — Bacterial blight, Bacterial leaf spot

*Xanthomonas* sp. — Bacterial blight

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis cinerea* — Botrytis blight, Gray mold *Botrytis* sp. — Botrytis blight, Gray mold *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Fusarium* sp. — Fusarium stem and root rot

*Peronospora* sp. — Downy mildew *Phoma* sp. — Phoma leaf spot *Phytophthora* sp. — Phytophthora root rot *Puccinia pelargonii* — Rust

*Puccinia pelargonii-zonalis —* Rust

*Pythium* sp. — Pythium root and stem rot, Black leg

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Paratrichodorus* sp. — Stubby root nematode

VIRUSES

*Alfamovirus* — *Alfalfa mosaic virus*

***Pelargonium peltatum* (Ivy Geranium)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

***Pelargonium* sp. (Geranium)**

BACTERIA

*Enterobacter* sp. — Bacterial stem rot *Pseudomonas syringae* pv. *aptata* — Bacterial blight

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Pythium sp. — Pythium root and crown rot*

**GESNERIACEAE**

***Achimenes* sp. (Japanese Pansy)**

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Aeschynanthus* sp. (Basket Plant, Lipstick Plant)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Rhizoctonia* sp. — Rhizoctonia root rot

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Episcia* sp. (Flame Violet)**

FUNGI

*Pythium* sp. — Pythium root rot

***Gloxinia* sp. (Gloxinia)**

FUNGI

*Pythium* sp. — Pythium root rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

***Kohleria* sp. (Tree Gloxinia)**

FUNGI

*Pyricularia grisea* — Gray leaf spot

***Saintpaulia* sp. (African Violet)**

FUNGI

*Botrytis* sp. — Botrytis blight, Gray mold

*Fusarium* sp. — Fusarium wilt

*Oidium* sp. — Powdery mildew

*Phytophthora* sp. — Phytophthora crown rot *Pythium* sp. — Pythium root, crown and leaf rot, Damping off

**GINKGOACEAE**

***Ginkgo biloba* (Ginkgo)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root and crown rot

*Rhizoctonia* sp. — Rhizoctonia root rot

**GROSSULARIACEAE**

***Escallonia* sp. (Escallonia)**

FUNGI

*Phomopsis* sp. — Phomopsis dieback

**HAMAMELIDACEAE**

***Distylium myricoides* (Myrtle-leafed Distylium**) BACTERIA

*Pseudomonas syringae* — Bacterial canker

***Fothergilla* sp. (Fothergilla)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Fothergilla gardenii* (Witch Alder, Fothergilla)**

FUNGI

*Phytophthora* sp. — Phytophthora crown, root, and stem rot

***Liquidambar styraciflua* (Sweetgum)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Actinopelte dryina* — Actinopelte leaf spot

*Actinopelte* sp. — Actinopelte leaf spot

*Botryosphaeria dothidea* — Botryosphaeria dieback

*Botryosphaeria ribis* — Botryosphaeria canker and dieback

*Botryosphaeria* sp. — Botryosphaeria dieback

*Discula* sp — Anthracnose

*Entomosporium mespili* — Entomosporium leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot *Septoria* sp. — Septoria leaf spot *Tubakia dryina* — Red leaf spot

***Loropetalum chinense* (Chinese Fringe-flower)**

BACTERIA

*Pseudomonas syringae* pv. *savastanoi* — Bacterial gall

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryodiplodia* sp. — Botryodiplodia dieback *Botryosphaeria* sp. — Botryosphaeria canker *Cercospora* sp. — Cercospora leaf spot *Diplodia* sp. — Diplodia dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

***Loropetalum* sp. (Loropetalum)**

ALGAE

*Cephaleuros* sp. — Algal leaf spot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback *Phytophthora* sp. — Phytophthora root rot *Rhizoctonia* sp. — Rhizoctonia root rot

**ILLICIACEAE**

***Illicium floridanum* (Florida Anise Tree)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Illicium henryi* (Henry’s Anise Tree)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Illicium* sp. (Anise Tree)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

*Rhizoctonia* sp. — Web blight

**IRIDACEAE**

***Belamcanda chinensis* (Blackberry Lily)**

FUNGI

*Pythium* sp. — Pythium root rot

***Belamcanda* sp. (Belamcanda, Blackberry Lily)**

FUNGI

*Pythium* sp. — Pythium root rot

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Crocosmia* sp. (Montebretia)**

FUNGI

*Fusarium* sp. — Fusarium crown rot

***Gladiolus* sp. (Gladiolus)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Curvularia trifolii* — Curvularia leaf spot *Curvularia* sp. — Curvularia leaf spot *Fusarium* sp. — Fusarium corm rot *Penicillium gladioli* — Corm rot *Penicillium* sp. — Corm rot

*Pythium* sp. — Pythium root rot

VIRUSES

*Cucumovirus* — *Cucumber mosaic virus Potyvirus* — *Bean yellow mosaic virus*

***Iris cristata* (Crested Iris)**

FUNGI

*Colletotrichum acutatum* — Anthracnose

***Iris* x *germanica* (Bearded Iris)**

BACTERIA

*Erwinia* sp. — Bacterial soft rot

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium rhizome rot

***Iris sibirica* (Siberian Iris)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Phytophthora* sp. — Phytophthora root rot

#### *Iris* sp. (Bearded Iris, German Bearded Iris)

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium corm rot, Fusarium basal rot

*Heterosporium iridis* — Iris leaf spot *Heterosporium* sp. — Iris leaf spot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii* — Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Iris* sp. (Iris)**

BACTERIA

*Erwinia carotovora* — Bacterial soft rot

*Erwinia chrysanthemi* — Bacterial soft rot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis* sp. — Botrytis blight, Gray mold *Cladosporium iridis* — Iris leaf spot *Colletotrichum* sp. — Anthracnose *Didymellina macrospora* — Iris leaf spot *Didymellina* sp. — Iris leaf spot *Drechslera* sp. — Drechslera leaf spot

*Fusarium* sp. — Fusarium basal, crown and root rot

*Heterosporium iridis* — Iris leaf spot, Heterosporium leaf spot *Heterosporium* sp. — Iris leaf spot, Heterosporium leaf spot

*Mycosphaerella macrospora* — Iris leaf spot

*Penicillium* sp. — Blue mold

*Puccinia iridis* — Rust

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii* — Southern blight

NEMATODES

*Criconemella* sp. — Ring nematode *Hoplolaimus columbus* — Columbia lance nematode

*Hoplolaimus* sp. — Lance nematode

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Potyvirus* — *Iris fulva mosaic virus Potyvirus* — *Iris mosaic virus*

**JUGLANDACEAE**

***Carya glabra* (Pignut Hickory)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

***Carya illinoinensis* (Pecan)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Agrobacterium* sp. — Crown gall

FUNGI

*Armillaria* sp. — Clitocybe root rot, Armillaria root rot

*Botryosphaeria* sp. — Botryosphaeria dieback *Cephalothecium roseum* — Pink mold *Cercospora fusca* — Brown leaf spot *Cladosporium caryigenum* — Scab *Cladosporium effusum* — Scab

*Cladosporium* sp. — Scab

*Colletotrichum gloeosporioides* — Anthracnose *Colletotrichum* sp. — Anthracnose, Shuck disease *Diplodia* sp. — Diplodia leaf spot

*Fusarium* sp. — Fusarium root rot *Fusicladium effusum* — Scab *Gloeosporium* sp. — Anthracnose

*Gnomonia* sp. — Anthracnose, Gnomonia leaf spot

*Gnomonia caryae* — Liver spot *Helminthosporium* sp. — Helminthosporium leaf spot

*Microsphaera alni* — Powdery mildew *Microsphaera* sp. — Powdery mildew *Mycosphaerella carigena* — Downy spot *Mycosphaerella dendroides* — Mycosphaerella leaf blight

*Mycosphaerella* sp. — Downy spot *Nematospora* sp. — Kernal spot, Stigmatomycosis

*Pestalotia* sp. — Pestalotia leaf spot *Phellinus* sp. — Wood decay *Phomopsis* sp. — Phomopsis leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora* sp. — Phytophthora shuck rot *Pleurotus ostreatus* — Wood decay *Pythium* sp. — Pythium root rot *Sphaerotheca* sp. — Powdery mildew

NEMATODES

*Belonolaimus* sp. — Sting nematode

*Xiphinema* sp. — Dagger nematode

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Carya* sp. (Hickory)**

FUNGI

*Apiognomonia* sp. — Anthracnose

*Colletotrichum* sp. — Anthracnose

*Microstroma juglandis* — Microstroma leaf spot

*Polyporus* sp. — Heart rot

*Tubakia dryina* — Tubakia leaf spot

***Juglans nigra* (Black Walnut)**

FUNGI

*Cylindrosporium juglandis —* Walnut leaf spot

*Marssonina* sp. — Leaf spot

***Juglans regia* (English Walnut)**

FUNGI

*Gnomonia leptostyla* — Gnomonia leaf blotch

*Phyllosticta* sp. — Phyllosticta leaf spot

***Juglans* sp. (Walnut)**

FUNGI

*Fusarium* sp. — Fusarium stem rot

**LAMIACEAE**

***Agastache foeniculum* (Anise Hyssop)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Agastache* sp. (Giant Hyssop)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Ajuga reptans* (Carpet Bugleweed)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia crown and root rot

*Sclerotium rolfsii* — Southern blight

***Ajuga* sp. (Bugleweed)**

FUNGI

*Colletotrichum* sp. — Anthracnose, Leaf spot

*Phoma* sp. — Phoma leaf blight

*Phytophthora cinnamomi* — Phytophthora root and crown rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium crown, root and petiole rot

*Rhizoctonia* sp. — Rhizoctonia crown and root rot *Sclerotium delphinii* — Sclerotium crown rot *Sclerotium rolfsii* — Southern blight

*Sclerotium* sp. — Sclerotium crown rot, Southern blight

*Stemphylium* sp. — Stemphylium leaf spot

***Calamintha grandiflora* (Calamint)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Coleus blumei* (Coleus)**

FUNGI

*Peronospora* sp. — Downy mildew

***Coleus* sp. (Coleus)**

FUNGI

*Botrytis cinerea* — Botrytis blight *Peronospora* sp. — Downy mildew *Pythium* sp. — Pythium root and stem rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Conradina canescens* (Conradina)**

FUNGI

*Fusarium* sp. — Fusarium root rot

*Phytophthora parasitica* — Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia solani* — Rhizoctonia root rot

***Lamiastrum* sp. (Lamiastrum)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Phytophthora* sp. — Phytophthora root and stem rot

*Pythium* sp. — Pythium root rot

***Lamium amplexicaule* (Henbit)**

FUNGI

*Oidium* sp. — Powdery mildew

***Lamium maculatum* (Spotted Dead Nettle)**

FUNGI

*Phytophthora nicotianae* — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia stem rot

***Lamium* sp. (Lamium)**

FUNGI

*Myrothecium roridum* — Myrothecium stem rot

***Lavandula angustifolia* (English Lavender)**

FUNGI

*Phytophthora parasitica* — Phytophthora root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

*Septoria lavandulae* — Septoria leaf spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Lavandula* sp. (Lavender)**

BACTERIA

*Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Botrytis cinerea* — Botrytis blight

*Fusarium* sp. — Fusarium wilt

*Phytophthora parasitica* — Phytophthora root rot *Phytophthora* sp. — Phytophthora stem and root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Macbridea alba* (White Birds-in-a-Nest)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot and stem blight

*Oidium* sp. — Powdery mildew *Phoma* sp. — Black leg *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Macbridea caroliniana* (Carolina Birds-in-a- Nest)**

***Monarda didyma* (Bee Balm)**

FUNGI

*Myrothecium* sp. — Myrothecium leaf spot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Monarda* sp. (Bee Balm)**

BACTERIA

*Pseudomonas syringae* — Bacterial blight

FUNGI

*Oidium* sp. — Powdery mildew

*Phytophthora* sp. — Phytophthora root rot

VIRUSES

FUNGI

*Colletotrichum* sp. — Anthracnose

***Mentha* x *piperita* (Peppermint)**

FUNGI

*Rhizoctonia* sp. — Web blight

***Mentha pulegium* (Pennyroyal)**

FUNGI

*Phytophthora parasitica* — Phytophthora root rot

*Pythium* sp. — Pythium root rot

***Mentha spicata* (Spearmint)**

*Tospovirus* — *Impatiens necrotic spot virus*

***Nepeta cataria* (Catnip)**

FUNGI

*Phytophthora cinnamoni* — Phytophthora root rot

***Nepeta* sp. (Catmint)**

FUNGI

*Pythium* sp. — Pythium root rot

***Ocimum basilicum* (Sweet Basil)**

FUNGI

*Puccinia* sp. — Rust

***Mentha* sp. (Mint)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis cinerea* — Botrytis blight *Colletotrichum* sp. — Colletotrichum leaf spot *Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium wilt

*Peronospora belbahrii* — Downy mildew

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Ocimum* sp. (Basil)**

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Botrytis* sp. — Botrytis blight *Fusarium oxysporum* — Fusarium wilt *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Aphelenchoides fragariae* — Foliar nematode

*Meloidogyne* sp. — Root-knot nematode

***Origanum majorana* (Sweet Marjoram)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia aerial blight

***Origanum* sp. (Oregano)**

FUNGI

*Botrytis cinerea* — Botrytis leaf spot

*Fusarium* sp. — Fusarium root rot

*Rhizoctonia* sp. — Rhizoctonia aerial blight, Stem rot

***Perovskia atriplicifolia* (Perovskia, Russian Sage)**

FUNGI

*Botrytis* sp. — Botrytis blight

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora cinnamomi* — Phytophthora crown and root rot

*Phytophthora* sp. — Phytophthora stem rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Perovskia* sp. (Russian Sage)**

FUNGI

*Phomopsis* sp. — Phomopsis stem canker

*Phytophthora nicotianae* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot, Stem canker

*Pythium* sp. — Pythium root rot

***Physostegia* sp. (Obedient Plant)**

FUNGI

*Sclerotium rolfsii* — Southern blight

***Plectranthus* sp. (Swedish Ivy)**

FUNGI

*Pythium splendens —* Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Rosmarinus officinalis* (Rosemary)**

FUNGI

*Botrytis cinerea* — Botrytis stem rot *Exserohilum* sp. — Exserohilum leaf spot *Phytophthora nicotianae* — Phytophthora crown and root rot

***Rosmarinus* sp. (Rosemary)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

FUNGI

*Botrytis cinerea* — Gray mold *Fusarium* sp. — Fusarium root rot *Oidium* sp. — Powdery mildew *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia aerial blight; Root and stem rot; Web blight

***Salvia elegans* (Pineapple Sage)**

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia stem rot

***Salvia farinacea* (Mealycup Sage)**

FUNGI

*Sclerotinia sclerotiorum* — White mold

***Salvia nemorosa* (Woodland Sage)**

FUNGI

*Thielaviopsis basicola* — Black root rot

*Botrytis* sp. — Botrytis blight

***Salvia officinalis* (Garden Sage)**

FUNGI

*Pythium* sp. — Pythium root rot

***Salvia purpurea* (Sage)**

FUNGI

*Phytophthora* sp. — Phytophthora root and crown rot

***Salvia splendens* (Scarlet Sage)**

FUNGI

*Peronospora* sp. — Downy mildew

***Salvia* x *superba* (Salvia)**

BACTERIA

*Pseudomonas cichorii* — Bacterial leaf necrosis *Pseudomonas syringae* — Bacterial leaf necrosis *Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Macrophomina* sp. — Charcoal rot

*Oidium* sp. — Powdery mildew

*Phytophthora nicotianae* — Phytophthora root rot *Rhizoctonia* sp. — Damping off, Root rot, Web blight

*Sclerotium rolfsii* — Southern blight

***Salvia viridis* (Annual Clary Sage)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

***Salvia* sp. (Sage, Salvia)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall *Pseudomonas syringae* — Bacterial blight *Pseudomonas syringae* pv. *maculicola* — Bacterial leaf spot

*Pseudomonas* sp. — Bacterial stem rot

*Xanthomonas* sp. — Bacterial blight

FUNGI

*Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium root rot *Macrophomina* sp. — Charcoal rot

*Myrothecium roridum* — Myrothecium stem rot *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora root rot *Phytophthora nicotianae* var. *nicotianae* — Phytophthora crown and root rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium root, crown and stem rot *Rhizoctonia* sp. — Rhizoctonia crown, leaf, root and stem rot, Damping off, Foliar blight, Web blight

*Sclerotinia sclerotiorum* — White mold, Stem rot

*Thielaviopsis basicola* — Black root rot

NEMATODES

*Criconemella* sp. — Ring nematode

*Meloidogyne* sp. — Root-knot nematode

***Solenostemon scutellarioides* (Coleus)**

FUNGI

*Pythium* sp. — Pythium root rot

***Stachys* sp. (Lamb's Ears)**

FUNGI

*Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Meloidogyne incognita* — Root-knot nematode

***Teucrium chamaedrys* (Germander)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Thymus* sp. (Thyme)**

FUNGI

*Fusarium* sp. — Fusarium root rot

*Rhizoctonia* sp. — Rhizoctonia stem blight

***Trichostema dichotomum* (Forked Blue Curls)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia stem rot

**LAURACEAE**

***Laurus nobilis* (Sweet Bay)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Colletotrichum* sp. — Anthracnose *Phomopsis* sp. — Phomopsis canker *Phytophthora* sp. — Phytophthora root rot

***Lindera melissifolia* (Southern Spicebush)**

FUNGI

*Phomopsis* sp. — Phomopsis leaf spot

***Lindera* sp. (Spicebush)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

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

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria dieback

*Raffaelea lauricola* — Laurel wilt

*Septobasidium* sp. — Brown felt fungus

***Persea* sp. (Avocado)**

FUNGI

*Colletotrichum* sp. — Colletotrichum fruit rot

*Dothiorella* sp. — Dothiorella fruit rot

***Sassafras* sp. (Sassafras)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

**LILIACEAE**

***Agapanthus* sp. (African Lily, Lily of the Nile)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium crown rot *Phoma* sp. — Phoma leaf spot

*Phytophthora nicotianae —* Phytophthora root rot

*Rhizoctonia* sp. *—* Rhizoctonia root rot

***Allium giganteum* (Ornamental Onion)**

FUNGI

*Pythium* sp. — Pythium root rot

***Allium sativum* (Garlic)**

FUNGI

*Embellisia alli* — Garlic skin blotch *Fusarium* sp. — Fusarium basal rot *Phyllosticta* sp. — Phyllosticta leaf spot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium cepivorum —* Southern blight

***Allium* sp. (Onion)**

BACTERIA

*Erwinia* sp. — Soft rot

FUNGI

*Alternaria porri —* Purple blotch *Alternaria* sp. — Purple blotch *Botrytis* sp. — Botrytis blight

*Cladosporium allii —* Cladosporium leaf spot *Colletotrichum circinans —* Basal sheath rot *Fusarium* sp. — Fusarium basal plate and root rot

*Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotinia sclerotiorum —* Sclerotinia rot *Sclerotium cepivorum —* White rot *Sclerotium rolfsii —* Southern blight *Stemphylium botryosum —* Black stalk rot, Stemphylium leaf blight

*Stemphylium* sp. — Stemphylium leaf blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Alstroemeria* sp. (Peruvian Lily)**

FUNGI

*Pythium* sp. — Pythium root rot

***Amaryllis* sp. (Amaryllis)**

FUNGI

*Stagonospora curtisii —* Red blotch, Leaf scorch

*Stagonospora* sp. — Red blotch

VIRUSES

*Tospovirus — Impatiens necrotic spot virus Tospovirus — Tomato spotted wilt virus*

***Clivia* sp. (Kaffir Lily)**

FUNGI

*Fusarium* sp. — Fusarium leaf spot

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

BACTERIA

*Erwinia* sp. — Bacterial soft rot

FUNGI

*Aureobasidium microstichum* — Daylily leaf streak

*Botrytis cinerea* — Botrytis crown rot *Botrytis* sp. — Botrytis blight *Cephalosporium* sp. — Leaf spot *Cercospora* sp. — Leaf scorch

*Collecephalus hemerocalli* — Daylily leaf streak *Collecephalus* sp. — Daylily leaf streak *Colletotrichum* sp. — Anthracnose, Leaf scorch *Fusarium* sp. — Fusarium crown, leaf and root rot *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora citrophthora* — Phytophthora crown rot

*Phytophthora nicotianae* — Phytophthora crown and root rot

*Phytophthora* sp. — Phytophthora root, crown and stem rot

*Puccinia hemerocallidis* — Daylily rust

*Puccinia* sp. — Daylily rust

*Pythium* sp. — Pythium crown and root rot *Rhizoctonia solani* — Rhizoctonia crown rot *Rhizoctonia* sp. — Rhizoctonia petiole, crown and root rot

NEMATODES

*Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne* sp. — Root-knot nematode

***Hosta albomarginata* (Seersucker Plantain Lily)**

FUNGI

*Fusarium* sp. — Fusarium leaf and root rot *Phytophthora nicotianae* — Phytophthora root rot *Pythium* sp. — Pythium root rot

***Hosta fortunei* (Hosta)**

FUNGI

*Botrytis cinerea* — Botrytis blight

*Colletotrichum* sp. — Anthracnose

***Hosta sieboldiana* (Hosta)**

FUNGI

*Pythium* sp. — Pythium root rot

VIRUSES

*Potexvirus* — *Hosta virus x*

*Sclerotium rolfsii* — Southern blight

NEMATODES

*Aphelenchoides fragariae* — Foliar nematode *Aphelenchoides* sp. — Foliar nematode *Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Nepovirus* — *Arabis mosaic virus Potexvirus* — *Hosta virus x*

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

***Kniphofia* sp. (Red Hot Poker)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot *Phytophthora* sp. — Phytophthora leaf spot *Pythium* sp. — Pythium root rot

***Lilium asiaticum* (Asiatic Lily)**

***Hosta* sp. (Hosta)**

BACTERIA

FUNGI

*Botrytis elliptica* — Botrytis blight

*Pythium* sp. — Pythium root rot

*Erwinia carotovora* — Bacterial blight

*Erwinia* sp. — Bacterial blight

*Pseudomonas aerugonisa* — Bacterial leaf spot

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis* sp. — Botrytis crown rot *Cercospora* sp. — Cercospora leaf spot

*Cladosporium* sp. — Cladosporium leaf mold *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot and petiole rot *Fusarium hostae* — Fusarium root and crown rot *Fusarium* sp. — Fusarium crown, leaf, petiole, root and stem rot

*Macrophoma* sp. — Macrophoma leaf spot

*Phoma* sp. — Phoma blight

*Phytophthora nicotianae* — Phytophthora root and stem rot, Phytophthora blight

*Phytophthora* sp. — Phytophthora crown and root rot, Foliar blight

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia crown and root rot

***Lilium longiflorum* (Easter Lily)**

FUNGI

*Fusarium* sp. — Fusarium stem rot

*Pythium* sp. — Pythium root rot

***Lilium* sp. (Lily)**

FUNGI

*Botrytis cinerea* — Botrytis blight

*Botrytis elliptica* — Botrytis blight *Phytophthora* sp. — Phytophthora root and stem rot

*Pythium* sp. — Pythium root and stem rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

***Narcissus* sp. (Daffodil)**

FUNGI

*Fusarium* sp. — Fusarium bulb rot

***Trillium* sp. (Trillium)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Sclerotinia sclerotiorum* — White mold

***Tulbaghia violacea* (Society Garlic)**

BACTERIA

*Pseudomona syringae* pv*. syringae* — Bacterial blight

**LINACEAE**

***Linum* sp. (Flax)**

FUNGI

*Fusarium* sp. — Fusarium root and stem rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia stem rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

**LOGANIACEAE**

***Buddleia davidii* (Butterfly Bush)**

FUNGI

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Tulipa retroflexa* (Tulip)**

VIRUSES

*Potyvirus* — *Tulip breaking virus*

***Tulipa* sp. (Tulip, Triumph Tulip)**

FUNGI

*Botrytis tulipae* — Tulip fire

*Botrytis* sp. — Botrytis blight, Tulip fire *Fusarium* sp. — Fusarium basal rot *Penicillin* sp. — Blue mold

***Veratrum californicum* (False Hellebore)**

FUNGI

*Botrytis* sp. — Botrytis blight

*Pythium* sp. — Pythium root rot

*Botrytis* sp. — Botrytis blight

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Sclerotium rolfsii* — Southern blight

VIRUSES

*Alfamovirus* — *Alfalfa mosaic virus Cucumovirus* — *Cucumber mosaic virus Nepovirus* — *Tomato ringspot virus*

***Buddleia salviifolia* (Sage-leafed Butterfly Bush)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Buddleia* x *weyeriana* (Weyeriana Butterfly Bush)**

FUNGI

*Peronospora hariotii* — Downy mildew

***Buddleia* sp. (Butterfly Bush)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

*Peronospora* sp. — Downy mildew

*Phytophthora cinnamomi* — Phytophthora root and crown rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii* — Southern blight

NEMATODES

*Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode *Scutellonema* sp. — Spiral nematode

***Gelsemium* sp. (Carolina Jasmine)**

FUNGI

*Botrytis cinerea* — Botrytis blight

**LYTHRACEAE**

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

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Botrytis* sp. — Gray mold

*Cercospora* sp. — Cercospora leaf spot *Cristulariella moricola* — Zonate leaf spot *Cristulariella pyramidalis* — Zonate leaf spot *Cristulariella* sp. — Zonate leaf spot *Erysiphe lagerstroemiae* — Powdery mildew *Erysiphe* sp. — Powdery mildew

*Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium canker and dieback, Fusarium wilt

*Gloeosporium* sp. — Gloeosporium leaf spot

*Oidium* sp. — Powdery mildew

*Pestalotia* sp. — Pestalotia leaf tip blight *Pestalotiopsis* sp. — Pestalotiopsis leaf spot *Phomopsis* sp. — Phomopsis dieback *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

**MAGNOLIACEAE**

***Liriodendron tulipifera* (Tuliptree)**

FUNGI

*Erysiphe liriodendri* — Powdery mildew *Myxosporium* sp. — Myxosporium dieback *Phaeoisariopsis* sp. — Phaeoisariopsis leaf spot

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

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Ascochyta* sp. — Ascochyta leaf spot *Botryosphaeria* sp. — Botryosphaeria canker *Colletotrichum* sp. — Anthracnose

*Diplodia* sp. — Diplodia dieback and canker *Pestalotiopsis* sp. — Pestalotiopsis leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

*Thielaviopsis* sp. — Black root rot

***Magnolia macrophylla* (Bigleaf Magnolia)**

FUNGI

*Oidium* sp. — Powdery mildew

***Magnolia sieboldii* (Magnolia)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Magnolia* x *soulangiana* (Saucer Magnolia)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback and canker, Leaf spot

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Dothiorella* sp. — Dothiorella leaf spot *Fusarium* sp. — Fusarium cutting rot *Microsphaera alni* — Powdery mildew

*Oidium* sp. — Powdery mildew

*Phytophthora* sp. — Phytophthora root rot

NEMATODES

*Criconemella* sp. — Ring nematode

*Scutellonema* sp. — Spiral nematode

***Magnolia stellata* (Star Magnolia)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker, Leaf spot

*Colletotrichum* sp. — Anthracnose *Oidium* sp. — Powdery mildew *Phompsis* sp. — Phomopsis leaf spot

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

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Colletotrichum* sp. — Anthracnose

*Meliola* sp. — Black mildew

LICHENS

*Strigula* sp. — Lichenized algal leaf spot

***Magnolia* sp. (Magnolia, Asian Magnolia)**

ALGAE

*Cephaleuros virescens* — Algal leaf spot

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria dothidea* — Botryosphaeria canker

*Botryosphaeria* sp. — Botryosphaeria dieback *Botrytis cinerea* — Botrytis blight *Cercospora* sp. — Cercospora leaf spot

*Cercosporidium* sp. — Cercosporidium leaf spot

*Colletotrichum* sp. — Anthracnose

*Coniothyrium* sp. — Coniothyrium leaf spot *Cylindrocladium* sp. — Cylindrocladium root rot *Gloeosporium* sp. — Anthracnose

*Glomerella cingulata* — Leaf spot *Oidium* sp. — Powdery mildew *Pestalotia* sp. — Pestalotia canker

*Phomopsis* sp. — Phomopsis dieback, Leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora blight, Root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot *Sphaceloma* sp. — Sphaceloma leaf spot *Sphaeropsis* sp. — Sphaeropsis leaf spot

NEMATODES

*Criconemella* sp. — Ring nematode

***Michelia figo* (Banana Shrub)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

FUNGI

*Colletotrichum* sp. — Anthracnose

*Pythium* sp. — Pythium root rot

**MALVACEAE**

***Abelmoschus esculentus* (Okra)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Choanephora* sp. — Blossom blight *Diaporthe* sp. — Pod blight

*Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium wilt, Root and stem rot, Fusarium pod rot

*Gloeosporium* sp. — Anthracnose

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root and stem rot

*Pythium* sp. — Pythium root and stem rot, Damping off

*Rhizoctonia solani* — Rhizoctonia root rot *Rhizoctonia* sp. — Rhizoctonia root and stem rot, Damping off

*Thielaviopsis basicola* — Black root rot

*Verticillium* sp. — Verticillium wilt

NEMATODES

*Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Scutellonema* sp. — Spiral nematode

***Abutilon* sp. (Flowering Maple)**

VIRUSES

*Bigeminivirus* — *Abutilon mosaic virus*

***Alcea fastigiata* (Hollyhock)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot *Puccinia malvacearum* — Mallow rust, Hollyhock rust

***Alcea rosea* (Hollyhock)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora* sp. — Cercospora leaf spot *Puccinia malvacearum* — Hollyhock rust *Puccinia* sp. — Stem rust

***Althaea* sp. (Althaea)**

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Anoda cristata* (Spurred Anoda)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Colletotrichum* sp. — Leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Puccinia heterospora* — Rust

***Gossypium* sp. (Cotton)**

FUNGI

*Alternaria macrospora* — Leaf spot *Alternaria tenius* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Ascochyta* sp. — Ascochyta blight, Leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora gossypina* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Boll rot

*Colletotrichum* sp. — Anthracnose

*Corynespora cassicola* — Corynespora leaf spot

*Diplodia* sp. — Boll rot

*Fusarium moniliforme* — Fusarium root rot *Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium stem and root rot, Fusarium wilt, Damping off

*Macrophomina phaseoli* — Charcoal rot *Macrophomina* sp. — Charcoal rot *Phoma* sp. — Wet weather blight

*Phomopsis* sp. — Phomopsis stem rot, Leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root rot, Damping off *Rhizoctonia solani* — Rhizoctonia stem rot, Damping off

*Rhizoctonia* sp. — Rhizoctonia crown, root and stem rot, Damping off

*Sclerotium rolfsii* — Southern blight *Stemphylium* sp. — Stemphylium leaf spot *Thielaviopsis basicola* — Black root rot *Verticillium* sp. — Verticillium wilt

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus columbus* — Columbia lance nematode

*Hoplolaimus* sp. — Lance nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Rotylenchulus reniformis* — Reniform nematode *Rotylenchulus* sp. — Reniform nematode *Scutellonema* sp. — Spiral nematode

***Hibiscus cannabinus* (Kenaf)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Colletotrichum* sp. — Anthracnose *Cristulariella moricola* — Zonate leaf spot *Fusarium* sp. — Fusarium root rot *Macrophomina phaseoli* — Charcoal rot *Phomopsis* sp. — Phomopsis canker *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

*Sclerotium rolfsii* — Southern blight

***Hibiscus moscheutos* (Mallow Rose)**

FUNGI

*Fusarium oxysporum* — Fusarium wilt

*Phytophthora parasitica* — Phytophthora root rot

***Hibiscus mutabilis* (Confederate Rose)**

FUNGI

*Alternaria alternata* — Alternaria leaf spot

***Hibiscus syriacus* (Rose-of-Sharon)**

FUNGI

Kuehneola malvicola — Hibiscus rust

***Hibiscus* sp. (Hibiscus)**

BACTERIA

*Pseudomonas cichorii* — Bacterial leaf spot *Pseudomonas syringae* — Bacterial leaf spot *Xanthamonas campestris* — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Colletotrichum* sp. — Colletotrichum canker and dieback, Stem rot

*Fusarium* sp. — Fusarium stem rot *Gloeosporium* sp. — Black leaf spot *Macrophomina phaseoli* — Charcoal rot *Phoma* sp. — Phoma leaf spot *Phomopsis* sp. — Phomopsis leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora nicotianae* — Phytophthora root and crown rot

*Phytophthora parasitica* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root and stem rot, Stem blight

*Pythium* sp. — Pythium root rot *Rhizoctonia solani* — Rhizoctonia root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii* — Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Lavatera* sp. (Tree Mallow)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii* — Southern blight

***Sidalcea* sp. (Checkerbloom)**

FUNGI

*Puccinia* sp. — Rust

**MARANTACEAE**

***Calathea* sp. (Calathea)**

FUNGI

*Bipolaris* sp. — Bipolaris leaf spot *Helminthosporium* sp. — Helminthosporium leaf spot

**MELASTOMATACEAE**

***Tibouchina* sp. (Glory Bush)**

FUNGI

*Thielaviopsis basicola* — Black root rot

**MORACEAE**

***Ficus benjamina* (Weeping Fig)**

BACTERIA

*Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Phomopsis* sp. — Phomopsis dieback

*Pythium splendens* — Pythium root rot

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

FUNGI

*Colletotrichum gloeosporioides* — Anthracnose fruit rot, Colletotrichum leaf spot

***Ficus elastica* (Rubber Plant)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Colletotrichum* sp. — Anthracnose *Pestalotia* sp. — Pestalotia leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot

***Ficus pumila* (Climbing Fig)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

*Colletotrichum* sp. — Anthracnose

*Sclerotium rolfsii* — Southern blight

*Gloeosporium* sp. — Anthracnose, Anthracnose fruit rot

*Macrophoma fici* — Macrophoma dieback *Nectriella pironii* — Nectriella gall *Pellicularia* sp. — Thread blight *Phomopsis* sp. — Phomopsis dieback *Physopella fici* — Rust

*Phytophthora* sp. — Phytophthora fruit rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Web blight

NEMATODES

*Belonolaimus* sp. — Sting nematode

*Meloidogyne* sp. — Root-knot nematode

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

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Cercosporella* sp. — Cercosporella leaf spot *Ciboria carunculoides* — Popcorn disease *Cylindrosporium* sp. — Cylindrosporium leaf spot *Pseudocercosporella* sp. — Pseudocercosporella leaf spot

**MUSACEAE**

***Musa balbisiana* (Banana)**

FUNGI

***Ficus* sp. (Fig)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

**MYRICACEAE**

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Botrytis* sp. — Botrytis fruit rot

*Cercospora bolleana* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Cerotelium fici* — Rust

*Colletotrichum* sp. — Anthracnose *Corticium salmonicolor* — Web blight *Corticium* sp. — Corticium blight

*Diplodia* sp. — Diplodia canker and dieback

***Myrica cerifera* (Wax Myrtle)**

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria canker, stem blight, and dieback

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Coniothyrium* sp. *—* Coniothyrium canker *Fusarium* sp. — Fusarium canker, Fusarium root rot

*Gloeosporium* sp. — Anthracnose, Gloeosporium leaf spot

*Pestalotia* sp. — Pestalotia leaf spot

*Phomopsis* sp. — Phomopsis dieback and canker *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root and crown rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Septoria myricae* — Septoria leaf spot *Septoria* sp. — Septoria leaf spot

*Sphaeropsis tumefaciens* — Stem gall, Witches broom

***Myrica* sp. (Wax Myrtle)**

FUNGI

*Phomopsis* sp. — Phomopsis leaf spot

**MYRSINACEAE**

***Ardisia japonica* (Japanese Ardisia)**

FUNGI

*Fusarium* sp. — Fusarium root rot

*Phyllosticta* sp. — Phyllosticta leaf spot

**MYRTACEAE**

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

FUNGI

*Armillaria* sp. — Armillaria root rot *Fusicoccum* sp. — Fusicoccum dieback *Puccinia psidii* — Guava rust

***Eucalyptus pulverulenta* (Eucalyptus, Money Tree)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

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

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria dieback, Twig dieback

*Botrytis cinerea* — Gray mold *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Cylindrocladium* sp. — Cylindrocladium leaf spot

*Gloeosporium* sp. — Anthracnose *Macrophoma* sp. — Macrophoma leaf spot *Pestalotia* sp. — Pestalotia leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot

NEMATODES

*Tylenchorhynchus* sp. — Stunt nematode

***Feijoa sellowiana* (Pineapple Guava)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Feijoa* sp. (Feijoa)**

FUNGI

*Pestalotiopsis* sp. — Pestalotiopsis leaf necrosis

**NYCTAGINACEAE**

***Bougainvillea* sp. (Bougainvillea)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

**NYMPHAEACEAE**

***Nymphaea odorata* (Pond Lily)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

**OLEACEAE**

***Chionanthus retusus* (Chinese Fringe Tree)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback, canker, and twig blight

*Passalora* sp. — Passalora leaf spot

*Phytophthora nicotianae* — Phytophthora root rot

***Chionanthus virginicus* (Fringe Tree)**

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria dieback

***Chionanthus* sp. (Fringe Tree)**

FUNGI

*Phyllactinia* sp. — Powdery mildew

***Forsythia* x *intermedia* (Golden-bells)**

FUNGI

*Phytophthora parasitica* — Phytophthora root rot

***Forsythia* sp. (Golden-bells)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Agrobacterium* sp. — Crown gall

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker and dieback, Cane blight

*Cercospora* sp. — Cercospora leaf spot

*Colletotrichum* sp. — Anthracnose

*Phomopsis* sp. — Phomopsis gall *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

*Sclerotium rolfsii* — Southern blight

***Fraxinus pennsylvanica* (Green Ash)**

FUNGI

*Gloeosporium* sp. — Anthracnose

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

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Cercospora* sp. — Cercospora leaf spot *Discula* sp. — Anthracnose

*Discula fraxinea* — Anthracnose

*Gloeosporium aridum —* Gloeosporium leaf spot

*Gloeosporium* sp. — Gloeosporium leaf spot

***Jasminum floridum* (Showy Jasmine)**

FUNGI

*Nectria* sp. — Nectria canker

***Jasminum* sp. (Jasmine)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

***Ligustrum japonicum* (Curly Leaf Ligustrum, Japanese Privet)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Pseudocercospora* sp. — Pseudocercospora leaf spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Carlavirus* — *Ligustrum necrotic ringspot virus*

***Ligustrum lucidum* (Wax Leaf Ligustrum, Privet)**

*Phytophthora* sp. — Phytophthora root rot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

NEMATODES

*Criconemella* sp. — Ring nematode

*Meloidogyne* sp. — Root-knot nematode

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

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora* sp. — Cercospora leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Thread blight

***Ligustrum sinense* (Chinese Privet)**

FUNGI

*Armillaria* sp. — Armillaria root rot

***Ligustrum texanum* (Wax-leaf Privet)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

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

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Glomerella cingulata* — Anthracnose *Glomerella* sp. — Anthracnose *Microsphaera* sp. — Powdery mildew *Pestalotia* sp. — Pestalotia leaf spot *Phyllosticta sp*. — Phyllosticta leaf spot

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root rot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Corynespora* sp. — Corynespora leaf spot

***Olea europea* (Olive)**

FUNGI

*Colletotrichum* sp. — Anthracnose fruit rot

***Osmanthus* x *fortunei* (Fortunes Osmanthus)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback, canker, and twig blight

***Osmanthus fragrans* (Fragrant Tea Olive)**

FUNGI

*Armillaria tabescens* — Armillaria root rot, Mushroom rot

*Botryosphaeria* sp. — Botryosphaeria dieback *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Coryneum japonicum* — Twig blight

*Fusarium* sp. — Fusarium root rot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Phytophthora* sp. — Phytophthora root rot

***Osmanthus heterophyllus* (Holly Osmanthus)**

FUNGI

*Phytophthora nicotianae* — Phytophthora blight and dieback

***Osmanthus* sp. (Tea Olive)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Phytophthora* sp. — Phytophthora root rot, Blight

*Pythium* sp. — Pythium root rot

***Sorbus americana* (American Mountain Ash)**

FUNGI

*Puccinia peridermiospora* — Rust

***Syringa vulgaris* (Lilac)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

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

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

FUNGI

*Botrytis* sp. — Botrytis blight *Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Leaf blotch *Microsphaera alni* — Powdery mildew

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora leaf blight, Root rot

*Pythium* sp. — Pythium root rot

**ONAGRACEAE**

***Fuchsia* sp. (Fuchsia)**

FUNGI

*Botrytis* sp. — Gray mold

*Pythium* sp. — Pythium root rot

***Gaura* sp. (Gaura)**

FUNGI

*Botrytis cinerea* — Botrytis blight *Phytophthora nicotianae* — Phytophthora crown rot

VIRUSES

*Tospovirus* — *Tomato spotted wilt virus*

***Oenothera biennis* (Evening Primrose)**

FUNGI

*Botrytis* sp. — Gray mold

*Pythium* sp. — Pythium root rot

***Oenothera* sp. (Evening Primrose)**

FUNGI

*Botrytis cinerea* — Botrytis blight *Phytophthora nicotinae* — Phytophthora crown and root rot

*Phytophthora* sp. — Phytophthora crown, root, and stem rot

*Rhizoctonia* sp. — Rhizoctonia crown and stem rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

**ORCHIDACEAE**

***Bletilla striata* (Chinese Ground Orchid)**

FUNGI

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

***Bletilla* sp. (Bletilla)**

FUNGI

*Pythium* sp. — Pythium root rot

***Cattleya heneritks* (Cattleya)**

VIRUSES

*Tobamovirus* — *Odontoglossum ringspot virus*

***Cattleya* sp. (Cattleya)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium rot

VIRUSES

*Potexvirus* — *Cymbidium mosaic virus Tospovirus* — *Impatiens necrotic spot virus*

***Dendrobium* sp. (Dendrobium)**

FUNGI

*Colletotrichum* sp. — Leaf spot

***Oncidium pubes* (Dancing Lady Orchid)**

VIRUSES

*Potexvirus* — *Cymbidium mosaic virus*

***Oncidium* sp. (Dancing Lady Orchid)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Oncidium* sp. (Orchid)**

FUNGI

*Botrytis* sp. — Gray mold

*Fusarium* sp. — Fusarium rot

***Phalaenopsis* sp. (Moth Orchid)**

BACTERIA

*Acidovorax avenae* subsp. *cattleyae* — Brown spot

*Erwinia chrysanthemi* — Bacterial soft rot

FUNGI

*Cercospora odontoglossi* — Cercospora leaf spot *Colletotrichum gloeosporioides* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium leaf spot

*Pythium* sp. — Pythium root rot, Pythium blight

*Rhizoctonia* sp. — Rhizoctonia root rot

VIRUSES

*Potexvirus* — *Cymbidium mosaic virus Tobamovirus* — *Tobacco mosaic virus*

***Vanda* sp. (Orchid)**

FUNGI

*Phyllosticta pyriformis* — Phyllosticta leaf spot

**OSMUNDACEAE**

***Osmunda regalis* (Royal Fern)**

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

**OXALIDACEAE**

***Oxalis braziliensis* (Shamrock)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Puccinia oxalidis* — Oxalis rust

***Oxalis regnellii* (Oxalis, Wood Sorrel)**

FUNGI

*Botrytis* sp. — Botrytis blight *Macrophomina phaseoli* — Ashy stem blight *Puccinia oxalidis —* Rust

***Oxalis* sp. (Oxalis)**

*Phytophthora* sp. — Phytophthora crown and root rot

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotinia* sp. — White mold *Thielaviopsis basicola* — Black root rot *Thielaviopsis paradoxa* — Black root rot

NEMATODES

FUNGI

*Puccinia oxalidis* — Rust

*Puccinia* sp. — Rust

*Pythium* sp. — Pythium root rot

**PAEONIACEAE**

***Paeonia lactiflora* (Peony)**

FUNGI

*Botrytis* sp. — Gray mold

*Fusarium* sp. — Fusarium crown rot

***Paeonia suffruticosa* (Tree Peony)**

FUNGI

*Discosia* sp. — Leaf spot

***Paeonia* sp. (Peony)**

BACTERIA

*Xanthomonas campestris* — Bacterial blight

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria* sp. — Botryosphaeria canker *Botrytis cinerea* — Botrytis blight

*Botrytis* sp. — Botrytis blight *Cercospora* sp. — Cercospora leaf spot *Cladosporium paeoniae —* Leaf blotch *Cladosporium* sp. — Leaf blotch *Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium crown rot *Pencillium* sp. — Rhizome rot

*Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora tip blight

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

**PAPAVERACEAE**

***Papaver* sp. (Poppy)**

BACTERIA

*Xanthomonas* sp. — Bacterial leaf spot

**PEDALIACEAE**

***Sesamum indicum* (Sesame)**

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

FUNGI

*Cercospora sesami* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Corynespora cassiicola* — Corynespora leaf spot

**PINACEAE**

***Abies* sp. (Fir)**

FUNGI

*Pythium* sp. — Pythium root rot

***Cedrus atlantica glauca* (Blue Atlas Cedar)**

FUNGI

***Picea glauca* var. *albertiana* (Dwarf Alberta Spruce)**

*Mycosphaerella dearnessii* — Brown spot, Needle blight

***Cedrus deodara* (Deodar Cedar)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Diplodia* sp. — Needle necrosis

*Kabatina* sp. — Kabatina needle blight *Macrophoma* sp. — Macrophoma dieback *Pestalotiopsis* sp. — Pestalotiopsis needle blight *Phomopsis* sp. — Phomopsis twig blight *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sphaeropsis sapinea* — Sphaeropsis canker *Sphaeropsis* sp. — Sphaeropsis dieback

NEMATODES

*Bursaphelenchus* sp. — Pinewood nematode

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

FUNGI

*Armillaria* sp. — Armillaria root rot *Cercospora thujina* — Cercospora needle blight *Gymnosporangium clavipes* — Rust *Gymnosporangium juniperi-virginianae* — Cedar-apple rust

*Kabatina juniperi* — Kabatina tip blight *Phomopsis* sp. — Phomopsis twig blight and dieback

*Pythium* sp. — Pythium root rot

***Picea abies* (Norway Spruce)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Phomopsis* sp. — Phomopsis blight

*Phytophthora* sp. — Phytophthora root rot

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot

***Picea glauca conica* (Dwarf Alberta Spruce)**

FUNGI

*Phomopsis* sp. — Phomopsis dieback, tip blight, and canker

***Picea pungens* (Blue Spruce)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Phomopsis* sp. — Phomopsis blight *Phytophthora* sp. — Phytophthora root rot *Rhizosphaera kalkhoffii* — Blue spruce needle cast

***Picea* sp. (Spruce)**

FUNGI

*Pestalotiopsis* sp. — Twig blight

***Pinus bungeana* (Lacebark Pine)**

FUNGI

*Sphaeropsis* sp. — Sphaeropsis dieback

***Pinus flexilis* (Limber Pine)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback, canker, and twig blight

***Pinus elliottii* (Slash Pine)**

FUNGI

*Cronartium* sp. — Fusiform rust

***Pinus mugo* (Mugo Pine)**

FUNGI

*Phytophthora cinnamomi* — Phytophthora root rot

*Sphaeropsis sapinea* — Diploidia blight

***Pinus nigra* (Austrian Pine)**

FUNGI

*Rhizosphaera* sp. — Rhizosphaera needle cast

***Pinus palustris* (Longleaf Pine)**

FUNGI

*Alternaria* sp. — Alternaria needle necrosis *Coleosporium* sp. — Pine needle rust *Cronartium quercuum* — Fusiform rust *Cylindrocladium* sp. — Cylindrocladium root rot *Diplodia pinea* — Diplodia tip blight

*Fusarium* sp. — Fusarium root rot

*Leptographium* sp. — Sap stain

*Lophodermium* sp. — Lophodermium needle cast *Pestalotiopsis* sp. — Pestalotiopsis needle blight *Scirrhia acicola* — Brown spot needle blight

***Pinus pungens* (Table Mountain Pine)**

FUNGI

*Lophodermium* sp. — Lophodermium needle cast

***Pinus strobus* (White Pine)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Fusarium* sp. — Pitch canker *Heterobasidion* sp. — White root rot

*Lophodermium* sp. — Lophodermium needle cast *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Trichaptum abietinum* — Sapwood rot

NEMATODES

*Bursaphelenchus* sp. — Pine wood nematode

***Pinus sylvestris* (Scotch Pine)**

FUNGI

*Rhizosphaera* sp. — Rhizosphaera needle cast

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

FUNGI

*Armillaria* sp. —Armillaria root rot *Botrytis* sp. — Botrytis blight *Coleosporium* sp. — Pine needle rust *Colletotrichum* sp. — Needle necrosis *Cronartium quercuum* f. sp. *fusiforme* — Fusiform rust

*Cronartium* sp. — Fusiform rust *Fusarium* sp. — Fusarium root rot *Ganoderma* sp. — Ganoderma root rot

*Heterobasidion annosum* — Annosus root rot *Leptographium* sp. — Leptographium root rot *Macrophomina phaseoli* — Charcoal rot *Phytophthora cinnamomi* — Phytophthora root rot

*Pythium* sp. — Pythium root rot *Rhizoctonia solani* — Rhizoctonia blight *Rhizoctonia* sp. — Rhizoctonia root rot

*Rhizosphaera* sp. — Rhizosphaera needle cast

*Sphaeropsis sapinea* — Sphaeropsis blight

***Pinus thunbergiana* (Japanese Black Pine)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Cenangium ferruginosum* — Dieback *Dothistroma* sp. — Dothistroma needle blight *Leptostroma* sp. — Lophodermium needle cast *Lophodermium pinastri* — Lophodermium needle cast

*Scirrhia acicola* — Brown spot needle blight

NEMATODES

*Bursaphelenchus xylophilus* — Pine wood nematode

***Pinus virginiana* (Virginia Pine)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker

*Fusarium* sp. — Pitch canker

*Leptostroma* sp. — Lophodermium needle cast *Lophodermium pinastri* — Lophodermium needle cast

*Lophodermium* sp. — Lophodermium needle cast

*Macrophomina* sp. — Charcoal rot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Ploioderma lethale* — Ploioderma needle cast *Ploioderma* sp. — Ploioderma needle cast *Pythium* sp. — Pythium root rot *Rhizosphaera* sp. — Rhizosphaera needle cast

NEMATODES

*Bursaphelenchus* sp. — Pine Wood nematode

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

*Pythium* sp. — Pythium root rot

***Tsuga canadensis* (Canadian Hemlock)**

FUNGI

*Phytophthora cinnamomi* — Phytophthora root rot

***Tsuga* sp. (Hemlock)**

FUNGI

*Phomopsis* sp. — Phomopsis twig blight *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

**PIPERACEAE**

***Peperomia* sp. (Peperomia)**

FUNGI

*Pythium* sp. — Pythium root and stem rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Coleosporium* sp. — Pine needle rust *Cronartium quercuum —* Eastern gall rust *Cronartium quercuum* f. sp. *fusiforme* — Fusiform rust

*Dothistroma* sp. — Dothistroma needle blight *Fusarium lateritium* — Fusarium pitch canker *Fusarium* sp. — Fusarium pitch canker, Root rot *Heterobasidion* sp. — White rot

*Lophodermium* sp. — Lophodermium needle cast *Macrophomina phaseoli* — Charcoal rot *Phomopsis* sp. — Phomopsis canker and dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Ploioderma lethale* — Ploioderma needle cast *Poria* sp. — Poria root rot

*Rhizoctonia* sp. — Rhizoctonia root rot *Rhizosphaera* sp. — Rhizosphaera needle cast *Sphaeropsis sapinea* — Diplodia canker, Needle blight, Tip blight, Sphaeropsis blight, canker and dieback

**PITTOSPORACEAE**

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

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback *Botrytis cinerea* — Botytis leaf spot *Cercospora pittospori* — Angular leaf spot *Corticium salminocolor* — Pink disease *Pythium* sp. — Pythium root rot

***Pittosporum* sp. (Dwarf Pittosporum, Pittosporum)**

FUNGI

*Alternaria tenuissima* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback

*Botrytis* sp. — Botrytis leaf spot

*Cercospora pittospori* — Angular leaf spot *Cercospora* sp. — Angular leaf spot, Cercospora leaf spot

*Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Coniothyrium* sp. — Coniothyrium dieback and canker

*Dothiorella* sp. — Dothiorella canker *Gloeosporium* sp. — Gloeosporium leaf spot *Mycosphaerella* sp. — Mycosphaerella leaf spot *Nectriella* sp. — Nectriella gall

*Pestalotia* sp. — Pestalotia leaf spot *Phoma/Phyllosticta* sp. — Phoma dieback *Phomopsis* sp. — Phomopsis dieback, Leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Thread blight

*Gloeosporium* sp. — Anthracnose *Gnomonia platani* — Anthracnose *Gnomonia* sp. — Anthracnose *Microsphaera* sp. — Powdery mildew *Oidium* sp. — Powdery mildew *Phomopsis* sp. — Phomopsis dieback

***Platanus* sp. (Sycamore)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Pseudocercospora* sp. — Pseudocercospora leaf spot

NEMATODES

*Criconemella* sp. — Ring nematode

***Pittosporum* sp. (Variegated Pittosporum)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Pythium* sp. — Pythium root rot

**PLATANACEAE**

***Platanus* x *acerifolia* (London Plane Tree)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

***Platanus occidentalis* (Sycamore)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Apiognomonia veneta* — Anthracnose *Botryosphaeria dothidea* — Botryosphaeria dieback

*Botryosphaeria* sp. — Botryosphaeria dieback

*Colletotrichum* sp. — Anthracnose

**PLUMBAGINACEAE**

***Armeria juniperifolia* (Pyrenees Thrift)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Armeria maritima* (Sea Thrift)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Phytophthora* sp. — Phytophthora crown and root rot

*Rhizoctonia* sp. — Rhizoctonia crown and root rot

***Armeria* sp. (Thrift)**

BACTERIA

*Pseudomonas viridilivida* — Bacterial blight

FUNGI

*Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium root rot *Phytophthora* sp. — Phytophthora crown rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Ceratostigma plumbaginoides* (Leadwort, Plumbago)**

FUNGI

*Colletotrichum* sp. — Colletotrichum leaf spot *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora crown rot

***Limonium* sp. (Statice)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

**POACEAE**

***Agrostis palustris* (Creeping Bentgrass)**

FUNGI

*Leptosphaerulina australis* — Leptosphaerulina leaf blight

*Pythium* sp. — Pythium root dysfunction

***Agrostis stolonifera* (Creeping Bentgrass)**

FUNGI

*Sclerotinia homeocarpa* — Dollar spot *Magnaporthe poae* — Magnaporthe summer patch

*Pythium* sp. — Pythium root dysfunction and crown rot

NEMATODES

*Criconemella* sp. — Ring nematode

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

BACTERIA

*Acidovorax avenae* — Bacterial leaf spot *Pseudomonas syringae syringae* — Bacterial blight

*Pseudomonas* sp. *—* Bacterial leaf spot and blight

FUNGI

*Bipolaris* sp. — Bipolaris crown rot and leaf blight

*Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose *Curvularia* sp. — Curvularia blight *Drechslera* sp. — Drechslera leaf spot *Fusarium avenaceum* — Fusarium root rot *Gaeumannomyces graminis* — Take-all *Gloeocercospora sorghi* — Copper spot

*Helminthosporium* sp. — Helminthosporium leaf spot

*Lanzia* sp. — Dollar spot

*Lanzia/Moellerodiscus* sp. — Dollar spot *Leptosphaerulina trifolii* — Leptosphaerulina leaf blight

*Leptosphaerulina* sp. — Leptosphaerulina leaf blight

*Microdochium nivale* — Pink snow mold, Fusarium patch

*Ophiosphaerella agrostis* — Dead spot *Phyllosticta* sp. — Phyllosticta leaf blight *Pythium volutum* — Pythium root dysfunction *Pythium* sp. — Pythium blight, crown and root rot, Pythium root dysfunction

*Rhizoctonia cerealis* — Yellow patch *Rhizoctonia solani* — Rhizoctonia blight, Brown patch

*Rhizoctonia zeae* — Brown patch *Rhizoctonia* sp. — Rhizoctonia blight, Brown patch

*Sclerotinia homeocarpa* — Dollar spot

*Sclerotium rolfsii* — Southern blight

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Hoplolaimus galeatus* — Lance nematode *Hoplolaimus* sp. — Lance nematode *Helicotylenchus* sp. — Spiral nematode *Meloidoyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Tylenchorhynchus* sp. — Stunt nematode

***Ammophila breviligulata* (American Beach Grass)**

FUNGI

*Helminthosporium triseptatum* — Helminthosporium leaf spot

***Avena* sp. (Oats)**

BACTERIA

***Axonopus* sp. (Carpetgrass)**

FUNGI

*Pseudomonas coronafaciens —* Halo blight

FUNGI

*Ascochyta* sp. — Ascochyta leaf spot *Bipolaris* sp. — Bipolaris leaf spot *Colletotrichum graminicola* — Anthracnose

*Drechslera avenae* — Drechslera leaf spot, Leaf blotch

*Drechslera* sp. — Drechslera leaf spot

*Epicoccum* sp. — Leaf mold

*Fusarium* sp. — Fusarium crown rot, Seedling blight

*Helminthosporium avenae* — Helminthosporium leaf spot

*Helminthosporium sativum* — Helminthosporium leaf spot

*Helminthosporium* sp. *—* Helminthosporium leaf spot

*Puccinia coronata* — Crown rust

*Puccinia* sp. — Rust

*Pyrenophora avenae* — Oat leaf spot, Seedling blight

*Pythium* sp. — Pythium root rot, Black leg *Rhizoctonia* sp. — Rhizoctonia root rot *Ustilago avenae* — Loose smut

*Ustilago hordei* — Covered smut *Ustilago nigra* — Semi loose smut *Ustilago tritici* — Loose smut *Ustilago* sp. — Smut

NEMATODES

*Criconemella* sp. — Ring nematode *Hoplolaimus columbus* — Columbia lance nematode

*Meloidogyne* sp. — Root-knot nematode

*Tylenchorhynchus* sp. — Stunt nematode

VIRUSES

*Bymovirus* — *Oat mosaic virus Bymovirus* — *Soil-borne oat mosaic virus*

*Furovirus* — *Soil-borne wheat mosaic virus Luteovirus* — *Barley yellow dwarf mosaic virus Luteovirus* — *Barley yellow dwarf virus Luteovirus* — *Barley yellow dwarf virus – pav & rpv*

*Colletotrichum graminicola* — Anthracnose *Curvularia* sp. — Curvularia leaf spot *Helminthosporium* sp. — Helminthosporium leaf spot, Melting out

*Rhizoctonia solani* — Brown patch

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

ALGAE

*Cephaleuros virescens* — Algal stem spot

FUNGI

*Puccinia* sp. — Rust

NEMATODES

*Gracilicus* sp. — Pin nematode

***Bromus* sp. (Bromegrass)**

FUNGI

*Erysiphe graminis* — Powdery mildew

***Buchloe dactyloides* (Buffalograss)**

FUNGI

*Lanzia/Moellerodiscus* sp. — Dollar spot

***Cortaderia* sp. (Pampas Grass)**

FUNGI

*Colletotrichum* sp. — Leaf necrosis

*Curvularia* sp. — Curvularia leaf spot *Helminthosporium* sp. — Helminthosporium leaf spot

*Phoma* sp. — Phoma leaf spot *Pyricularia grisea* — Gray leaf spot *Pyricularia* sp. — Pyricularia leaf spot *Pythium* sp. — Pythium root rot

***Corynephorus* sp. (Gray Clubawn Grass)**

FUNGI

*Pyricularia grisea* — Gray leaf spot

***Cynodon dactylon* (Bermudagrass)**

FUNGI

*Bipolaris cynodontis* — Bipolaris leaf spot *Bipolaris sorokiniana* — Bipolaris leaf spot *Bipolaris spicifera* — Crown and stem necrosis *Bipolaris* sp. — Bipolaris leaf spot, Helminthosporium leaf spot, Melting out, Crown rot

*Cercospora* sp. — Cercospora leaf spot

*Claviceps* sp. — Ergot

*Colletotrichum caudatum* — Anthracnose *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose *Curvularia* sp. — Curvularia blight *Drechslera gigantea* — Drechslera leaf spot *Drechslera* sp. — Drechslera leaf spot, Helminthosporium leaf spot, Melting out

*Exserohilum rostratum* — Exserohilum leaf spot, Melting out

*Exserohilum* sp. — Exserohilum leaf spot, Helminthosporium leaf spot, Melting out *Fusarium* sp. — Fusarium root rot and blight *Gaeumannomyces graminis* — Bermudagrass decline

*Gaeumannomyces* sp. — Take-all *Helminthosporium* sp. — Helminthosporium leaf spot, Fading out, Melting out, Crown rot

*Lanzia* sp. — Dollar spot *Lanzia/Moellerodiscus* sp. — Dollar spot *Leptosphaeria korrae* — Spring dead spot

*Leptosphaerulina trifolii* — Leptosphaerulina leaf blight

*Leptosphaerulina* sp. — Leptosphaerulina leaf blight

*Limonomyces roseipellis* — Cream leaf blight *Microdochium nivale* — Fusarium patch *Microdochium* sp. — Fusarium patch *Moellerodiscus* sp. — Dollar spot

*Nigrospora sphaerica* — Nigrospora blight *Ophiosphaerella korrae* — Spring dead spot *Ophiosphaerella* sp. — Spring dead spot *Phoma* sp. — Pyrenochaeta root rot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytopythium sp. — Phytopythium root rot Puccinia cynodontis* — Rust

*Puccinia graminis* — Rust

*Puccinia uromyces* — Leaf rust

*Puccinia* sp. — Rust

*Pyricularia grisea* — Gray leaf spot

*Pyricularia* sp. — Gray leaf spot

*Pythium spinosum* — Pythium blight and root rot *Pythium* sp. — Pythium blight, Cottony blight, Root rot

*Rhizoctonia solani* — Brown patch, Rhizoctonia blight

*Rhizoctonia zeae* — Brown patch, Rhizoctonia blight, Red leaf and sheath spot

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight, Sheath rot, Leaf blight

*Sclerotinia homeocarpa* — Dollar spot

*Sphacelia* sp. — Ergot

*Ustilago cynodontis* — Loose smut

*Uromyces* sp. — Rust

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hemicriconemoides* sp. — Sheathoid nematode *Hemicycliophora* sp. — Sheath nematode *Hoplolaimus galeatus* — Lance nematode *Hoplolaimus* sp. — Lance nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Trichodorus* sp. — Stubby-root nematodes

***Eleusine* sp. (Goosegrass)**

FUNGI

*Bipolaris* sp. — Bipolaris leaf spot *Helminthosporium* sp. — Helminthosporium leaf spot

***Eragrostis curvula* (Weeping Lovegrass)**

FUNGI

*Curvularia* sp. — Curvularia blight *Helminthosporium* sp. — Helminthosporium leaf spot

***Eragrostis* sp. (Lovegrass)**

FUNGI

*Helminthosporium* sp. — Helminthosporium leaf spot

*Lanzia/Moellerodiscus* sp. — Dollar spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Eremochloa ophiuroides* (Centipedegrass)**

FUNGI

*Ascochyta* sp. — Ascochyta blight

*Bipolaris* sp. — Bipolaris leaf spot, Melting out

*Cercospora* sp. — Leaf spot

*Colletotrichum graminicola* — Anthracnose

*Colletotrichum* sp. — Anthracnose

*Curvularia* sp. — Curvularia blight, Fading out *Drechslera* sp. — Drechslera leaf spot and melting out

*Fusarium* sp. — Fusarium blight, Basal leaf rot *Gaeumannomyces graminis* var. *graminis* — Take-all

*Helminthosporium* sp. — Helminthosporium leaf spot, Melting out

*Lanzia* sp. — Dollar spot *Lanzia/Moellerodiscus* sp. — Dollar spot *Limonomyces roseipellis* — Pink patch *Moellerodiscus* sp. — Dollar spot *Phyllosticta* sp. — Phyllosticta leaf blight *Puccinia* sp. — Rust

*Pyricularia grisea* — Gray leaf spot

*Pyricularia* sp. — Gray leaf spot

*Pythium* sp. — Pythium blight, Root and sheath rot, Greasy spot

*Rhizoctonia oryzae* — Rhizoctonia blight *Rhizoctonia solani* — Large patch, Brown patch, Rhizoctonia blight

*Rhizoctonia zeae —* Brown patch, Rhizoctonia blight

*Rhizoctonia* sp. — Brown patch, Rhizoctonia leaf blight

*Sclerotinia homeocarpa* — Dollar spot

*Sclerotinia* sp. — Dollar spot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hemicycliophora* sp. — Sheath nematode *Hoplolaimus columbus* — Columbia lance nematode

*Hoplolaimus galeatus* — Lance nematode *Hoplolaimus* sp. — Lance nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode

*Pratylenchus* sp. — Lesion nematode *Tylenchorhynchus* sp. — Stunt nematode *Xiphinema americanum* — Dagger nematode *Xiphinema chambersi* — Dagger nematode *Xiphinema* sp. — Dagger nematode

VIRUSES

*Satellivirus* — *Panicum mosaic virus*

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

FUNGI

*Ascochyta* sp. — Ascochyta blight *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose *Drechslera dictyoides* — Net blotch

*Helminthosporium* sp. — Helminthosporium leaf spot

*Leptosphaerulina* sp. — Leptosphaerulina leaf spot

*Puccinia graminis* — Rust

*Puccinia* sp. — Rust

*Pythium* sp. — Pythium root rot*,* Pythium blight

*Rhizoctonia solani* — Brown patch *Rhizoctonia* sp. — Brown patch *Sclerotinia homeocarpa* — Dollar spot

***Festuca ovina* (Blue Fescue)**

FUNGI

*Fusarium sp.* — Fusarium basal rot

***Festuca rubra (*Red Fescue)**

FUNGI

*Pythium* sp. — Pythium blight

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight

***Festuca* sp. (Creeping Red Fescue)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Puccinia* sp. — Rust

***Festuca* sp. (Fescue)**

FUNGI

***Hordeum* sp. (Barley)**

FUNGI

*Acremonium coenophialum* — Snow mold *Alternaria* sp. — Alternaria leaf spot *Ascochyta* sp. — Ascochyta leaf blight *Bipolaris* sp. — Bipolaris leaf spot *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose *Curvularia* sp. — Curvularia blight

*Drechslera* sp. — Drechslera leaf spot, Melting out, Net blotch

*Erysiphe* sp. — Powdery mildew

*Fusarium* sp. — Fusarium blight, Leaf spot *Helminthosporium* sp. — Helminthosporium leaf spot, Crown rot, Melting out

*Laetisaria fuciformis* — Red thread *Lanzia/Moellerodiscus* sp. — Dollar spot *Leptosphaerulina trifolii* — Leptosphaerulina leaf blight

*Leptosphaerulina* sp. — Leptosphaerulina leaf blight

*Marasmius* sp. — Fairy ring

*Melanotus phillipsii* — White blight, White patch

*Melanotus* sp. — White patch *Microdochium nivale* — Pink snow mold, Fusarium patch

*Nigrospora* sp. — Nigrospora blight *Phyllosticta* sp. — Phyllosticta leaf spot *Puccinia coronata* — Crown rust *Puccinia graminis* - Rust

*Puccinia* sp. — Rust

*Pyricularia grisea* — Gray leaf spot

*Pythium* sp. — Pythium blight, Cottony blight, Root rot, Damping off

*Rhizoctonia cerealis* — Yellow patch *Rhizoctonia solani* — Brown patch *Rhizoctonia* sp. — Brown patch, Rhizoctonia blight

*Sclerotium* sp. — Southern blight *Septoria* sp. — Septoria leaf spot *Ustilago striiformis* — Stripe smut *Ustilago* sp. — Stripe smut

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus* sp. — Lance nematode *Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode *Tylenchorhynchus* sp. — Stunt nematode

*Alternaria* sp. — Kernel blight

*Bipolaris sorokiniana* — Bipolaris spot blotch *Bipolaris* sp. — Bipolaris spot blotch *Drechslera teres* — Net blotch

*Drechslera* sp. — Drechslera leaf spot *Erysiphe graminis* — Powdery mildew *Helminthosporium gramineum —* Helminthosporium leaf spot *Helminthosporium sativum* — Spot blotch *Helminthosporium sorokinianum* — Helminthosporium leaf spot *Helminthosporium* sp. — Barley stripe, Spot blotch

*Pythium* sp. — Pythium root rot

*Septoria nodorum* — Septoria leaf spot *Septoria* sp. — Septoria speckled leaf blotch *Ustilago nuda* — Loose smut

*Ustilago tritici* — Loose smut

VIRUSES

*Luteovirus* — *Barley yellow dwarf mosaic virus Luteovirus* — *Barley yellow dwarf virus*

***Lolium multiflorum* (Annual Ryegrass)**

FUNGI

*Leptosphaerulina* sp. — Leptosphaerulina leaf blight

***Lolium perenne* (Perennial Ryegrass)**

FUNGI

*Aschochyta* sp. — Aschochyta blight *Drechslera dictyoides* — Drechslera leaf spot *Leptosphaerulina* sp. — Leptosphaerulina leaf blight

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight

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

FUNGI

*Bipolaris sorokiniana* — Spot blotch *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Curvularia* sp. — Curvularia blight

*Drechslera dictyoides* — Net blotch *Drechslera* sp. — Drechslera leaf spot, Melting out

***Oryza sativa* (Rice)**

FUNGI

*Fusarium* sp. — Fusarium root rot *Helminthosporium* sp. — Helminthosporium leaf spot

*Lanzia/Moellerodiscus* sp. — Dollar spot *Laetisaria fuciformis* — Red thread *Leptosphaerulina trifolii* — Leptosphaerulina leaf blight

*Leptosphaerulina* sp. — Leptosphaerulina leaf blight

*Microdochium nivale* — Fusarium patch

*Puccinia* sp. — Rust

*Pythium* sp. — Pythium blight, Damping off, Root rot

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight, Damping off

*Sclerotinia* sp. — Dollar spot

NEMATODES

*Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode *Tylenchorhynchus* sp. — Stunt nematode

***Microstegium vimineum* (Japanese Stilt Grass)**

FUNGI

*Drechslera gigantea* — Zonate leaf spot

***Miscanthus* sp. (Miscanthus)**

FUNGI

*Bipolaris* sp. — Bipolaris leaf spot

*Leptosphaeria* sp. — Miscanthus blight

***Muhlenbergia* sp. (Muhly Grass)**

FUNGI

*Magnaporthe grisea* — Gray leaf spot

*Phaeosphaeria acori* — Leptosphaeria leaf spot NEMATODES

*Meloidogyne* sp. — Root-knot nematode

*Helminthosporium* sp. — Helminthosporium brown spot, Black spot

***Oryza* sp. (Rice)**

FUNGI

*Alternaria alternata* — Alternaria leaf spot *Curvularia* sp. — Glume mold *Helminthosporium* sp. — Black spot *Penicillium* sp. — Blue mold

*Pyricularia grisea* — Blast

***Panicum dichotomiflorum* (Fall Panicgrass)**

FUNGI

*Bipolaris* sp. — Bipolaris leaf spot

***Panicum miliaceum* (Proso Millet)**

FUNGI

*Bipolaris* sp. — Bipolaris leaf spot

***Panicum ramosum* (Browntop Millet)**

FUNGI

*Helminthosporium* sp. — Helminthosporium leaf spot

*Pythium* sp. *—* Pythium root rot

NEMATODES

*Criconemella* sp. — Ring nematode

***Panicum* sp. (Panic Grass)**

FUNGI

*Bipolaris* sp. — Bipolaris leaf spot

*Puccinia* sp. — Rust

***Paspalum dilatatum* (Dallisgrass)**

FUNGI

*Claviceps paspali* — Ergot

*Claviceps* sp. — Ergot

*Fusarium heterosporum* — Fusarium head mold

***Paspalum notatum* (Bahiagrass)**

FUNGI

*Helminthosporium* sp. — Helminthosporium leaf spot

*Lanzia/Moellerodiscus* sp. — Dollar spot *Rhizoctonia* sp. — Brown patch, Rhizoctonia blight, Sheath rot

NEMATODES

*Criconemella* sp. — Ring nematode

***Paspalum vaginatum* (Seashore Paspalum)**

FUNGI

*Sclerotinia homeocarpa* — Dollar spot

***Pennisetum glaucum* (Pearl Millet)**

FUNGI

*Pyricularia* sp. — Gray leaf spot, Blight

***Pennisetum setaceum* (Fountain Grass)**

FUNGI

*Bipolaris* sp. — Eye spot

***Pennisetum* sp. (Pennisetum)**

FUNGI

*Bipolaris* sp. — Eye spot *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

***Phalaris arundinacea* (Reed Canary Grass)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Cladosporium* sp. — Leaf mold *Fusarium* sp. — Fusarium root rot *Septoria* sp. — Septoria leaf spot

***Phalaris* sp. (Reed Canary Grass)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Poa annua* (Annual Bluegrass)**

FUNGI

*Colletotrichum graminicola* — Anthracnose

*Rhizoctonia* sp. — Brown patch

***Poa pratensis* (Kentucky Bluegrass)**

FUNGI

*Aschochyta* sp. — Aschochyta blight *Rhizoctonia* sp. — Brown patch *Pythium* sp. — Pythium root rot

***Poa trivialis* (Rough Bluegrass)**

FUNGI

*Lanzia/Moellerodiscus* sp. — Dollar spot *Leptosphaerulina trifolii* — Leptosphaerulina leaf spot

*Pythium* sp. — Pythium root rot *Rhizoctonia cerealis* — Yellow patch *Rhizoctonia* sp. — Rhizoctonia blight

NEMATODES

*Meloidogyne incognita* — Root-knot nematode

*Meloidogyne* sp. — Root-knot nematode

***Poa* sp. (Bluegrass)**

FUNGI

*Aschochyta* sp. — Aschochyta leaf spot

*Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose *Erysiphe graminis* — Powdery mildew

*Exserohilum rostratum* — Exserohilum leaf spot *Helminthosporium* sp. — Helminthosporium leaf spot, Melting out

*Leptosphaerulina* sp. — Leptosphaerulina leaf blight

*Nigrospora* sp. — Nigrospora blight

*Puccinia* sp. — Rust

*Rhizoctonia cerealis* — Yellow patch

*Rhizoctonia* sp. — Brown patch

***Sorghum bicolor* (Milo)**

FUNGI

*Colletotrichum graminicola* — Anthracnose *Fusarium* sp. — Fusarium root and stalk rot *Helminthosporium* sp. — Helminthosporium leaf spot

*Macrophomina phaseoli* — Macrophomina stalk rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia solani* — Rhizoctonia root rot

***Secale cereale* (Rye)**

FUNGI

NEMATODES

*Hoplolaimus* sp. — Lance nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode

*Bipolaris sorokiniana* — Bipolaris leaf spot and crown rot

*Bipolaris* sp. — Bipolaris leaf spot *Helminthosporium sorokinianum* — Helminthosporium leaf spot, Seedling blight

***Sorghum halepense* (Johnsongrass)**

VIRUSES

***Secale* sp. (Rye)**

FUNGI

*Potyvirus* — *Maize dwarf mosaic virus Potyvirus* — *Maize dwarf mosaic virus - a Waikavirus* — *Maize chlorotic dwarf virus*

*Ascochyta* sp. — Ascochyta leaf spot *Bipolaris sorokiniana —* Bipolaris leaf blotch *Bipolaris* sp. — Bipolaris leaf spot, Helminthosporium leaf spot

*Colletotrichum* sp. — Anthracnose *Curvularia* sp. — Seed mold *Fusarium* sp. — Fusarium root rot

*Helminthosporium* sp. — Helminthosporium leaf spot, Crown and root rot

*Puccinia* sp. — Rust

*Pyricularia* sp. — Gray leaf spot

*Pythium* sp. — Pythium crown and root rot, Pythium blight

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight

***Sorghum sudanense* (Sudan Grass)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Cercospora* sp. — Cercospora leaf spot, Gray leaf spot

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium root rot *Helminthosporium* sp. — Helminthosporium leaf spot

*Pythium* sp. — Pythium root rot

NEMATODES

*Hoplolaimus* sp. — Lance nematode

NEMATODES

*Hoplolaimus columbus* — Columbia lance nematode

***Sorghum* sp. (Sorghum)**

FUNGI

VIRUSES

*Luteovirus* — *Barley yellow dwarf virus*

*Alternaria* sp. — Alternaria leaf spot *Ascochyta* sp. — Ascochyta leaf spot *Aspergillus* sp. — Head mold

*Cercospora* sp. — Cercospora leaf spot, Gray leaf spot

*Cladosporium* sp. — Leaf mold

*Claviceps* sp. — Ergot

*Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose, Red leaf spot *Exserohilum* sp. — Exserohilum leaf blight *Fusarium* sp. — Fusarium crown, root and stalk rot, Head blight

*Gloeocercospora sorghi* — Zonate leaf spot *Gloeocercospora splendens* — Zonate leaf spot *Gloeocercospora* sp. — Zonate leaf spot *Helminthosporium* sp. — Helminthosporium leaf spot, Leaf blight

*Phyllosticta* sp. — Phyllosticta leaf spot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus columbus* — Columbia lance nematode

*Paratrichodorus* sp. — Stubby root nematode

*Pratylenchus* sp. — Lesion nematode

VIRUSES

*Potyvirus* — *Maize dwarf mosaic virus Potyvirus* — *Maize dwarf mosaic virus - a Potyvirus* — *Maize dwarf mosaic virus - b*

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

FUNGI

*Ascochyta* sp. — Ascochyta blight

*Bipolaris* sp. — Bipolaris leaf spot, Melting out *Cercospora* sp. — Cercospora leaf spot *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Curvularia* sp. — Curvularia blight *Drechslera* sp. — Drechslera leaf spot and melting out

*Exserohilum rostratum* — Exserohilum leaf spot, Melting out

*Exserohilum* sp. — Helminthosporium leaf spot *Fusarium* sp. — Fusarium basal leaf rot *Gaeumanomyces* sp. — Take-all *Helminthosporium* sp. — Helminthosporium leaf spot

*Lanzia/Moellerodiscus* sp. — Dollar spot

*Marasmius* sp. — Fairy ring *Nigrospora* sp. — Nigrospora blight *Phoma* sp. — Phoma leaf spot

*Phyllachora graminis* — Tar spot *Puccinia graminis* — Rust *Puccinia stenotaphri* — Rust *Puccinia* sp. — Rust

*Pyricularia grisea* — Gray leaf spot

*Pyricularia* sp. — Gray leaf spot

*Pythium* sp. — Pythium blight, Root and crown rot

*Rhizoctonia solani* — Large patch, Brown patch, Rhizoctonia blight

*Rhizoctonia zeae* — Rhizoctonia leaf and sheath spot

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight

*Sclerotinia homeocarpa* — Dollar spot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hemicycliophora* sp. — Sheath nematode *Hoplolaimus galeatus* — Lance nematode *Hoplolaimus* sp. — Lance nematode Meloidogyne *graminis* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Trichodorus* sp. — Stubby root nematode *Xiphinema* sp. — Dagger nematode

VIRUSES

*Satellivirus* — *Panicum mosaic virus*

***Stipa tenuifolia* (Feather Grass)**

FUNGI

*Bipolaris sorokinianum* — Bipolaris leaf spot

***Triticum* sp. (Wheat)**

BACTERIA

*Pseudomonas syringae* pv. *atrofaciens* — Basal glume rot

*Xanthomonas* sp. — Black chaff

FUNGI

*Alternaria* sp. — Alternaria glume blotch, Leaf blight, Black point

*Ascochyta tritici* — Ascochyta leaf spot

*Ascochyta* sp. — Ascochyta leaf spot *Aspergillus flavus* — Grain mold *Bipolaris sorokiniana* — Scab

*Bipolaris* sp. — Bipolaris leaf spot, Scab *Cladosporium* sp. — Sooty mold, Black head mold

*Claviceps purpurea* — Ergot *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose *Drechslera tritici-repentis —* Tan spot *Drechslera* sp. — Tan spot

*Eipcoccum nigrum* — Black head mold *Epicoccum purpurescens —* Sooty mold *Epicoccum* sp. — Sooty mold

*Erysiphe graminis —* Powdery mildew

*Erysiphe graminis* var. *tritici —* Powdery mildew

*Erysiphe* sp. — Powdery mildew

*Fusarium moniliforme —* Fusarium culm rot *Fusarium* sp. — Fusarium stem rot, Seedling blight

*Gaeumannomyces graminis —* Take-all *Gaeumannomyces* sp. — Take-all *Gloeosporium* sp. — Black point

*Helminthosporium* sp. — Helminthosporium leaf spot

*Oidium monilioides —* Powdery mildew *Oidium* sp. — Powdery mildew *Puccinia graminis-tritici —* Leaf rust *Puccinia recondita —* Leaf rust

*Puccinia stiiformis* — Stripe rust, Yellow rust

*Puccinia* sp. — Leaf rust

*Pyrenophora tritici-repentis* — Tan spot

*Rhizoctonia* sp. — Sheath blight

*Septoria nodorum —* Septoria glume blotch, Leaf blotch

*Septoria* sp. — Septoria glume blotch, Leaf blotch *Stagonospora nodorum* — Stagonospora blotch, Glume blotch

*Urocystis agropyri* — Flag smut *Ustilago nuda —* Loose smut *Ustilago tritici —* Loose smut

NEMATODES

*Criconemella* sp. — Ring nematode *Paratrichodorus* sp. — Stubby root nematode *Tylenchorhynchus* sp. — Stunt nematode

VIRUSES

*Bymovirus* — *Wheat spindle streak mosaic virus Furovirus* — *Wheat soil-borne mosaic virus Luteovirus* — *Barley yellow dwarf virus Luteovirus* — *Barley yellow dwarf virus - pav*

**x *Triticosecale* sp. (Triticale)**

FUNGI

*Septoria* sp. — Septoria leaf spot

VIRUSES

*Luteovirus* — *Barley yellow dwarf virus*

***Zea mays* (Corn)**

BACTERIA

*Erwinia carotovora* — Bacterial stalk rot

*Erwinia chrysanthemi* — Bacterial stalk rot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Aspergillus flavus* — Aspergillus ear rot *Bipolaris maydis* — Southern corn leaf blight *Bipolaris* sp. — Southern corn leaf blight *Cercospora sorghi* var. *maydis —* Gray leaf spot *Cercospora* sp. — Gray leaf spot *Colletotrichum graminicola* — Anthracnose *Curvularia* sp. — Curvularia leaf spot *Exserohilum turcicum* — Northern corn leaf blight

*Fusarium moniliforme* — Fusarium ear and root rot

*Fusarium* sp. — Fusarium ear, stalk and stem rot, Damping-off

*Gloeocercospora sorghi* — Zonate leaf spot *Gloeocercospora* sp. — Zonate leaf spot *Helminthosporium carbonum* — Northern corn leaf blight

*Helminthosporium maydis* — Southern corn leaf blight

*Helminthosporium turticum* — Northern corn leaf blight

*Helminthosporium* sp. — Helminthosporium leaf spot

*Macrophomina phaseoli* — Charcoal rot *Macrophomina* sp. — Charcoal rot *Peronosclerospora sorghi* — Sorghum downy mildew

*Phoma* sp. — Red root rot

*Phomopsis* sp. — Phomopsis leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot, Yellow leaf blight

*Puccinia polysora* — Southern corn rust

*Puccinia sorghi* — Common rust

*Pythium* sp. — Pythium root and stalk rot, Damping off

*Rhizoctonia solani* — Rhizoctonia root rot *Rhizoctonia* sp. — Rhizoctonia root and stalk rot, Damping off

*Rhizopus* sp. — Rhizpous ear rot

*Sclerophthora macrospora* — Crazy top downy mildew

*Sclerospora sorghi* — Sorghum downy mildew *Setosphaeria turcica* — Northern corn leaf blight *Ustilago maydis* — Common smut

*Ustilago* sp. — Common smut

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus columbus* — Columbia lance nematode

*Hoplolaimus* sp. — Lance nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Xiphinema* sp. — Dagger nematode

VIRUSES

*Nucleorhabdovirus* — *Corn mosaic virus Potyvirus* — *Maize dwarf mosaic virus Potyvirus* — *Maize dwarf mosaic virus – a Potyvirus* — *Maize dwarf mosaic virus - b Potyvirus* — *Maize dwarf mosaic virus - k Waikavirus* — *Maize chlorotic dwarf virus*

***Zoysia japonica* (Zoysiagrass – ‘El Torro’, ‘Meyer’, ‘Zenith’)**

FUNGI

*Ascochyta* sp. — Ascochyta blight *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose *Curvularia* sp. — Curvularia blight

*Gaeumannomyces graminis*— Take-all root rot *Helminthosporium* sp. — Helminthosporium fading out, Helminthosporium melting out *Lanzia/Moellerodiscus* sp. — Dollar spot *Puccinia graminicola* — Leaf rust

*Puccinia graminis* — Rust

*Puccinia* sp. — Leaf rust

*Rhizoctonia solani* — Large patch, Brown patch, Rhizoctonia blight

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight

*Sclerotinia homeocarpa*— Dollar spot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode

***Zoysia japonica* x *Z. tenuifolia* (Zoysiagrass – ‘Emerald’)**

FUNGI

*Colletotrichum graminicola* — Anthracnose *Curvularia* sp. — Curvularia blight *Helminthosporium* sp. — Helminthosporium leaf spot and crown rot

*Lanzia/Moellerodiscus* sp. — Dollar spot *Phyllosticta* sp. — Phyllosticta leaf blight *Puccinia* sp. — Leaf rust

*Pythium* sp. — Pythium blight

*Rhizoctonia solani* — Brown patch, Rhizoctonia blight

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Hoplolaimus galeatus* — Lance nematode *Meloidogyne* sp. — Root-knot nematode

***Zoysia* sp. (Zoysiagrass)**

FUNGI

*Bipolaris* sp. — Bipolaris leaf spot *Colletotrichum graminicola* — Anthracnose *Colletotrichum* sp. — Anthracnose *Curvularia lunata* — Curvularia blight *Curvularia* sp. — Curvularia blight *Drechslera* sp. — Drechslera leaf spot and melting out

*Exserohilum rostratum* — Exserohilum leaf spot *Fusarium* sp. — Fusarium blight *Helminthosporium* sp. — Helminthosporium leaf spot, Helminthosporium crown rot, Melting out, Fading out

*Lanzia/Moellerodiscus* sp. — Dollar spot *Leptosphaerulina* sp. — Leptosphaerulina leaf blight

*Mycoleptodiscus indicus* — Leaf spot *Ophiosphaerella* sp. — Spring dead spot *Phyllosticta* sp. — Phyllosticta leaf blight *Puccinia zoysia* — Leaf rust

*Puccinia* sp. — Leaf rust

*Pythium* sp. — Pythium blight

*Rhizoctonia solani* — Large patch, Brown patch, Rhizoctonia blight

*Rhizoctonia* sp. — Brown patch, Rhizoctonia blight, Yellow spot

*Sclerotinia homeocarpa* — Dollar spot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Hoplolaimus galeatus* — Lance nematode *Hoplolaimus* sp. — Lance nematode *Meloidogyne* sp. — Root-knot nematode *Mesocriconema* sp. — Ring nematode

**PODOCARPACEAE**

***Podocarpus macrophyllus* (Japanese Yew)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Phomopsis* sp. — Phomopsis dieback *Pythium* sp. — Pythium root rot

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

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Diplodia* sp. — Diplodia dieback *Macrophoma* sp. — Macrophoma leaf spot, Macrophoma twig blight

*Pestalotiopsis* sp. — Pestalotiopsis needle blight

*Phoma* sp. — Phoma dieback *Phomopsis* sp. — Phomopsis dieback *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora* sp. — Phytophthora root rot *Pythium splendens* — Pythium root rot *Rhizoctonia solani* — Rhizoctonia root rot

**POLEMONIACEAE**

***Phlox divaricata* (Wild Blue Phlox)**

FUNGI

*Pythium* sp. — Pythium root and crown rot

***Phlox paniculata* (Perennial Phlox)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Fusarium* sp. — Fusarium stem rot *Oidium* sp. — Powdery mildew *Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora nicotianae* — Phytophthora crown and stem rot

*Phytophthora* sp. — Phytophthora root and stem rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

*Septoria* sp. — Septoria leaf spot

*Thielaviopsis basicola* — Black root rot

***Phlox pilosa* (Woodland Phlox)**

FUNGI

*Botrytis* sp. — Gray mold

*Fusarium* sp. — Fusarium crown rot *Phytophthora nicotianae* — Phytophthora crown rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium crown and root rot

***Phlox subulata* (Moss Phlox)**

FUNGI

*Botrytis cinerea* — Botrytis stem blight

*Botrytis* sp. — Gray mold

*Choanephora* sp. — Choanephora blight *Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium stem rot *Macrophomina* sp. — Charcoal rot *Peronospora phlogina* — Downy mildew *Phoma* sp. — Phoma blight, Phoma dieback *Pythium* sp. — Pythium root rot *Thielaviopsis basicola* — Black root rot, Thielaviopsis crown rot

*Thielaviopsis* sp. — Black root rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

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

BACTERIA

***Rumex* sp. (Curly Dock)**

FUNGI

*Xanthomonas* sp. — Bacterial leaf blight

FUNGI

*Botrytis cinerea* — Gray mold

*Botrytis* sp. — Gray mold

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Erysiphe* sp. — Powdery mildew

*Myrothecium roridum* — Myrothecium stem rot

*Oidium* sp. — Powdery mildew *Peronospora phlogina* — Downy mildew *Phoma* sp. — Phoma blight

*Phytophthora* sp. — Phytophthora crown rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Damping off, Web blight

*Septoria* sp. — Septoria leaf spot

*Thielaviopsis basicola —* Black root rot

**POLYGONACEAE**

***Antigonon leptopus* (Coral Vine)**

FUNGI

*Pythium* sp. — Pythium root rot

***Polygonum bistorta* (Snakeweed)**

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

***Polygonum orientale* (Princess Feather)**

FUNGI

*Pythium* sp. — Damping off

*Rhizoctonia* sp. — Damping off

***Rheum* sp. (Rhubarb)**

FUNGI

*Ascochyta* sp. — Ascochyta leaf spot

*Fusarium* sp. — Fusarium wilt

*Cercospora* sp. — Cercospora leaf spot

**POLYPODIACEAE**

***Platycerium* sp. (Staghorn Fern)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis* sp. — Gray mold

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Gloeosporium* sp. — Gloeosporium leaf spot

***Rumohra adiantiformis* (Leatherleaf Fern)**

FUNGI

*Gloeosporium* sp. — Leaf necrosis

**PORTULACACEAE**

***Lewisia longipetala* (Long-petaled Lewisia)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

***Portulaca* sp. (Moss Rose)**

FUNGI

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot

**PRIMULACEAE**

***Cyclamen* sp. (Cyclamen)**

FUNGI

*Cylindrocarpon* sp. — Cylindrocarpon root rot *Fusarium oxysporum* — Fusarium wilt *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Lysimachia numularia* (Creeping Charlie)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

*Sclerotium rolfsii* — Southern stem blight

**PROTEACEAE**

*Phytophthora* sp. — Phytophthora root rot

*Sclerotium rolfsii* — Southern blight

***Anemone hupehensis* (Japanese Anemone)**

FUNGI

*Botrytis cinerea —* Collar rot

***Anemone* sp. (Windflower)**

FUNGI

*Pythium* sp. — Pythium root rot

***Protea* sp. (Protea)**

FUNGI

***Aquilegia canadensis* (Eastern Columbine)**

FUNGI

*Pythium* sp. — Damping off

*Rhizoctonia* sp. — Damping off

**PTERIDACEAE**

***Adiantum raddianum* (Tassel Fern)**

FUNGI

*Pythium* sp. — Pythium root rot

**PUNICACEAE**

***Punica granatum* (Pomegranate)**

FUNGI

*Cercospora lythracearum* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Macrophoma* sp. — Macrophoma dieback *Mycosphaerella lythracearum* — Leaf blotch and fruit spot

*Sphaceloma* sp. — Scab

**RANUNCULACEAE**

***Aconitum* sp. (Monkshood)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Phytophthora cryptogea* — Phytophthora crown rot and root rot

*Phytophthora* sp. — Phytophthora crown rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia crown and root rot

*Sclerotinia sclerotiorum* — White mold stem rot

***Aquilegia* sp. (Columbine)**

BACTERIA

*Pseudomonas syringae* — Bacterial crown rot, Leaf spot

*Pseudomonas viridiflava* — Bacterial leaf spot, Petiole rot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Ascochyta* sp. — Ascochyta leaf spot

*Botrytis cinerea* — Botrytis blight, Crown and petiole rot

*Oidium* sp. — Powdery mildew

*Phytophthora nicotianae* — Phytophthora petiole rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

*Sclerotinia sclerotiorum* — Sclerotinia white mold

*Thielaviopsis basicola* — Black root rot

***Cimicifuga* sp. (Bugbane)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

*Colletotrichum* sp. — Anthracnose

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Clematis armandii* (Clematis)**

FUNGI

*Phomopsis* sp. — Phomopsis dieback, tip blight, and canker

*Sclerotium rolfsii* — Southern blight

***Clematis* x *jackmanii* (Clematis)**

FUNGI

*Ascochyta* sp. — Ascochyta stem canker *Colletotrichum* sp. — Colletotrichum leaf spot *Phoma* sp. — Phoma leaf spot

*Phoma clematidina* — Clematis wilt, Stem rot, Leaf spot

***Clematis terniflora* (Sweet Autumn Clematis)**

FUNGI

*Botrytis* sp. — Botrytis blight

*Phoma* sp. — Phoma leaf spot

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

FUNGI

*Botrytis cinerea —* Gray mold, Botrytis blight *Cercospora* sp. — Cercospora leaf spot *Phoma clematidina* — Phoma stem and leaf blight, Clematis wilt

*Phoma* sp. — Phoma stem rot

*Phyllosticta clematidis* — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia stem rot

*Thievalopsis basicola* — Black root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Delphinium* sp. (Larkspur)**

BACTERIA

*Pseudomonas cichorii* — Bacterial stem rot *Pseudomonas delphinii* — Bacterial stem rot *Xanthomonas campestris* pv.*vescatoria* — Bacterial spot

FUNGI

*Cladosporium* sp. — Cladosporium leaf spot

*Diaporthe* sp. — Stem canker

*Monilinia fructicola* — Brown rot

*Phoma* sp. — Phoma stem canker and leaf spot *Phoma/Phyllosticta* sp. — Phoma stem canker *Pythium* sp. — Pythium root rot

*Sclerotium delphinii* — Southern blight

*Sclerotium* sp. — Southern blight

***Helleborus orientalis* (Lenten Rose)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Fusarium* sp.— Fusarium root rot *Pythium* sp. — Pythium root rot

***Helleborus* sp. (Lenten Rose)**

FUNGI

*Pythium* sp. — Pythium root rot

*Phytophthora* sp. — Phytophthora root and crown rot

***Thalictrum speciosissimum* (Meadow Rue)**

FUNGI

*Sclerotium rolfsii* — Southern blight

***Trollius ledebourii* (Globeflower)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

**ROSACEAE**

***Alchemilla mollis* (Lady's Mantle)**

FUNGI

*Cylindrocladium* sp. — Cylindrocladium crown and root rot

*Phytophthora* sp. — Phytophthora root rot

***Alchemilla* sp. (Lady's Mantle)**

BACTERIA

*Pseudomonas cichorii* — Bacterial spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botrytis cinerea* — Gray mold *Thielaviopsis basicola* — Black root rot

***Amelanchier arborea* (Serviceberry)**

FUNGI

*Gymnosporangium* sp. — Cedar-apple rust

***Amelanchier* sp. (Serviceberry)**

FUNGI

*Ascochyta* sp. —Ascochyta leaf spot

***Aruncus aesthusifolius* (Aruncus)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

*Phytophthora nicotianae* — Phytophthora root rot

***Chaenomeles speciosa* (Flowering Quince)**

FUNGI

*Gymnosporangium clavipes* — Cedar-qunice rust

***Chaenomeles* sp. (Flowering Quince)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Erwinia* sp. — Fire blight

FUNGI

*Gymnosporangium* sp. — Rust

***Cotoneaster salicifolius* (Willowleaf Cotoneaster)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Cotoneaster* sp. (Cotoneaster)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Phyllosticta cotoneastri* — Phyllosticta leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot and foliar blight

***Crataegus* sp. (Hawthorn)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback *Entomosporium mespili* — Entomosporium leaf spot

*Gymnosporangium globosum* — Rust

*Gymnosporangium* sp. — Rust

***Cydonia oblonga* (Qunice)**

FUNGI

*Gymnosporangium clavipes* — Cedar-qunice rust

***Duchesnea indica* (Indian Strawberry)**

FUNGI

*Frommea duchesneae* — Rust

*Frommea obtusa* var. *duchesneae* — Rust

*Peronospora potentillae* — Downy mildew

***Eriobotrya japonica* (Loquat)**

BACTERIA

*Erwinia amylovora* — Fire blight

*Erwinia* sp. — Fire blight

FUNGI

*Armillaria tabescens* — Armillaria root rot, Mushroom rot

*Armillaria* sp. — Armillaria root rot *Botryosphaeria obtusa* — Frogeye leaf spot, Black rot

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Entomosporium mespili* — Entomosporium leaf spot

*Entomosporium* sp. — Entomosporium leaf spot *Phomopsis* sp. — Phomopsis leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthroa root and crown rot

*Phytophthora drechsleri* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

***Exochorda* sp. (Pearlbush)**

NEMATODES

*Xiphinema* sp. — Dagger nematode

***Fragaria* x *ananassa* (Strawberry)**

BACTERIA

*Pseudomonas syringae —* Bacterial wilt *Xanthomonas campestris —* Angular leaf spot *Xanthomonas fragariae —* Angular leaf spot

FUNGI

*Armillaria mellea* — Armillaria crown rot *Botryosphaeria* sp. — Botryosphaeria fruit rot *Botrytis cinerea* — Gray mold, Botrytis blight, Fruit rot

*Botrytis* sp. — Gray mold, Botrytis blight, Fruit rot, Leaf spot

*Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Cladosporium fruit mold *Colletotrichum acutatum* — Anthracnose fruit rot *Colletotrichum fragariae* — Anthracnose *Colletotrichum gloeosporioides* — Anthracnose *Colletotrichum* sp. — Anthracnose crown and fruit rot

*Dendrophoma obscurans* — Phomopsis leaf blight

*Dendrophoma* sp. — Phomopsis leaf blight *Diplocarpon earliana* — Leaf scorch *Diplocarpon* sp. — Leaf scorch

*Diplodia* sp. — Diplodia root rot *Discohainesia* sp. — Tan-brown rot *Frommea obtusa* — Rust

*Fusarium oxysporum* — Fusarium crown rot *Fusarium* sp. — Fusarium crown and root rot *Gloeosporium* sp. — Anthracnose

*Gnomonia comari* — Gnomonia leaf blotch, Stem-end rot

*Gnomonia fragariae* — Stem-end rot

*Gnomonia* sp. — Gnomonia leaf blotch, Stem-end rot

*Hainesia lythri* — Hainesia leaf spot *Macrophomina* sp. — Charcoal rot *Mycosphaerella fragariae* — Common leaf spot *Mycosphaerella* sp. — Common leaf spot *Oidium* sp. — Powdery mildew

*Peronospora potentillae* — Downy mildew *Phomopsis obscurans* — Phomopsis leaf blight *Phomopsis* sp. — Phomopsis leaf blight *Phytophthora cactorum* — Phytophthora crown and root rot, Leather rot

*Phytophthora fragariae* — Red stele *Phytophthora* sp. — Phytophthora crown, petiole and root rot, Leather rot

*Pythium* sp. — Pythium crown and root rot, Black root rot

*Rhizoctonia solani* — Rhizoctonia root rot, Aerial blight

*Rhizoctonia* sp. — Rhizoctonia bud, crown, petiole and root rot, Black root rot, Hard rot *Rhizopus* sp. — Rhizopus rot, Leaf spot *Ramularia tulasnei* — Ramularia leaf spot *Sclerotinia sclerotiorum* — Sclerotinia crown rot *Sclerotinia* sp. — Sclerotinia crown rot *Sclerotium rolfsii* — Southern blight *Sphaerotheca macularis* — Powdery mildew *Sphaerotheca* sp. — Powdery mildew *Verticillium* sp. — Black root rot

*Zythia fragariae* — Leaf blotch

NEMATODES

*Aphelenchoides fragariae* — Foliar nematode *Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Hoplolaimus* sp. — Lance nematode *Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode *Tylenchorhynchus* sp. — Stunt nematode *Xiphinema* sp. — Dagger nematode

VIRUSES

*Luteovirus* — *Strawberry mild yellow edge virus*

***Geum borisii* (Geum)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Phytophthora* sp. — Phytophthora root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Geum* sp. (Geum)**

***Kerria japonica* (Japanese Rose)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Cylindrosporium kerriae* — Cylindrosporium leaf blight

*Nectria* sp. — Nectria canker

***Malus sylvestris pumila* (Common Apple)**

BACTERIA

*Erwinia amylovora* — Fire blight

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Colletotrichum* sp. — Bitter rot *Gymnosporangium juniperi-virginianae* — Cedar- apple rust

*Phomopsis mali* — Phomopsis canker, Rough bark

*Physalospora obtusa* — Apple black rot

*Venturia inaequalis* — Apple scab

***Malus* sp. (Apple, Crabapple)**

BACTERIA

*Agrobacterium* sp. — Crown gall *Erwinia amylovora* — Fire blight *Erwinia* sp. — Fire blight *Pseudomonas syringae* — Blister spot

FUNGI

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Botrytis* sp. — Botrytis blight

*Colletotrichum* sp. — Anthracnose, Crown rot *Peronospora potentillae* — Downy mildew *Peronospora* sp. — Downy mildew *Phytophthora* sp. — Phytophthora root rot *Rhizoctonia* sp. — Rhizoctonia root rot

*Alternaria mali* — Alternaria blotch *Alternaria* sp. — Alternaria leaf spot, Core rot, Blotch

*Armillaria mellea* — Oak root rot

*Armillaria* sp. — Armillaria root rot, Oak root rot *Botryosphaeria dothidea* — White rot *Botryosphaeria obtusa* — Frogeye leaf spot, Black rot

*Botryosphaeria ribis* — Botryosphaeria canker *Botryosphaeria* sp. — Botryosphaeria dieback and canker, Frogeye leaf spot, White rot, Fruit rot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum acutatum* — Bitter rot *Colletotrichum gloeosporioides* — Bitter rot *Colletotrichum* sp. — Bitter rot

*Diplodia* sp. — Diplodia dieback

*Dothiorella* sp. — Stem canker, White rot *Entomosporium maculatum* — Fabraea leaf spot *Fusicoccum aesculi* — White rot

*Fusicoccum* sp. — White rot *Gloeodes pomigena* — Sooty blotch *Gloeodes* sp. — Sooty blotch *Glomerella cingulata* — Bitter rot

*Gymnosporangium clavipes —* Quince rust *Gymnosporangium juniperi-virginianae —* Cedar- apple rust

*Gymnosporangium* sp. — Cedar-apple rust, Quince rust

*Helminthosporium papulosum* — Black pox *Macrophoma* sp. — Macrophoma dieback *Microthyriella rubi —* Fly speck *Monochaetia* sp. — Monochaetia leaf spot *Oidium* sp. — Powdery mildew

*Phoma* sp. — Phoma fruit and leaf spot, Dieback *Phomopsis* sp. — Phomopsis dieback *Phyllosticta* sp. — Phyllosticta leaf spot *Physalospora obtusa* — Physalospora canker, Black rot

*Physalospora* sp. — Black rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Podosphaera leucotricha* — Powdery mildew *Podosphaera* sp. — Powdery mildew *Pythium* sp. — Pythium root rot

*Rhizopus* sp. — Rhizopus fruit rot *Schizothyrium pomi* — Flyspeck *Schizothyrium* sp. — Flyspeck *Sclerotium rolfsii* — Southern blight

*Sphaeropsis malorum* — Black rot, Sphaeropsis canker

*Sphaeropsis* sp. — Black rot *Venturia inaequalis* — Apple scab *Venturia* sp. — Apple scab

NEMATODES

*Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode *Xiphinema* sp. — Dagger nematode

VIRUSES

*Nepovirus* — *Tomato ringspot virus*

***Photinia* x *fraseri* (Photinia)**

BACTERIA

*Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Armillaria mellea* — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback *Colletotrichum* sp. — Anthracnose *Entomosporium maculatum* — Entomosporium leaf spot

*Entomosporium mespili* — Entomosporium leaf spot

*Entomosporium* sp. — Entomosporium leaf spot

*Oidium* sp. — Powdery mildew *Phomopsis* sp. — Phomopsis dieback *Rhizoctonia* sp. — Rhizoctonia root rot

***Photinia serrulata* (Chinese Photinia)**

FUNGI

*Entomosporium maculatum* — Entomosporium leaf spot

*Pestalotia* sp. — Pestalotia leaf spot *Sphaerotheca pannosa* — Powdery mildew *Sphaerotheca* sp. — Powdery mildew

***Photinia* sp. (Photinia)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Agrobacterium* sp. — Crown gall *Erwinia amylovora* — Fire blight *Erwinia* sp. — Fire blight

FUNGI

*Armillaria mellea* — Armillaria root rot, Oak root rot

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose

*Cytospora* sp. — Cytospora dieback *Diplodia* sp. — Diplodia canker *Dothiorella* sp. — Dothiorella leaf spot

*Entomosporium maculata* — Entomosporium leaf spot

*Entomosporium maculatum* — Entomosporium leaf spot

*Entomosporium mespili* — Entomosporium leaf spot

*Entomosporium* sp. — Entomosporium leaf spot

*Gloeosporium* sp. — Anthracnose *Glomerella* sp. — Anthracnose *Oidium* sp. — Powdery mildew

*Pestalotia* sp. — Pestalotia leaf spot *Phomopsis* sp. — Phomopsis dieback *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia aerial blight, Root rot

*Septoria photiniae* — Septoria leaf spot *Septoria* sp. — Septoria leaf spot *Sphaerotheca pannosa* — Powdery mildew

NEMATODES

*Belonolaimus* sp. — Sting nematode

***Physocarpus* sp. (Ninebark)**

FUNGI

*Pythium* sp. — Pythium root rot

***Potentilla* sp. (Cinquefoil)**

FUNGI

*Peronospora potentillae* — Downy mildew

***Prunus armeniaca* (Apricot)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Pseudomonas* sp. — Bacterial canker

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Coryneum* sp. — Coryneum fruit spot *Dothiorella* sp. — Dothiorella leaf spot *Monilinia fructicola* — Brown rot *Phoma* sp. — Phoma canker

*Venturia* sp. — Scab

***Prunus avium* (Sweet Cherry – ‘Black Tartarian’)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

***Prunus caroliniana* (Cherry Laurel)**

FUNGI

*Septoria ravenelii* — Septoria leaf spot *Taphrina cerasi* — Witches broom, Leaf blister, Leaf curl

***Prunus cerasifera* (Purple-leaf Plum)**

FUNGI

*Apiosporina morbosa* — Black knot

*Dibotryon morbosum* — Black knot

***Prunus cerasus* (Sour Cherry – ‘Montmorency’)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

***Prunus* x *incam* (Okame Cherry)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Cercospora* sp. — Cercospora leaf spot *Fusarium* sp. — Fusarium stem rot

***Prunus insititia* (Damson Plum)**

FUNGI

*Dibotryon morbosum* — Black knot

***Prunus japonica* (Japanese Plum)**

FUNGI

*Gloeosporium* sp. — Anthracnose

***Prunus laurocerasus* (Cherry Laurel, English Laurel, Skip Laurel)**

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

*Xanthomonas campestris* — Bacterial leaf spot

*Xanthomonas campestris* pv. *pruni* — Bacterial leaf spot

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria dothidea* — Botryosphaeria canker

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora kalmiae* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Coccomyces* sp. — Coccomyces leaf spot, Shothole

*Colletotrichum* sp. — Anthracnose *Cytospora* sp. — Cytospora canker *Microgloeum* sp. — Shot hole *Phoma* sp. — Phoma stem canker *Phomopsis* sp. — Phomopsis dieback

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora parasitica* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot, Phytophthora blight

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Thielaviopsis* sp. — Black root rot

***Prunus persica* (Peach, Nectarine)**

BACTERIA

*Agrobacterium tumefaciens —* Crown gall *Agrobacterium* sp. — Crown gall *Pseudomonas syringae* — Bacterial canker

*Pseudomonas* sp. — Bacterial leaf spot, Bacterial canker

*Xanthomonas arboricola* — Bacterial spot *Xanthomonas campestris* — Bacterial spot *Xanthomonas pruni* — Bacterial leaf spot *Xanthomonas* sp. — Bacterial spot

*Xylella fastidiosa* — Phony peach

FUNGI

*Alternaria* sp. — Alternaria leaf spot, Fruit rot *Armillaria* sp. — Armillaria root rot *Botryosphaeria dothidea* — Botryosphaeria canker, Gummosis

*Botryosphaeria rhodina* — Gummosis

*Botryosphaeria* sp. — Botryosphaeria dieback, Gummosis, Fruit rot

*Botrytis* sp. — Botrytis fruit rot *Cercospora* sp. — Cercospora leaf spot *Cladosporium carpophilum* — Scab

*Cladosporium* sp. — Cladosporium leaf spot, Scab

*Colletotrichum* sp. — Anthracnose

*Coryneum* sp. — Shot hole

*Cylindrocladium crotalariae* — Cylindrocladium root rot

*Cytospora* sp. — Cytospora canker and dieback, Leucostoma canker

*Diplodia* sp. — Diplodia dieback *Dothiorella* sp. — Dothiorella leaf spot, Gummosis

*Fusarium* sp. — Fusarium root and crown rot

*Fusicladium* sp. — Scab

*Fusicoccum amygdali* — Constriction canker *Fusicoccum* sp. — Fusicoccum canker and dieback, Constriction canker

*Geotrichum* sp. — Sour rot

*Gloeosporium* sp. — Gloeosporium leaf spot *Glomerella cingulata* — Anthracnose, Twig blight

*Leucostoma* sp. — Phomopsis leaf spot *Monilinia fructicola* — Brown rot, Blossom blight

*Monilinia* sp. — Brown rot, Blossom blight *Oidium* sp. — Powdery mildew *Penicillium* sp. — Blue mold

*Phoma* sp. — Phoma canker

*Phomopsis amygdali* — Phomopsis leaf spot *Phomopsis* sp. — Phomopsis dieback, Leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora crown and root rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Rhizopus* sp. — Rhizopus rot, Fruit rot *Schizophyllum commune* — Wood rot *Sphaerotheca pannosa* — Powdery mildew *Sphaerotheca* sp. — Powdery mildew *Taphrina deformans* — Leaf curl *Tranzschelia* sp. — Leaf rust

*Venturia carpophila* — Fruit spot

NEMATODES

*Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode *Xiphinema* sp. — Dagger nematode

VIROIDS

*Pelamoviroid* — *Peach latent mosaic viroid*

VIRUSES

*Trichovirus* — *Apple chlorotic leaf spot Ilarvirus* — *Apple mosaic virus Foveavirus* — *Asian prunus virus 1 Ilarvirus* — *Prunus necrotic ringspot virus Nepovirus* — *Tomato ringspot virus*

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

BACTERIA

*Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Apiosporina morbosa* — Black knot *Blumeriella jaapii* — Cherry leaf spot *Blumeriella* sp. — Cherry leaf spot *Coccomyces hiemalis* — Cherry leaf spot *Coccomyces* sp. — Cherry leaf spot *Dibotryon morbosum* — Black knot *Dibotryon* sp. — Black knot *Fusicladium carpophilum* — Scab *Tranzschelia pruni-spinosae* — Rust *Taphrina* sp. — Leaf curl

***Prunus serrulata* (Kwanzan Cherry)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Clitocybe tabescens* — Root rot *Dothiorella* sp. — Dothiorella leaf spot *Phomopsis* sp. — Phomopsis dieback *Phytophthora* sp. — Phytophthora root rot

*Pseudocercospora* sp. — Pseudocercospora leaf spot

VIRUSES

*Ilarvirus* — *Prunus necrotic ringspot virus*

***Prunus* x *snofozam* (Weeping Cherry)**

FUNGI

*Pseudocercospora* sp. — Pseudocercospora leaf spot

***Prunus subhirtella* (Higan Cherry)**

FUNGI

*Blumeriella jaapii* — Cherry leaf spot

*Botryosphaeria* sp. — Botryosphaeria dieback

***Prunus tomentosa* (Nanking Cherry)**

FUNGI

*Monilinia fructicola* — Blossom blight

***Prunus virginiana* (Choke Cherry)**

FUNGI

*Coccomyces* sp. — Shothole cherry leaf spot

***Prunus yedoensis* (Japanese Flowering Cherry, Weeping Yoshino Cherry, Yoshino Cherry)**

FUNGI

*Apiosporina morbosa* — Black knot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Coccomyces* sp. — Cherry leaf spot *Dothiorella* sp. — Dothiorella leaf spot

*Phomopsis* sp. — Phomopsis canker and dieback, Leaf spot

*Phytophthora* sp. — Phytophthora crown rot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

***Prunus* sp. (Almond)**

FUNGI

*Rhizopus* sp. — Rhizopus fruit rot

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

BACTERIA

*Agrobacterium* sp. — Crown gall *Xanthomonas campestris* — Bacterial leaf spot *Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Apiosporina morbosa* — Black knot *Armillaria* sp. — Armillaria root rot *Blumeriella jaapii* — Cherry leaf spot *Botryosphaeria dothidea* — Botryosphaeria canker

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Coccomyces hiemalis* — Cherry leaf spot *Coccomyces* sp. — Cherry leaf spot *Colletotrichum* sp. — Anthracnose *Cylindrosporium* sp. — Cylindrosporium leaf spot *Dibotryon morbosum* — Black knot

*Dothiorella* sp. — Dothiorella leaf spot *Fusicoccum* sp. — Fusicoccum dieback *Gloeosporium* sp. — Gloeosporium leaf spot *Monilia* sp. — Shoot blight

*Monilinia fructicola* — Blossom blight

*Monilinia* sp. — Brown rot

*Phomopsis* sp. — Phomopsis canker and dieback *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Podosphaera* sp. — Powdery mildew *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Taphrina communis* — Plum pockets *Taphrina* sp. — Leaf blister *Tranzschelia discolor —* Leaf rust *Tranzschelia* sp. — Leaf rust

NEMATODES

*Criconemella* sp. — Ring nematode

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

FUNGI

*Blumeriella jaapii* — Cherry leaf spot *Botryosphaeria* sp. — Botryosphaeria dieback *Cylindrosporium* sp. — Cylindrosporium leaf spot

*Diplodia* sp. — Diplodia dieback *Dothiorella* sp. — Dothiorella leaf spot *Phomopsis* sp. — Phomopsis dieback

*Pseudocercospora* sp. — Pseudocercospora leaf spot

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

BACTERIA

*Agrobacterium* sp. — Crown gall *Xanthomonas pruni* — Bacterial leaf spot *Xanthomonas* sp. — Bacterial leaf spot

*Xylella fastidiosa* — Bacterial leaf scorch, Plum leaf scald

FUNGI

*Alternaria* sp. — Alternaria fruit rot *Apiosporina morbosa* — Black knot *Armillaria tabescens* — Armillaria root rot *Botryosphaeria dothidea* — Botryosphaeria canker

*Botryosphaeria* sp. — Botryosphaeria dieback *Cladosporium carpophilum* — Scab *Cladosporium* sp. — Scab

*Coccomyces hiemalis* — Leaf spot *Colletotrichum* sp. — Anthracnose *Dibotryon morbosum* — Black knot *Dibotryon* sp. — Black knot *Dothiorella* sp. — Dothiorella leaf spot *Geotrichum* sp. — Sour rot

*Gloeosporium* sp. — Gloeosporium leaf spot *Monilia* sp. — Sour rot market disease *Monilinia fructicola* — Brown rot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Rhizopus* sp. — Rhizopus fruit rot

*Taphrina communis* — Plum pockets *Taphrina deformans* — Leaf curl *Tranzschelia discolor* — Rust *Tranzschelia* sp. — Leaf rust *Venturia inaequalis* — Fruit spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

*Xiphinema* sp. — Dagger nematode

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

FUNGI

*Coccomyces hiemalis* — Cherry leaf spot

*Colletotrichum* sp. — Anthracnose

*Dibotryon morbosum* — Black knot

***Pyracantha coccinea* (Scarlet Firethorn)**

BACTERIA

*Erwinia amylovora* — Fire blight

***Pyracantha* sp. (Firethorn)**

BACTERIA

*Erwinia amylovora* — Fire blight

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Cercospora* sp. — Cercospora leaf spot

*Diplodia* sp. — Twig blight

*Phomopsis* sp. — Phomopsis dieback *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Sphaeropsis* sp. — Sphaeropsis dieback, Stem gall

*Venturia* sp. — Scab

***Pyrus calleryana* (Callery Pear)**

BACTERIA

*Erwinia amylovora* — Fire blight

*Erwinia* sp. — Fire blight

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria dothidea* — Botryosphaeria canker

*Botryosphaeria obtusa* — Black rot *Botryosphaeria* sp. — Botryosphaeria canker and dieback, Leaf spot

*Colletotrichum gloeosporioides* — Bitter rot *Colletotrichum* sp. — Anthracnose, Leaf spot, Dieback

*Entomosporium maculatum* — Fabraea leaf spot *Entomosporium mespili* — Entomosporium leaf spot

*Entomosporium* sp. — Fabraea leaf spot *Gymnosporangium clavipes* — Quince rust *Gymnosporangium globosum* — Rust *Gymnosporangium* sp. — Rust

*Phoma* sp. — Phoma twig dieback *Phomopsis* sp. — Phomopsis canker *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot

NEMATODES

*Belonolaimus* sp. — Sting nematode

*Xiphinema* sp. — Dagger nematode

***Pyrus communis* (Bartlett Pear)**

BACTERIA

*Erwinia amylovora* — Fire blight

FUNGI

*Botryosphaeria dothidea* — White rot *Colletotrichum acutatum* — Leaf spot *Colletotrichum* sp. — Bitter rot *Diplocarpon mespili* — Fabraea leaf spot

*Entomosporium maculatum* — Fabraea leaf spot *Entomosporium* sp. — Fabraea leaf spot *Gloeodes pomigena* — Sooty blotch *Gymnosporangium clavipes* — Cedar-quince rust *Venturia* sp. — Pear scab

***Pyrus pyrifolia* (Asian Pear)**

BACTERIA

*Erwinia amylovora* — Fire blight

FUNGI

*Botryosphaeria obtusa* — Black rot

*Gymnosporangium clavipes* — Cedar-quince rust

***Pyrus serotinia* (Oriental Sand Pear)**

BACTERIA

*Erwinia amylovora* — Fire blight

FUNGI

*Entomosporium* sp. — Entomosporium leaf spot

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

BACTERIA

*Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot, Angular leaf spot

*Colletotrichum* sp. — Anthracnose

*Erwinia amylovora* — Fire blight

*Erwinia* sp. — Fire blight

FUNGI

*Alternaria alternata* — Alternaria leaf spot *Alternaria* sp. — Alternaria leaf spot *Botryosphaeria obtusa* — Botryosphaeria canker, Black rot

*Botryosphaeria quercuum* — Black rot *Botryosphaeria* sp. — Botryosphaeria canker and dieback, Black rot

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Bitter rot, Colletotrichum leaf spot

*Entomosporium maculatum* — Fabraea fruit spot *Entomosporium mespili* — Fabraea leaf spot *Entomosporium* sp. — Entomosporium leaf spot, Fabraea leaf spot

*Fabraea maculata* — Fabraea leaf and fruit spot

*Fabraea* sp. — Fabraea leaf spot *Geotrichum* sp. — Sour rot *Gloeodes pomigena* — Sooty blotch *Gloeosporium* sp. — Anthracnose *Glomerella cingulata* — Bitter rot *Gymnosporangium clavipes* — Rust

*Gymnosporangium globosum* — Rust *Gymnosporangium* sp. — Rust *Monilinia* sp. — Brown rot

*Phyllosticta* sp. — Phyllosticta leaf spot *Physalospora* sp. — Physalospora dieback *Schizothyrium pomi* — Flyspeck *Schizothyrium* sp. — Flyspeck

*Septoria* sp. — Mycosphaerella leaf spot

*Sphaeropsis* sp. — Black rot *Venturia inaequalis* — Pear scab *Venturia pyrina* — Pear scab *Venturia* sp. — Pear scab *Zygophiala jamaicensis* — Flyspeck

***Rhaphiolepis indica* (Indian Hawthorn)**

BACTERIA

*Erwinia amylovora* — Fire blight

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria obtusa* — Botryosphaeria dieback and canker

*Dothiorella* sp. — Dothiorella leaf spot *Entomosporium mespili* — Entomosporium leaf spot

*Entomosporium* sp. — Entomosporium leaf spot *Fusarium* sp. — Fusarium root rot *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Rhaphiolepis umbellata* (Yedda Hawthorn)**

FUNGI

*Armillaria* sp. — Armillaria root rot

*Entomosporium* sp. — Entomosporium leaf spot

***Rhaphiolepis* sp. (Rhaphiolepis)**

BACTERIA

*Erwinia amylovora* — Fire blight

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Leaf blight *Entomosporium maculatum* — Entomosporium leaf spot

*Entomosporium mespili* — Entomosporium leaf spot

*Entomosporium* sp. — Entomosporium leaf spot *Gloeosporium* sp. — Gloeosporium leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

NEMATODES

*Belonolaimus* sp. — Sting nematode

***Rosa banksiae* (Lady Bank’s Rose, Banksia Rose)**

FUNGI

*Diplocarpon rosae* — Black spot

*Oidium* sp. — Powdery mildew

*Podosphaera pannosa* — Powdery mildew

***Rosa floribunda* (Rose)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Rosa laevigata* (Cherokee Rose)**

FUNGI

*Diplocarpon rosae* — Black spot

*Sphaerotheca pannosa* — Powdery mildew

***Rosa odorata* (Tea Rose)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker *Colletotrichum* sp. — Anthracnose *Peronospora sparsa* — Downy mildew *Phomopsis* sp. — Phomopsis dieback

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

FUNGI

*Cercospora* sp. — Cercospora leaf spot

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

BACTERIA

*Agrobacterium tumefaciens* — Crown gall *Agrobacterium* sp. — Crown gall *Pseudomonas syringae* — Bacterial leaf spot *Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Armillaria mellea* — Armillaria root rot *Armillaria* sp. — Armillaria root rot *Botryosphaeria ribis* — Botryosphaeria canker

*Botryosphaeria* sp. — Botryosphaeria dieback *Botrytis cinerea* — Botrytis blight, Gray mold, Crown rot

*Botrytis* sp. — Botrytis blight, Gray mold *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Stem decay *Coniothyrium fuckelii* — Brand canker, Common canker

*Coniothryrium wernsdorffiae* — Brand canker *Coniothyrium* sp. — Coniothyrium cane blight, Brand canker

*Cryptosporella umbrina* — Brown canker *Cylindrocarpon* sp. — Cutting rot *Cylindrocladium* sp. — Cylindrocladium root and crown rot

*Cytosporella* sp. — Brown canker *Diplocarpon rosae* — Black spot *Diplocarpon* sp. — Black spot *Diplodia* sp. — Diplodia dieback

*Dothiorella* sp. — Dothiorella dieback and canker

*Fusarium* sp. — Fusarium stem rot *Gloeosporium* sp. — Anthracnose *Glomerella cingulata* — Dieback *Glomerella* sp. — Stem necrosis

*Leptosphaeria coniothyrium* — Common stem canker

*Nectria* sp. — Nectria canker

*Oidium* sp. — Powdery mildew *Peronospora sparsa* — Downy mildew *Phoma* sp. — Phoma dieback

*Phomopsis* sp. — Phomopsis canker and dieback

*Phragmidium* sp. — Rust

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora root rot *Phytophthora* sp. — Phytophthora crown and root rot

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot, Thread blight

*Sphaerotheca pannosa* — Powdery mildew *Sphaerotheca rosae* — Powdery mildew *Sphaerotheca* sp. — Powdery mildew *Verticillium* sp. — Verticillium wilt

NEMATODES

*Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode *Xiphinema* sp. — Dagger nematode

VIRUSES

*Emaravirus* — *Rose rosette virus Ilarvirus* — *Apple mosaic virus*

*Ilarvirus* — *Prunus necrotic ringspot virus*

***Rubus allegheniensis* (Blackberry)**

FUNGI

*Coniothyrium* sp. — Coniothyrium cane blight

*Kuehneola uredinis* — Cane and leaf rust

***Rubus calycinoides* (Creeping Raspberry)**

FUNGI

*Rhizoctonia* sp. — Web blight

***Rubus idaeus* (Red Raspberry)**

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria canker

*Botrytis* sp. — Botrytis blight *Colletotrichum* sp. — Anthracnose *Coniothyrium fuckelii* — Coniothyrium cane blight

*Coniothyrium* sp. — Coniothyrium cane blight *Didymella applanata* — Spur blight *Phragmidium rubidae* — Raspberry yellow rust *Phytophthora* sp. — Phytophthora root rot *Pucciniastrum americanum* — Late leaf rust *Pythium* sp. — Pythium root rot

NEMATODES

*Belonolaimus* sp. — Sting nematode

*Paratrichodorus* sp. — Stubby root nematode

***Rubus occidentalis* (Black Raspberry)**

FUNGI

*Gymnoconia peckiana* — Orange rust

*Phomopsis* sp. — Phomopsis leaf spot

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

ALGAE

*Cephaleuros virescens* — Algal leaf spot

*Cephaleuros* sp. — Cane blotch

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Agrobacterium* sp. — Crown gall

FUNGI

*Alternaria* sp. — Alternaria fruit rot

*Armillaria* sp. — Armillaria root rot *Botryosphaeria dothidea* — Botryosphaeria cane canker

*Botryosphaeria* sp. — Botryospaheria dieback

*Botrytis cinerea* — Gray mold

*Botrytis* sp. — Botrytis fruit rot *Cercospora rubi* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot

*Cercosporella rubi* — Double blossom, Rosette

*Cercosporella* sp. — Rosette

*Cladosporium* sp. — Cladosporium fruit mold *Colletotrichum* sp. — Anthracnose, Colletotrichum rot

*Coniothyrium fuckelli* — Coniothyrium cane canker

*Coniothyrium* sp. — Coniothyrium cane blight, Cane dieback

*Elsinoe veneta* — Anthracnose

*Elsinoe* sp. — Anthracnose

*Gymnoconia interstitialis* — Orange rust *Gymnoconia nitens* — Orange rust *Gymnoconia* sp. — Orange rust *Kuehneola uredinis* — Cane and leaf rust *Kunkelia nitens* — Orange rust

*Leptosphaeria coniothyrium* — Cane blight *Leptosphaeria* sp. — Cane blight *Pestalotia* sp. — Pestalotia leaf spot *Phoma* sp. — Spur blight

*Phomopsis* sp. — Phomopsis leaf spot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Septoria rubi* — Septoria leaf spot *Septoria* sp. — Septoria leaf spot *Sphaerotheca* sp. — Powdery mildew

VIRUSES

*Crinivirus — Blackberry yellow vein-associated virus*

*Luteovirus* — *Raspberry leaf curl virus Nepovirus* — *Tobacco ringspot virus Nepovirus* — *Tomato ringspot virus*

***Rubus* sp. (Boysenberry)**

FUNGI

*Coniothyrium* sp. — Coniothyrium cane blight

#### *Rubus* sp. (Creeping Raspberry)

FUNGI

*Fusarium* sp. — Fusarium stem and root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

***Rubus* sp. (Raspberry)**

BACTERIA

*Agrobacterium* sp. — Crown gall

***Rubus* sp. (Trailing Boysenberry)**

FUNGI

*Coniothyrium* sp. — Stem canker

***Spiraea japonica* (Japanese Spirea)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

*Phytophthora* sp. — Phytophthora root rot

***Spiraea* x *bumalda* (Bumald Spirea)**

FUNGI

*Cylindrosporium filipendulae* — Leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

***Spiraea* sp. (Spirea)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Coniothyrium fuckelii* — Coniothyrium cane blight

*Coniothyrium* sp. — Coniothyrium cane blight *Cylindrosporium rubi* — Cylindrosporium leaf spot

*Cylindrosporium* sp. — Cylindrosporium leaf spot

*Fusarium* sp. — Fusarium stem rot *Leptosphaeria coniothyrium* — Cane blight *Phytophthora* sp. — Phytophthora root rot *Pucciniastrum americanum* — Late leaf rust *Pythium* sp. — Pythium root rot

*Septoria* sp. — Septoria leaf spot *Sphaerulina rubi* — Sphaerulina leaf spot *Verticillium* sp. — Verticillium wilt

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

FUNGI

*Phytophthora* sp. — Phytophthora root rot

*Rhizoctonia* sp. — Web blight

*Armillaria* sp. — Armillaria root rot *Oidium* sp. — Powdery mildew *Pythium* sp. — Pythium root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

**RUBIACEAE**

***Coprosma* sp. (Mirrorplant)**

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Galium odoratum* (Sweet Woodruff)**

FUNGI

*Phoma* sp. — Dieback, Phoma canker

***Galium* sp. — Bedstraw**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Gardenia jasminoides* (Cape Jasmine)**

BACTERIA

*Xanthomonas campestris* — Bacterial leaf spot

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Rhizoctonia* sp.—Rhizoctonia root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematodes

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

FUNGI

*Fusarium* sp. — Fusarium root rot *Phytophthora* sp. — Phytophthora root rot *Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

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

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Botrytis* sp. — Botrytis bud rot *Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium root rot *Phoma* sp. — Phoma canker

*Phomopsis gardeniae* — Phomopsis canker *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root and crown rot

*Phytophthora* sp. — Phytophthora crown and root rot

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Pentas* sp. (Pentas)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Pythium* sp. — Pythium root rot *Stemphylium* sp. — Stemphylium leaf spot

***Pinckneya* sp. (Fever Tree)**

FUNGI

*Phytophthora nicotianae* — Phytophthora root rot

**RUTACEAE**

***Citrus aurantifolia* (Key Lime)**

FUNGI

*Gloeosporium limetticola* — Lime withertip, Lime anthracnose

***Citrus limon* (Lemon)**

BACTERIA

*Candidatus* Liberibacter asiaticus — Citrus greening

FUNGI

*Phytophthora nicotianae* — Phytophthora root rot

***Citrus paradisi* (Grapefruit)**

BACTERIA

***Ruta* sp. (Rue)**

FUNGI

*Candidatus* Liberibacter asiaticus — Citrus greening

***Citrus paradisi* x *reticulate* (Ugli Fruit)**

FUNGI

*Mycosphaerella citri* — Citrus greasy spot

***Citrus reticulata* (Mandarin, Tangerine, Satsuma)**

BACTERIA

*Candidatus* Liberibacter asiaticus — Citrus greening

FUNGI

*Colletotrichum gloeospoioides* — Anthracnose

***Citrus sinensis* (Sweet Orange)**

BACTERIA

*Candidatus* Liberibacter asiaticus — Citrus greening

***Citrus x tangelo* (Tangelo)**

FUNGI

*Colletotrichum* sp. — Anthracnose fruit rot

***Citrus* sp. (Orange)**

FUNGI

*Cladosporium* sp. — Scab *Geotrichum candidum* — Sour rot *Penicillium digitatum* — Green mold *Sphaceloma fawcetti* — Citrus scab

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

***Skimmia* x *foremanii* (Skimmia)**

FUNGI

*Pythium* sp. — Pythium root rot

**SALICACEAE**

***Populus deltoides* (Eastern Cottonwood)**

FUNGI

*Melampsora medusa* — Rust

*Melampsora* sp. — Rust

***Populus nigra* (Lombardy Poplar)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Cryptodiaporthe populea* — Ink spot *Marssonina populi* — Leaf spot

***Populus* sp. (Poplar)**

FUNGI

*Botryosphaeria dothidea* — Botryosphaeria canker

*Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Cryptodiaporthe populea* — Ink spot *Marssonina* sp. — Anthracnose

*Phomopsis* sp. — Phomopsis dieback

*Septoria* sp. — Septoria leaf spot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

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

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Agrobacterium* sp. — Crown gall

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria dothidea* — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Cryptosporium* sp. — Branch canker *Melampsora* sp. — Rust

*Nectria* sp. — Nectria canker

*Phoma* sp. — Twig blight and dieback *Phomopsis* sp. — Phomopsis canker *Pseudocercospora salicina* — Pseudocercospora leaf spot

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

*Sphaeropsis* sp. — Twig blight

***Salix discolor* (Pussy Willow)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Dothiorella* sp. — Branch canker *Gloeosporium* sp. — Anthracnose

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

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria canker *Cercospora* sp. — Cercospora leaf spot *Monostichella salicis* — Leaf spot *Phoma/Phyllosticta* sp. — Twig blight and dieback

***Salix pentandra* (Laurel Willow)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback

***Salix sepulcralis* (Weeping Willow)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback, canker, and twig blight

*Pseudocercospora* sp. — Pseudocercospora leaf spot

***Salix* sp. (Golden Willow)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

***Salix* sp. (Willow)**

BACTERIA

*Agrobacterium* tumefaciens — Crown gall

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Armillaria mellea* — Armillaria root rot *Botryosphaeria dothidea* — Botryosphaeria dieback

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora salicina* — Cercospora leaf spot *Cercospora salicis* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Cylindrosporium* sp. — Cylindrosporium leaf spot *Cytospora* sp. — Cytospora canker and dieback *Gloeosporium* sp. — Gloeosporium leaf spot *Macrophoma* sp. — Branch canker

*Melampsora* sp. — Rust *Phoma/Phyllosticta* sp. — Phoma dieback *Phomopsis* sp. — Phomopsis dieback *Pythium* sp. — Pythium root rot

*Venturia* sp. — Scab

**SAPINDACEAE**

***Koelreuteria paniculata* (Golden Rain Tree)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

S**AXIFRAGACEAE**

***Astilbe* x *arendsii* (Astilbe)**

FUNGI

*Pythium* sp. — Pythium root rot

***Astilbe japonica* (False Spiraea)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

*Rhizoctonia* sp. — Rhizoctonia stem/petiole rot

***Astilbe* sp. (Astilbe)**

***Hydrangea arborescens* (Hills-of-Snow)**

FUNGI

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium stem rot

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Hydrangea hortensis* (French Hydrangea)**

FUNGI

*Colletotrichum* sp. — Anthracnose

FUNGI

*Fusarium* sp. — Fusarium crown rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia crown, petiole, root and stem rot

*Thielaviopsis basicola* — Black root rot

***Heuchera* sp. (Heuchera, Coral Bells)**

FUNGI

*Alternaria* sp. — Alternaria blight *Botrytis cinerea* — Botrytis crown rot *Botrytis* sp. — Botrytis blight

*Colletotrichum* sp. — Anthracnose, Leaf spot *Cylindrocladium* sp. — Cylindrocladium canker and stem rot

*Oidium* sp. — Powdery mildew

*Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora crown and root rot

*Phytophthora* sp. — Phytophthora crown and root rot, Phytophthora dieback

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Puccinia heucherae* — Heuchera rust

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root, crown and stem rot

*Thielaviopsis basicola* — Black root rot

***Hydrangea macrophylla* (French Hydrangea, Bigleaf Hydrangea)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose, Colletotrichum leaf spot

*Corynespora cassiicola* — Corynespora leaf spot

*Fusarium* sp. — Fusarium root rot *Oidium* sp. — Powdery mildew *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot

VIRUSES

*Nepovirus* — *Tobacco ringspot virus Tospovirus* — *Impatiens necrotic spot virus*

***Hydrangea quercifolia* (Oak Leaf Hydrangea)**

BACTERIA

*Xanthamonas* sp. — Bacterial leaf spot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. —Botryosphaeria canker *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phomopsis* sp. — Phomopsis canker *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

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

BACTERIA

*Pseudomonas syringae* — Bacterial leaf spot

*Xanthomonas campestris* — Bacterial leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis cinerea* — Gray mold

*Cercospora hydrangeae* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum acutatum* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Corynespora cassiicola* — Corynespora leaf spot *Corynespora* sp. — Corynespora leaf spot *Helminthosporium* sp. — Helminthosporium leaf spot

*Oidium* sp. — Powdery mildew

*Phoma* sp. — Phoma leaf spot

*Phyllosticta* sp. — Phyllosticta leaf spot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

*Thielaviopsis basicola* — Black root rot

VIRUSES

*Cucumovirus* — *Cucumber mosaic virus*

***Itea virginica* (Virginia Sweetspire)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot

***Itea* sp. (Itea)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Ribes nigrum* (Black Currant)**

FUNGI

*Oidium* sp. — Powdery mildew

***Ribes* sp. (Wild Currant)**

FUNGI

*Puccinia* sp. — Rust

***Saxifraga* sp. (Saxifraga)**

FUNGI

*Pythium splendens* — Pythium root rot

***Tiarella* sp. (False Miterwort)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

*Thievalopsis basicola* — Black root rot

**SCROPHULARIACEAE**

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

FUNGI

*Botrytis cinerea* — Gray mold, Botrytis blight *Cercospora antirrhini* — Cercospora leaf spot *Fusarium* sp. — Fusarium root and stem rot, Fusarium wilt

*Peronospora antirrhini* — Downy mildew *Peronospora* sp. — Downy mildew *Phoma* sp. — Phoma leaf spot and stem rot

*Phyllosticta antirrhini* — Stem rot and canker *Phytophthora nicotianae* — Phytophthora root and stem rot

*Phytophthora parasitica* — Phytophthora root and stem rot

*Puccinia antirrhini* — Rust

*Pythium* sp. — Pythium root and stem rot, Damping off

*Rhizoctonia* sp. — Rhizoctonia root and stem rot, Damping off

*Sclerotinia sclerotiorum* — Sclerotinia stem rot *Sclerotium rolfsii* — Southern blight *Verticillium* sp. — Verticillium wilt

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Bacopa* sp. (Water Hyssop)**

FUNGI

*Botrytis* sp. — Gray mold

*Pythium* sp. — Pythium root and stem rot

***Calceolaria* sp. (Slipperwort)**

FUNGI

*Phytophthora* sp. — Phytophthora crown and leaf rot

***Digitalis purpurea* (Foxglove)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora cinnamomi* — Phytophthora root and crown rot

*Pythium* sp. — Pythium root and crown rot

***Digitalis* sp. (Foxglove)**

BACTERIA

*Pseudomonas cichorii* — Petiole and stem necrosis

FUNGI

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora cryptogea* — Phytophthora root rot *Phytophthora* sp. — Phytophthora crown rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

***Mazus reptans* (Mazus)**

FUNGI

*Pythium* sp. — Pythium root and crown rot

***Mazus* sp. (Mazus)**

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Nemesia* sp. (Nemesia)**

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Paulownia elongata* (Princess Tree)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Phytophthora cinnamomi* — Phytophthora root and crown rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Penstemon* sp. (Beard Tongue)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora root and stem rot

*Phytophthora* sp. — Phytophthora stem and root rot

*Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot *Sclerotium rolfsii* — Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Tobamovirus — Tomato ringspot virus Tospovirus* — *Impatiens necrotic spot virus Tospovirus — Tomato spotted wilt virus*

***Phygelius* sp. (Cape Fuschia)**

FUNGI

*Phoma* sp. — Phoma blight

***Torenia* sp. (Torenia)**

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus*

***Veronica longifolia* (Speedwell)**

FUNGI

*Ramularia* sp. — Ramularia leaf spot

***Veronica spicata* (Speedwell)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Peronospora grisea* — Downy mildew *Peronospora* sp. — Downy mildew *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Ramularia* sp. — Ramularia leaf spot

***Veronica* sp. (Speedwell)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Oidium* sp. — Powdery mildew

*Phytophthora* sp. — Phytophthora crown, root and stem rot

*Pythium* sp. — Pythium root and stem rot *Rhizoctonia* sp. — Rhizoctonia stem rot *Septoria* sp. — Septoria leaf spot

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

**SOLANACEAE**

***Calibrachoa* sp. (Million Bells)**

FUNGI

*Pythium* sp. — Pythium root and crown rot

*Thievalopsis basicola* — Black root rot

#### *Capsicum annuum* (Banana Pepper, Bell Pepper, Cayenne Pepper, Pimento Pepper, Sweet Pepper, Yellow Bell Pepper)

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt *Xanthomonas campestris* — Bacterial spot *Xanthomonas campestris* pv. *vesicatoria* — Bacterial spot

FUNGI

*Alternaria tenuis* — Alternaria fruit rot *Alternaria* sp. — Alternaria fruit rot *Armillaria* sp. — Armillaria root rot *Botrytis cinerea* — Botrytis blight

*Cercospora* sp. — Cercospora leaf spot, Frogeye leaf spot

*Colletotrichum* sp. — Anthracnose, Fruit rot *Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium root and stem rot, Fusarium wilt

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium crown and root rot *Rhizoctonia* sp. — Rhizoctonia root and stem rot, Web blight

*Sclerotium rolfsii* — Southern blight

*Stemphylium solani* — Grey leaf spot

NEMATODES

*Hoplolaimus columbus* — Columbia lance nematode

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Cucumovirus* — *Cucumber mosaic virus Potyvirus* — *Potato virus y*

*Tospovirus* — *Tomato spotted wilt virus*

***Capsicum chinense* (Habanero Pepper)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

*Pythium sp.* — Pythium root rot

VIRUSES

*Cucumovirus* — *Cucumber mosaic virus*

***Capsicum frutescens* (Chili Pepper)**

BACTERIA

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Phytophthora capsici* — Pepper blight, Phytophthora root rot

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

BACTERIA

*Erwinia carotovora* — Bacterial soft rot *Erwinia herbicola* — Bacterial soft rot *Pseudomonas* sp. — Bacterial spot *Ralstonia solanacearum* — Bacterial wilt *Xanthomonas campestris* — Bacterial spot *Xanthomonas campestris* pv. *vesicatoria* — Bacterial spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Colletotrichum* sp. — Anthracnose *Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium stem rot *Macrophomina* sp. — Charcoal rot *Phytophthora* sp. — Phytophthora root rot

*Pythium* sp. — Pythium root rot, Damping off *Rhizoctonia* sp. — Rhizoctonia stem rot *Sclerotium rolfsii* — Southern blight, White mold

NEMATODES

*Helicotylenchus* sp. — Spiral nematode

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Cucumovirus* — *Cucumber mosaic virus*

*Potyvirus* — *Tobacco etch virus Tospovirus* — *Tomato spotted wilt virus - l*

***Datura* sp. (Thorn Apple)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

***Lycium barbarum* (Goji Berry)**

FUNGI

*Colletotrichum acutatum* — Anthracnose fruit rot

***Lycopersicon lycopersicum* (Tomato)**

BACTERIA

*Agrobacterium radiobacter* — Crown gall *Agrobacterium tumefaciens* — Crown gall *Clavibacter michiganensis* — Bacterial canker *Clavibacter* sp. — Bacterial canker *Corynebacterium michiganense* — Bacterial canker

*Erwinia carotovora* — Bacterial soft rot *Erwinia chrysanthemi* — Bacterial soft rot *Pectobacterium chrysanthemi* — Bacterial stem rot

*Pseudomonas corrugata* — Pith necrosis *Pseudomonas syringae* — Bacterial speck *Pseudomonas* sp. — Bacterial speck *Ralstonia solanacearum* — Bacterial wilt *Ralstonia* sp. — Bacterial wilt *Xanthomonas axonopodis* — Bacterial spot *Xanthomonas campestris* — Bacterial spot

*Xanthomonas perforans* — Tomato bacterial spot *Xanthomonas vesicatoria* — Bacterial spot *Xanthomonas* sp. — Bacterial spot

FUNGI

*Alternaria alternata* — Black shoulder *Alternaria solani* — Early blight *Alternaria tenuissima* — Nailhead spot

*Alternaria* sp. — Alternaria fruit rot, Early blight *Botrytis cinerea* — Gray mold, Ghost spot *Botrytis* sp. — Gray mold

*Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Leaf mold *Colletotrichum coccodes* — Anthracnose *Colletotrichum phomoides* — Anthracnose *Colletotrichum* sp. — Anthracnose

*Corynespora cassiicola* — Corynespora leaf spot

*Fulvia fulva* — Leaf mold

*Fusarium oxysporum* — Fusarium wilt *Fusarium* sp. — Fusarium crown, fruit, root and stem rot, Leaf spot, Fusarium wilt *Macrophomina* sp. — Charcoal rot

*Oidiopsis sicula* — Powdery mildew *Oidium* sp. — Powdery mildew *Phoma destructiva* — Phoma rot

*Phoma sp.* — Phoma rot, Phoma leaf spot *Phomopsis* sp. — Phomopsis canker *Phytophthora capsici* — Phytophthora stem and root rot

*Phytophthora infestans* — Late blight *Phytophthora nicotianae* — Phytophthora root rot *Phytophthora parasitica* — Buckeye rot, Phytophthora root rot

*Phytophthora* sp. — Phytophthora fruit and root rot, Buckeye rot, Late blight

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium aphanidermatum* — Pythium root rot *Pythium* sp. — Pythium root and stem rot *Rhizoctonia* sp. — Rhizoctonia root and stem rot, Damping off

*Rhizopus* sp. — Rhizopus fruit rot

*Sclerotinia sclerotiorum* — White rot, Sclerotinia stem rot

*Sclerotium rolfsii* — Southern blight *Sclerotium* sp. — Southern blight *Septoria lycopersici* — Septoria leaf spot

*Septoria* sp. — Septoria leaf spot, Septoria blight *Stemphylium solani* — Gray leaf spot *Stemphylium* sp. — Gray leaf spot

NEMATODES

*Belonolaimus* sp. — Sting nematode *Criconemella* sp. — Ring nematode *Helicotylenchus* sp. — Spiral nematode *Hoplolaimus* sp. — Lance nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Scutellonema* sp. — Spiral nematode *Tylenchorhynchus* sp. — Stunt nematode

VIRUSES

*Cucumovirus* — *Cucumber mosaic virus Cucumovirus* — *Tomato aspermy virus Nepovirus* — *Tobacco ringspot virus Potyvirus* — *Potato virus y*

*Potyvirus* — *Tomato etch virus Tobamovirus* — *Tobacco mosaic virus*

*Tobamovirus* — *Tomato mosaic virus Tospovirus* — *Tomato spotted wilt virus Tospovirus* — *Tomato spotted wilt virus - l*

***Nicotiana* sp. (Tobacco)**

BACTERIA

*Burkholderia solanacearum* — Bacterial wilt

*Erwinia carotovora* — Black leg *Ralstonia solanacearum* — Granville wilt, Bacterial wilt

*Ralstonia* sp. — Granville wilt

FUNGI

*Alternaria alternata* — Brown spot *Alternaria tenius* — Brown spot *Alternaria* sp. — Brown spot

*Cercospora nicotianae* — Frogeye leaf spot *Fusarium oxysporum* — Fusarium wilt *Fusarium tricinctum* — Fusarium stalk rot *Fusarium* sp. — Fusarium stem rot, Wilt *Peronospora tabacina* — Blue mold *Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora parasitica* — Black shank *Phytophthora* sp. — Black shank

*Pythium* sp. — Pythium root rot

*Rhizoctonia solani* — Sore shin, Damping off, Target spot

*Rhizoctonia* sp. — Rhizoctonia root and stem rot, Sore shin, Target spot

*Sclerotium rolfsii* — Southern blight

*Sclerotium* sp. — Southern blight

NEMATODES

*Helicotylenchus* sp. — Spiral nematode *Meloidogyne incognita* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Pratylenchus* sp. — Lesion nematode *Scutellonema* sp. — Spiral nematode *Tylenchorhynchus* sp. — Stunt nematode

VIRUSES

*Cucumovirus* — *Cucumber mosaic virus Potyvirus* — *Potato virus y*

*Potyvirus* — *Tobacco etch virus Tobamovirus* — *Tobacco mosaic virus Tospovirus* — *Tomato spotted wilt virus Tospovirus* — *Tomato spotted wilt virus - l*

***Petunia* x *hybrida* (Wave Petunia, Petunia)**

BACTERIA

*Acidovorax* (*Pseudomonas*) *facilis* — Bacterial leaf spot

*Phomopsis vexans* — Phomopsis fruit rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

NEMATODES

FUNGI

*Colletotrichum* sp. — Stem rot

*Phytophthora nicotianae* — Phytophthora crown, root and stem rot

*Phytophthora* sp. — Phytophthora crown rot *Pythium* sp. — Pythium root and stem rot *Thielaviopsis basicola* — Black root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

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

FUNGI

*Botrytis* sp. — Botrytis blight

*Fusarium* sp. — Fusarium crown, root and stem rot

*Phytophthora cryptogea* — Phytophthora root rot *Phytophthora nicotianae* — Phytophthora root and stem rot

*Phytophthora* sp. — Phytophthora root and stem rot

*Pythium* sp. — Pythium crown and root rot, Damping off

*Rhizoctonia* sp. — Rhizoctonia crown, root and stem rot, Damping off

*Sclerotium rolfsii* — Southern blight

*Thielaviopsis basicola* — Black root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Solanum melongena* (Eggplant)**

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

*Ralstonia solanacearum* — Bacterial wilt

FUNGI

*Colletotrichum* sp. — Anthracnose *Fusarium* sp. — Fusarium wilt *Phomopsis* sp. — Phomopsis fruit rot

*Meloidogyne* sp. — Root-knot nematode

*Paratrichodorus* sp. — Stubby root nematode

***Solanum tuberosum* (Irish Potato)**

BACTERIA

*Erwinia carotovora* — Bacterial soft rot, Black leg

*Ralstonia solanacearum* — Bacterial wilt *Streptomyces scabies* — Common scab *Streptomyces* sp. — Common scab

FUNGI

*Alternaria solani* — Early blight

*Alternaria* sp. — Alternaria leaf spot, Early blight *Fusarium* sp. — Fusarium dry rot, Fusarium tuber rot

*Phoma* sp. — Phoma stem rot

*Rhizoctonia solani* — Rhizoctonia canker *Rhizoctonia* sp. — Rhizoctonia root and stem rot *Sclerotium rolfsii* — Southern blight

*Sclerotium* sp. — Southern blight *Spongospora subterranean* — Powdery scab *Spongospora* sp. — Powdery scab *Stemphylium* sp. — Stemphylium leaf spot *Pythium* sp. — Potato Leak

NEMATODES

*Belonolaimus* sp. — Sting nematode *Helicotylenchus* sp. — Spiral nematode *Meloidogyne incognia* — Root-knot nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode

VIRUSES

*Luteovirus* — *Potato leafroll virus*

**STYRACACEAE**

***Halesia carolina* (Carolina Silverbell)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

**SYMPLOCACEAE**

***Symplocos* sp. (Horse Sugar)**

FUNGI

*Exobasidium symploci* — Bud gall

**TAXACEAE**

***Taxus brevifolia* (Pacific Yew, Western Yew)**

FUNGI

*Phytophthora syringae* — Phytophthora twig blight

***Taxus cuspidata* (Japanese Yew)**

FUNGI

*Colletotrichum* sp. — Anthracnose

***Taxus* x *media* (Brown's Yew)**

FUNGI

*Macrophoma* sp. — Macrophoma blight

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

FUNGI

*Armillaria* sp. — Armillaria root rot *Colletotrichum* sp. — Anthracnose *Phytophthora cinnamomi* — Phytophthora root and crown rot

**THEACEAE**

***Camellia japonica* (Camellia)**

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Cladosporium* sp. — Cladosporium bud blight *Colletotrichum gloeosporioides* — Anthracnose *Colletotrichum* sp. — Anthracnose, Leaf spot *Exobasidium camelliae* — Exobasidium leaf gall *Exobasidium* sp. — Exobasidium leaf gall *Fusarium* sp. — Fusarium root rot *Gloeosporium* sp. — Gloeosporium leaf spot *Glomerella cingulata —* Camellia canker and dieback

*Glomerella* sp. — Camellia canker and dieback

*Nectria* sp. — Nectria canker *Pestalotiopsis* sp. — Gray leaf blight *Phomopsis* sp. — Phomopsis dieback

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora ramorum* — Ramorum blight *Phytophthora* sp. — Phytophthora root rot, Leaf blight

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Criconemella* sp. — Ring nematode

VIRUSES

*Varicosavirus* — *Camellia yellow mottle virus*

***Camellia oleifera* (Tea-oil Plant)**

FUNGI

*Glomerella cingulata —* Camellia canker and dieback

***Camellia sasanqua* (Camellia, Sasanqua)**

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum gloeosporioides* — Colletotrichum dieback

*Colletotrichum* sp. — Anthracnose

*Exobasidium camelliae* — Exobasidium leaf gall

*Fusarium* sp. — Fusarium root rot *Glomerella cingulata —* Camellia canker and dieback

*Glomerella* sp. — Camellia canker and dieback *Gloeosporium* sp. — Gloeosporium leaf spot *Pestalotiopsis* sp. — Pestalotiopsis leaf spot *Phomopsis* sp. — Phomopsis dieback, tip blight, and canker

*Phytophthora ramorum* — Ramorum blight *Phytophthora* sp. — Phytophthora root rot, Leaf blight

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

LICHENS

*Strigula* sp. — Lichenized algal leaf spot

NEMATODES

*Criconemella* sp. — Ring nematode

VIRUSES

*Varicosavirus* — *Camellia yellow mottle virus*

***Camellia sinensis* (Tea, Tea Plant)**

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Colletotrichum gloeosporioides* — Dieback *Colletotrichum* sp. — Colletotrichum leaf spot, Anthracnose

*Glomerella cingulata* — Glomerella dieback and canker

*Phomopsis* sp. — Phomopsis dieback, tip blight, and canker

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Rhizoctonia* sp. — Rhizoctonia root rot

LICHENS

*Strigula* sp. — Lichenized algal leaf spot

#### Camellia sp. (Camellia)

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria dieback *Botrytis* sp. — Flower blight

*Cercospora theae* — Cercospora leaf spot *Ciborinia camelliae* — Flower blight *Colletotrichum* sp. — Anthracnose, Colletotrichum crown rot, Dieback *Exobasidium camelliae* — Leaf gall *Exobasidium* sp. — Leaf gall

*Glomerella cingulata* — Camellia canker and dieback

*Glomerella* sp. — Camellia canker and dieback *Microsphaera* sp. — Powdery mildew *Pestalotia* sp. — Pestalotia leaf spot *Phomopsis* sp. — Phomopsis dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora ramorum* — Ramorum blight *Phytophthora* sp. — Phytophthora root rot, Phytophthora blight

*Pseudocercospora* sp. — Pseudocercospora leaf spot

*Pythium* sp. — Pythium root rot

*Sclerotium rolfsii* — Southern blight

NEMATODES

*Criconemella* sp. — Ring nematode

*Meloidogyne* sp. — Root-knot nematode

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus Varicosavirus* — *Camellia yellow mottle virus*

***Cleyera japonica* (Cleyera)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

NEMATODES

*Xiphinema* sp. — Dagger nematode

***Cleyera* sp. (Cleyera)**

ALGAE

*Cephaleuros virescens* — Algal leaf spot

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Armillaria* sp. — Armillaria root rot *Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Anthracnose *Gloeosporium* sp. — Gloeosporium leaf spot *Phomopsis* sp. — Phomopsis crown canker, Dieback

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Franklinia* sp. (Franklinia)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Gordonia lasianthus* (Loblolly Bay)**

FUNGI

*Pseudocercospora* sp. — Pseudocercospora leaf spot

***Stewartia pseudocamellia* (Japanese Stewartia)**

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

***Ternstroemia gymnanthera* (Ternstroemia)**

FUNGI

*Armillaria* sp. — Armillaria root rot *Cercospora* sp. — Cercospora leaf spot *Colletotrichum* sp. — Colletotrichum leaf spot *Phytophthora* sp. — Phytophthora root rot *Rhizoctonia* sp. — Rhizoctonia leaf spot *Thielaviopsis basicola* — Black root rot

**THYMELAEACEAE**

***Daphne odora* (Winter Daphne)**

ALGAE

*Cephaleuros virescens* — Algal leaf spot

BACTERIA

*Agrobacterium* sp. — Crown gall

FUNGI

*Botryosphaeria* sp. — Botryosphaeria dieback *Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

*Sclerotium rolfsii* — Southern blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Daphne* sp. (Daphne)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

FUNGI

*Phytophthora cinnamomi* — Phytophthora root rot

*Phytophthora nicotianae* — Phytophthora root rot *Phytophthora* sp. — Phytophthora crown and root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

FUNGI

*Botryosphaeria* sp. — Botryosphaeria twig dieback

*Gnomonia ulmea* — Black leaf spot

*Ophiostoma ulmi* — Dutch elm disease

***Ulmus* sp. (Elm)**

*Meloidogyne* sp. — Root-knot nematode

***Edgeworthia chrysantha* (Edgeworthia, Oriental Paperbush)**

FUNGI

*Pythium* sp. — Pythium root and crown rot

**TYPHACEAE**

***Typha latifolia* (Cattail)**

FUNGI

*Colletotrichum* sp. — Anthracnose

**ULMACEAE**

***Celtis* sp. (Hackberry)**

FUNGI

*Fusarium* sp. — Fusarium stem rot

***Ulmus alata* (Winged Elm)**

FUNGI

*Ophiostoma ulmi* — Dutch elm disease

***Ulmus americana* (American Elm)**

BACTERIA

*Xylella fastidiosa* — Bacterial leaf scorch

FUNGI

*Colletotrichum* sp. — Anthracnose *Gnomonia ulmea* — Black leaf spot *Microsphaera* sp. — Powdery mildew *Monochaetia monochaeta* — Zonate leaf spot *Oidium* sp. — Powdery mildew

*Ophiostoma ulmi* — Dutch elm disease *Phyllosticta* sp. — Phyllosticta leaf spot *Pseudocercospora* sp. — Pseudocercospora leaf spot

*Taphrina ulmi* — Leaf blister

***Zelkova serrata* (Japanese Zelkova)**

FUNGI

*Armillaria* sp. — Armillaria root rot

***Zelkova* sp. (Zelkova)**

FUNGI

*Phoma* sp. — Phoma leaf spot

**VERBENACEAE**

***Callicarpa americana* (Beautyberry)**

FUNGI

*Phytophthora* sp. — Phytophthora crown and root rot

***Callicarpa* sp. (Beautyberry)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Caryopteris* sp. (Bluebeard)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root rot *Rhizoctonia* sp. — Rhizoctonia root rot

***Lantana camara* (Yellow Sage)**

FUNGI

*Colletotrichum* sp. — Anthracnose *Thielaviopsis basicola* — Black root rot *Puccinia lantanae* — Rust

***Lantana* sp. (Lantana)**

BACTERIA

*Xanthomonas* sp. — Bacterial leaf spot

FUNGI

*Corynespora cassiicola* — Corynespora leaf spot

*Puccinia lantanae* — Rust

*Phyllosticta* sp. — Phyllosticta leaf spot

*Phytophthora* sp. — Phytophthora root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Phyla nodiflora* (Turkey Tangle Fogfruit)**

FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

*Sclerotium rolfsii* — Southern stem blight

***Verbena canadensis* (Rose Verbena)**

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus*

***Verbena* sp. ‘Aztec’ (Verbena)**

FUNGI

*Pythium* sp. — Pythium root rot

***Verbena* sp. (Verbena)**

BACTERIA

*Pseudomonas cichorii* — Bacterial leaf spot, Stem necrosis

*Pseudomonas syringae* —Bacterial blight

FUNGI

*Alternaria* sp. — Alternaria leaf spot *Cercospora* sp. — Cercospora leaf spot *Fusarium* sp. — Fusarium root, crown and stem rot

*Oidium* sp. — Powdery mildew *Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora root rot *Phytophthora parasitica* — Phytophthora crown rot

*Phytophthora* sp. — Phytophthora root rot *Pythium* sp. — Pythium root and crown rot *Rhizoctonia* sp. — Rhizoctonia crown and root rot

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

VIRUSES

*Tospovirus* — *Impatiens necrotic spot virus Tospovirus* — *Tomato spotted wilt virus Tospovirus* — *Tomato spotted wilt virus - l*

FUNGI

*Phoma/Phyllosticta* sp. — Phyllosticta leaf spot *Phytophthora nicotianae* — Phytophthora stem rot

***Vitex* sp. (Vitex)**

FUNGI

*Phytophthora* sp. — Phytophthora root and stem rot

*Pythium* sp. — Pythium root and stem rot

*Pythium* sp. — Pythium root rot

**VIOLACEAE**

***Viola cornuta* (Viola)**

FUNGI

*Botrytis* sp. — Botrytis blight *Cercospora* sp. — Cercospora leaf spot *Sphaceloma* sp. — Scab

***Viola wittrockiana* (Pansy)**

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botrytis cinerea* — Botrytis blight, Gray mold *Botrytis* sp. — Botrytis blight, Gray mold *Cercospora violae* — Cercospora leaf spot *Cercospora* sp. — Cercospora leaf spot, Stem necrosis

*Colletotrichum* sp. — Anthracnose

*Fusarium* sp. — Fusarium stem rot, Damping off, Fusarium root rot

*Myrothecium* sp. — Myrothecium leaf spot *Phytophthora cactorum* — Phytophthora stem and root rot

*Phytophthora nicotianae* — Phytophthora root rot, Damping off

*Phytophthora parasitica* — Phytophthora crown, root and stem rot

*Phytophthora* sp. — Phytophthora root rot

*Puccinia* sp. — Rust

*Pythium* sp. — Pythium crown, root and stem rot; Damping off

*Ramularia lactea* — White spot

*Rhizoctonia* sp. — Rhizoctonia crown, root and stem rot; Damping off

*Stemphylium* sp. — Stemphylium leaf spot

*Thielaviopsis basicola* — Black root rot

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

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

FUNGI

*Botrytis cinerea* — Leaf and stem blight, Gray mold

*Botrytis* sp. — Botrytis blight

*Cercospora* sp. — Cercospora leaf spot *Phytophthora cactorum* — Phytophthora blight and dieback

*Phytophthora nicotianae* — Phytophthora root and stem rot

*Pythium* sp. — Pythium root rot and crown rot *Rhizoctonia* sp. — Rhizoctonia stem rot *Sclerotium rolfsii* — Southern blight *Sphaerotheca macularis* — Powdery mildew *Thielaviopsis basicola* — Black root rot

NEMATODES

*Aphelenchoides* sp. — Foliar nematode

**VITACEAE**

***Cissus rhombifolia* (Grape Ivy)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

***Parthenocissus quinquefolia* (Virginia Creeper)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

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

FUNGI

*Glomerella cingulata —* Anthracnose *Phyllosticta ampelicida* — Phyllosticta leaf spot *Plasmopara viticola* — Downy mildew *Rhizoctonia* sp. — Rhizoctonia root rot, Thread blight

***Vitis aestivalis* var. *bourquiniana* (Bourquin Summer Grape)**

NEMATODES

*Criconemella* sp. — Ring nematode

***Vitis labrusca* (Fox Grape)**

BACTERIA

*Xylella fastidiosa* — Pierce's disease

FUNGI

*Armillaria* sp. — Armillaria root rot *Elsinoe ampelina* — Anthracnose *Eutypa* sp. — Eutypa canker *Gloeosporium* sp. — Anthracnose *Greeneria uvicola* — Bitter rot *Guignardia bidwellii* — Black rot *Plasmopara viticola* — Downy mildew *Pseudocercospora vitis* — Leaf blight

NEMATODES

*Meloidogyne* sp. — Root-knot nematode

***Vitis rotundifolia* (Muscadine Grape, Grape)**

BACTERIA

*Agrobacterium tumefaciens* — Crown gall

*Agrobacterium* sp. — Crown gall

*Xylella fastidiosa* — Pierce's disease

FUNGI

*Armillaria* sp. — Armillaria root rot *Botryosphaeria dothidea* — Botryosphaeria dieback

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*Cercospora brachypus* — Angular leaf spot *Cercospora* sp. — Cercospora leaf spot, Angular leaf spot

*Colletotrichum gloeosporioides* — Anthracnose

*Colletotrichum* sp. — Ripe rot *Coniothyrium* sp. — White rot *Eutypa* sp. — Eutypa dieback *Gloeosporium* sp. — Ripe rot *Glomerella cingulata* — Ripe rot *Glomerella* sp. — Ripe rot *Greeneria uvicola* — Bitter rot *Guignardia bidwellii* — Black rot *Isariopsis* sp. — Isariopsis leaf spot *Macrophoma* sp. — Macrophoma rot

*Melanconium fuligineum* — Bitter rot *Melanconium* sp. — Bitter rot *Microsphaera* sp. — Powdery mildew

*Mycosphaerella angulata* — Angular leaf spot *Mycosphaerella* sp. — Angular leaf spot *Phoma viticola* — Phoma dieback *Phyllosticta ampelicida* — Black rot

*Uncinula* sp. — Powdery mildew

NEMATODES

*Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Xiphinema* sp. — Dagger nematode

***Vitis vinifera* (Grape)**

FUNGI

*Guignardia bidwellii* — Black rot *Plasmopara viticola* — Downy mildew *Uncinula* sp. — Powdery mildew

NEMATODES

*Xiphinema* sp. — Dagger nematode

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

BACTERIA

*Agrobacterium* sp. — Crown gall

*Xylella fastidiosa* — Pierce's disease

FUNGI

*Armillaria* sp. — Armillaria root rot *Botrytis* sp. — Botrytis blight *Botryosphaeria dothidea* — Botryosphaeria canker and dieback

*Botryosphaeria theobromae* — Botryosphaeria dieback

*Botryosphaeria* sp. — Botryosphaeria dieback and canker

*Cercospora brachypus* — Angular leaf spot

*Colletotrichum* sp. — Ripe rot *Coniella diplodiella* — White rot *Elsinoe ampelina* — Anthracnose *Elsinoe veneta* — Anthracnose *Eutypa* sp. — Eutypa canker

*Fusicoccum* sp. — Fusicoccum canker and dieback

*Gloeosporium* sp. — Anthracnose *Glomerella cingulata* — Ripe rot *Glomerella* sp. — Ripe rot *Greeneria uvicola* — Bitter rot *Guignardia bidwellii* — Black rot *Isariopsis* sp. — Isariopsis leaf spot *Macrophoma* sp. — Macrophoma rot *Pestalotia* sp. — Pestalotia stem spot

*Phaeoacremonium* sp. — Petri disease

*Phomopsis* sp. — Phomopsis leaf spot, Cane blight

*Phyllosticta ampelicida* — Black rot *Plasmopara viticola* — Downy mildew *Plasmopara* sp. — Downy mildew *Pseudocercospora vitis* — Leaf blight *Uncinula* sp. — Powdery mildew

NEMATODES

*Criconemella* sp. — Ring nematode *Meloidogyne* sp. — Root-knot nematode *Paratrichodorus* sp. — Stubby root nematode *Pratylenchus* sp. — Lesion nematode *Xiphinema* sp. — Dagger nematode

**ZINGIBERACEAE**

##### *Alpinia zerumbet (Shell Ginger)*

FUNGI

*Colletotrichum* sp. — Colletotrichum leaf spot, Anthracnose

***Zingiber* sp. (Ginger)**

FUNGI

*Pythium* sp. — Pythium root rot

# INDEX TO THE GENERA AND SPECIES OF PLANTS

**A**

*Abelia grandiflora* 38

*Abelmoschus esculentus* 82

*Abies* sp 91

*Abutilon* sp 83

*Acer barbatum* 4

*Acer buergeranum* 4

*Acer japonicum* 4

*Acer negundo* 4

*Acer palmatum* 4, 5

*Acer palmatum* ‘Sango-kaku’ 5

*Acer platanoides* 5

*Acer pseudoplatanus* 5

*Acer rubrum* 5

*Acer saccharinum* 5

*Acer saccharum* 5

*Acer saccharum* subsp. *nigrum* 5

*Acer* sp 6

*Acer* x *freemanii* 6

*Achillea* sp 20

*Achimenes* sp 68

*Aconitum* sp 109

*Acorus gramineus* 12

*Acorus* sp 12

*Actinidia chinensis* 6

*Adenium* sp 7

*Adenophora* sp 37

*Adiantum raddianum* 109

*Aegopodium* sp 7

*Aeschynanthus* sp 69

*Agapanthus* sp 77

*Agastache foeniculum* 72

*Agastache* sp 72

*Agave* sp 17

*Ageratum* sp 20

*Aglaonema commutatum* 12

*Aglaonema modestum* 12

*Aglaonema* sp 12

*Agrostis palustris* 96

*Agrostis* sp 96

*Agrostis stolonifera* 96

*Ajuga reptans* 72

*Ajuga* sp 72

*Albizia julibrissin* 58

*Alcea fastigiata* 83

*Alcea rosea* 83

*Alchemilla mollis* 111

*Alchemilla* sp 111

*Allium giganteum* 77

*Allium sativum* 78

*Allium* sp 78

*Alocasia* sp 12

*Alocasia taro* 12

*Aloe barbadensis* 17

*Aloe* sp 18

*Alpinia zerumbet* 141

*Alstroemeria* sp 78

*Alternanthera* sp 6

*Althaea* sp 83

*Alyssum* sp 30

*Amaranthus* sp 7

*Amaryllis* sp 78

*Amelanchier arborea* 111

*Amelanchier* sp 111

*Ammophila breviligulata* 96

*Amsonia* sp 8

*Anacyclus* sp 20

*Anchusa* sp 30

*Anemone hupehensis* 109

*Anemone* sp 109

*Anoda cristata* 83

*Anthurium* sp 12

*Antigonon leptopus* 108

*Antirrhinum* sp 128

*Aphelandra justicia* 4

*Aquilegia canadensis* 109

*Aquilegia* sp 109

*Arabis* sp 30

*Arachis hypogaea* 58

*Aralia* sp 14

*Araucaria araucana* 15

*Araucaria heterophylla* 16

*Arctostaphylos* sp 54

*Arctotis* sp 20

*Ardisia japonica* 86

*Armeria juniperifolia* 95

*Armeria maritima* 95

*Armeria* sp 95

*Artemisia schmidtiana* 20

*Artemisia* sp 20

*Arugula* sp 31

*Aruncus aesthusifolius* 111

*Asarum* sp 17

*Asclepias* sp 17

*Asparagus officinalis* 18

*Asparagus setaceus* 18

*Asparagus* sp 18

*Aspidistra elatior* 18

*Asplenium* sp 19

*Aster novi-belgii* 20

*Aster* sp 20

*Astilbe japonica* 127

*Astilbe* sp 127

*Astilbe* x *arendsii* 127

*Astrantia* sp 7

*Aubrieta* sp 31

*Aucuba japonica* 42

*Aucuba* sp 43

*Avena* sp 97

*Axonopus* sp 97

# B

*Bacopa* sp 129

*Bambusa* sp 97

*Begonia* sp 28

*Begonia* x *semperflorens-cultorum* 28

*Belamcanda chinensis* 70

*Belamcanda* sp 70

*Berberis* sp 28

*Berberis thunbergii* 28

*Berberis* x *mentorensis* 28

*Beta vulgaris* 41

*Beta vulgaris* var. *cicla* 41

*Betula nigra* 29

*Betula* sp 29

*Bignonia* sp 29

*Bletilla* sp 90

*Bletilla striata* 90

*Borago* sp 30

*Bougainvillea* sp 86

*Brassaia actinophylla* 14

*Brassaia arboricola* 14

*Brassica chinensis* 31

*Brassica juncea* 31

*Brassica juncea* var. *crispifolia* 31

*Brassica juncea* var. *foliosa* 31

*Brassica napus* 31

*Brassica napus* var. *napobrassica* 31

*Brassica napus* var. *solidiflora* 31

*Brassica oleracea* var. *acephala* 32

*Brassica oleracea* var. *botrytis* 32

*Brassica oleracea* var. *capitata* 33

*Brassica oleracea* var. *gemmifera* 33

*Brassica pekinensis* 33

*Brassica rapa* 33

*Brassica rapa* var. *lorifolia* 33

*Brassica* sp 33

*Bromus* sp 97

*Brunnera* sp 30

*Buchloe dactyloides* 97

*Buddleia davidii* 80

*Buddleia salviifolia* 80

*Buddleia* sp 80

*Buddleia* x *weyeriana* 80

*Butia capitata* 16

*Butia* sp 16

*Buxus harlandii* 35

*Buxus microphylla* 35

*Buxus sempervirens* 35

*Buxus* sp 35

# C

*Caladium* sp 12

*Calamintha grandiflora* 73

*Calathea* sp 84

*Calceolaria* sp 129

*Calendula* sp 20

*Calibrachoa sp* 130

*Callicarpa americana* 137

*Callicarpa* sp 137

*Calluna vulgaris* 54

*Calycanthus* sp 36

*Camellia japonica* 134

*Camellia oleifera* 134

*Camellia sasanqua* 135

*Camellia sinensis* 135

*Camellia* sp 135

*Campanula medium* 37

*Campsis grandiflora* 30

*Canna generalis* 37

*Canna* sp 37

*Capsella bursa-pastoris* 34

*Capsicum annuum* 130

*Capsicum chinense* 131

*Capsicum frutescens* 131

*Capsicum* sp 131

*Cardamine* sp 34

*Carex pendula* 52

*Carex* sp 52

*Carya glabra* 71

*Carya illinoinensis* 71

*Carya* sp 72

*Caryopteris* sp 138

*Cassia* sp 59

*Castanea mollissima* 64

*Castanea* sp 64

*Catalpa* sp 30

*Catharanthus roseus* 8

*Catharanthus* sp 8

*Cattleya heneritks* 90

*Cattleya* sp 90

*Cedrus atlantica glauca* 92

*Cedrus deodara* 92

*Cedrus* sp 92

*Celosia* sp 7

*Celtis* sp 137

*Centaurea cyanus* 20

*Centaurea montana* 20

*Centaurea* sp 21

*Cephalotaxus harringtonia* 40, 41

*Cephalotaxus harringtonia drupacea* 41

*Ceratostigma plumbaginoides* 96

*Cercis canadensis* 59

*Cercis siliquastrum* 59

*Cercis* sp 59

*Cereus* sp 36

*Chaenomeles* sp 111

*Chaenomeles speciosa* 111

*Chamaecyparis lawsoniana* 48

*Chamaecyparis pisifera* 48

*Chamaecyparis* sp 48

*Chamaecyparis thyoides* 48

*Chamaerops humilis* 16

*Chionanthus retusus* 87

*Chionanthus* sp 87

*Chionanthus virginicus* 87

*Chlorophytum* sp 18

*Chrysanthemum leucanthemum* 21

*Chrysanthemum nipponicum* 21

*Chrysanthemum* sp 21

*Chrysanthemum* x *superbum* 21

*Chrysogonum* sp. 21

*Cimicifuga* sp 110

*Cineraria* sp 21

*Cissus rhombifolia* 139

*Citrullus lanatus* 45

*Citrus aurantifolia* 124

*Citrus limon* 124

*Citrus paradisi* 125

*Citrus paradisi* x *reticulate* 125

*Citrus reticulata* 125

*Citrus sinensis* 125

*Citrus* sp 125

*Citrus* x *tangelo* 125

*Clematis armandii* 110

*Clematis* sp 110

*Clematis terniflora* 110

*Clematis* x *jackmanii* 110

*Cleyera japonica* 136

*Cleyera* sp 136

*Clivia* sp 78

*Cocos* sp 16

*Coleus blumei* 73

*Coleus* sp 73

*Colocasia jensii* 12

*Colocasia* sp 13

*Conradina canescens* 73

*Coprosma* sp 123

*Coreopsis auriculata* 22

*Coreopsis grandiflora* 22

*Coreopsis* sp 22

*Coreopsis verticillata* 22

*Coriandrum sativum* 7

*Cornus canadensis* 43

*Cornus controversa* 43

*Cornus florida* 43

*Cornus florida rubra* 43

*Coronopus didymus* 34

*Cortaderia* sp 97

*Corynephorus* sp 98

*Cosmos atrosanguineus* 22

*Cosmos* sp 22

*Cotoneaster salicifolius* 111

*Cotoneaster* sp 111

*Crataegus* sp 111

*Crocosmia* sp 70

*Cryptomeria globosa* 48

*Cryptomeria japonica* 48

*Cryptomeria* sp 48

*Cucumis melo* 46

*Cucumis sativus* 46

*Cucumis* sp 47

*Cucurbita maxima* 47

*Cucurbita moschata* 47

*Cucurbita pepo* 47

*Cucurbita* sp 47

*Cunninghamia* sp 49

*Cupressus arizonica* 49

*Cupressus sempervirens* 49

*Cupressus* sp 49

*Cycas revoluta* 52

*Cycas* sp 52

*Cyclamen* sp 108

*Cydonia oblonga* 112

*Cynara scolymus* 22

*Cynodon dactylon* 98

*Cyperus esculentus* 52

*Cyrtomium falcatum* 53

*Cyrtomium* sp 53

# D

*Dahlia* sp 22

*Daphne odora* 136

*Daphne* sp 136

*Datura* sp 131

*Daucus carota* 7

*Delosperma cooperi* 6

*Delosperma nubigenum* 6

*Delphinium* sp 110

*Dendrobium* sp 90

*Dianthus barbatus* 39

*Dianthus caryophyllus* 39

*Dianthus gratianopolitanus* 39

*Dianthus knappii* 39

*Dianthus* sp 40

*Dicentra sp* 67

*Dicentra spectabilis* 67

*Dichondra* sp 42

*Dieffenbachia* sp 13

*Digitalis purpurea* 129

*Digitalis* sp 129

*Diospyros kaki* 53

*Diospyros* sp 53

*Diospyros virginiana* 53

*Distylium myricoides* 69

*Doronicum orientale* 23

*Doronicum* sp 23

*Dryopteris erythrosora* 53

*Duchesnea indica* 112

**E**

*Echinacea laevigata* 23

*Echinacea purpurea* 23

*Echinacea* sp 23

*Echinopsis multiplex* 36

*Echinopsis* sp 36

*Edgeworthia chrysantha* 137

*Elaeagnus* sp 53

*Eleusine* sp 98

*Episcia* sp 69

*Equisetum* sp 54

*Eragrostis curvula* 98

*Eragrostis* sp 98

*Eremochloa ophiuroides* 99

*Eriobotrya japonica* 112

*Erysimum linfolium* 34

*Erysimum repandum* 34

*Erysimum* sp 34

*Escallonia* sp 69

*Eucalyptus pulverulenta* 86

*Eucalyptus* sp 86

*Euonymus fortunei* 40

*Euonymus fortunei* var. *coloratus* 40

*Euonymus japonicus* var. *microphylla* 40

*Euonymus* sp 40

*Eupatorium purpureum* 23

*Eupatorium* sp 23

*Euphorbia amygdaloides* 57

*Euphorbia pulcherrima* 58

*Euphorbia* sp 58

*Euphorbia* x *martini* 58

*Euryops chrysanthemoides* 23

*Euryops pectinatus* 23

*Euryops* sp 24

*Eustoma* sp 68

*Exacum affine* 68

*Exacum* sp 68

*Exochorda* sp 112

**F**

*Fagus grandifolia* 64

*Fagus* sp 64

*Farfugium japonicum* 24

*Fatsia japonica* 14

*Fatsia* sp 14

*Feijoa sellowiana* 86

*Feijoa* sp 86

*Festuca arundinacea* 99

*Festuca ovina* 99

*Festuca rubra* 99

*Festuca* sp 99, 100

*Ficus benjamina* 85

*Ficus carica* 85

*Ficus elastica* 85

*Ficus pumila* 85

*Ficus* sp 85

*Forsythia* sp 87

*Forsythia* x *intermedia* 87

*Fothergilla gardenii* 69

*Fothergilla* sp 69

*Fragaria* x *ananassa* 112

*Franklinia* sp 136

*Fraxinus pennsylvanica* 87

*Fraxinus* sp 87

*Fuchsia* sp 89

# G

*Gaillardia* sp 24

*Gaillardia* x *grandiflora* 24

*Galium odoratum* 123

*Galium* sp 124

*Gardenia jasminoides* 124

*Gardenia* sp 124

*Gaura* sp 89

*Gelsemium* sp 81

*Geranium* sp 68

*Gerbera* sp 24

*Geum borisii* 113

*Geum* sp 113

*Ginkgo biloba* 69

*Gladiolus* sp 70

*Gloxinia* sp 69

*Glycine max* 59

*Gomphrena* sp 7

*Gordonia lasianthus* 136

*Gossypium* sp 83

*Gynura aurantiaca* 24

# H

*Halesia carolina* 134

*Hedera canariensis* 14

*Hedera colchica* 14

*Hedera helix* 15

*Hedera* sp 15

*Helianthus annuus* 24

*Helianthus* sp 24

*Helianthus tuberosus* 24

*Heliopsis helianthoides* 24

*Helleborus orientalis* 110

*Helleborus* sp 110

*Hemerocallis* sp 78

*Heuchera* sp 127

*Hibiscus cannabinus* 83

*Hibiscus moscheutos* 84

*Hibiscus mutabilis* 84

*Hibiscus* sp 84

*Hibiscus syriacus* 84

*Hordeum* sp 100

*Hosta albomarginata* 79

*Hosta fortunei* 79

*Hosta sieboldiana* 79

*Hosta* sp 79

*Hoya* sp 17

*Hydrangea arborescens* 127

*Hydrangea hortensis* 127

*Hydrangea macrophylla* 127

*Hydrangea quercifolia* 127

*Hydrangea* sp 128

*Hypericum androsaemum* 41

*Hypericum ascyron* 41

*Hypericum calycinum* 41

*Hypericum perforatum* 41

*Hypericum* sp 41

# I

*Iberis sempervirens* 34

*Iberis* sp 34

*Ilex aquifolium* 9

*Ilex cornuta* 10

*Ilex crenata* 10

*Ilex glabra* 10

*Ilex latifolia* 11

*Ilex opaca* 11

*Ilex* sp 11

*Ilex vomitoria* 11

*Ilex* x *attenuata* 9, 10

*Ilex x attenuata fosteri* 10

*Ilex* x *Emily Bruner* 10

*Ilex* x *meserveae* 11

*Ilex* x *Nellie R. Stevens* 11

*Illicium floridanum* 70

*Illicium henryi* 70

*Illicium* sp 70

*Impatiens* sp 28

*Impatiens walleriana* 27

*Impatiens* x *hawkeri* 27

*Ipomoea batatas* 42

*Ipomoea* sp 42

*Iris cristata* 71

*Iris sibirica* 71

*Iris* sp 71

*Iris* x *germanica* 71

*Itea* sp 128

*Itea virginica* 128

**J**

*Jasminum floridum* 87

*Jasminum* sp 87

*Juglans nigra* 72

*Juglans regia* 72

*Juglans* sp 72

*Juniperus chinensis* 49, 50

*Juniperus chinensis* var. *pfitzeriana* 50

*Juniperus communis* 50

*Juniperus conferta* 50

*Juniperus davurica* 50

*Juniperus horizontalis* 50

*Juniperus procumbens* 50

*Juniperus scopulorum* 50

*Juniperus* sp 51

*Juniperus squamata* 50

*Juniperus stricta* 50

*Juniperus virginiana* 51

*Juniperus virginiana* var. *silicicola* 51

*Justicia brandegeana* 4

*Justicia* sp 4

**K**

*Kalmia latifolia* 54

*Kerria japonica* 113

*Kniphofia* sp 79

*Koelreuteria paniculata* 126

*Kohleria* sp 69

**L**

*Laburnum* sp 60

*Lagerstroemia indica* 81

*Lamiastrum* sp 73

*Lamium amplexicaule* 73

*Lamium maculatum* 73

*Lamium* sp 73

*Lantana camara* 138

*Lantana* sp 138

*Lathyrus hirsutus* 60

*Laurentia fluviatilis* 37

*Laurus nobilis* 77

*Lavandula angustifolia* 73

*Lavandula* sp 73

*Lavatera* sp 84

*Lepidium* sp 34

*Lespedeza* sp 60

*Leucanthemum sp* 25

*Leucothoe axillaris* 54

*Leucothoe fontanesiana* 54

*Leucothoe populifolia* 54

*Leucothoe* sp 54

*Lewisia longipetala* 108

*Liatris* sp 25

*Liatris spicata* 25

*Ligularia* sp 25

*Ligustrum japonicum* 87

*Ligustrum lucidum* 88

*Ligustrum sinense* 88

*Ligustrum* sp 88

*Ligustrum texanum* 88

*Lilium asiaticum* 79

*Lilium longiflorum* 79

*Lilium* sp 79

*Limonium* sp 96

*Lindera melissifolia* 77

*Lindera* sp 77

*Linum* sp 80

*Liquidambar styraciflua* 69

*Liriodendron tulipifera* 81

*Liriope muscari* 18

*Liriope* sp 18

*Lithodora diffusa* 30

*Lithodora* sp 30

*Livistona chinensis* 16

*Lobelia cardinalis* 37

*Lobelia* sp 37

*Lobularia* sp 34

*Lolium multiflorum* 100

*Lolium perenne* 100

*Lolium* sp 100

*Lonicera japonica* 38

*Lonicera sempervirens* 38

*Lonicera* sp 38

*Loropetalum chinense* 70

*Loropetalum* sp 70

*Luffa* sp 48

*Lupinus* sp 60

*Lycium barbarum* 131

*Lycopersicon lycopersicum* 131

*Lysimachia numularia* 109

# M

*Macbridea alba* 74

*Macbridea caroliniana* 74

*Magnolia grandiflora* 81

*Magnolia macrophylla* 81

*Magnolia sieboldii* 81

*Magnolia* sp 82

*Magnolia stellata* 82

*Magnolia virginiana* 82

*Magnolia* x *soulangiana* 81

*Mahonia bealei* 29

*Mahonia fortunei* 29

*Mahonia* sp 29

*Malus* sp 113

*Malus sylvestris pumila* 113

*Mandevilla laxa* 8

*Mandevilla* sp 8

*Marshallia grandiflora* 25

*Matthiola* sp 35

*Mazus reptans* 129

*Mazus* sp 129

*Medicago sativa* 60

*Medicago truncatula* 61

*Melampodium* sp 25

*Mentha pulegium* 74

*Mentha* sp 74

*Mentha spicata* 74

*Mentha* x *piperita* 74

*Mesembryanthemum* sp 6

*Michelia figo* 82

*Microstegium vimineum* 101

*Miscanthus* sp 101

*Monarda didyma* 74

*Monarda* sp 74

*Monstera deliciosa* 13

*Morus* sp 85

*Muhlenbergia* sp 101

*Musa balbisiana* 85

*Myosotis scorpioides* 30

*Myosotis* sp 30

*Myrica cerifera* 85

*Myrica* sp 86

# N

*Nandina domestica* 29

*Nandina* sp 29

*Narcissus* sp 80

*Nemesia* sp 129

*Nepeta cataria* 74

*Nepeta* sp 74

*Nephrolepis exaltata* 53

*Nephrolepis* sp 53

*Nerium* sp 8

*Nicotiana* sp 132

*Nymphaea odorata* 87

*Nyssa sylvatica* 44

# O

*Ocimum basilicum* 74

*Ocimum* sp 75

*Oenothera biennis* 89

*Oenothera* sp 89

*Olea europea* 88

*Oncidium pubes* 90

*Oncidium* sp 90

*Ophiopogon japonicus* 18

*Ophiopogon* sp 19

*Opuntia* sp 36

*Origanum majorana* 75

*Origanum* sp 75

*Oryza sativa* 101

*Oryza* sp 101

*Osmanthus fragrans* 88

*Osmanthus heterophyllus* 89

*Osmanthus* sp 89

*Osmanthus* x *fortunei* 88

*Osmunda regalis* 90

*Osteospermum* sp 25

*Oxalis braziliensis* 90

*Oxalis regnellii* 91

*Oxalis* sp 91

# P

*Pachysandra* sp 36

*Pachysandra terminalis* 36

*Paeonia lactiflora* 91

*Paeonia* sp 91

*Paeonia suffruticosa* 91

*Panax* sp 15

*Panicum dichotomiflorum* 101

*Panicum miliaceum* 101

*Panicum ramosum* 101

*Panicum* sp 101

*Papaver* sp 91

*Parthenocissus quinquefolia* 139

*Parthenocissus tricuspidata* 139

*Paspalum dilatatum* 102

*Paspalum notatum* 102

*Paspalum vaginatum* 102

*Paulownia elongata* 129

*Pelargonium peltatum* 68

*Pelargonium* sp 68

*Pelargonium* x *hortorum* 68

*Pennisetum glaucum* 102

*Pennisetum setaceum* 102

*Pennisetum* sp 102

*Penstemon* sp 129

*Pentas* sp 124

*Peperomia* sp 94

*Perovskia atriplicifolia* 75

*Perovskia* sp 75

*Persea borbonia* 77

*Persea* sp 77

*Petroselinum crispum* 7

*Phalaenopsis* sp 90

*Phalaris arundinacea* 102

*Phalaris* sp 102

*Phaseolus acutifolius* 61

*Phaseolus lunatus* 61

*Phaseolus* sp 62

*Phaseolus vulgaris* 61

*Philodendron* sp 13

*Phlox divaricata* 107

*Phlox paniculata* 107

*Phlox pilosa* 107

*Phlox* sp 108

*Phlox subulata* 107

*Phoenix canariensis* 16

*Photinia serrulata* 114

*Photinia* sp 114

*Photinia* x *fraseri* 114

*Phygelius* sp 130

*Phyla nodiflora* 138

*Phyllitis scolopendrium* 19

*Physocarpus* sp 115

*Physostegia* sp 75

*Picea abies* 92

*Picea glauca conica* 92

*Picea glauca* var. *albertiana* 92

*Picea pungens* 92

*Picea* sp 92

*Pieris japonica* 54

*Pieris* sp 55

*Pieris taiwanensis* 55

*Pinckneya* sp 124

*Pinus bungeana* 92

*Pinus elliottii* 93

*Pinus flexilis* 92

*Pinus mugo* 93

*Pinus nigra* 93

*Pinus palustris* 93

*Pinus pungens* 93

*Pinus* sp 94

*Pinus strobus* 93

*Pinus sylvestris* 93

*Pinus taeda* 93

*Pinus thunbergiana* 93

*Pinus virginiana* 94

*Pistacia chinensis* 7

*Pisum sativum* 62

*Pisum* sp 62

*Pittosporum* sp 94, 95

*Pittosporum tobira* 94

*Platanus occidentalis* 95

*Platanus* sp 95

*Platanus* x *acerifolia* 95

*Platycerium* sp 108

*Platycodon grandiflorus* 37

*Platycodon* sp 37

*Plectranthus* sp 75

*Plumeria* sp 8

*Poa annua* 102

*Poa pratensis* 102

*Poa* sp 102

*Poa trivialis* 102

*Podocarpus macrophyllus* 107

*Podocarpus* sp 107

*Podophyllum peltatum* 29

*Polygonatum* sp 19

*Polygonum bistorta* 108

*Polygonum orientale* 108

*Polyscias fruticosa* 15

*Populus deltoides* 125

*Populus nigra* 125

*Populus* sp 125

*Portulaca* sp 108

*Potentilla* sp 115

*Pothos* sp 13

*Protea* sp 109

*Prunus armeniaca* 115

*Prunus avium* 115

*Prunus caroliniana* 115

*Prunus cerasifera* 115

*Prunus cerasus* 115

*Prunus insititia* 115

*Prunus japonica* 115

*Prunus laurocerasus* 115

*Prunus persica* 116

*Prunus serotina* 117

*Prunus serrulata* 117

*Prunus* sp 117, 118

*Prunus subhirtella* 117

*Prunus tomentosa* 117

*Prunus virginiana* 117

*Prunus* x *incam* 115

*Prunus* x *snofozam* 117

*Prunus yedoensis* 117

*Pueraria montana* var. *lobata* 63

*Pulmonaria* sp 30

*Punica granatum* 109

*Pyracantha coccinea* 119

*Pyracantha* sp 119

*Pyrus calleryana* 119

*Pyrus communis* 119

*Pyrus pyrifolia* 119

*Pyrus serotinia* 119

*Pyrus* sp 120

**Q**

*Quercus acuta* 64

*Quercus acutisssima* 64

*Quercus alba* 64

*Quercus coccinea* 64

*Quercus falcata* 65

*Quercus hemisphaerica* 65

*Quercus laevis* 65

*Quercus laurifolia* 65

*Quercus lyrata* 65

*Quercus macrocarpa* 65

*Quercus marilandica* 65

*Quercus nigra* 65

*Quercus nuttalli* 65

*Quercus palustris* 65

*Quercus phellos* 66

*Quercus robur* 66

*Quercus rubra* 66

*Quercus shumardii* 66

*Quercus* sp 67

*Quercus stellata* 66

*Quercus velutina* 66

*Quercus virginiana* 66

# R

*Rhaphiolepis indica* 120

*Rhaphiolepis* sp 120

*Rhaphiolepis umbellata* 120

*Rhapidophyllum hystrix* 16

*Rhapidophyllum* sp 16

*Rheum* sp 108

*Rhodea japonica* 19

*Rhododendron carolinianum* 55

*Rhododendron catawbiense* 55

*Rhododendron indicum* 55

*Rhododendron maximum* 55

*Rhododendron schlippenbachii* 55

*Rhododendron simsii formosa* 55

*Rhododendron* sp 55, 56

*Rhododendron* x *aromi* 55

*Rhododendron* x *obtusum* ‘Hinodegiri’ 55

*Rhus michauxii* 7

*Ribes nigrum* 128

*Ribes* sp 128

*Rosa banksiae* 121

*Rosa floribunda* 121

*Rosa laevigata* 121

*Rosa odorata* 121

*Rosa* sp 121

*Rosmarinus officinalis* 75

*Rosmarinus* sp 75

*Rubus allegheniensis* 122

*Rubus calycinoides* 122

*Rubus idaeus* 122

*Rubus occidentalis* 122

*Rubus* sp 122, 123

*Rudbeckia hirta* 25

*Rudbeckia* sp 25

*Ruellia brittoniana* 4

*Rumex* sp 108

*Rumohra adiantiformis* 108

*Ruta* sp 125

**S**

*Sabal palmetto* 16

*Sabal* sp 17

*Sagina subulata* 40

*Saintpaulia* sp 69

*Salix babylonica* 126

*Salix discolor* 126

*Salix matsudana* 126

*Salix pentandra* 126

*Salix sepulcralis* 126

*Salix* sp 126

*Salvia elegans* 75

*Salvia farinacea* 76

*Salvia nemorosa* 76

*Salvia officinalis* 76

*Salvia purpurea* 76

*Salvia* sp 76

*Salvia splendens* 76

*Salvia viridis* 76

*Salvia* x *superba* 76

*Sansevieria* sp 19

*Sansevieria trifasciata* 19

*Santolina* sp 26

*Santolina virens* 26

*Sassafras* sp 77

*Saxifraga* sp 128

*Scabiosa columbaria* 52

*Scabiosa* sp 52

*Schefflera* sp 15

*Schlumbergera bridgesii* 36

*Schlumbergera truncata* 36

*Secale cereale* 103

*Secale* sp 103

*Sedum rupestre* ‘Angelina’ 45

*Sedum sieboldii* 45

*Sedum* sp 45

*Sedum spectabile* 45

*Sedum spurium* 45

*Sempervivum* sp 45

*Senecio cineraria* 26

*Senecio* x *hybridus* 26

*Sequoia sempervirens* 51

*Serenoa repens* 17

*Sesamum indicum* 91

*Shortia galacifolia* 52

*Sidalcea* sp 84

*Silene* sp 40

*Skimmia* x *foremanii* 125

*Solanum tuberosum* 133

*Solenostemon scutellarioides* 76

*Solidago rugosa* 26

*Solidago* sp 26

*Sorbus americana* 89

*Sorghum bicolor* 103

*Sorghum halepense* 103

*Sorghum* sp 103

*Sorghum sudanense* 103

*Spathiphyllum* sp 13

*Spinacia oleracea* 41

*Spiraea japonica* 123

*Spiraea* sp 123

*Spiraea* x *bumalda* 123

*Stachys* sp 76

*Stenotaphrum secundatum* 104

*Stewartia pseudocamellia* 136

*Stipa tenuifolia* 104

*Stokesia laevis* 26

*Stokesia* sp 26

*Symplocos* sp 134

*Syngonium podophyllum* 13

*Syngonium* sp 13

*Syringa* sp 89

*Syringa vulgaris* 89

**T**

*Tagetes erecta* 26

*Tagetes patula* 26

*Tagetes* sp 26

*Taxodium distichum* 51

*Taxus brevifolia* 134

*Taxus cuspidata* 134

*Taxus* sp 134

*Taxus* x *media* 134

*Ternstroemia gymnanthera* 136

*Tetrapanax papyrifer* 15

*Teucrium chamaedrys* 77

*Thalictrum speciosissimum* 110

*Thuja occidentalis* 51

*Thuja plicata* 51

*Thuja* sp 52

*Thuja standishii* x *plicata* ‘Green Giant’ 52

*Thunbergia* sp 4

*Thymus* sp 77

*Tiarella* sp 128

*Tibouchina* sp 84

*Tithonia* sp 27

*Torenia* sp 130

*Trachelospermum asiaticum* 8

*Trachelospermum jasminoides* 8

*Trachycarpus fortunei* 17

*Tradescantia pallida* 42

*Tradescantia* sp 42

*Trichostema dichotomum* 77

*Tricyrtis hirta* 19

*Tricyrtis* sp 19

*Trifolium incarnatum* 63

*Trifolium repens* 63

*Trifolium* sp 63

*Trifolium subterraneum* 63

*Trifolium vesiculosum* 63

*Trillium* sp 80

*Triticum* sp 104

*Trollius ledebourii* 111

*Tsuga canadensis* 94

*Tsuga* sp 94

*Tulbaghia violacea* 80

*Tulipa retroflexa* 80

*Tulipa* sp 80

*Typha latifolia* 137

**U**

*Ulmus alata* 137

*Ulmus americana* 137

*Ulmus* sp 137

# V

*Vaccinium arboreum* 56

*Vaccinium ashei* 57

*Vaccinium augustifolium* 57

*Vaccinium corymbosum* 57

*Vaccinium crassifolium* 57

*Vaccinium* sp 57

*Vanda* sp 90

*Veratrum californicum* 80

*Verbena canadensis* 138

*Verbena* sp 138

*Veronica longifolia* 130

*Veronica* sp 130

*Veronica spicata* 130

*Viburnum chindo* 38

*Viburnum davidii* 38

*Viburnum japonica* 38

*Viburnum macrocephalum* 38

*Viburnum obovatum* 38

*Viburnum odoratissimum* 38

*Viburnum odoratissimum* var. *awabuki* 38

*Viburnum opulus* 38

*Viburnum* sp 39

*Viburnum suspensum* 39

*Viburnum tinus* 39

*Vigna* sp 64

*Vigna unguiculata* 63

*Vinca major* 9

*Vinca minor* 9

*Vinca* sp 9

*Viola cornuta* 139

*Viola* sp 139

*Viola wittrockiana* 139

*Vitex* sp 138

*Vitis aestivalis* var. *bourquiniana* 139

*Vitis labrusca* 139

*Vitis rotundifolia* 140

*Vitis* sp 140

*Vitis vinifera* 140

**W**

*Washingtonia* sp 17

*Weigela* sp 39

*Wisteria* sp 64

**X**

x *Cupressocyparis leylandii* 49

*x Fatshedera lizei* 14

x *Fatshedera* sp 14

x *Triticosecale* sp 105

*Xanthium* sp 27

**Y**

*Yucca aloifolia* 19

*Yucca recurvifolia* 19

*Yucca* sp 19

**Z**

*Zantedeschia* sp 13

*Zea mays* 105

*Zelkova serrata* 137

*Zelkova* sp 137

*Zingiber* sp 141

*Zinnia angustifolia* 27

*Zinnia elegans* 27

*Zinnia* sp 27

*Zoysia japonica* 106

*Zoysia japonica* x *Z. tenuifolia* 106

*Zoysia* sp 106

# INDEX TO THE COMMON NAMES OF PLANTS

**A**

African Bush Daisy 23

African Daisy 20

African Lily 77

African Marigold 26

African Violet 69

Alfalfa 60

Algerian Ivy 14

Almond 117

Aloe 18

Aloe Vera 17

Alternanthera 6

Althaea 83

Alyssum 34

Amaryllis 78

American Beech 64

American Boxwood 35

American Elm 137

American Holly 11

American Mountain Ash 89

Anacyclus 20

Anise Hyssop 72

Anise Tree 70

Annual Bluegrass 102

Annual Clary Sage 76

Annual Ryegrass 100

Annual Vinca 8

Anthurium 12

Apple 113, 114

Apricot 115

Aralia 14

Aralia Ivy 14

Arborvitae 51, 52

Arizona Cypress 49

Arrowleaf Clover 63

Artemisia 20

Artichoke 22

Arugula 31

Aruncus 111

Ash 87

Asian Magnolia 82

Asian Pear 119

Asiatic Jasmine 8

Asiatic Lily 79

Asparagus 18

Asparagus Fern 18

Aster 20, 26

Astilbe 127

Astrantia 7

Atlantic White Cedar 48

Aucuba 42, 43

Australian Umbrella Tree 14

Austrian Pine 93

Austrian Winter Pea 60

Avocado 77

Azalea 55

# B

Bahiagrass 102

Bald Cypress 51

Balloon Flower 37

Bamboo 97

Banana 85

Banana Pepper 130

Banana Shrub 82

Banksia Rose 121

Barbaras Buttons 25

Barberry 28

Barley 100

Barrel Medic 61

Bartlett Pear 119

Basil 75

Basket Plant 69

Bean 61, 62

Beard Tongue 129

Bearded Iris 71

Beautyberry 137

Bedstraw 124

Bee Balm 74

Beech 64

Beet 41

Begonia 28

Belamcanda 70

Bell Pepper 130

Bentgrass 96

Bermudagrass 98

Bigleaf Hydrangea 127

Bigleaf Magnolia 81

Bignonia 29

Birch 29

Black Cherry 117

Black Currant 128

Black Gum 44

Black Maple 5

Black Oak 66

Black Raspberry 122

Black Walnut 72

Blackberry 122

Blackberry Lily 70

Black-eyed Susan 25

Blackjack Oak 65

Blanket Flower 24

Blazing Star 25

Bleeding Heart 67

Bletilla 90

Blue Atlas Cedar 92

Blue Coconut Palm 16

Blue Fescue 99

Blue Spruce 92

Blue Star Creeper 37

Bluebeard 138

Blueberry 57

Bluegrass 102

Bluestar 8

Bok Choy 31

Borage 30

Boston Fern 53

Boston Ivy 139

Bottlebrush 86

Bougainvillea 86

Bourquin Summer Grape 139

Box Elder 4

Boxwood 35

Boysenberry 123

Broadleaf Mustard 31

Broccoli 32

Bromegrass 97

Browntop Millet 101

Brussels Sprouts 33

Buffalograss 97

Bugbane 110

Bugleweed 72

Bugloss 30

Bumald Spirea 123

Bunchberry 43

Bur Oak 65

Bush Clover 60

Butia 16

Butter Bean 61

Butterfly Bush 80

Butternut Squash 47

**C**

Cabbage 33

Cabbage Palmetto 16

Cactus 36

Caladium 12

Calamint 73

Calathea 84

Calendula 20

Calla Lilly 13

Callery Pear 119

Camellia 134, 135

Campion 40

Canadian Hemlock 94

Canary Island Date Palm 16

Candytuft 34

Canna 37

Canna Lily 37

Canola 31

Cantaloupe 46

Canterbury Bells 37

Cape Fuschia 130

Cape Jasmine 124

Cape Marigold 23

Cardamine 34

Cardinal Flower 37

Carnation 39

Carolina Birds-in-a-Nest 74

Carolina Jasmine 81

Carolina Rhododendron 55

Carolina Silverbell 134

Carpet Bugleweed 72

Carpetgrass 97

Carrot 7

Catawba 30

Catawba Rhododendron 55

Catmint 74

Catnip 74

Cattail 137

Cattleya 90

Cauliflower 32

Cayenne Pepper 130

Centipedegrass 99

Century Plant 17

Checkerbloom 84

Cheddar Pink 39

Cherokee Rose 121

Cherry 115, 117, 118

Cherry Laurel 115

Chestnut 64

Chilean Jasmine 8

Chili Pepper 131

China Fir 49

Chinese Cabbage 33

Chinese Chestnut 64

Chinese Evergreen 12

Chinese Fan Palm 16

Chinese Fringe Tree 87

Chinese Fringe-flower 70

Chinese Ground Orchid 90

Chinese Holly 10

Chinese Mahonia 29

Chinese Photinia 114

Chinese Pistachio 7

Chinese Privet 88

Chinese Snowball 38

Chinese Trumpet Flower 30

Chinquapin 64

Chlorophytum 18

Choke Cherry 117

Christmas Cactus 36

Cilantro 7

Cineraria 21, 26

Cinquefoil 115

Clematis 110

Cleyera 136

Climbing Fig 85

Climbing Rose 121

Clover 63

Coastal Leucothoe 54

Cocklebur 27

Cocos Palm 16

Coleus 73, 76

Collards 32

Columbine 109

Common Apple 113

Common Fig 85

Common Juniper 50

Common Periwinkle 9

Common Persimmon 53

Common St. John's Wort 41

Common Zinnia 27

Coneflower 23

Confederate Jasmine 8

Confederate Rose 84

Conradina 73

Coral Bark Maple 5

Coral Bells 127

Coral Vine 108

Corkscrew Willow 126

Corn 105

Cosmos 22

Cotoneaster 111

Cotton 83

Cowpea 63

Crabapple 113

Cranberry Bush 38

Cranesbill 68

Crape Myrtle 81

Creeping Bentgrass 96

Creeping Blueberry 57

Creeping Charlie 109

Creeping Juniper 50

Creeping Raspberry 122, 123

Creeping Red Fescue 99

Creeping St. John’s Wort 41

Crested Iris 71

Crookneck Squash 47

Cryptomeria 48

Cucumber 46

Curly Dock 108

Curly Leaf Ligustrum 87

Cutleaf Japanese Maple 4

Cyclamen 108

Cypress 49

**D**

Daffodil 80

Dagger Plant 19

Dahlia 22

Daisy 21, 25

Dallisgrass 102

Damson Plum 115

Dancing Lady Orchid 90

Daphne 136

Darlington Oak 65

David Viburnum 38

Daylily 78

Delosperma 6

Dendrobium 90

Deodar Cedar 92

Desert Rose 7

Dianthus 39, 40

Dichondra 42

Doronicum 23

Drooping Leucothoe 54

Dumb Cane 13

Dusty Miller 26

Dwarf Alberta Spruce 92

Dwarf Boxwood 35

Dwarf Gardenia 124

Dwarf Hinoki False Cypress 48

Dwarf Japanese Pittosporum 94

Dwarf Nandina 29

Dwarf Pittosporum 94

Dwarf Yaupon Holly 11

**E**

Easter Lily 79

Easter Lily Cactus 36

Eastern Columbine 109

Eastern Cottonwood 125

Eastern Red Cedar 51

Eastern Redbud 59

Edgeworthia 137

Elaeagnus 53

Elm 137

English Boxwood 35

English Holly 9

English Ivy 15

English Laurel 115

English Lavender 73

English Oak 66

English Pea 62

English Walnut 72

Escallonia 69

Eucalyptus 86

Euonymus 40

Euphorbia 57, 58

European Fan Palm 16

Euryops 24

Evening Primrose 89

Exacum 68

# F

Fall Panicgrass 101

False Cypress 48

False Hellebore 80

False Miterwort 128

False Spiraea 127

Fatsia 14

Feather Grass 104

Feijoa 86

Fescue 100

Fever Tree 124

Fig 85

Fir 91

Firethorn 119

Flame Violet 69

Flax 80

Florida Anise Tree 70

Florida Leucothoe 54

Floss Flower 20

Flowering Dogwood 43

Flowering Maple 83

Flowering Quince 111

Forget-Me-Not 30

Forked Blue Curls 77

Formosa Azalea 55

Formosan Pieris 55

Fortunes Osmanthus 88

Foster Hybrid Holly 9

Fothergilla 69

Fountain Grass 102

Fox Grape 139

Foxglove 129

Fragrant Ivy 14

Fragrant Tea Olive 88

Frangipani Temple Tree 8

Franklinia 136

French Hydrangea 127

French Marigold 26

Fringe Tree 87

Fuchsia 89

# G

Garden Pea 62

Garden Sage 76

Gardenia 124

Garlic 78

Gaura 89

Geranium 68

Gerbera Daisy 24

German Bearded Iris 71

Germander 77

Geum 113

Giant Dogwood 43

Giant Hyssop 72

Ginger 141

Ginkgo 69

Ginseng 15

Gladiolus 70

Globeflower 111

Glory Bush 84

Glossy Abelia 38

Gloxinia 69

Goji Berry 131

Gold Tip Pfitzer Juniper 50

Golden Chain Tree 60

Golden Rain Tree 126

Golden Willow 126

Golden-bells 87

Goldenrod 26

Gomphrena 7

Goosegrass 98

Gourd 47

Goutweed 7

Grace Ward Lithodora 30

Grape 140

Grape Ivy 139

Grapefruit 125

Grassy-leaved Sweet Flag 12

Gray Clubawn Grass 98

Gray-Leaved Euryops 23

Great St. John's Wort 41

Greater Periwinkle 9

Green and Gold 21

Green Ash 87

Green Bean 61

# H

Habanero Pepper 131

Hackberry 137

Hardy Yellow Ice Plant 6

Hawthorn 111

Heather 54

Hemlock 94

Hen and Chicks 45

Henbit 73

Heuchera 127

Hibiscus 84

Hickory 72

Higan Cherry 117

Highbush Blueberry 57

Hills-of-Snow 127

Himalayan Juniper 50

Hinodegiri Azalea 55

Holly 9, 10, 11

Holly Fern 53

Holly Osmanthus 89

Hollyhock 83

Honeydew Melon 46

Honeysuckle 38

Horse Sugar 134

Horsetail 54

Hosta 79

Hydrangea 127, 128

# I

Ice Plant 6

Impatiens 27, 28

Indian Hawthorn 120

Indian Strawberry 112

Inkberry Holly 10

Iris 71

Irish Moss 40

Irish Potato 133

Italian Cypress 49

Itea 128

Ivy 14, 15

Ivy Geranium 68

Ivy Tree 14

# J

Japanese Andromeda 54

Japanese Anemone 109

Japanese Ardisia 86

Japanese Aucuba 42

Japanese Black Pine 93

Japanese Boxwood 35

Japanese Cedar 48

Japanese Cherry 118

Japanese Evergreen Oak 64

Japanese Flowering Cherry 117, 118

Japanese Garden Juniper 50

Japanese Holly 10

Japanese Honeysuckle 38

Japanese Maple 4

Japanese Pansy 68

Japanese Persimmon 53

Japanese Pittosporum 94

Japanese Plum 115

Japanese Plum Yew 41

Japanese Privet 87

Japanese Rose 113

Japanese Sedge Grass 52

Japanese Shield Fern 53

Japanese Spindle Tree 40

Japanese Spirea 123

Japanese Spurge 36

Japanese Stewartia 136

Japanese Stilt Grass 101

Japanese Yew 107, 134

Japanese Zelkova 137

Jasmine 87

Jelly Palm 16

Jerusalem Artichoke 24

Joe-Pye Weed 23

Johnsongrass 103

Judas Tree 59

Juniper 49, 50, 51

# K

Kaffir Lily 78

Kale 32

Kenaf 83

Kentucky Bluegrass 102

Key Lime 124

Kiwi 6

Korean Boxwood 35

Kudzu 63

Kwanzan Cherry 117

# L

Lacebark Pine 92

Lady Bank’s Rose 121

Ladybells 37

Lamiastrum 73

Lamium 73

Lantana 138

Larkspur 110

Laurel Oak 65

Laurel Willow 126

Laurustinus 39

Lavender 73

Lawson False Cypress 48

Leadwort 96

Leatherleaf Fern 108

Leatherleaf Mahonia 29

Lemon 124

Lenten Rose 110

Lettuce 25

Leucanthemum 25

Leucothoe 54

Leyland Cypress 49

Ligularia 25

Ligustrum 88

Lilac 89

Lily 79

Lily of the Nile 77

Lilyturf 18

Lima Bean 61

Limber Pine 92

Lipstick Plant 69

Lisianthus 68

Lithodora 30

Live Oak 66

Lobelia 37

Loblolly Bay 136

Loblolly Pine 93

Lombardy Poplar 125

London Plane Tree 95

Longleaf Pine 93

Long-petaled Lewisia 108

Loofah 48

Loquat 112

Loropetalum 70

Lovegrass 98

Lowbush Blueberry 57

Lungwort 30

Lupine 60

Lusterleaf Holly 11

# M

Madwort 30

Magnolia 81, 82

Mahonia 29

Mallow Rose 84

Mandarin 125

Mandevilla 8

Manzanita 54

Maple 4, 5, 6

Marguerite Daisy 21

Marigold 26

Marshallia 25

Mayapple 29

Mazus 129

Meadow Rue 110

Mealycup Sage 76

Mediterranean Fan Palm 16

Melampodium 25

Melons 47

Mexican Petunia 4

Mexican Sunflower 27

Milkweed 17

Million Bells 130

Milo 103

Mimosa 58

Ming Aralia 15

Mint 74

Mirrorplant 123

Miscanthus 101

Mondo Grass 18, 19

Money Tree 86

Monkey Puzzle Tree 15

Monkshood 109

Montebretia 70

Morning Glory 42

Moss Phlox 107

Moss Rose 108

Moth Orchid 90

Mottled Spurge 58

Mountain Bluet 20

Mountain Laurel 54

Mountain Sandwort 39

Mugo Pine 93

Muhly Grass 101

Mulberry 85

Mum 21

Muscadine Grape 140

Mustard 31

Myrtle-leafed Distylium 69

**N**

Nandina 29

Nanking Cher 117

Napa 33

Narrow-leaf Zinnia 27

Nectarine 116

Needle Palm 16

Nemesia 129

Nephthytis 13

New Guinea Impatiens 27

Ninebark 115

Nippon Daisy 21

Nippon Lily 19

Norfolk Island Pine 16

Northern Red Oak 66

Norway Maple 5

Norway Spruce 92

**O**

Oak 64, 65, 66, 67

Oak Leaf Hydrangea 127

Oats 97

Obedient Plant 75

Oconee Bells 52

Okame Cherry 115

Okra 82

Oleander 8

Olive 88

Onion 78

Orange 125

Orchid 90

Oregano 75

Oriental Paperbush 137

Oriental Sand Pear 119

Ornamental Cabbage 33

Ornamental Onion 77

Osteospermum 25

Overcup Oak 65

Oxalis 91

Oxeye 24

**P**

Pacific Yew 134

Pak Choy 33

Pampas Grass 97

Panic Grass 101

Pansy 139

Parsley 7

Parsons Juniper 50

Pea 62

Peach 116

Peanut 58

Pear 119, 120

Pearl Millet 102

Pearlbush 112

Pecan 71

Pennisetum 102

Pennyroyal 74

Pentas 124

Peony 91

Peperomia 94

Pepper 131

Peppergrass 34

Peppermint 74

Perennial Phlox 107

Perennial Ryegrass 100

Periwinkle 9

Perovskia 75

Persian Violet 68

Persimmon 53

Peruvian Lily 78

Philodendron 13

Phlox 107, 108

Photinia 114

Pieris 55

Pignut Hickory 71

Pigweed 7

Pimento Pepper 130

Pin Oak 65

Pincushion Flower 52

Pindo Palm 16

Pine 93, 94

Pineapple Sage 75

Pink 40

Pittosporum 94, 95

Plum 118

Plum Yew 40

Plumbago 96

Podocarpus 107

Poinsettia 58

Pomegranate 109

Pond Lily 87

Poplar 125

Poppy 91

Post Oak 66

Pothos 13

Prickly Pear Cactus 36

Princess Feather 108

Princess Tree 129

Privet 88

Proso Millet 101

Protea 109

Pumpkin 47

Purple Coneflower 23

Purple Passion Vine 24

Purple Queen 42

Purple Wintercreeper 40

Pussy Willow 126

Pyrenees Thrift 95

**Q**

Qunice 112

**R**

Rabbiteye Blueberry 57

Rape 31

Raspberry 122, 123

Red Bay 77

Red Fescue 99

Red Hot Poker 79

Red Maple 5

Red Oak 65, 66

Red Raspberry 122

Redbud 59

Redwood 51

Reed Canary Grass 102

Rhaphiolepis 120

Rhododendron 55, 56

Rhubarb 108

Rice 101

River Birch 29

Rock Cress 31

Rockcress 30

Rose 121

Rose Verbena 138

Rosebay Rhododendron 55

Rosemary 75

Rose-of-Sharon 84

Rough Bluegrass 102

Rough Goldenrod 26

Royal Azalea 55

Royal Fern 90

Rubber Plant 85

Rubus 122, 123

Rudbeckia 25

Rue 125

Russian Sage 75

Rutabaga 31

Rye 103

Ryegrass 100

**S**

Sabal Palm 17

Sage 76

Sage-leafed Butterfly Bush 80

Sago Palm 52

Salvia 76

Sandankwa Viburnum 39

Santolina 26

Sasanqua 135

Sassafras 77

Satsuma 125

Saucer Magnolia 81

Savannah Holly 9

Saw Palmetto 17

Sawara Falsecypress 48

Sawtooth Oak 64

Saxifraga 128

Scarlet Firethorn 119

Scarlet Oak 64

Scarlet Sage 76

Schefflera 14, 15

Scotch Pine 93

Sea Thrift 95

Seashore Paspalum 102

Sedge 52

Sedum 45

Seersucker Plantain Lily 79

Senna 59

Serviceberry 111

Sesame 91

Shamrock 90

Shasta Daisy 21

Shell Ginger 141

Shore Juniper 50

Showy Jasmine 87

Shrimp Plant 4

Siberian Iris 71

Silver Maple 5

Skimmia 125

Skip Laurel 115

Skyrocket Juniper 50

Slash Pine 93

Slipperwort 129

Small-leaf Arrowhead 38

Snake Plant 19

Snakeweed 108

Snapdragon 128

Snowball Bush 38

Society Garlic 80

Sorghum 103

Sour Cherry 115

Sourwood 54

Southern Curled Mustard 31

Southern Indica Azalea 55

Southern Magnolia 81

Southern Pea 64

Southern Red Cedar 51

Southern Red Oak 65

Southern Spicebush 77

Soybean 59

Sparkleberry 56

Spathe Flower 13

Spearmint 74

Speedwell 130

Spicebush 77

Spinach 41

Spirea 123

Split-Leaf Philodendron 13

Spotted Dead Nettle 73

Spruce 92

Spurge 36, 58

Spurred Anoda 83

Squash 47

St. Augustinegrass 104

St. John's Wort 41

Staghorn Fern 108

Star Magnolia 82

Statice 96

Stock 35

Stonecrop 45

Strawberry 112, 113

Strawberry Tree 54

Subterranean Clover 63

Sudan Grass 103

Sugar Maple 4, 5

Sumac 7

Sunflower 24

Swamp Milkweed 17

Swedish Ivy 75

Swedish Turnip 31

Sweet Autumn Clematis 110

Sweet Basil 74

Sweet Bay 77

Sweet Bay Magnolia 82

Sweet Cherry 115

Sweet Flag 12

Sweet Marjoram 75

Sweet Orange 125

Sweet Pepper 130

Sweet Potato 42

Sweet Shrub 36

Sweet Viburnum 38

Sweet William 39

Sweet Woodruff 123

Sweetgum 69

Swinecress 34

Swiss Chard 41

Sword Fern 53

Sycamore 95

Sycamore Maple 5

Syngonium 13

**T**

Table Mountain Pine 93

Tall Fescue 99

Tangerine 125

Tassel Fern 109

Tea 135

Tea Olive 89

Tea Plant 135

Tea Rose 121

Tea-oil Plant 134

Tepary Bean 61

Ternstroemia 136

Thanksgiving Cactus 36

Thorn Apple 131

Thrift 95

Thunbergia 4

Thyme 77

Tick Seed 22

Toad Lily 19

Tobacco 132

Tomato 131, 132

Torenia 130

Trailing Boysenberry 123

Tree Gloxinia 69

Tree Mallow 84

Tree Peony 91

Trillium 80

Triticale 105

Triumph Tulip 80

True Geranium 68

Trumpet Honeysuckle 38

Tulip 80

Tuliptree 81

Turkey Oak 65

Turkey Tangle Fogfruit 138

Turnip 33

# U

Ugli Fruit 125

Umbrella Tree 14, 15

# V

Variegated Pittosporum 95

Variegated Privet 88

Variegated Red-twig Dogwood 43

Verbena 138

Viburnum 38, 39

Viola 139

Virginia Creeper 139

Virginia Pine 94

Virginia Sweetspire 128

Vitex 138

**W**

Wallflower 34

Walnut 72

Wandering Jew 42

Water Hyssop 129

Water Oak 65

Water Willow 4

Watermelon 45

Wax Leaf Ligustrum 88

Wax Myrtle 85, 86

Wax Vine 17

Wax-leaf Privet 88

Weeping Cherry 117

Weeping Fig 85

Weeping Lovegrass 98

Weeping Mulberry 85

Weeping Willow 126

Weeping Yoshino Cherry 117

Weeping Yucca 19

Weigela 39

Western Red Cedar 51

Western Yew 134

Weyeriana Butterfly Bush 80

Wheat 104

White Birds-in-a-Nest 74

White Clover 63

White Oak 64

White Pine 93

Wild Black Cherry 117

Wild Blue Phlox 107

Wild Cherry 118

Wild Currant 128

Wild Ginger 17

Willow 66, 126

Willow Oak 66

Willowleaf Cotoneaster 111

Windflower 109

Windmill Palm 17

Winged Elm 137

Winter Daphne 136

Wintercreeper 40

Wisteria 64

Witch Alder 69

Wood Sorrel 91

Woodland Phlox 107

Woodland Sage 76

Woolflower 7

Wormwood 20

**Y**

Yarrow 20

Yaupon Holly 11

Yedda Hawthorn 120

Yellow Bell Pepper 130

Yellow Nut Sedge 52

Yellow Sage 138

Yew 134

Yoshino Cherry 117

Yucca 19

**Z**

Zebra Plant 4

Zelkova 137

Zinnia 27

Zoysiagrass 106

# INDEX TO THE PLANT FAMILIES

**A**

Acanthaceae 4

Aceraceae 4

Actinidiaceae 6

Aizoaceae 6

Amaranthaceae 6

Anacardiaceae 7

Apiaceae 7

Apocynaceae 7

Aquifoliaceae 9

Araceae 12

Araliaceae 14

Araucariaceae 15

Arecaceae 16

Aristolochiaceae 17

Asclepiadaceae 17

Asparagaceae 17

Aspleniaceae 19

Asteraceae 20

**B**

Balsaminaceae 27

Begoniaceae 28

Berberidaceae 28

Betulaceae 29

Bignoniaceae 29

Boraginaceae 30

Brassicaceae 30

Buxaceae 35

**C**

Cactaceae 36

Calycanthaceae 36

Campanulaceae 37

Cannaceae 37

Caprifoliaceae 38

Caryophyllaceae 39

Celastraceae 40

Cephalotaxaceae 40

Chenopodiaceae 41

Clusiaceae 41

Commelinaceae 42

Convolvulaceae 42

Cornaceae 42

Crassulaceae 44

Cucurbitaceae 45

Cupressaceae 48

Cycadaceae 52

Cyperaceae 52

**D**

Diapensiaceae 52

Dipsacaceae 52

Dryopteridaceae 53

# E

Ebenaceae 53

Elaeagnaceae 53

Equisetaceae 54

Ericaceae 54

Euphorbiaceae 57

# F

Fabaceae 58

Fagaceae 64

Fumariaceae 67

# G

Gentianaceae 68

Geraniaceae 68

Gesneriaceae 68

Ginkgoaceae 69

Grossulariaceae 69

# H

Hamamelidaceae 69

# I

Illiciaceae 70

Iridaceae 70

# J

Juglandaceae 71

# L

Lamiaceae 72

Lauraceae 77

Liliaceae 77

Linaceae 80

Loganiaceae 80

Lythraceae 81

# M

Magnoliaceae 81

Malvaceae 82

Marantaceae 84

Melastomataceae 84

Moraceae 85

Musaceae 85

Myricaceae 85

Myrsinaceae 86

Myrtaceae 86

# N

Nyctaginaceae 86

Nymphaeaceae 87

# O

Oleaceae 87

Onagraceae 89

Orchidaceae 90

Osmundaceae 90

Oxalidaceae 90

# P

Paeoniaceae 91

Papaveraceae 91

Pedaliaceae 91

Pinaceae 91

Piperaceae 94

Pittosporaceae 94

Platanaceae 95

Plumbaginaceae 95

Poaceae 96

Podocarpaceae 107

Polemoniaceae 107

Polygonaceae 108

Polypodiaceae 108

Portulacaceae 108

Primulaceae 108

Proteaceae 109

Pteridaceae 109

Punicaceae 109

# R

Ranunculaceae 109

Rosaceae 111

Rubiaceae 123

Rutaceae 124

# S

Salicaceae 125

Sapindaceae 126

Saxifragaceae 127

Scrophulariaceae 128

Solanaceae 130

Styracaceae 134

Symplocaceae 134

# T

Taxaceae 134

Theaceae 134

Thymelaeaceae 136

Typhaceae 137

# U

Ulmaceae 137

# V

Verbenaceae 137

Violaceae 139

Vitaceae 139

# Z

Zingiberaceae 141

# INDEX TO THE COMMON NAMES OF PLANT DISEASES

**A**

Abutilon mosaic virus 83

Actinopelte leaf spot 5, 43, 44,

64, 65, 66, 67, 69

Aerial blight 8, 9, 20, 21,

28, 40, 48, 51, 55, 60, 112

Alfalfa mosaic virus 28, 39, 68, 80

Algal leaf spot 10, 16, 56, 65,

66, 67, 70, 81, 82, 122, 134, 135, 136

Altenaria leaf spot 24

Alternaria blight 27, 37, 39, 127

Alternaria flower, leaf and stem spot 24

Alternaria foliar blight 26

Alternaria glume blotch 104

Alternaria leaf and petal 26

Alternaria leaf and stem spot 24

Alternaria leaf spot 4, 7, 8, 9, 10,

11, 13, 14, 15, 16, 18, 19, 20, 21, 22, 24, 25, 26,

27, 28, 29, 31, 32, 33, 34, 37, 38, 40, 42, 45, 46,

47, 48, 58, 59, 60, 61, 62, 68, 70, 71, 74, 76, 79,

81, 82, 83, 84, 85, 88, 91, 94, 95, 100, 101, 103,

105, 107, 108, 109, 111, 113, 116, 118, 119,

120, 123, 124, 126, 128, 129, 130, 131, 133,

136, 138, 139

Alternaria needle necrosis 16, 48, 93

Angular leaf spot 46, 56, 61,

94, 95, 112, 120, 140

Annosum root rot 56

Anthracnose 4, 5, 6, 7, 8, 9,

10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 23,

25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37,

38, 39, 40, 42, 43, 44, 45, 46, 47, 48, 49, 51, 52,

53, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66,

67, 68, 69, 70, 71, 72, 74, 76, 77, 78, 79, 80, 81,

82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 95, 96, 97,

98, 99, 100, 102, 103, 104, 105, 106, 107, 108,

109, 110, 112, 113, 114, 115, 116, 118, 119,

120, 121, 122, 124, 125, 126, 127, 128, 130,

131, 133, 134, 135, 136, 137, 138, 139, 140, 141

Anthracnose fruit rot 85, 88, 112, 125, 131

Aphanomyces root rot 62

Apple black rot 113

Apple chlorotic leaf spot 117

Apple mosaic virus 117, 121

Apple scab 113, 114

Arabis mosaic virus 79

Aristastoma leaf spot 61, 62

Armillaria root rot 6, 8, 9, 10,

11, 16, 29, 35, 39, 41, 44, 50, 51, 52, 53, 55, 56,

57, 67, 70, 72, 81, 86, 88, 92, 93, 111, 112, 113,

114, 115, 116, 117, 118, 120, 121, 122, 123,

126, 127, 130, 134, 135, 136, 137, 140

Ascochyta leaf spot 5, 6, 32, 58,

62, 81, 97, 103, 104, 105, 108, 109, 111

Ashy stem blight 59, 61, 62, 63, 91

Asian prunus virus 1 117

Asian soybean rust 59

Aspergillus ear rot 105

Asperisporium needle 49

Aster rust 20

Aster yellows 23

# B

Bacterial black rot 31

Bacterial blight 21, 23, 34, 37,

52, 59, 61, 62, 68, 74, 76, 79, 80, 91, 95, 96, 138

Bacterial canker 69, 115, 116, 131

Bacterial gall 11, 70

Bacterial knot 8

Bacterial leaf scorch 4, 5, 8, 57,

64, 66, 67, 69, 85, 95, 115, 118, 137

Bacterial leaf spot 7, 9, 12, 13,

14, 15, 18, 21, 22, 24, 26, 27, 28, 30, 31, 32, 33,

34, 37, 40, 41, 45, 58, 59, 60, 63, 68, 73, 75, 76,

79, 82, 84, 85, 89, 91, 96, 109, 113, 114, 115,

116, 117, 118, 121, 124, 127, 128, 133, 138

Bacterial leaf spot and blight 22, 96

Bacterial pustule 59

Bacterial soft rot 12, 13, 18,

19, 25, 32, 33, 36, 42, 45, 46, 47, 58, 68, 71, 78,

90, 131, 133

Bacterial stem rot 22, 23, 34,

58, 68, 76, 110, 131

Bacterial wilt 9, 22, 24, 26, 27,

45, 46, 58, 62, 68, 75, 112, 130, 131, 132, 133

Barley stripe 100

Barley yellow dwarf mosaic virus 97, 100

Barley yellow dwarf virus 97, 100,

103, 105

Barley yellow dwarf virus – pav 97

Basal glume rot 104

Basal sheath rot 78

Basal stem rot 33, 68

Bean pod mottle virus 62

Bean yellow mosaic virus 61, 62, 71

Bipolaris crown rot and leaf 96

Bipolaris leaf spot 52, 84, 97,

98, 99, 100, 101, 103, 104, 105, 106

Bitter rot 113, 114, 119, 120, 140

Black chaff 104

Black head mold 105

Black knot 115, 117, 118, 119

Black leg 21, 31, 33, 64,

68, 74, 97, 132, 133

Black mildew 49, 82

Black node disease 62

Black point 104, 105

Black pox 114

Black root rot 9, 10, 11, 12,

30, 35, 36, 38, 46, 53, 60, 67, 76, 81, 82, 83, 84,

91, 107, 108, 109, 110, 111, 112, 113, 116, 127,

128, 130, 133, 136, 138, 139

Black rot 32, 33, 34, 42,

53, 112, 113, 114, 119, 120, 140, 141

Black stalk rot 78

Black stem 63

Blackeye cowpea mosaic virus 63

Blast 101

Blister spot 113

Blossom blight 47, 82, 116, 117, 118

Blue mold 37, 42, 71, 80,

101, 116, 132

Blue spruce needle cast 92

Boll rot 83

Botryodiplodia leaf spot 8, 11, 64

Botryodiploidia dieback, canker and stem rot 9

Botryosphaeria canker 4, 5, 9, 10, 11,

16, 39, 40, 44, 48, 49, 51, 56, 57, 59, 65, 66, 70,

81, 82, 85, 87, 88, 89, 91, 93, 94, 112, 113, 115,

116, 117, 118, 119, 120, 121, 122, 123, 125,

126, 127, 134, 135, 136, 140

Botryosphaeria dieback 4, 5, 6, 7, 8,

10, 11, 14, 16, 29, 35, 38, 41, 43, 44, 48, 50, 51,

52, 54, 55, 56, 57, 59, 64, 65, 67, 70, 71, 72, 77,

80, 81, 82, 83, 84, 85, 86, 87, 88, 92, 93, 94, 95,

107, 111, 113, 114, 116, 117, 118, 119, 120,

121, 123, 125, 126, 135, 136, 140

Botryosphaeria dieback and canker 4, 5, 6,

8, 29, 41, 44, 50, 54, 59, 65, 67, 71, 77, 81, 84,

92, 95, 113, 119, 120, 140

Botryosphaeria dieback, canker, and twig blight.. 8, 16, 43, 87, 88, 92, 126

Botrytis blight 8, 10, 11, 15, 18,

20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 32, 34, 35,

37, 39, 45, 57, 58, 60, 68, 69, 71, 73, 74, 75, 76,

78, 79, 80, 81, 82, 89, 91, 93, 109, 110, 112,

113, 121, 122, 127, 128, 130, 133, 139, 140

Botrytis crown rot 22, 31, 78, 79, 127

Botrytis leaf spot 4, 28, 75, 95

Botrytis melting out 20

Boxwood decline 35

Branch blight 8

Branch tip blight 51

Brown felt fungus 44, 65, 66, 77

Brown patch 63, 96, 97, 98,

99, 100, 101, 102, 103, 104, 106, 107

Brown rust 21

Brown spot 59, 60, 90, 92, 93, 132

Bud gall 134

Butt rot 16

# C

Cane and leaf rust 122

Cauliflower mosaic virus 33

Cedar-apple rust 51, 92,

111, 113, 114

Cercospora leaf spot 4, 6, 8, 9,

11, 13, 17, 18, 22, 23, 25, 26, 27, 29, 30, 31, 32,

33, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 52, 53,

54, 55, 56, 57, 58, 59, 61, 62, 63, 64, 69, 70, 73,

74, 79, 81, 82, 83, 85, 87, 88, 89, 90, 91, 95, 96,

98, 102, 103, 104, 107, 108, 109, 110, 111, 112,

113, 114, 115, 116, 117, 118, 119, 120, 121,

122, 123, 125, 126, 127, 128, 129, 130, 131,

134, 135, 136, 138, 139, 140

Cercospora needle blight 49, 51, 92

Cercospora stem blotch 57

Charcoal rot 5, 18, 25, 42,

46, 58, 59, 61, 62, 63, 76, 83, 84, 93, 94, 105,

107, 112, 131, 132

Charcoal stem rot 24

Cherry leaf roll virus 43

Cherry leaf spot 117, 118

Chestnut blight 64

Choanephora blight 107

Choanephora wet rot 45

Circular spot 42

Citrus greasy spot 125

Citrus greening 124, 125

Citrus scab 125

Cladosporium leaf spot 6, 19, 28,

41, 78, 110, 116

Clematis wilt 110

Clitocybe root rot 72

Collar rot 109

Colletotrichum leaf spot 4, 5, 9, 14,

15, 18, 23, 24, 29, 32, 38, 43, 53, 55, 56, 64, 66,

68, 74, 79, 81, 85, 86, 88, 89, 90, 95, 96, 102,

107, 108, 110, 120, 127, 135, 136, 141

Colletotrichum stem decay 4, 16, 23,

27, 38, 42

Columbia lance nematode 32, 35, 36,

58, 60, 61, 71, 83, 97, 99, 103, 104, 106, 130

Common smut 106

Coniothyrium canker and dieback 4

Coniothyrium leaf spot 6, 19, 52, 82

Constriction canker 116

Copper spot 96

Corm rot 70

Corticium blight 85

Coryneum fruit spot 115

Cottony blight 98, 100

Cottony leak 47

Cowpea severe mosaic virus 62, 63

Crazy top downy 106

Cristulariella leaf spot 5

Crown gall 6, 10, 11, 25,

27, 29, 40, 43, 44, 49, 51, 55, 57, 58, 62, 64, 71,

76, 87, 88, 111, 113, 114, 115, 116, 118, 121,

122, 123, 124, 126, 129, 131, 136, 140

Cryptocline leaf spot 29

Cucumber mosaic virus 28, 29, 46,

62, 63, 71, 80, 128, 130, 131, 132

Curvularia blight 96, 98, 99,

100, 101, 104, 106

Curvularia leaf spot 70, 97, 105

Cutting rot 121

Cylindrocarpon crown rot 37

Cylindrocarpon root rot 108

Cylindrocladium blight 9

Cylindrocladium leaf spot 10, 11, 86

Cylindrocladium root and petiole rot 13

Cylindrocladium root rot 6, 44, 57,

82, 93, 116

Cylindrocladium stem and root rot 9

Cylindrosporium leaf spot 5, 6, 29,

67, 85, 118, 123, 126

Cymbidium mosaic virus 90

Cypress canker 49

Cytospora canker 64, 116, 126

Cytospora dieback 114

Cytosporella twig blight 11

**D**

Dagger nematode 10, 12, 44, 57,

60, 72, 99, 104, 106, 112, 113, 114, 116, 118,

119, 121, 136, 140, 141

Damping off 9, 19, 31, 32,

33, 34, 36, 41, 43, 46, 47, 58, 59, 60, 61, 62, 63,

69, 76, 82, 83, 100, 101, 105, 106, 108, 109,

128, 131, 132, 133, 139

Daylily leaf streak 78

Daylily rust 78

Diplodia canker 17, 85, 94, 114

Diplodia dieback 9, 10, 50, 52,

70, 81, 107, 113, 116, 118, 121

Diplodia tip blight 50, 51, 93

Disappearing root rot 15

Discula anthracnose 4, 5, 65, 66, 67

Dogwood anthracnose 43, 44

Dollar spot 96, 97, 98, 99,

100, 101, 102, 104, 106, 107

Dothichiza leaf spot 57

Dothiorella canker 16, 95

Dothiorella fruit rot 77

Dothiorella leaf spot 10, 11, 56,

81, 114, 115, 116, 117, 118, 120

Double blossom 122

Downy mildew 22, 25, 27, 31,

32, 33, 39, 46, 47, 59, 68, 73, 74, 76, 80, 107,

108, 112, 113, 115, 121, 128, 130, 139, 140, 141

Drechslera leaf spot 71, 96, 97,

98, 99, 100, 101, 104, 106

# E

Early leaf spot 58

Eastern gall rust 94

Epicoccum leaf spot 61

Ergot 98, 102, 104, 105

Exobasidium leaf gall 56, 57, 134, 135

Exserohilum leaf spot 75, 98, 103,

104, 106

Eye spot 64, 102

# F

Fabraea leaf spot 114, 119, 120

Fairy ring leaf spot 40

False smut 16

Fire blight 111, 112, 113,

114, 119, 120

Flag smut 105

Fly speck 56, 114

Fly speck leaf spot 56

Foliage necrosis 8

Foliar nematode 14, 28, 38, 39,

53, 56, 75, 79, 90, 108, 113, 130, 138, 139

Frogeye leaf spot 59, 112,

113, 130, 132

Fruit rot 10, 11, 47,

112, 113, 116, 130

Fusarium basal rot 16, 18, 36,

71, 78, 80, 99

Fusarium bud rot 16, 17

Fusarium bulb rot 12, 80

Fusarium canker 6, 11, 23,

44, 63, 81, 86

Fusarium corm rot 13, 70, 71

Fusarium crown rot 12, 18, 19, 49,

70, 77, 91, 97, 107, 112, 127

Fusarium cutting rot 81

Fusarium dieback 11, 67

Fusarium dry rot 13, 133

Fusarium end, root and surface rot 42

Fusarium head mold 102

Fusarium leaf base rot 45

Fusarium leaf spot 17, 18, 78, 90

Fusarium root and stem rot 7, 15, 24,

27, 31, 32, 47, 53, 61, 62, 63, 80, 128, 130

Fusarium root rot 6, 10, 12, 15, 17,

19, 23, 28, 35, 41, 58, 61, 67, 72, 73, 75, 76, 77,

83, 84, 86, 88, 93, 95, 96, 98, 101, 102, 103,

110, 120, 124, 127, 134, 135, 139

Fusarium stem and root rot 8, 24, 34,

68, 83, 123

Fusarium stem necrosis 10

Fusarium stem rot 6, 7, 9, 11, 15, 20,

23, 28, 29, 32, 34, 36, 39, 45, 46, 63, 72, 79, 84,

105, 107, 115, 121, 123, 127, 131, 132, 137, 139

Fusarium surface rot 42

Fusarium wilt 6, 16, 20, 21, 27,

32, 33, 34, 39, 42, 46, 58, 59, 61, 62, 63, 69, 74,

75, 81, 82, 83, 84, 108, 128, 130, 131, 132, 133

Fusarium yellows 32, 33, 62

Fusicoccum branch dieback 49

Fusicoccum canker and dieback 4, 116, 140

Fusicoccum dieback 14, 86, 118

Fusicoccum twig blight 11

Fusiform rust 65, 66, 67, 93, 94

**G**

Gaillardia white smut 24

Ganoderma butt rot 17

Ghost spot 131

Gloeosporium canker and leaf spot 11

Gloeosporium leaf necrosis 35

Gloeosporium leaf spot 4, 5, 8, 9,

10, 11, 13, 17, 29, 56, 61, 67, 81, 86, 87, 95,

108, 116, 118, 120, 126, 134, 135, 136

Glume mold 101

Gnomonia leaf spot 72

Goldenrod rust 20

Grain mold 105

Granville wilt 132

Gray mold 7, 8, 9, 13, 17, 18, 20,

21, 22, 25, 27, 28, 29, 30, 31, 33, 37, 42, 54, 56,

58, 62, 68, 69, 71, 75, 81, 86, 89, 90, 91, 107,

108, 110, 111, 112, 121, 122, 128, 129, 131, 139

Green mold 125

Guava rust 86

Guignardia leaf spot 10

Gummosis 116

Gummy stem blight 46, 47, 58

**H**

Hainesia leaf spot 112

Halo blight 63, 97

Head mold 103

Heart rot 64, 67, 72

Helminthosporium leaf spot 16, 33, 67,

72, 84, 96, 97, 98, 99, 100, 101, 102, 103, 104,

105, 106, 128

Heuchera rust 127

Hibiscus rust 84

Hollyhock rust 83

Hosta virus x 79

Hypoxylon canker 5, 67

# I

Impatiens necrotic spot virus 7, 19, 21, 22,

24, 25, 26, 27, 28, 37, 42, 68, 69, 73, 74, 78, 79,

80, 89, 90, 91, 107, 109, 127, 129, 130, 135, 138

Iris fulva mosaic virus 71

Iris leaf spot 71

Iris mosaic virus 71

# J

Java black rot 42

# K

Kabatina tip blight 48, 49, 50, 51, 92

Kernal spot 72

Kernel blight 100

# L

Late leaf spot 58

Laurel wilt 77

Leaf and stem necrosis 34

Leaf blight 35, 39, 40, 46,

56, 98, 104, 120, 134, 135, 140, 141

Leaf curl 67, 115, 116, 117, 118

Leaf necrosis 10, 11, 49, 56, 58, 97, 108

Leaf rot 11

Leaf scorch 58, 78, 112

Leaf spot 8, 10, 15,

19, 39, 42, 44, 52, 54, 56, 57, 60, 72, 78, 81, 82,

83, 90, 91, 95, 99, 100, 106, 109, 110, 112, 113,

116, 117, 118, 123, 125, 126, 127, 132, 134

Leather rot 112

Leptosphaeria leaf spot 19, 101

Leptosphaerulina leaf blight 62, 96, 98,

100, 101, 103, 106

Leptosphaerulina leaf spot 60, 63, 99, 102

Leptothyrium leaf spot 11

Lesion nematode 31, 32, 35, 36,

47, 59, 60, 61, 62, 83, 98, 99, 100, 103, 104,

106, 113, 114, 116, 132, 133, 140, 141

Ligustrum necrotic ringspot virus 88

Lime anthracnose 124

Lime withertip 124

Lophodermium needle cast 51, 93, 94

**M**

Macrophoma blight 38, 51, 52, 134

Macrophoma blight and dieback 52

Macrophoma dieback and leaf spot 11

Macrophoma leaf spot 8, 10, 17,

35, 56, 79, 86, 107

Macrophoma twig dieback 35

Magnaporthe summer patch 96

Maize chlorotic dwarf virus 103, 106

Maize dwarf mosaic virus - a 103, 104

Maize dwarf mosaic virus - b 104

Maize dwarf mosaic virus - k 106

Melanconium leaf spot 16, 67

Melting out 97, 98, 99, 100,

101, 103, 104, 106

Microdochium blight 47

Microstroma leaf spot 72

Miscanthus blight 101

Monochaetia canker 49

Monostichella leaf spot 5

Mummy berry 57

Myrothecium leaf spot 11, 27, 28, 74, 139

Myrothecium stem and root rot 22

Myxosporium dieback 81

**N**

Nailhead spot 131

Nandina stem pitting virus 29

Nectria canker 6, 35, 67,

87, 113, 121, 126, 134

Nectriella gall 85, 95

Needle browning 16

Needle cast 49, 51

Needle necrosis 15, 48, 51, 92, 93

Neocosmospora stem rot 58, 59

Net blotch 99, 100, 101

Nigrospora blight 98, 100, 103, 104

Northern corn leaf blight 105, 106

**O**

Oak leaf blister 64, 65, 66, 67

Oak root rot 11, 51, 55, 113, 114

Oat mosaic virus 97

Odontoglossum ringspot virus 90

Orange rust 122

Ovulinia petal blight 55, 56

**P**

Palm leaf spot 16

Panicum mosaic virus 99, 104

Papaya ringspot virus - w 48

Peach latent mosaic viroid 117

Peanut stunt virus 59, 62

Pepper blight 131

Pepper spot 58, 63

Pestalotia leaf blight 16

Pestalotia leaf spot 4, 12, 44, 48,

54, 56, 66, 72, 85, 86, 88, 95, 114, 115, 122, 135

Pestalotiopsis leaf and petiole spot 17

Pestalotiopsis leaf and rachis spot 17

Pestalotiopsis leaf spot 16, 48, 52, 81, 135

Petiole and stem necrosis 129

Phoma blight 9, 20, 21, 30,

37, 43, 53, 79, 107, 108, 130

Phoma crown rot 34

Phoma dieback 9, 11, 12, 35,

44, 61, 95, 107, 121, 126, 140

Phoma dieback and leaf spot 12

Phoma leaf spot 8, 9, 25, 29, 32, 38,

45, 47, 68, 77, 84, 97, 104, 110, 128, 132, 137

Phoma leaf spot and blight 9

Phoma stem rot 22, 110, 133

Phomopsis blight, canker and dieback 12

Phomopsis canker 4, 5, 6, 9, 10,

18, 35, 44, 51, 56, 57, 64, 67, 77, 84, 94, 113,

117, 118, 119, 121, 124, 126, 127, 132

Phomopsis canker and dieback 9, 10, 44,

56, 64, 67, 94, 117, 118, 121

Phomopsis dieback 4, 8, 9,

10, 16, 35, 43, 48, 49, 50, 53, 55, 56, 57, 69, 81,

82, 85, 86, 92, 95, 107, 110, 114, 115, 116, 117,

118, 119, 121, 125, 126, 134, 135

Phomopsis leaf spot 14, 15, 16,

26, 29, 36, 52, 57, 59, 72, 77, 82, 84, 86, 105,

112, 116, 122, 141

Phomopsis rachis rot 16, 17

Phomopsis stem gall 29

Phony peach 116

Phyllosticta leaf spot 4, 5, 6, 7, 8, 9,

10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 21, 22, 23,

24, 25, 26, 27, 28, 29, 30, 32, 35, 37, 38, 39, 40,

42, 43, 44, 46, 48, 52, 53, 54, 56, 57, 58, 59, 61,

62, 63, 67, 69, 70, 72, 75, 76, 78, 80, 82, 83, 84,

85, 86, 87, 88, 89, 90, 91, 96, 98, 100, 104, 105,

107, 109, 110, 111, 112, 114, 115, 116, 118,

119, 120, 121, 123, 126, 127, 128, 129, 130,

132, 136, 137, 138, 139

Phytophthora aerial blight 8

Phytophthora aerial blight, branch blight, stem and root rot 8

Phytophthora blight 9, 38, 39,

54, 56, 59, 79, 82, 89, 116, 135, 139

Phytophthora branch blight 9, 57

Phytophthora crown and root rot 18, 21, 23,

30, 35, 38, 40, 41, 45, 46, 49, 56, 73, 75, 76, 78,

79, 81, 89, 91, 92, 95, 107, 110, 112, 114, 116,

121, 124, 127, 137

Phytophthora crown, root, and stem rot 69, 89

Phytophthora dieback 12, 54, 56, 127

Phytophthora root and crown rot 5, 6, 14,

23, 27, 39, 41, 43, 49, 52, 55, 69, 73, 76, 81, 84,

86, 110, 124, 129, 134

Phytophthora root and stem rot 9, 15, 28,

35, 38, 45, 53, 73, 79, 82, 84, 107, 128, 129,

133, 138, 139

Phytophthora root rot 4, 5, 6, 8, 9, 10, 11,

12, 14, 15, 16, 17, 22, 23, 24, 26, 27, 28, 29, 30,

34, 35, 36, 38, 39, 40, 41, 42, 43, 44, 45, 48, 49,

50, 51, 53, 54, 55, 56, 57, 58, 59, 60, 66, 67, 68,

69, 70, 71, 72, 73, 74, 75, 76, 77, 79, 80, 81, 82,

83, 84, 86, 87, 88, 89, 92, 93, 94, 95, 107, 109,

110, 111, 112, 113, 115, 116, 117, 118, 119,

120, 121, 122, 123, 124, 125, 127, 128, 129,

130, 131, 132, 133, 134, 135, 136, 137, 138, 139

Phytophthora shuck rot 72

Phytophthora stem rot 7, 8, 9, 27,

45, 47, 58, 75, 138

Phytophthora twig blight 12, 56, 134

Pilidium leaf spot 5

Pin nematode 97

Pine needle rust 20, 93, 94

Pine wood nematode 93, 94

Pine-oak gall rust 65, 66, 67

Pink disease 94

Pink mold 72

Pink snow mold 96, 100

Pitch canker 93, 94

Pith necrosis 131

Plantago asiatica mosaic virus 29

Ploioderma needle cast 94

Plum leaf scald 118

Plum pockets 118

Pod rot 58

Popcorn disease 85

Poria root rot 94

Potato leafroll virus 133

Potato leak 133

Potato virus y 130, 132

Powdery mildew 5, 7, 9, 21,

23, 24, 27, 28, 29, 30, 32, 33, 38, 39, 40, 43, 44,

46, 47, 54, 56, 57, 59, 60, 61, 62, 63, 64, 65, 66,

67, 69, 72, 73, 74, 75, 76, 81, 82, 87, 88, 89, 95,

97, 100, 103, 105, 107, 108, 109, 112, 113, 114,

115, 116, 118, 121, 122, 123, 127, 128, 130,

132, 135, 137, 138, 139, 140, 141

Pseudocercospora leaf spot 39, 43, 44,

49, 54, 55, 56, 87, 88, 91, 95, 116, 117, 118,

120, 121, 122, 124, 126, 127, 128, 132, 134,

135, 136, 137

Pseudonectria canker 36

Pseudopeziza leaf spot 63

Pucciniastrum leaf rust 55, 56

Punky rot 42

Purple blotch 78

Purple seed stain 59

Purple-bordered leaf spot 5, 6

Pyrenochaeta root rot 98

Pythium blight 9, 13, 90, 96,

98, 99, 100, 101, 103, 104, 106, 107

Pythium crown, root and stem rot 27, 28,

47, 139

Pythium petiole rot 20

Pythium root and crown rot 13, 25, 34,

37, 47, 55, 68, 107, 129, 130, 137, 138

Pythium root dysfunction 96

Pythium root dysfunction and crown rot 96

Pythium root rot 4, 5, 6, 7, 8, 9,

10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22,

23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35,

36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 49,

50, 51, 52, 53, 54, 55, 56, 57, 59, 60, 61, 62, 65,

66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78,

79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91,

92, 93, 94, 95, 97, 99, 100, 101, 102, 103, 104,

107, 108, 109, 110, 111, 112, 114, 115, 116,

117, 119, 120, 121, 122, 123, 124, 125, 126,

127, 128, 129, 130, 131, 132, 133, 134, 135,

136, 138, 139, 141

Pythium stem rot 21, 31, 33, 64

**Q**

Quince rust 51, 114, 119

**R**

Rachis blight 16, 17

Rachis rot 16

Radish bacterial black rot 34

Rahcis blight 17

Ramorum blight 39, 54, 55, 56, 134, 135

Ramularia leaf spot 20, 113, 130

Raspberry leaf curl virus 122

Ray blight 21

Red crown rot 59

Red root rot 105

Red stele 112

Red thread 100, 101

Reniform nematode 47, 60, 83

Rhizoctonia blight 23, 31, 53, 56,

93, 96, 98, 99, 100, 101, 102, 103, 104, 106, 107

Rhizoctonia crown and stem rot 45, 47,

57, 67, 89

Rhizoctonia crown rot 18, 20, 37, 53, 78

Rhizoctonia foliar blight 22, 48, 58, 59

Rhizoctonia leaf blight 23, 99

Rhizoctonia root and stem rot 7, 8, 9, 18,

21, 25, 27, 28, 32, 34, 37, 42, 45, 47, 54, 61, 62,

63, 73, 82, 84, 94, 107, 108, 128, 130, 132, 133

Rhizoctonia root rot 5, 6, 8, 9, 10,

11, 12, 13, 14, 15, 17, 18, 19, 20, 21, 23, 24, 26,

27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 41,

42, 43, 44, 45, 46, 48, 49, 50, 51, 53, 54, 57, 60,

62, 67, 68, 69, 70, 71, 72, 73, 74, 75, 77, 78, 79,

81, 82, 84, 85, 86, 87, 90, 91, 92, 93, 94, 95, 97,

103, 104, 106, 107, 108, 109, 111, 112, 113,

114, 116, 120, 121, 124, 128, 129, 134, 135,

136, 137, 138, 139

Rhizoctonia stem rot 12, 20, 27, 46, 53,

58, 61, 73, 75, 77, 80, 83, 110, 130, 131, 139

Rhizoctonia web blight 18, 21

Rhizosphaera needle cast 93, 94

Ring nematode 6, 9, 10, 11, 12,

15, 32, 33, 35, 36, 44, 46, 47, 49, 51, 57, 58, 60,

61, 62, 63, 65, 71, 76, 78, 81, 82, 83, 88, 95, 96,

97, 98, 99, 100, 101, 102, 104, 105, 106, 107,

113, 116, 118, 121, 132, 134, 135, 139, 140, 141

Root and crown rot 56, 104

Root and stem rot 6, 75, 82

Root rot 18, 20, 35, 48, 53,

56, 57, 65, 76, 82, 89, 94, 98, 100, 101, 115, 117

Root-knot nematode 6, 7, 9, 10,

11, 12, 15, 17, 18, 22, 23, 27, 28, 30, 31, 32, 33,

34, 35, 36, 41, 42, 43, 44, 46, 47, 48, 56, 57, 58,

60, 61, 62, 63, 71, 73, 75, 76, 77, 78, 79, 80, 81,

83, 84, 85, 88, 91, 96, 97, 98, 99, 100, 101, 102,

104, 106, 107, 110, 113, 114, 116, 118, 121,

123, 124, 125, 129, 130, 131, 132, 133, 135,

136, 137, 138, 139, 140, 141

Rose rosette virus 121

Rosette 122

Rust 8, 17, 20, 26, 27, 29,

37, 40, 41, 42, 49, 50, 51, 52, 58, 61, 62, 63, 68,

71, 74, 83, 84, 85, 89, 91, 92, 97, 98, 99, 100,

101, 103, 104, 106, 111, 112, 117, 118, 119,

120, 121, 125, 126, 128, 138, 139

**S**

Sap streak 6

Sapwood rot 93

Scab 40, 45, 72, 105,

109, 115, 116, 117, 118, 119, 125, 126, 139

Sclerotinia crown rot 24, 30, 61, 113

Sclerotinia stem rot 24, 25, 31, 32,

47, 60, 128, 132

Scurf 42

Seiridium canker 49, 52

Semi loose smut 97

Septoria glume blotch 105

Septoria leaf spot 5, 20, 21, 25, 27,

42, 43, 44, 54, 56, 60, 70, 73, 86, 100, 102, 105,

107, 108, 115, 122, 123, 125, 130, 132

Septoria speckled leaf blotch 100

Sheath nematode 98, 99, 104

Sheath rot 98, 102

Shot hole 116

Shothole cherry leaf spot 117

Smooth patch fungus 8

Snow mold 100

Soft rot 18, 32, 78

Soil borne oat mosaic virus 97

Soil borne wheat mosaic virus 97

Soil rot 42

Sooty blotch 63, 114, 119, 120

Sooty mold 64, 105

Sore shin 60, 132

Sorghum downy mildew 105, 106

Sour rot 116, 118, 120, 125

Sour rot market disease 118

Southern blight 4, 6, 8, 9, 20,

21, 22, 23, 24, 25, 28, 36, 42, 43, 46, 52, 58, 60,

61, 62, 71, 72, 73, 75, 76, 78, 79, 80, 81, 83, 84,

85, 87, 96, 100, 109, 110, 113, 114, 128, 129,

130, 131, 132, 133, 135, 136, 139

Southern corn leaf blight 105

Southern stem blight 8, 9, 26,

28, 41, 109, 138

Soybean cyst nematode 60

Soybean rust 59

Sphaeropsis dieback 5, 49, 50,

51, 64, 92, 119

Sphaeropsis shoot blight 48, 49

Sphaeropsis stem gall 64

Sphaerulina leaf spot 12, 123

Spiral nematode 10, 11, 12, 15,

18, 32, 33, 35, 36, 42, 46, 47, 60, 61, 62, 78, 81,

82, 83, 96, 98, 99, 100, 104, 106, 131, 132, 133

Spot anthracnose 6, 10, 11, 43, 44, 54, 56

Spot blotch 100

Spring black stem 60

Spring dead spot 98, 106

Spur blight 122

Squash mosaic virus 46, 47, 48

Stagonospora blotch 105

Stem and bulb nematode 30

Stem canker 25, 28, 33, 42,

57, 59, 61, 62, 75, 110, 114, 123

Stemphylium leaf blight 78

Stemphylium leaf spot 20, 21, 32,

61, 73, 83, 124, 133, 139

Stigmatomycosis 72

Stigmina leaf spot 17

Sting nematode 10, 11, 12, 32,

36, 41, 42, 46, 56, 58, 60, 61, 62, 63, 67, 72, 83,

85, 96, 98, 99, 100, 104, 106, 107, 113, 115,

119, 120, 122, 132, 133

Strawberry mild yellow edge virus 113

Stubby root nematode 31, 32, 33,

48, 56, 60, 61, 68, 83, 96, 98, 99, 103, 104, 105,

106, 122, 132, 133, 140, 141

Stunt nematode 10, 12, 32, 46, 56, 60,

62, 66, 86, 96, 97, 99, 100, 101, 105, 113, 132

Sudden death syndrome 59

Summer black stem 60

Sweet potato feathery mottle virus 42

**T**

Take-all 96, 98, 99, 104, 105, 106

Tan-brown rot 112

Tar spot 5, 6, 10, 11, 12, 67, 104

Target spot 46, 59, 62, 63, 132

Thielaviopsis trunk rot 17

Thread blight 11, 12, 40, 85,

88, 95, 121, 139

Timber rot 51

Tip bight 50

Tobacco etch virus 131, 132

Tobacco ringspot virus 46, 48, 122,

127, 132

Tomato aspermy virus 132

Tomato ringspot virus 48, 80, 114,

117, 122, 129

Tomato spotted wilt virus 19, 21, 22,

26, 27, 28, 37, 43, 54, 59, 68, 69, 70, 72, 78, 79,

89, 107, 129, 130, 131, 132, 135, 138

Tomato spotted wilt virus - l 59, 131,

132, 138

Trunk canker 59

Tubakia leaf spot 44, 72

Tulip breaking virus 80

Turnip mosaic virus 28, 31, 32, 33, 41

Twig blight 10, 35, 49, 51,

57, 67, 88, 92, 116, 119, 126

Twig dieback 29, 35, 43, 44, 86

**V**

Venturia leaf spot 6

Verticillium wilt 5, 6, 21, 36,

58, 82, 83, 121, 123, 128

Volutella blight 12, 35, 36

Volutella dieback 35

# W

Watermelon fruit blotch 45

Watermelon mosaic virus 46, 47, 48

Watermelon mosaic virus 2 48

Watery soft rot 32

Web blight 9, 11, 12, 20, 22,

24, 27, 30, 48, 51, 52, 53, 56, 58, 61, 62, 70, 74,

75, 76, 85, 108, 122, 123, 130

Wet weather blight 83

White leaf spot 31, 32, 33

White mold 4, 22, 26, 37,

53, 60, 61, 62, 76, 80, 91, 109, 131

White rot 32, 33, 66, 67,

78, 94, 113, 114, 119, 132, 140

White rust 31, 41, 42

Wild fire 59

Wire stem disease 32, 33

Witches broom 86, 115

Wood decay 72

Wood rot 116

# Y

Yellow leaf spot 56

Yellow patch 96, 100, 102, 103

**Z**

Zonate leaf spot 5, 6, 54, 63,

65, 81, 84, 101, 104, 105, 137

Zucchini yellow mosaic virus 46, 47, 48

# INDEX TO THE GENERA AND SPECIES OF PLANT PATHOGENIC ALGAE

**C**

*Cephaleuros* sp 10, 70, 122

*Cephaleuros virescens* 16, 56, 65,

66, 67, 81, 82, 97, 122, 134, 135, 136

# INDEX TO THE GENERA AND SPECIES OF PLANT PATHOGENIC BACTERIA

**A**

*Acidovorax (Pseudomonas) facilis* 133

*Acidovorax avenae* 37, 45, 90, 96

*Acidovorax avenae* subsp*. cattleyae* 90

*Acidovorax avenae* subsp*. citrulli* 45

*Acidovorax konjaci* 9

*Acidovorax* sp 30

*Agrobacterium radiobacter* 131

*Agrobacterium* sp 6, 25, 49,

51, 55, 58, 62, 71, 87, 113, 114, 116, 118, 121,

122, 123, 126, 136, 140

*Agrobacterium tumefaciens* 10, 11, 27,

29, 40, 43, 44, 55, 57, 64, 71, 76, 87, 88, 111,

114, 115, 116, 121, 122, 124, 126, 129, 131,

136, 140

# B

*Burkholderia andropogonis* 40

*Burkholderia cepacia* 18

# C

*Candidatus Liberibacter asiaticus* 124, 125

*Clavibacter michiganensis* 131

*Corynebacterium ilicis* 11

*Corynebacterium* sp 58

# E

*Enterobacter nimipressuralis* 43

*Enterobacter* sp 68

*Erwinia amylovora* 112, 113,

114, 119, 12*0*

*Erwinia carotovora* 13, 21, 25,

32, 33, 45, 46, 58, 71, 79, 105, 131, 132, 133

*Erwinia chrysanthemi* 13, 21, 58,

71, 90, 105, 131

*Erwinia herbicola* 131

*Erwinia* sp 12, 13, 19, 21,

32, 33, 36, 42, 47, 58, 71, 78, 79, 111, 112, 113,

114, 119, 120

*Erwinia tracheiphila* 45, 46

# P

*Pectobacterium (Erwinia) chrysanthemi* 25

*Pectobacterium carotovorum carotovorum* 18

*Pectobacterium carotovorum* ssp. *carotovorum* 13

*Pectobacterium chrysanthemi* 22, 23, 45, 131

*Pseudomona syringae* pv*. syringae* 80

*Pseudomonas aeruginosa* 34

*Pseudomonas cichorii* 21, 22, 34,

76, 84, 110, 111, 129, 138

*Pseudomonas coronafaciens* 97

*Pseudomonas corrugata* 131

*Pseudomonas glycines* 59

*Pseudomonas lachrymans* 46

*Pseudomonas marginalis* 32

*Pseudomonas solanacearum* 26

*Pseudomonas* sp 13, 18, 20,

21, 22, 23, 24, 31, 33, 41, 45, 46, 59, 76, 79, 96,

113, 115, 116, 131, 133

*Pseudomonas syringae* 7, 8, 14,

21, 22, 26, 30, 52, 62, 63, 68, 69, 70, 74, 75, 76,

82, 84, 89, 91, 96, 104, 109, 112, 113, 116, 121,

128, 131, 138

*Pseudomonas syringae* pv. *aptata* 68

*Pseudomonas syringae* pv*. atrofaciens* 104

*Pseudomonas syringae* pv*. maculicola* 22, 76

*Pseudomonas syringae* pv. *savastanoi* 70

*Pseudomonas viridiflava* 21, 23, 34, 109

# R

*Ralstonia solanacearum* 9, 22, 24,

26, 27, 45, 58, 62, 68, 75, 130, 131, 132, 133

# S

*Streptomyces ipomoea* 42

*Streptomyces scabies* 133

**X**

*Xanthomonas arboricola* 116

*Xanthomonas axonopodis* 59, 131

*Xanthomonas axonopodis* pv*. glycines* 59

*Xanthomonas campestris* 12, 13, 14, 15,

27, 28, 31, 32, 33, 34, 58, 59, 60, 62, 68, 73, 85,

91, 110, 112, 114, 115, 116, 117, 118, 121, 124,

128, 130, 131

*Xanthomonas campestris* pv. *begoniae* 28

*Xanthomonas campestris* pv*. hederae* 14, 15

*Xanthomonas campestris* pv*. pruni* 116

*Xanthomonas campestris* pv*. raphani* 34

*Xanthomonas campestris* pv*. vesicatoria* 34,

130, 131

*Xanthomonas perforans* 131

*Xanthomonas* sp 13, 14, 15, 27,

32, 34, 37, 61, 68, 76, 91, 104, 108, 116, 118,

124, 131, 138

*Xanthomonas vitians* 13

*Xylella fastidiosa* 4, 5, 8, 57, 64, 65,

66, 67, 69, 85, 95, 115, 116, 118, 137, 139, 140

# INDEX TO THE GENERA AND SPECIES OF PLANT PATHOGENIC FUNGI

**A**

*Acantharia* sp 66

*Acremonium coenophialum* 100

*Actinopelte dryina* 44, 64, 65, 66, 67, 69

*Actinopelte* sp 5, 43, 64, 65, 66, 67, 69

*Albugo ipomoeae* 42

*Albugo occidentalis* 41

*Albugo* sp 31

*Aleurodiscus oakesii* 8

*Alternaria alternata* 15, 45, 46, 84,

101, 120, 131, 132

*Alternaria brassicola* 31, 32, 33

*Alternaria dianthi* 40

*Alternaria helianthi* 24

*Alternaria mali* 113

*Alternaria panax* 14, 15

*Alternaria porri* 78

*Alternaria* sp 4, 7, 8, 9, 10, 11,

13, 14, 15, 16, 18, 19, 20, 21, 22, 24, 25, 26, 27,

28, 29, 31, 32, 33, 34, 36, 37, 38, 39, 40, 42, 45,

46, 47, 48, 50, 51, 58, 59, 60, 61, 62, 63, 68, 70,

71, 74, 76, 78, 79, 81, 82, 83, 84, 85, 88, 91, 93,

94, 95, 100, 103, 104, 105, 107, 108, 109, 111,

113, 116, 118, 119, 120, 122, 123, 124, 126,

127, 128, 129, 130, 131, 132, 133, 136, 138, 139

*Alternaria tagetica* 26

*Alternaria tenuissima* 20, 94, 131

*Alternaria zinniae* 24, 27

*Aphanomyces* sp 62

*Apiognomonia errabunda* 64

*Apiognomonia quercina* 66, 67

*Apiognomonia* sp 4, 5, 67, 72

*Apiognomonia veneta* 5, 95

*Apiosporina morbosa* 115, 117, 118

*Aristastoma* sp 61, 62, 63

*Armillaria mellea* 11, 51, 112,

113, 114, 121, 126

*Armillaria tabescens* 16, 44,

53, 88, 112, 118

*Ascochyta* sp 5, 6, 21, 32, 58, 60,

62, 81, 83, 97, 99, 100, 103, 104, 105, 106, 108,

109, 110, 11*1*

*Aspergillus flavus* 105

*Aspergillus* sp 58, 10*3*

*Asperisporium sequoiae* 49

*Asperisporium* sp 49

*Aureobasidium microstichum* 78

# B

*Bipolaris cynodontis* 98

*Bipolaris maydis* 105

*Bipolaris sorokiniana* 98, 100, 103, 105

*Bipolaris* sp 52, 84, 96, 97,

98, 99, 100, 101, 102, 103, 104, 105, 106

*Bipolaris spicifera* 98

*Blumeriella jaapii* 117, 118

*Blumeriella* sp 117

*Botryodiplodia* sp 4, 8, 9, 11,

44, 49, 64, 70

*Botryosphaeria dothidea* 5, 11, 39,

44, 49, 57, 59, 70, 77, 82, 85, 86, 87, 95, 113,

116, 118, 119, 122, 125, 126, 140

*Botryosphaeria obtusa* 112, 113, 119, 120

*Botryosphaeria rhodina* 116

*Botryosphaeria ribis* 44, 57, 70,

113, 121

*Botryosphaeria* sp 4, 5, 6, 7,

8, 9, 10, 11, 14, 16, 29, 35, 38, 39, 40, 41, 43,

44, 48, 49, 50, 51, 52, 54, 55, 56, 57, 58, 59, 64,

65, 66, 67, 70, 71, 72, 77, 80, 81, 82, 83, 84, 85,

86, 87, 88, 89, 91, 92, 93, 94, 95, 107, 111, 112,

113, 114, 115, 116, 117, 118, 119, 120, 121,

122, 123, 125, 126, 127, 134, 135, 136, 137, 140

*Botrytis cinerea* 8, 9, 18, 20,

21, 22, 23, 26, 27, 28, 33, 34, 37, 44, 45, 54, 56,

58, 68, 73, 74, 75, 78, 79, 81, 82, 86, 89, 91, 94,

107, 108, 109, 110, 111, 112, 121, 122, 127,

128, 130, 131, 139

*Botrytis elliptica* 79

*Botrytis* sp 4, 7, 8, 9,

10, 11, 13, 15, 17, 18, 20, 21, 22, 23, 24, 25, 26,

27, 28, 29, 30, 31, 32, 35, 37, 39, 42, 45, 56, 57,

58, 60, 62, 68, 69, 71, 75, 76, 78, 79, 80, 81, 85,

89, 90, 91, 93, 95, 107, 108, 110, 112, 113, 116,

121, 122, 124, 127, 129, 131, 133, 135, 139, 140

*Botrytis tulipae* 80

*Briosia azaleae* 56

**C**

*Calonectria crotalariae* 59

*Calonectria* sp 59

*Cenangium ferruginosum* 93

*Cephalosporium* sp 35, 78

*Cephalothecium roseum* 72

*Ceratocystis caerulescens* 6

*Ceratocystis fagacearum* 65

*Ceratocystis* sp 42, 65, 67

*Ceratostomella fimbriata* 42

*Cercospora abeliae* 38

*Cercospora antirrhini* 128

*Cercospora arachidicola* 58

*Cercospora asparagi* 18

*Cercospora bolleana* 85

*Cercospora brachypus* 140

*Cercospora brassicae* 33

*Cercospora brassicola* 32

*Cercospora cercidicola* 59

*Cercospora citrullina* 45, 46, 47

*Cercospora cornicola* 44

*Cercospora fusca* 72

*Cercospora gossypina* 83

*Cercospora handelii* 56

*Cercospora kikuchii* 59

*Cercospora lythracearum* 109

*Cercospora medicaginis* 60

*Cercospora odontoglossi* 90

*Cercospora pittospori* 94, 95

*Cercospora sesami* 91

*Cercospora sojina* 59

*Cercospora sorghi* var. *maydis* 105

*Cercospora* sp 4, 6, 8, 9, 10,

11, 13, 17, 18, 22, 23, 25, 26, 27, 29, 30, 31, 32,

33, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 51,

52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64,

69, 70, 73, 74, 78, 79, 81, 82, 83, 85, 87, 88, 89,

91, 95, 96, 98, 99, 102, 103, 104, 105, 107, 108,

109, 110, 111, 112, 113, 114, 115, 116, 117,

118, 119, 120, 121, 122, 123, 125, 126, 127,

128, 129, 130, 131, 134, 135, 136, 138, 139, 140

*Cercospora thujina* 92

*Cercospora viburnicola* 38

*Cercospora violae* 139

*Cercosporella brassicae* 33

*Cercosporella* sp 31, 32, 33, 85, 122

*Cercosporidium personatum* 58

*Cercosporidium sequoiae* 49

*Cerotelium fici* 85

*Choanephora cucurbitarum* 47

*Choanephora* sp 45, 82, 107

*Ciboria carunculoides* 85

*Cladosporium carpophilum* 116, 118

*Cladosporium caryigenum* 72

*Cladosporium cucumerina* 45

*Cladosporium effusum* 72

*Cladosporium humile* 6

*Cladosporium paeoniae* 91

*Cladosporium* sp 10, 11, 19,

28, 40, 41, 58, 60, 62, 72, 79, 83, 89, 91, 102,

104, 105, 110, 112, 116, 118, 122, 125, 131, 134

*Claviceps purpurea* 105

*Clitocybe tabescens* 117

*Coccomyces hiemalis* 117, 118

*Coccomyces* sp 116, 117, 11*8*

*Coleosporium apocynaceum* 8

*Coleosporium asterum* 20

*Coleosporium* sp 26, 42, 93, 94

*Collecephalus hemerocalli* 78

*Collecephalus* sp 78

*Colletotrichum caudatum* 98

*Colletotrichum dematium* 59, 60, 62

*Colletotrichum fragariae* 112

*Colletotrichum gloeosporioides* 4, 40, 72,

85, 90, 112, 113, 119, 134, 135, 140

*Colletotrichum graminicola* 5, 96, 97,

98, 99, 100, 102, 103, 104, 105, 106

*Colletotrichum higginsianum 33*

*Colletotrichum lindemuthianum* 62

*Colletotrichum orbiculare* 45, 46, 47

*Colletotrichum* sp 4, 5, 6, 7, 8,

9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21,

23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35,

36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48,

49, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62,

63, 64, 65, 66, 68, 69, 71, 72, 74, 76, 77, 78, 79,

80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 93,

95, 96, 97, 98, 99, 100, 102, 103, 104, 105, 106,

107, 108, 109, 110, 112, 113, 114, 116, 118,

119, 120, 121, 122, 124, 125, 127, 128, 130,

131, 133, 134, 135, 136, 137, 138, 139, 140, 141

*Colletotrichum theobromicola* 35

*Colletotrichum trichellum* 15

*Colletotrichum truncatum* 59, 62

*Coniella diplodiella* 140

*Coniothyrium fuckelii* 121, 122, 123

*Coniothyrium* sp 4, 6, 15, 19, 52,

82, 86, 95, 121, 122, 123, 140

*Corticium salmonicolor* 85

*Corticium* sp 85

*Corynespora cassiicola* 59, 62, 91,

127, 128, 132, 138

*Corynespora* sp 46, 59, 88, 128

*Coryneum betulinum* 29

*Coryneum japonicum* 67, 88

*Coryneum kunzei* 66, 67

*Cristulariella depraedans* 5

*Cristulariella moricola* 5, 54, 81, 84

*Cristulariella pyramidalis* 5, 6, 81

*Cristulariella* sp 81

*Cronartium quercuum* 65, 66, 93, 94

*Cronartium quercuum* f. sp. *fusiforme* 66, 93, 94

*Cronartium* sp 65, 67, 93

*Cryptocline betularum* 29

*Cryptodiaporthe populea* 125

*Cryptosporella umbrina* 121

*Curvularia lunata* 106

*Curvularia* sp 33, 70, 96, 97,

98, 99, 100, 101, 103, 104, 105, 106

*Cylindrocarpon* sp 15, 37, 108, 121

*Cylindrocladium crotalariae* 58, 59, 116

*Cylindrocladium crotolaria* 6

*Cylindrocladium* sp 6, 9, 10, 11, 43,

44, 48, 56, 57, 58, 59, 82, 86, 93, 111, 121, 127

*Cylindrocladium spathiphylli* 13

*Cylindrosporium betulae* 29

*Cylindrosporium filipendulae* 123

*Cylindrosporium juglandis* 72

*Cylindrosporium kerriae* 113

*Cylindrosporium* sp 5, 6, 29,

67, 85, 118, 123, 126

*Cytospora* sp 51, 64, 114, 116, 126

*Cytosporella* sp 11, 121

# D

*Dendrophoma obscurans* 112

*Dendrophoma* sp 112

*Diaporthe phaseolorum* 59

*Diaporthe* sp 51, 57, 59, 61, 82, 110

*Dibotryon morbosum* 115, 117, 118, 119

*Didymella applanata* 122

*Didymella bryoniae* 46

*Didymella* sp 46, 47, 58

*Didymellina macrospora* 71

*Diplocarpon earliana* 112

*Diplocarpon mespili* 119

*Diplocarpon rosae* 121

*Diplocarpon* sp 112, 121

*Diplodia gossypina* 42

*Diplodia pinea* 50, 93

*Diplodia* sp 9, 10, 17, 50, 51,

52, 58, 70, 72, 81, 83, 85, 92, 107, 112, 113,

114, 116, 118, 119, 121

*Discella* sp 64

*Discohainesia* sp 112

*Discosia* sp 91

*Discula destructiva* 43, 44

*Discula fraxinea* 87

*Discula quercina* 65, 66, 67

*Discula* sp 4, 5, 6,

44, 64, 65, 66, 67, 87

*Dothichiza* sp 57

*Dothiorella* sp 10, 11, 16, 29, 56, 57, 77,

81, 95, 114, 115, 116, 117, 118, 120, 121, 126

*Dothistroma* sp 93, 94

*Drechslera avenae* 97

*Drechslera dictyoides* 99, 100, 101

*Drechslera gigantea* 98, 101

*Drechslera* sp 71, 96, 97, 98, 99,

100, 101, 104, 105, 106

*Drechslera teres* 100

*Drechslera tritici-repentis* 105

# E

*Echinulata* sp 67

*Eipcoccum nigrum* 105

*Elsinoe ampelina* 140

*Elsinoe corni* 43, 44

*Elsinoe* sp 6, 10, 11, 43, 44, 54, 56, 122

*Elsinoe veneta* 44, 122, 140

*Embellisia alli* 78

*Endothia* sp 64

*Entomosporium mespili* 70, 111, 112,

114, 119, 120

*Entomosporium sp* 112, 114, 119, 120

*Entyloma polysporum* 24

*Entyloma* sp 24

*Epicoccum purpurescens* 105

*Epicoccum* sp 61, 97, 105

*Erysiphe alphitoides* 66

*Erysiphe lagerstroemiae* 81

*Erysiphe liriodendri* 81

*Erysiphe polygoni* 63

*Erysiphe* sp 32, 39, 43, 60,

61, 62, 63, 81, 100, 105, 108

*Eutypa* sp 140

*Exobasidium azaleae* 56

*Exobasidium camelliae* 134, 135

*Exobasidium* sp 56, 57, 134, 135

*Exobasidium vaccinii* 56

*Exserohilum rostratum* 98, 103, 104, 106

*Exserohilum* sp 75, 98, 104

*Exserohilum turcicum* 105

**F**

*Fomes annosus* 51

*Fomes* sp 51

*Frommea obtusa* 112

*Fulvia fulva* 132

*Fusarium avenaceum* 96

*Fusarium hostae* 79

*Fusarium moniliforme* 18, 83, 105

*Fusarium oxysporum* 6, 16, 18, 20,

21, 32, 33, 42, 46, 58, 59, 62, 63, 74, 75, 81, 82,

83, 84, 108, 112, 130, 131, 132

*Fusarium solani* 6, 21, 42, 53, 63

*Fusarium* sp 6, 7, 8, 9, 10, 11, 12,

13, 15, 16, 17, 18, 19, 20, 21, 23, 24, 27, 28, 29,

31, 32, 33, 34, 35, 36, 37, 39, 40, 41, 42, 44, 45,

46, 47, 49, 51, 56, 57, 58, 59, 60, 61, 62, 63, 67,

68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80,

81, 82, 83, 84, 86, 88, 90, 91, 93, 94, 95, 97, 98,

99, 100, 101, 102, 103, 104, 105, 106, 107, 108,

110, 112, 115, 116, 120, 121, 123, 124, 127,

128, 130, 131, 132, 133, 134, 135, 137, 138, 139

*Fusarium virguliforme* 59

*Fusicladium carpophilum* 117

*Fusicladium* sp 54, 116

*Fusicoccum aesculi* 114

*Fusicoccum amygdali* 116

*Fusicoccum* sp 4, 10, 11, 14,

35, 49, 86, 114, 116, 118, 140

**G**

*Gaeumannomyces graminis* 96, 98, 99,

105, 106

*Gaeumannomyces* sp 98, 104, 105

*Ganoderma* sp 67, 93

*Ganoderma zonatum* 16, 17

*Geotrichum candidum* 125

*Geotrichum* sp 116, 118, 120

*Gloeocercospora sorghi* 96, 104, 105

*Gloeodes pomigena* 114, 119, 120

*Gloeodes* sp 114

*Gloeosporium apocryptum* 5, 6

*Gloeosporium aridum* 87

*Gloeosporium cingulata* 57

*Gloeosporium frigidum* 40

*Gloeosporium ilicis* 11

*Gloeosporium limetticola* 124

*Gloeosporium minus* 57

*Gloeosporium quercina* 67

*Gloeosporium* sp 4, 5, 6, 8, 9,

10, 11, 13, 14, 15, 17, 18, 27, 28, 29, 35, 36, 40,

43, 44, 56, 61, 67, 72, 81, 82, 84, 85, 86, 87, 95,

105, 108, 112, 114, 115, 116, 118, 120, 121,

126, 134, 135, 136, 140

*Glomerella cingulata* 56, 59, 82, 88,

114, 116, 120, 121, 134, 135, 139, 140

*Glomerella* sp 13, 15, 19, 44,

56, 57, 88, 114, 121, 134, 135, 140

*Gnomonia caryae* 72

*Gnomonia comari* 112

*Gnomonia leptostyla* 72

*Gnomonia platani* 95

*Gnomonia quercina* 65, 67

*Gnomonia* sp 67, 72, 95, 112

*Gnomonia ulmea* 137

*Golovinomyces orontii* 9

*Graphiola phoenicis* 16

*Graphium* sp 49

*Greeneria uvicola* 140

*Guignardia bidwellii* 15, 140

*Guignardia* sp 10

*Gymnoconia interstitialis* 122

*Gymnoconia peckiana* 122

*Gymnosporangium clavipes* 51, 92, 111,

112, 114, 119, 120

*Gymnosporangium juniperi-virginianae* 51, 92,

113, 114

*Gymnosporangium* sp 49, 50, 51,

111, 114, 119, 120

# H

*Hainesia lythri* 112

*Helminthosporium avenae* 97

*Helminthosporium carbonum* 105

*Helminthosporium papulosum* 114

*Helminthosporium sativum* 97, 100

*Helminthosporium* sp 16, 33, 67,

72, 84, 96, 97, 98, 99, 100, 101, 102, 103, 104,

105, 106, 128

*Helminthosporium triseptatum* 96

*Helminthosporium turticum* 105

*Heterobasidion annosum* 56, 93

*Heterobasidion* sp 93, 94

*Heterosporium iridis* 71

*Heterosporium* sp 71

*Hypoxylon* sp 5, 67

# I

*Isariopsis* sp 140

**K**

*Kabatiella sp* 5

*Kabatina juniperi* 49, 50, 51, 92

*Kabatina* sp 48, 49, 50, 51, 52, 92

*Kellermania* sp 19

*Kuehneola malvicola* 84

*Kuehneola uredinis* 122

*Kunkelia nitens* 122

**L**

*Laetisaria fuciformis* 100, 101

*Lanzia* sp 96, 98, 99

*Lanzia/Moellerodiscus* sp 96, 97, 98, 99,

100, 101, 102, 104, 106

*Leptographium* sp 93

*Leptosphaeria coniothyrium* 121, 122, 123

*Leptosphaeria korrae* 98

*Leptosphaerulina* sp 58, 60, 62, 63,

96, 98, 99, 100, 101, 103, 106

*Leptosphaerulina trifolii* 96, 98, 100,

101, 10*2*

*Leptothyrium* sp 11

*Leveillula* sp 54

*Lophodermium pinastri* 93, 94

*Lophodermium* sp 51, 93, 94

**M**

*Macrophoma candollei* 35

*Macrophoma fici* 85

*Macrophoma* sp 8, 10, 11, 15,

17, 35, 38, 44, 48, 49, 51, 52, 54, 56, 79, 86, 92,

107, 109, 114, 126, 134, 140

*Macrophomina phaseoli* 18, 24, 25, 42, 46,

58, 59, 61, 62, 63, 83, 84, 91, 93, 94, 103, 105

*Macrophomina* sp 5, 42, 45, 59,

61, 62, 63, 76, 83, 94, 105, 107, 112, 131, 132

*Magnaporthe grisea* 101

*Marasmius* sp 100, 104

*Marssonina populi* 125

*Marssonina* sp 72, 125

*Melampsora medusa* 125

*Melampsora* sp 125, 126

*Melanconium fuligineum* 140

*Melanconium* sp 16, 67, 140

*Melanotus phillipsii* 100

*Melanotus* sp 100

*Meliola* sp 82

*Microdochium nivale* 96, 98, 100, 101

*Microdochium* sp 98

*Microdochium tabacina* 47

*Microgloeum* sp 116

*Microsphaera alni* 56, 72, 81, 89

*Microsphaera penicillata* 43, 67

*Microsphaera pulchra* 44

*Microsphaera* sp 43, 44, 56, 57, 59,

66, 67, 72, 88, 95, 135, 137, 140

*Microsphaera sparsa* 39

*Microstroma juglandis* 72

*Microthyriella rubi* 114

*Moellerodiscus* sp 98, 99

*Monilinia fructicola* 110, 115,

116, 117, 118

*Monilinia* sp 116, 118, 120

*Monilinia vaccinii-corymbosi* 57

*Monilochaetes infuscans* 42

*Monilochaetes* sp 42

*Monochaetia monochaeta* 137

*Monochaetia* sp 49, 65, 114

*Monostichella salicis* 126

*Monostichella* sp 5

*Mycoleptodiscus indicus* 19, 106

*Mycosphaerella carigena* 72

*Mycosphaerella cercidicola* 59

*Mycosphaerella dendroides* 72

*Mycosphaerella lythracearum* 109

*Mycosphaerella* sp 46, 56, 59,

72, 95, 112, 140

*Myrothecium roridumi*

*Myxosporium* sp 81

# N

*Nectria cinnabarinai*

*Nectria* sp 35, 67, 87,

113, 121, 126, 134

*Nectriella pironii* 85

*Nectriella* sp 95

*Nematospora* sp 72

*Neocomospora vasinfecta* 59

*Nigrospora* sp 100, 103, 104

*Nigrospora sphaerica* 98

**O**

*Oidiopsis sicula* 132

*Oidium euonymi-japonici* 40

*Oidium monilioides* 105

*Oidium* sp 7, 21, 23, 24, 27,

28, 29, 30, 33, 38, 39, 40, 43, 44, 46, 47, 54, 56,

57, 59, 62, 64, 65, 66, 67, 69, 73, 74, 75, 76, 81,

82, 95, 105, 107, 108, 109, 112, 114, 116, 121,

123, 127, 128, 130, 132, 137, 138

*Ophiodothella vaccinii* 56

*Ophiosphaerella agrostis* 96

*Ophiosphaerella korrae* 98

*Ophiostoma ulmi* 137

*Ovulinia azaleae* 55, 56

*Oxysporus* sp 35

# P

*Paecilomyces buxi* 35

*Paecilomyces* sp 35

*Passalora personata* 58

*Passalora sequoiae* 49, 51

*Pellicularia* sp 11, 85

*Penicillium digitatum* 125

*Penicillium gladioli* 70

*Penicillium* sp 37, 42, 70,

71, 101, 116

*Peronospora antirrhini* 128

*Peronospora belbahrii* 74

*Peronospora grisea* 130

*Peronospora parasitica* 31, 32, 33

*Peronospora phlogina* 107, 108

*Peronospora* sp 31, 32, 33, 68,

73, 76, 80, 113, 128, 130

*Peronospora sparsa* 121

*Pestalotia* sp 4, 12, 16, 44, 48,

49, 50, 54, 56, 66, 72, 81, 82, 85, 86, 88, 95,

114, 115, 122, 135, 140

*Pestalotiopsis palmarum* 17

*Pestalotiopsis* sp 16, 48, 49, 50, 51,

52, 56, 81, 86, 92, 93, 107, 134, 135

*Phacidium* sp 10, 11, 12

*Phaeoacremonium* sp 140

*Phaeoisariopsis griseola* 61

*Phaeoisariopsis* sp 81

*Phaeosphaeria acori* 101

*Phakopsora pachyrhizi* 59

*Phellinus gilvus* 67

*Phoma clematidina* 110

*Phoma destructiva* 132

*Phoma exigua* 9, 62

*Phoma lingam* 32

*Phoma medicaginis* 60

*Phoma* sp 4, 8, 9, 11, 12, 20,

21, 22, 25, 29, 30, 32, 35, 37, 38, 43, 44, 45, 46,

47, 52, 53, 60, 61, 68, 73, 74, 77, 79, 83, 84, 97,

98, 104, 105, 107, 108, 110, 114, 115, 116, 119,

121, 122, 123, 124, 126, 128, 130, 132, 133, 137

*Phoma trifolii* 63

*Phoma/Ascochyta* sp 34

*Phoma/Phyllosticta* sp 9, 19, 20, 24,

26, 38, 39, 44, 48, 51, 52, 76, 78, 91, 95, 96,

110, 120, 126, 127, 129, 138

*Phomopsis amygdali* 116

*Phomopsis gardeniae* 124

*Phomopsis juniperovora* 51

*Phomopsis livella* 9

*Phomopsis mali* 113

*Phomopsis* sp 4, 5, 6, 8, 9,

10, 12, 14, 15, 16, 17, 18, 26, 29, 35, 36, 43, 44,

48, 49, 50, 51, 52, 53, 55, 56, 57, 58, 59, 64, 67,

69, 72, 75, 77, 81, 82, 83, 84, 85, 86, 87, 92, 94,

95, 105, 107, 110, 112, 114, 115, 116, 117, 118,

119, 121, 122, 125, 126, 127, 132, 133, 134,

135, 136, 141

*Phragmidium rubidae* 122

*Phragmidium* sp 121

*Phyllactinia guttata* 67

*Phyllactinia* sp 56, 65, 67, 87

*Phyllosticta ampelicida* 139, 140, 141

*Phyllosticta antirrhini* 128

*Phyllosticta betulina* 29

*Phyllosticta catalpae* 30

*Phyllosticta clematidis* 110

*Phyllosticta cotoneastri* 111

*Phyllosticta euonymi* 40

*Phyllosticta minima* 5, 6

*Phyllosticta punctata* 39

*Phyllosticta pyriformis* 90

*Phyllosticta* sp 4, 5, 6, 7, 8, 9,

10, 11, 12, 13, 14, 15, 16, 18, 19, 21, 22, 23, 25,

27, 28, 29, 30, 32, 35, 37, 39, 42, 43, 44, 46, 48,

49, 52, 53, 54, 56, 57, 58, 59, 61, 62, 63, 67, 69,

70, 72, 75, 78, 80, 82, 83, 84, 85, 86, 87, 88, 89,

96, 98, 99, 100, 104, 105, 106, 107, 109, 111,

112, 114, 115, 116, 118, 119, 120, 121, 123,

126, 127, 128, 129, 130, 132, 136, 137, 138

*Physalospora obtusa* 113, 114

*Physopella fici* 85

*Phytophthora cactorum* 12, 49, 56,

112, 139

*Phytophthora capsici* 46, 47, 131, 132

*Phytophthora cinnamomi* 4, 5, 6, 9, 10,

11, 12, 14, 15, 30, 35, 39, 40, 41, 43, 44, 49, 50,

51, 55, 56, 57, 60, 65, 66, 67, 70, 73, 75, 81, 86,

87, 88, 89, 92, 93, 94, 110, 112, 115, 116, 118,

120, 124, 127, 129, 134, 135, 136, 137

*Phytophthora citrophthora* 78

*Phytophthora cryptogea* 15, 21, 27,

34, 56, 57, 109, 129, 133

*Phytophthora hibernalis* 55

*Phytophthora ilicis* 10

*Phytophthora lateralis* 55

*Phytophthora nicotianae* 6, 8, 9, 10,

12, 14, 15, 21, 27, 29, 35, 38, 40, 45, 51, 53, 58,

73, 75, 76, 77, 78, 79, 84, 86, 87, 88, 89, 91, 96,

107, 109, 111, 121, 124, 127, 128, 129, 132,

133, 135, 136, 137, 138, 139

*Phytophthora nicotianae* var. *parasitica* 8, 27

*Phytophthora palmivora* 14, 15, 17

*Phytophthora parasitica* 6, 9, 15, 35,

45, 56, 73, 74, 84, 87, 116, 128, 132, 138, 139

*Phytophthora ramorum* 39, 54, 55,

56, 134, 135

*Phytophthora* sp 4, 5, 6, 8, 9,

10, 11, 12, 14, 15, 16, 17, 18, 19, 21, 22, 23, 24,

26, 27, 28, 29, 30, 34, 35, 36, 38, 39, 40, 41, 42,

43, 44, 45, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56,

57, 58, 59, 65, 67, 68, 69, 70, 71, 72, 73, 74, 75,

76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88,

89, 91, 92, 93, 94, 95, 107, 108, 109, 110, 111,

112, 113, 114, 115, 116, 117, 118, 119, 120,

121, 122, 123, 124, 125, 127, 128, 129, 130,

131, 132, 133, 134, 135, 136, 137, 138, 139

*Phytophthora syringae* 56, 134

*Pilidium* sp 5

*Plasmodiophora brassicae* 32

*Plasmopara halstedii* 25

*Plasmopara obducens* 27

*Plasmopara* sp 22, 141

*Plasmopara viburni* 39

*Plasmopara viticola* 139, 140, 141

*Pleurotus ostreatus* 72

*Ploioderma lethale* 94

*Ploioderma* sp 94

*Podosphaera leucotricha 114*

*Podosphaera pannosa* 121

*Podosphaera* sp 114, 118

*Polyporus calkinsii* 64

*Polythrincium trifolii* 63

*Pseudocercospora juniperi* 51

*Pseudocercospora* sp 39, 43, 44, 49, 54,

55, 56, 87, 88, 91, 95, 116, 117, 118, 120, 121,

122, 124, 126, 127, 128, 132, 134, 135, 136, 137

*Pseudocercosporella capsellae* 33

*Pseudocercosporella* sp 85

*Pseudonectria buxi* 35

*Pseudonectria rousseliana* 36

*Pseudonectria* sp 36

*Pseudoperonospora cubensis* 46, 47

*Pseudopeziza medicaginis* 60

*Pseudopeziza* sp 60, 63

*Puccinia arenariae* 40

*Puccinia canaliculata* 52

*Puccinia coronata* 97, 100

*Puccinia cynodontis* 98

*Puccinia grindeliae* 20

*Puccinia hemerocallidis* 78

*Puccinia heterospora* 83

*Puccinia heucherae* 127

*Puccinia lantanae* 138

*Puccinia malvacearum* 83

*Puccinia oxalidis* 90, 91

*Puccinia pelargonii* 68

*Puccinia pelargonii-zonalis* 68

*Puccinia peridermiospora* 89

*Puccinia podophylli* 29

*Puccinia polysora* 105

*Puccinia psidii* 86

*Puccinia recondita* 105

*Puccinia* sp 20, 26, 27, 37, 42,

58, 62, 74, 78, 83, 84, 91, 97, 98, 99, 100, 101,

103, 104, 105, 106, 107, 128, 139

*Puccinia stenotaphri* 104

*Puccinia stiiformis* 105

*Puccinia tanaceti* 21

*Puccinia xanthii* 27

*Puccinia zoysia* 106

*Pucciniastrum americanum* 122, 123

*Pucciniastrum myrtilli* 56

*Pucciniastrum* sp 56

*Pucciniastrum vaccinii* 55, 56, 57

*Pyrenophora avenae* 97

*Pyricularia grisea* 69, 97, 98, 99,

100, 101, 104

*Pyricularia* sp 97, 98, 99,

102, 103, 104

*Pythium aphanidermatum* 47, 132

*Pythium irregulare* 33

*Pythium myriotylum* 58

*Pythium* sp 4, 5, 6, 7, 8, 9, 10, 11,

12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24,

25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37,

38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50,

51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 64,

65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77,

78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90,

91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102,

103, 104, 105, 106, 107, 108, 109, 110, 111,

112, 114, 115, 116, 117, 119, 120, 121, 122,

123, 124, 125, 126, 127, 128, 129, 130, 131,

132, 133, 134, 135, 136, 137, 138, 139, 141

*Pythium spinosum* 98

*Pythium splendens* 12, 13, 15, 22,

28, 75, 85, 107, 128

*Pythium volutum* 96

**R**

*Raffaelea lauricola* 77

*Ramularia tulasnei* 113

*Rhizoctonia cerealis* 96, 100, 102, 103

*Rhizoctonia solani* 8, 9, 18, 21, 23,

27, 28, 32, 33, 47, 48, 53, 58, 59, 61, 62, 73, 78,

82, 83, 84, 93, 96, 97, 98, 99, 100, 103, 104,

106, 107, 112, 132, 133

*Rhizoctonia* sp 5, 6, 7, 8, 9, 10, 11,

12, 13, 14, 15, 17, 18, 19, 20, 21, 22, 23, 24, 25,

26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38,

39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51,

52, 53, 54, 56, 57, 58, 59, 60, 61, 62, 63, 67, 68,

69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81,

82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94,

95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105,

106, 107, 108, 109, 110, 111, 113, 114, 115,

116, 120, 121, 122, 123, 124, 127, 128, 129,

130, 131, 132, 133, 134, 135, 136, 137, 138, 139

*Rhizoctonia zeae* 96, 98, 99, 104

*Rhizopus* sp 42, 47, 58, 106,

113, 114, 116, 117, 118, 132

*Rhizosphaera kalkhoffii* 92

*Rhizosphaera* sp 93, 94

*Rhytisma acerinum* 5, 6

# S

*Schizothyrium pomi* 114, 120

*Schizothyrium* sp 114, 120

*Scirrhia acicola* 93

*Sclerotinia homeocarpa* 96, 99, 102,

104, 106, 107

*Sclerotinia sclerotiorum* 4, 22, 24, 25,

26, 30, 32, 33, 37, 53, 60, 61, 62, 63, 76, 78, 80,

109, 113, 128, 132

*Sclerotinia* sp 25, 31, 32, 47, 58,

60, 61, 62, 63, 91, 99, 101, 113

*Sclerotium cepivorum* 78

*Sclerotium delphinii* 73, 110

*Sclerotium rolfsii* 4, 6, 8, 9, 20,

21, 22, 23, 24, 25, 26, 28, 36, 41, 42, 43, 46, 52,

58, 60, 61, 62, 68, 71, 72, 73, 75, 76, 78, 79, 80,

81, 83, 84, 85, 87, 96, 109, 110, 113, 114, 128,

129, 130, 131, 132, 133, 135, 136, 138, 139

*Sclerotium* sp 21, 22, 24, 43,

60, 61, 62, 73, 100, 110, 132, 133

*Scorias* sp 64

*Scorias spongiosa* 64

*Scutellonema* sp 10, 12, 18, 32,

33, 35, 42, 47, 60, 62, 81, 82, 83, 132

*Seiridium* sp 49

*Seiridium unicorne* 49, 52

*Septobasidium* sp 44, 65, 66, 77

*Septoria azaleae* 56

*Septoria chrysanthemi* 21

*Septoria lycopersici* 132

*Septoria myricae* 86

*Septoria nodorum* 100, 105

*Septoria* sp 5, 20, 25, 27, 42,

43, 44, 54, 56, 60, 70, 86, 100, 102, 105, 107,

108, 115, 120, 122, 123, 125, 132

*Serenomyces phoenicis* 16

*Serenomyces* sp 17

*Setosphaeria turcica* 106

*Sphaceloma euonymi-japonica* 40

*Sphaceloma fawcetti* 125

*Sphaeropsis sapinea* 49, 92, 93, 94

*Sphaeropsis* sp 5, 49, 50, 51, 52,

64, 67, 82, 92, 114, 119, 120, 126

*Sphaeropsis tumefaciens* 86

*Sphaerotheca fuliginea* 46

*Sphaerotheca humuli* var. *fuliginea* 44

*Sphaerotheca macularis* 113, 139

*Sphaerotheca pannosa* 114, 115, 116, 121

*Sphaerotheca* sp 46, 47, 72, 113,

114, 116, 121, 122

*Sphaerulina acorii* 12

*Sphaerulina rubi* 123

*Spongospora* sp 133

*Spongospora subterranean* 133

*Stagonospora curtisii* 78

*Stagonospora nodorum* 105

*Stagonospora* sp 78

*Stemphylium botryosum* 61, 78

*Stemphylium solani* 130, 132

*Stemphylium* sp 18, 20, 21, 32,

61, 63, 73, 78, 83, 124, 132, 133, 139

*Stigmina palmivora* 16, 17

**T**

*Taphrina caerulescens* 64, 65, 66, 67

*Taphrina communis* 118

*Taphrina deformans* 116, 118

*Taphrina* sp 64, 65, 66, 67, 117, 118

*Taphrina ulmi* 137

*Thielaviopsis basicola* 9, 10, 11, 12,

30, 35, 36, 38, 46, 53, 60, 67, 76, 82, 83, 84, 91,

107, 108, 109, 111, 127, 128, 133, 136, 138, 139

*Thielaviopsis paradoxa* 17, 91

*Thielaviopsis* sp 12, 17, 81, 107, 116

*Trabutia quercina* 67

*Tranzschelia discolor* 118

*Tranzschelia pruni-spinosae* 117

*Tranzschelia* sp 116, 118

*Trichaptum abietinum* 93

*Trichoderma* sp 42

*Tubakia dryina* 44, 64, 65,

66, 67, 70, 72

*Tubakia* sp 65, 67

# U

*Uncinula bicornis* 5

*Uncinula* sp 5, 140, 141

*Urocystis agropyri* 105

*Uromyces asclepiadis* 17

*Uromyces phaseoli* 61, 62

*Uromyces* sp 61, 62, 63, 98

*Uromyces striatus* 61

*Uromyces triquetrus* 41

*Ustilago avenae* 97

*Ustilago cynodontis* 98

*Ustilago hordei* 97

*Ustilago nigra* 97

*Ustilago nuda* 100, 105

*Ustilago* sp 97, 100, 106

*Ustilago striiformis* 100

*Ustilago tritici* 97, 100, 105

# V

*Venturia acerina* 6

*Venturia carpophila* 116

*Venturia inaequalis* 113, 114, 118, 120

*Verticillium albo-atrum* 21

*Verticillium* sp 5, 6, 58, 82, 83,

113, 121, 123, 128

*Volutella buxi* 35, 36

*Volutella pachysandrae* 36

*Volutella* sp 12, 35, 36

# Z

*Zygophiala jamaicensis* 120

# INDEX TO THE GENERA AND SPECIES OF PLANT PATHOGENIC LICHENS

**S**

*Strigula* sp 82, 135

# INDEX TO THE GENERA AND SPECIES OF PLANT PATHOGENIC NEMATODES

**A**

*Aphelenchoides fragariae* 75, 79, 113

*Aphelenchoides* sp 14, 28, 39, 53,

79, 90, 108, 130, 138, 139

**B**

*Belonolaimus* sp 10, 11, 12, 32,

36, 41, 42, 46, 56, 58, 60, 61, 62, 63, 67, 72, 83,

85, 96, 98, 99, 100, 104, 106, 107, 113, 115,

119, 120, 122, 132, 133

*Bursaphelenchus* sp 92, 93, 94

*Bursaphelenchus xylophilus* 94

**C**

*Criconemella* sp 6, 9, 10, 11, 12,

15, 32, 33, 35, 36, 44, 46, 47, 49, 51, 57, 58, 60,

61, 62, 63, 65, 71, 76, 78, 81, 82, 83, 88, 95, 96,

97, 98, 99, 100, 101, 102, 104, 105, 106, 107,

113, 116, 118, 121, 132, 134, 135, 139, 140, 141

**G**

*Gracilicus* sp 97

**H**

*Helicotylenchus* sp 10, 11, 12, 15,

18, 32, 33, 35, 36, 42, 47, 60, 61, 78, 83, 96, 98,

99, 100, 104, 106, 131, 132, 133

*Hemicycliophora* sp 98, 99, 104

*Hoplolaimus columbus* 32, 35, 36,

47, 58, 60, 61, 71, 83, 97, 99, 103, 104, 106, 130

*Hoplolaimus galeatus* 36, 96, 98,

99, 104, 106, 107

*Hoplolaimus* sp 35, 36, 60, 71,

83, 96, 98, 99, 100, 103, 104, 106, 107, 113, 132

**M**

*Meloidogyne arenaria* 60

*Meloidogyne graminis* 104

*Meloidogyne incognita* 28, 33, 35, 46,

60, 61, 77, 83, 102, 106, 132

*Meloidogyne incognita acrita* 60

*Meloidogyne* sp 6, 7, 9, 10, 11,

12, 15, 17, 18, 22, 23, 27, 28, 30, 31, 32, 33, 34,

35, 36, 41, 42, 43, 44, 46, 47, 48, 56, 57, 58, 60,

61, 62, 63, 71, 73, 75, 76, 77, 78, 79, 80, 81, 83,

84, 85, 88, 91, 97, 98, 99, 100, 101, 102, 104,

106, 107, 110, 113, 114, 116, 118, 121, 123,

124, 125, 129, 130, 131, 132, 133, 135, 136,

137, 139, 140, 141

*Meloidogyne thamesi* 60

**P**

*Paratrichodorus* sp 31, 32, 33, 48,

56, 60, 61, 68, 83, 96, 98, 99, 103, 104, 105,

106, 122, 132, 133, 140, 141

*Pratylenchus* sp 31, 32, 35,

36, 47, 59, 60, 61, 62, 83, 98, 99, 100, 103, 104,

106, 113, 114, 116, 132, 133, 140, 141

**R**

*Rotylenchulus reniformis* 47, 60, 83

*Rotylenchulus* sp 83

**S**

*Scutellonema* sp 10, 12, 18, 32, 33,

35, 42, 47, 60, 62, 81, 82, 83, 132

**T**

*Trichodorus* sp 33, 60, 98, 104

*Tylenchorhynchus* sp 10, 12, 32,

46, 56, 60, 62, 66, 86, 96, 97, 99, 100, 101, 105,

113, 132

**X**

*Xiphinema* sp 10, 12, 44, 57,

60, 72, 99, 104, 106, 112, 113, 114, 116, 118,

119, 121, 136, 140, 141

## INDEX TO THE GENERA AND SPECIES OF PLANT PATHOGENIC PHYTOPLASMAS

**C**

*Candidatus Phytoplasma asteris* 23

# INDEX TO THE GENERA AND SPECIES OF PLANT PATHOGENIC VIROIDS

# P

*Pelamoviroid — Peach latent mosaic viroid* 117

## INDEX TO THE GENERA AND SPECIES OF PLANT PATHOGENIC VIRUSES

# A

*Alfamovirus — Alfalfa mosaic virus* 28, 39,

68, 80

**B**

*Badnavirus — Canna yellow mottle virus* 37

*Bigeminivirus — Abutilon mosaic virus* 83

*Bromovirus — Cowpea chlorotic mottle virus* 63

*Bymovirus — Oat mosaic virus* 97

*Bymovirus — Soil-borne oat mosaic virus* 97

*Bymovirus — Wheat spindle streak mosaic virus* 105

**C**

*Capillovirus — Nandina stem pitting virus* 29

*Carlavirus — Ligustrum necrotic ringspot virus 88*

*Cauliomvirus — Cauliflower mosaic virus* 33

*Comovirus — Bean pod mottle virus* 62

*Comovirus — Cowpea mosaic virus* 63

*Comovirus — Cowpea severe mosaic virus* 62, 63

*Comovirus — Squash mosaic virus* 46, 47, 48

*Crinivirus — Blackberry yellow vein-associated virus* 122

*Cucumovirus — Cucumber mosaic virus* 28,

29, 46, 62, 63, 71, 80, 128, 130, 131, 132

*Cucumovirus — Peanut stunt virus* 59, 62

*Cucumovirus — Tomato aspermy virus* 132

**E**

*Emaravirus — Rose rosette virus* 121

**F**

*Foveavirus — Asian prunus virus 1* 117

*Furovirus — Soil-borne wheat mosaic virus* 97

*Furovirus — Wheat soil-borne mosaic virus* 105

**I**

*Ilarvirus — Apple mosaic virus* 117, 121

*Ilarvirus — Prunus necrotic ringspot virus* 117,

122

**L**

*Luteovirus — Barley yellow dwarf mosaic virus* 97, 100

*Luteovirus — Barley yellow dwarf virus* 97,

100, 103, 105

*Luteovirus — Barley yellow dwarf virus - pav* 105

*Luteovirus — Barley yellow dwarf virus - pav & rpv* 97

*Luteovirus — Potato leafroll virus* 133

*Luteovirus — Raspberry leaf curl virus* 122

*Luteovirus — Strawberry mild yellow edge virus* 113

# N

*Nepovirus — Arabis mosaic virus* 79

*Nepovirus — Cherry leaf roll virus* 43

*Nepovirus — Tobacco ringspot virus* 46, 48,

122, 127, 132

*Nepovirus — Tomato ringspot virus* 48, 80,

114, 117, 122

*Nucleorhabdovirus — Corn mosaic virus* 106

# P

*Potexvirus — Cymbidium mosaic virus* 90

*Potexvirus — Hosta virus x* 79

*Potexvirus — Plantago asiatica mosaic virus* 29

*Potyvirus — Bean mosaic virus* 62

*Potyvirus — Bean yellow mosaic virus* 61,

62, 71

*Potyvirus — Blackeye cowpea mosaic virus* 63

*Potyvirus — Iris fulva mosaic virus* 71

*Potyvirus — Iris mosaic virus* 71

*Potyvirus — Maize dwarf mosaic virus* 103,

104, 106

*Potyvirus — Maize dwarf mosaic virus - a* 103,

104

*Potyvirus — Maize dwarf mosaic virus - b* 104,

106

*Potyvirus — Maize dwarf mosaic virus - k* 106

*Potyvirus — Papaya ringspot virus - w* 48

*Potyvirus — Peanut mottle virus* 59, 60

*Potyvirus — Potato virus y* 130, 132

*Potyvirus — Soybean mosaic virus* 60

*Potyvirus — Sweet potato feathery mottle virus* 42

*Potyvirus — Tobacco etch virus* 131, 132

*Potyvirus — Tulip breaking virus* 80

*Potyvirus — Turnip mosaic virus* 28, 31,

32, 33, 41

*Potyvirus — Watermelon mosaic virus* 46,

47, 48

*Potyvirus — Watermelon mosaic virus 1* 46,

47, 48

*Potyvirus — Watermelon mosaic virus 2* 46,

47, 48

*Potyvirus — Zucchini yellow mosaic virus* 46,

47, 48

**S**

*Satellivirus — Panicum mosaic virus* 99, 104

*Sobemovirus — Southern bean mosaic virus* 62,

63

**T**

*Tobamovirus — Odontoglossum ringspot virus* 90

*Tobamovirus — Tobacco mosaic virus* 90, 132

*Tobravirus — Tobacco rattle virus* 67

*Tospovirus — Impatiens necrotic spot virus* 7,

19, 21, 22, 24, 25, 26, 27, 28, 37, 42, 68, 69, 73,

74, 78, 79, 80, 89, 90, 91, 107, 109, 127, 129,

130, 135, 138

*Tospovirus — Tomato spotted wilt virus* 19, 21,

22, 26, 27, 28, 37, 43, 54, 59, 68, 69, 70, 72, 78,

79, 89, 107, 129, 130, 131, 132, 135, 138

*Tospovirus — Tomato spotted wilt virus - l* 59,

131, 132, 138

*Trichovirus — Apple chlorotic leaf spot* 117

# V

*Varicosavirus — Camellia yellow mottle virus* 134, 135

# W

*Waikavirus — Maize chlorotic dwarf virus* 103,

106

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