



**INDEX OF  
PLANT DISEASES  
IN SOUTH CAROLINA**

**Third Edition**

**James H. Blake, Ed.D.  
State Coordinator  
SC Master Gardener Program  
SC Master Naturalist Program**

**Meg Williamson, M.S.  
Plant Disease Diagnostician**

## 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.

First edition 2008  
Blake, James H., Williamson, M. and Ellingson, K.

Second edition June 2012  
Blake, James H., and Williamson, M.

Third edition November 2015  
Blake, James H., and Williamson, M.

## TABLE OF CONTENTS

Index of Plant Diseases in South Carolina.....	4
Index to the Genera and Species of Plants.....	142
Index to the Common Names of Plants .....	152
Index to the Plant Families .....	162
Index to the Common Names of Plant Diseases.....	164
Index to the Genera and Species of Plant Pathogenic Algae.....	172
Index to the Genera and Species of Plant Pathogenic Bacteria .....	173
Index to the Genera and Species of Plant Pathogenic Fungi .....	174
Index to the Genera and Species of Plant Pathogenic Lichens.....	182
Index to the Genera and Species of Plant Pathogenic Nematodes.....	183
Index to the Genera and Species of Plant Pathogenic Phytoplasmas .....	184
Index to the Genera and Species of Plant Pathogenic Viroids.....	185
Index to the Genera and Species of Plant Pathogenic Viruses .....	186

## 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

*Apiognomonium* 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)**

FUNGI

*Botryosphaeria* sp. — Botryosphaeria canker

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

FUNGI

*Phyllosticta* sp. — Phyllosticta leaf spot

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

FUNGI

*Apiognomonina 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  
*Hypoxyton* sp. — Hypoxyton 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

*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  
*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

*Apiognomonina* 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  
*Botryodiplodia* sp. — Botryodiplodia 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

*Criconebella* 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

***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

FUNGI

*Armillaria* 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)**

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  
*Cytospora* sp. — Cytospora 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* (Nepthytis)**

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 chrysanthemi* — 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

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

BACTERIA

*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

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

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

*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

*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

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

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

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 tanacetii* — 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

FUNGI

*Colletotrichum* sp. — Anthracnose,

*Colletotrichum* leaf spot

*Pythium* sp. — Pythium root rot

*Rhizoctonia solani* — Rhizoctonia blight

*Rhizoctonia* sp. — Rhizoctonia leaf 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. — *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. — Alternaria 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

*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)**

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

*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

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

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*

***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

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 spot*  
*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)**

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

***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

*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

*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  
*Cercospora* 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

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

BACTERIA

*Pseudomonas* sp. — Bacterial leaf spot

FUNGI

*Cercospora* 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)**

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  
*Cercospora* 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 brassicola* — 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  
*Sclerotinia 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

*Cercospora* 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

*Cercospora brassicae* — White leaf spot

*Cercospora* sp. — Cercospora 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

*Pseudocercospora capsellae* — White leaf spot

*Pythium irregulare* — Pythium root rot

*Pythium* sp. — Pythium root rot

*Rhizoctonia* sp. — Rhizoctonia root rot

NEMATODES

*Criconebella* 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

*Caulimovirus* — 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

*Criconebella* 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

*Criconebella* 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

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

FUNGI

*Gloeosporium* sp. — Anthracnose

##### ***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

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

## 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)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***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



***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  
*Phyllosticta* sp. — Phyllosticta 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 floridiae* — 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

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

#### 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

#### ***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

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

#### FUNGI

*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 sequoiae* — Needle cast, Needle blight

*Pestalotiopsis* sp. — Pestalotiopsis canker and dieback

*Seiridium unicorne* — Seiridium 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  
*Botryodiplodia* sp. — Botryodiplodia 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

*Gymnosporangium 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)**

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

*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

*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

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

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

*Botryodiplodia* sp. — Botryodiplodia 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

**CYPERACEAE**

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

FUNGI

*Colletotrichum* sp. — Anthracnose

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

FUNGI

*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)

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

### *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

*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)**

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

***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

*Phomopsis* sp.— Phomopsis tip blight and canker

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

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 - 1

### ***Cassia* sp. (Senna)**

## FUNGI

*Oidium* sp. — Powdery mildew

### ***Cercis canadensis* (Eastern Redbud)**

## FUNGI

*Botryosphaeria dothidea* — Botryosphaeria canker and dieback

*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 cassicola* — 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

*Neocosmospora 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

*Apiognomonium 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 acutissima* (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  
*Apiognomonium 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  
*Apiognomonium 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  
*Hypoxyton* sp. — Hypoxyton 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-leaved 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

**ILLICACEAE**

***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

***Crocsmia* 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 illinoensis* (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

*Apiognomonium* 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

***Lamiaeum* sp. (Lamiaeum)**

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)**

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)**

FUNGI

*Puccinia* sp. — Rust

***Mentha* sp. (Mint)**

FUNGI

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

***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

*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

*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

***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

*Criconebella* 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*

***Hosta* sp. (Hosta)**

BACTERIA

*Erwinia carotovora* — Bacterial blight  
*Erwinia* sp. — Bacterial blight  
*Pseudomonas aeruginosa* — 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

*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)**

FUNGI

*Botrytis elliptica* — Botrytis blight  
*Pythium* sp. — Pythium 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

*Pseudomonas syringae* pv. *syringae* — Bacterial blight

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

*Penicillium* sp. — Blue mold

***Veratrum californicum* (False Hellebore)**

FUNGI

*Botrytis* sp. — Botrytis blight

*Pythium* sp. — Pythium root rot

**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

*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-leaved Butterfly Bush)**

FUNGI

*Phytophthora* sp. — Phytophthora root rot

***Buddleia x weyeriana* (Weyeriana Butterfly Bush)**

FUNGI

*Peronospora hariatii* — 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  
*Phomopsis* 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 tenuis* — 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  
*Xanthomonas 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

### *Ficus* sp. (Fig)

#### FUNGI

*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

*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  
*Cercospora* sp. — Cercospora leaf spot  
*Ciboria carunculoides* — Popcorn disease  
*Cylindrosporium* sp. — Cylindrosporium leaf spot  
*Pseudocercospora* sp. — Pseudocercospora leaf spot

## MUSACEAE

### *Musa balbisiana* (Banana)

#### FUNGI

*Rhizoctonia* sp. — Rhizoctonia root rot

## MYRICACEAE

### *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)**

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

*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

*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)**

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

*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

*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

*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

***Picea glauca* var. *albertiana* (Dwarf Alberta  
Spruce)**

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 elliotii* (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)**

#### 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  
*Heterobasidium* 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

*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

## PITTOSPORACEAE

### ***Pittosporum tobira* (Japanese Pittosporum, Dwarf Japanese Pittosporum)**

#### FUNGI

*Alternaria* sp. — Alternaria leaf spot  
*Botryosphaeria* sp. — Botryosphaeria dieback  
*Botrytis cinerea* — Botrytis 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

#### 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

*Apiognomonium veneta* — Anthracnose  
*Botryosphaeria dothidea* — Botryosphaeria dieback  
*Botryosphaeria* sp. — Botryosphaeria dieback  
*Colletotrichum* sp. — Anthracnose

*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

#### 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

*Criconebella* 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  
*Criconebella* 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

*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

**Axonopus sp. (Carpetgrass)**

FUNGI

*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. (Brome grass)**

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

*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

**Hordeum sp. (Barley)**

## FUNGI

*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  
*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

#### ***Oryza sativa* (Rice)**

FUNGI

*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

### ***Secale cereale* (Rye)**

#### FUNGI

*Bipolaris sorokiniana* — Bipolaris leaf spot and crown rot  
*Bipolaris* sp. — Bipolaris leaf spot  
*Helminthosporium sorokinianum* — Helminthosporium leaf spot, Seedling blight

### ***Secale* sp. (Rye)**

#### FUNGI

*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

#### NEMATODES

*Hoplolaimus columbus* — Columbia lance nematode

#### VIRUSES

*Luteovirus* — Barley yellow dwarf virus

### ***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

#### NEMATODES

*Hoplolaimus* sp. — Lance nematode  
*Paratrichodorus* sp. — Stubby root nematode  
*Pratylenchus* sp. — Lesion nematode

### ***Sorghum halepense* (Johnsongrass)**

#### VIRUSES

*Potyvirus* — Maize dwarf mosaic virus  
*Potyvirus* — Maize dwarf mosaic virus - a  
*Waikavirus* — Maize chlorotic dwarf virus

### ***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

### ***Sorghum* sp. (Sorghum)**

#### FUNGI

*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. *atrovaciens* — 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  
*Epicoccum 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 striiformis* — 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 turcicum* — 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. — Rhizopus 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

*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

***Rumex* sp. (Curly Dock)**

FUNGI

*Cercospora* sp. — Cercospora leaf spot

**POLYPODIACEAE**

***Platyserium* 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

***Protea* sp. (Protea)**

#### 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* 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

***Aquilegia canadensis* (Eastern Columbine)**

#### FUNGI

*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-quince 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* (Quince)**

FUNGI

*Gymnosporangium clavipes* — Cedar-quince 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* — Phytophthora 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)**

##### 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

#### ***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

*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

*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  
*Zygothia jamaicensis* — Flyspeck

***Rhaphiolepis indica* (Indian Hawthorn)**

BACTERIA

*Erwinia amylovora* — Fire blight

FUNGI

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

*Botryosphaeria* sp. — Botryosphaeria dieback  
*Cercospora* sp. — Cercospora leaf spot, Angular leaf spot  
*Colletotrichum* sp. — Anthracnose  
*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  
*Coniothyrium 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  
*Illarvirus* — Apple mosaic virus

*Illarvirus* — *Prunus necrotic ringspot virus*

***Rubus allegheniensis* (Blackberry)**

FUNGI

*Coniothyrium* sp. — Coniothyrium cane blight  
*Kuehneola uredinis* — Cane and leaf rust

***Rubus calycinooides* (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 appplanata* — 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. — Botryosphaeria dieback  
*Botrytis cinerea* — Gray mold  
*Botrytis* sp. — Botrytis fruit rot  
*Cercospora rubi* — Cercospora leaf spot  
*Cercospora* sp. — Cercospora leaf spot  
*Cercospora rubi* — Double blossom, Rosette  
*Cercospora* sp. — Rosette  
*Cladosporium* sp. — Cladosporium fruit mold  
*Colletotrichum* sp. — Anthracnose, Colletotrichum rot  
*Coniothyrium fuckelii* — 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

FUNGI

*Alternaria* sp. — Alternaria leaf spot

*Botryosphaeria* sp. — Botryosphaeria canker and dieback

*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

***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

***Spiraea* sp. (Spirea)**

FUNGI

*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 limeticola* — Lime withertip, Lime anthracnose

***Citrus limon* (Lemon)**

BACTERIA

*Candidatus Liberibacter asiaticus* — Citrus greening

FUNGI

*Phytophthora nicotianae* — Phytophthora root rot

**Citrus paradisi (Grapefruit)**

BACTERIA

*Candidatus Liberibacter asiaticus* — Citrus greening

**Citrus paradisi x reticulata (Ugli Fruit)**

FUNGI

*Mycosphaerella citri* — Citrus greasy spot

**Citrus reticulata (Mandarin, Tangerine, Satsuma)**

BACTERIA

*Candidatus Liberibacter asiaticus* — Citrus greening

FUNGI

*Colletotrichum gloeosporioides* — 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

**Ruta sp. (Rue)**

FUNGI

*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

## SAXIFRAGACEAE

### *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)

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 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

### *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 cassicola* — 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 - 1

***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 cassicola* — *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 tenuis* — Brown spot  
*Alternaria* sp. — Brown spot  
*Cercospora nicotianae* — Frog-eye 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

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

*Phomopsis vexans* — Phomopsis fruit rot  
*Phytophthora* sp. — Phytophthora root rot  
*Pythium* sp. — Pythium root rot

NEMATODES

*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 incognita* — 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

*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

*Botryosphaeria* sp. — Botryosphaeria twig dieback  
*Gnomonia ulmea* — Black leaf spot  
*Ophiostoma ulmi* — Dutch elm disease

***Ulmus* sp. (Elm)**

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)**

FUNGI

*Phoma/Phyllosticta* sp. — Phyllosticta leaf spot  
*Phytophthora nicotianae* — Phytophthora stem rot  
*Phytophthora* sp. — Phytophthora root and stem rot  
*Pythium* sp. — Pythium root and stem rot

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*

***Vitex* sp. (Vitex)**

FUNGI

*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 ampellicida* — 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 fuliginum* — 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 ampellicida* — 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 ampellicida* — 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

<i>Abelia grandiflora</i> .....	38	<i>Allium</i> sp. ....	78
<i>Abelmoschus esculentus</i> .....	82	<i>Alocasia</i> sp. ....	12
<i>Abies</i> sp. ....	91	<i>Alocasia taro</i> .....	12
<i>Abutilon</i> sp. ....	83	<i>Aloe barbadensis</i> .....	17
<i>Acer barbatum</i> .....	4	<i>Aloe</i> sp. ....	18
<i>Acer buergeranum</i> .....	4	<i>Alpinia zerumbet</i> .....	141
<i>Acer japonicum</i> .....	4	<i>Alstroemeria</i> sp. ....	78
<i>Acer negundo</i> .....	4	<i>Alternanthera</i> sp. ....	6
<i>Acer palmatum</i> .....	4, 5	<i>Althaea</i> sp. ....	83
<i>Acer palmatum</i> ‘Sango-kaku’ .....	5	<i>Alyssum</i> sp. ....	30
<i>Acer platanoides</i> .....	5	<i>Amaranthus</i> sp. ....	7
<i>Acer pseudoplatanus</i> .....	5	<i>Amaryllis</i> sp. ....	78
<i>Acer rubrum</i> .....	5	<i>Amelanchier arborea</i> .....	111
<i>Acer saccharinum</i> .....	5	<i>Amelanchier</i> sp. ....	111
<i>Acer saccharum</i> .....	5	<i>Ammophila breviligulata</i> .....	96
<i>Acer saccharum</i> subsp. <i>nigrum</i> .....	5	<i>Amsonia</i> sp. ....	8
<i>Acer</i> sp. ....	6	<i>Anacyclus</i> sp. ....	20
<i>Acer x freemanii</i> .....	6	<i>Anchusa</i> sp. ....	30
<i>Achillea</i> sp. ....	20	<i>Anemone hupehensis</i> .....	109
<i>Achimenes</i> sp. ....	68	<i>Anemone</i> sp. ....	109
<i>Aconitum</i> sp. ....	109	<i>Anoda cristata</i> .....	83
<i>Acorus gramineus</i> .....	12	<i>Anthurium</i> sp. ....	12
<i>Acorus</i> sp. ....	12	<i>Antigonon leptopus</i> .....	108
<i>Actinidia chinensis</i> .....	6	<i>Antirrhinum</i> sp. ....	128
<i>Adenium</i> sp. ....	7	<i>Aphelandra justicia</i> .....	4
<i>Adenophora</i> sp. ....	37	<i>Aquilegia canadensis</i> .....	109
<i>Adiantum raddianum</i> .....	109	<i>Aquilegia</i> sp. ....	109
<i>Aegopodium</i> sp. ....	7	<i>Arabis</i> sp. ....	30
<i>Aeschynanthus</i> sp. ....	69	<i>Arachis hypogaea</i> .....	58
<i>Agapanthus</i> sp. ....	77	<i>Aralia</i> sp. ....	14
<i>Agastache foeniculum</i> .....	72	<i>Araucaria araucana</i> .....	15
<i>Agastache</i> sp. ....	72	<i>Araucaria heterophylla</i> .....	16
<i>Agave</i> sp. ....	17	<i>Arctostaphylos</i> sp. ....	54
<i>Ageratum</i> sp. ....	20	<i>Arctotis</i> sp. ....	20
<i>Aglaonema commutatum</i> .....	12	<i>Ardisia japonica</i> .....	86
<i>Aglaonema modestum</i> .....	12	<i>Armeria juniperifolia</i> .....	95
<i>Aglaonema</i> sp. ....	12	<i>Armeria maritima</i> .....	95
<i>Agrostis palustris</i> .....	96	<i>Armeria</i> sp. ....	95
<i>Agrostis</i> sp. ....	96	<i>Artemisia schmidtiana</i> .....	20
<i>Agrostis stolonifera</i> .....	96	<i>Artemisia</i> sp. ....	20
<i>Ajuga reptans</i> .....	72	<i>Arugula</i> sp. ....	31
<i>Ajuga</i> sp. ....	72	<i>Aruncus aesthusifolius</i> .....	111
<i>Albizia julibrissin</i> .....	58	<i>Asarum</i> sp. ....	17
<i>Alcea fastigiata</i> .....	83	<i>Asclepias</i> sp. ....	17
<i>Alcea rosea</i> .....	83	<i>Asparagus officinalis</i> .....	18
<i>Alchemilla mollis</i> .....	111	<i>Asparagus setaceus</i> .....	18
<i>Alchemilla</i> sp. ....	111	<i>Asparagus</i> sp. ....	18
<i>Allium giganteum</i> .....	77	<i>Aspidistra elatior</i> .....	18
<i>Allium sativum</i> .....	78	<i>Asplenium</i> sp. ....	19
		<i>Aster novi-belgii</i> .....	20
		<i>Aster</i> sp. ....	20

<i>Astilbe japonica</i> .....	127
<i>Astilbe</i> sp.....	127
<i>Astilbe</i> x <i>arendsii</i> .....	127
<i>Astrantia</i> sp.....	7
<i>Aubrieta</i> sp.....	31
<i>Aucuba japonica</i> .....	42
<i>Aucuba</i> sp.....	43
<i>Avena</i> sp.....	97
<i>Axonopus</i> sp.....	97

## B

<i>Bacopa</i> sp.....	129
<i>Bambusa</i> sp.....	97
<i>Begonia</i> sp.....	28
<i>Begonia</i> x <i>semperflorens-cultorum</i> .....	28
<i>Belamcanda chinensis</i> .....	70
<i>Belamcanda</i> sp.....	70
<i>Berberis</i> sp.....	28
<i>Berberis thunbergii</i> .....	28
<i>Berberis</i> x <i>mentorensis</i> .....	28
<i>Beta vulgaris</i> .....	41
<i>Beta vulgaris</i> var. <i>cicla</i> .....	41
<i>Betula nigra</i> .....	29
<i>Betula</i> sp.....	29
<i>Bignonia</i> sp.....	29
<i>Bletilla</i> sp.....	90
<i>Bletilla striata</i> .....	90
<i>Borago</i> sp.....	30
<i>Bougainvillea</i> sp.....	86
<i>Brassaia actinophylla</i> .....	14
<i>Brassaia arboricola</i> .....	14
<i>Brassica chinensis</i> .....	31
<i>Brassica juncea</i> .....	31
<i>Brassica juncea</i> var. <i>crispifolia</i> .....	31
<i>Brassica juncea</i> var. <i>foliosa</i> .....	31
<i>Brassica napus</i> .....	31
<i>Brassica napus</i> var. <i>napobrassica</i> .....	31
<i>Brassica napus</i> var. <i>solidiflora</i> .....	31
<i>Brassica oleracea</i> var. <i>acephala</i> .....	32
<i>Brassica oleracea</i> var. <i>botrytis</i> .....	32
<i>Brassica oleracea</i> var. <i>capitata</i> .....	33
<i>Brassica oleracea</i> var. <i>gemmifera</i> .....	33
<i>Brassica pekinensis</i> .....	33
<i>Brassica rapa</i> .....	33
<i>Brassica rapa</i> var. <i>lorifolia</i> .....	33
<i>Brassica</i> sp.....	33
<i>Bromus</i> sp.....	97
<i>Brunnera</i> sp.....	30
<i>Buchloe dactyloides</i> .....	97
<i>Buddleia davidii</i> .....	80
<i>Buddleia salviifolia</i> .....	80
<i>Buddleia</i> sp.....	80
<i>Buddleia</i> x <i>weyeriana</i> .....	80
<i>Butia capitata</i> .....	16
<i>Butia</i> sp.....	16

<i>Buxus harlandii</i> .....	35
<i>Buxus microphylla</i> .....	35
<i>Buxus sempervirens</i> .....	35
<i>Buxus</i> sp.....	35

## C

<i>Caladium</i> sp.....	12
<i>Calamintha grandiflora</i> .....	73
<i>Calathea</i> sp.....	84
<i>Calceolaria</i> sp.....	129
<i>Calendula</i> sp.....	20
<i>Calibrachoa</i> sp.....	130
<i>Callicarpa americana</i> .....	137
<i>Callicarpa</i> sp.....	137
<i>Calluna vulgaris</i> .....	54
<i>Calycanthus</i> sp.....	36
<i>Camellia japonica</i> .....	134
<i>Camellia oleifera</i> .....	134
<i>Camellia sasanqua</i> .....	135
<i>Camellia sinensis</i> .....	135
<i>Camellia</i> sp.....	135
<i>Campanula medium</i> .....	37
<i>Campsis grandiflora</i> .....	30
<i>Canna generalis</i> .....	37
<i>Canna</i> sp.....	37
<i>Capsella bursa-pastoris</i> .....	34
<i>Capsicum annuum</i> .....	130
<i>Capsicum chinense</i> .....	131
<i>Capsicum frutescens</i> .....	131
<i>Capsicum</i> sp.....	131
<i>Cardamine</i> sp.....	34
<i>Carex pendula</i> .....	52
<i>Carex</i> sp.....	52
<i>Carya glabra</i> .....	71
<i>Carya illinoensis</i> .....	71
<i>Carya</i> sp.....	72
<i>Caryopteris</i> sp.....	138
<i>Cassia</i> sp.....	59
<i>Castanea mollissima</i> .....	64
<i>Castanea</i> sp.....	64
<i>Catalpa</i> sp.....	30
<i>Catharanthus roseus</i> .....	8
<i>Catharanthus</i> sp.....	8
<i>Cattleya heneritks</i> .....	90
<i>Cattleya</i> sp.....	90
<i>Cedrus atlantica glauca</i> .....	92
<i>Cedrus deodara</i> .....	92
<i>Cedrus</i> sp.....	92
<i>Celosia</i> sp.....	7
<i>Celtis</i> sp.....	137
<i>Centaurea cyanus</i> .....	20
<i>Centaurea montana</i> .....	20
<i>Centaurea</i> sp.....	21
<i>Cephalotaxus harringtonia</i> .....	40, 41
<i>Cephalotaxus harringtonia drupacea</i> .....	41

<i>Ceratostigma plumbaginoides</i> .....	96
<i>Cercis canadensis</i> .....	59
<i>Cercis siliquastrum</i> .....	59
<i>Cercis</i> sp. ....	59
<i>Cereus</i> sp. ....	36
<i>Chaenomeles</i> sp. ....	111
<i>Chaenomeles speciosa</i> .....	111
<i>Chamaecyparis lawsoniana</i> .....	48
<i>Chamaecyparis pisifera</i> .....	48
<i>Chamaecyparis</i> sp. ....	48
<i>Chamaecyparis thyoides</i> .....	48
<i>Chamaerops humilis</i> .....	16
<i>Chionanthus retusus</i> .....	87
<i>Chionanthus</i> sp. ....	87
<i>Chionanthus virginicus</i> .....	87
<i>Chlorophytum</i> sp. ....	18
<i>Chrysanthemum leucanthemum</i> .....	21
<i>Chrysanthemum nipponicum</i> .....	21
<i>Chrysanthemum</i> sp. ....	21
<i>Chrysanthemum</i> x <i>superbum</i> .....	21
<i>Chrysogonum</i> sp. ....	21
<i>Cimicifuga</i> sp. ....	110
<i>Cineraria</i> sp. ....	21
<i>Cissus rhombifolia</i> .....	139
<i>Citrullus lanatus</i> .....	45
<i>Citrus aurantifolia</i> .....	124
<i>Citrus limon</i> .....	124
<i>Citrus paradisi</i> .....	125
<i>Citrus paradisi</i> x <i>reticulata</i> .....	125
<i>Citrus reticulata</i> .....	125
<i>Citrus sinensis</i> .....	125
<i>Citrus</i> sp. ....	125
<i>Citrus</i> x <i>tangelo</i> .....	125
<i>Clematis armandii</i> .....	110
<i>Clematis</i> sp. ....	110
<i>Clematis terniflora</i> .....	110
<i>Clematis</i> x <i>jackmanii</i> .....	110
<i>Cleyera japonica</i> .....	136
<i>Cleyera</i> sp. ....	136
<i>Clivia</i> sp. ....	78
<i>Cocos</i> sp. ....	16
<i>Coleus blumei</i> .....	73
<i>Coleus</i> sp. ....	73
<i>Colocasia jensii</i> .....	12
<i>Colocasia</i> sp. ....	13
<i>Conradina canescens</i> .....	73
<i>Coprosma</i> sp. ....	123
<i>Coreopsis auriculata</i> .....	22
<i>Coreopsis grandiflora</i> .....	22
<i>Coreopsis</i> sp. ....	22
<i>Coreopsis verticillata</i> .....	22
<i>Coriandrum sativum</i> .....	7
<i>Cornus canadensis</i> .....	43
<i>Cornus controversa</i> .....	43
<i>Cornus florida</i> .....	43
<i>Cornus florida rubra</i> .....	43

<i>Coronopus didymus</i> .....	34
<i>Cortaderia</i> sp. ....	97
<i>Corynephorus</i> sp. ....	98
<i>Cosmos atrosanguineus</i> .....	22
<i>Cosmos</i> sp. ....	22
<i>Cotoneaster salicifolius</i> .....	111
<i>Cotoneaster</i> sp. ....	111
<i>Crataegus</i> sp. ....	111
<i>Crocoshmia</i> sp. ....	70
<i>Cryptomeria globosa</i> .....	48
<i>Cryptomeria japonica</i> .....	48
<i>Cryptomeria</i> sp. ....	48
<i>Cucumis melo</i> .....	46
<i>Cucumis sativus</i> .....	46
<i>Cucumis</i> sp. ....	47
<i>Cucurbita maxima</i> .....	47
<i>Cucurbita moschata</i> .....	47
<i>Cucurbita pepo</i> .....	47
<i>Cucurbita</i> sp. ....	47
<i>Cunninghamia</i> sp. ....	49
<i>Cupressus arizonica</i> .....	49
<i>Cupressus sempervirens</i> .....	49
<i>Cupressus</i> sp. ....	49
<i>Cycas revoluta</i> .....	52
<i>Cycas</i> sp. ....	52
<i>Cyclamen</i> sp. ....	108
<i>Cydonia oblonga</i> .....	112
<i>Cynara scolymus</i> .....	22
<i>Cynodon dactylon</i> .....	98
<i>Cyperus esculentus</i> .....	52
<i>Cyrtomium falcatum</i> .....	53
<i>Cyrtomium</i> sp. ....	53

## D

<i>Dahlia</i> sp. ....	22
<i>Daphne odora</i> .....	136
<i>Daphne</i> sp. ....	136
<i>Datura</i> sp. ....	131
<i>Daucus carota</i> .....	7
<i>Delosperma cooperi</i> .....	6
<i>Delosperma nubigenum</i> .....	6
<i>Delphinium</i> sp. ....	110
<i>Dendrobium</i> sp. ....	90
<i>Dianthus barbatus</i> .....	39
<i>Dianthus caryophyllus</i> .....	39
<i>Dianthus gratianopolitanus</i> .....	39
<i>Dianthus knappii</i> .....	39
<i>Dianthus</i> sp. ....	40
<i>Dicentra</i> sp. ....	67
<i>Dicentra spectabilis</i> .....	67
<i>Dichondra</i> sp. ....	42
<i>Dieffenbachia</i> sp. ....	13
<i>Digitalis purpurea</i> .....	129
<i>Digitalis</i> sp. ....	129
<i>Diospyros kaki</i> .....	53



<i>Diospyros</i> sp. ....	53
<i>Diospyros virginiana</i> .....	53
<i>Distylium myricoides</i> .....	69
<i>Doronicum orientale</i> .....	23
<i>Doronicum</i> sp.....	23
<i>Dryopteris erythrosora</i> .....	53
<i>Duchesnea indica</i> .....	112

## E

<i>Echinacea laevigata</i> .....	23
<i>Echinacea purpurea</i> .....	23
<i>Echinacea</i> sp. ....	23
<i>Echinopsis multiplex</i> .....	36
<i>Echinopsis</i> sp. ....	36
<i>Edgeworthia chrysantha</i> .....	137
<i>Elaeagnus</i> sp. ....	53
<i>Eleusine</i> sp. ....	98
<i>Episcia</i> sp. ....	69
<i>Equisetum</i> sp. ....	54
<i>Eragrostis curvula</i> .....	98
<i>Eragrostis</i> sp. ....	98
<i>Eremochloa ophiuroides</i> .....	99
<i>Eriobotrya japonica</i> .....	112
<i>Erysimum linfolium</i> .....	34
<i>Erysimum repandum</i> .....	34
<i>Erysimum</i> sp.....	34
<i>Escallonia</i> sp.....	69
<i>Eucalyptus pulverulenta</i> .....	86
<i>Eucalyptus</i> sp. ....	86
<i>Euonymus fortunei</i> .....	40
<i>Euonymus fortunei</i> var. <i>coloratus</i> .....	40
<i>Euonymus japonicus</i> var. <i>microphylla</i> .....	40
<i>Euonymus</i> sp. ....	40
<i>Eupatorium purpureum</i> .....	23
<i>Eupatorium</i> sp.....	23
<i>Euphorbia amygdaloides</i> .....	57
<i>Euphorbia pulcherrima</i> .....	58
<i>Euphorbia</i> sp.....	58
<i>Euphorbia</i> x <i>martini</i> .....	58
<i>Euryops chrysanthemoides</i> .....	23
<i>Euryops pectinatus</i> .....	23
<i>Euryops</i> sp. ....	24
<i>Eustoma</i> sp.....	68
<i>Exacum affine</i> .....	68
<i>Exacum</i> sp.....	68
<i>Exochorda</i> sp. ....	112

## F

<i>Fagus grandifolia</i> .....	64
<i>Fagus</i> sp. ....	64
<i>Farfugium japonicum</i> .....	24
<i>Fatsia japonica</i> .....	14
<i>Fatsia</i> sp.....	14
<i>Feijoa sellowiana</i> .....	86

<i>Feijoa</i> sp. ....	86
<i>Festuca arundinacea</i> .....	99
<i>Festuca ovina</i> .....	99
<i>Festuca rubra</i> .....	99
<i>Festuca</i> sp.....	99, 100
<i>Ficus benjamina</i> .....	85
<i>Ficus carica</i> .....	85
<i>Ficus elastica</i> .....	85
<i>Ficus pumila</i> .....	85
<i>Ficus</i> sp.....	85
<i>Forsythia</i> sp. ....	87
<i>Forsythia</i> x <i>intermedia</i> .....	87
<i>Fothergilla gardenii</i> .....	69
<i>Fothergilla</i> sp. ....	69
<i>Fragaria</i> x <i>ananassa</i> .....	112
<i>Franklinia</i> sp. ....	136
<i>Fraxinus pennsylvanica</i> .....	87
<i>Fraxinus</i> sp. ....	87
<i>Fuchsia</i> sp.....	89

## G

<i>Gaillardia</i> sp.....	24
<i>Gaillardia</i> x <i>grandiflora</i> .....	24
<i>Galium odoratum</i> .....	123
<i>Galium</i> sp. ....	124
<i>Gardenia jasminoides</i> .....	124
<i>Gardenia</i> sp. ....	124
<i>Gaura</i> sp. ....	89
<i>Gelsemium</i> sp. ....	81
<i>Geranium</i> sp. ....	68
<i>Gerbera</i> sp. ....	24
<i>Geum borisii</i> .....	113
<i>Geum</i> sp.....	113
<i>Ginkgo biloba</i> .....	69
<i>Gladiolus</i> sp. ....	70
<i>Gloxinia</i> sp. ....	69
<i>Glycine max</i> .....	59
<i>Gomphrena</i> sp. ....	7
<i>Gordonia lasianthus</i> .....	136
<i>Gossypium</i> sp.....	83
<i>Gynura aurantiaca</i> .....	24

## H

<i>Halesia carolina</i> .....	134
<i>Hedera canariensis</i> .....	14
<i>Hedera colchica</i> .....	14
<i>Hedera helix</i> .....	15
<i>Hedera</i> sp. ....	15
<i>Helianthus annuus</i> .....	24
<i>Helianthus</i> sp. ....	24
<i>Helianthus tuberosus</i> .....	24
<i>Heliopsis helianthoides</i> .....	24
<i>Helleborus orientalis</i> .....	110
<i>Helleborus</i> sp.....	110

<i>Hemerocallis</i> sp. ....	78
<i>Heuchera</i> sp. ....	127
<i>Hibiscus cannabinus</i> .....	83
<i>Hibiscus moscheutos</i> .....	84
<i>Hibiscus mutabilis</i> .....	84
<i>Hibiscus</i> sp. ....	84
<i>Hibiscus syriacus</i> .....	84
<i>Hordeum</i> sp. ....	100
<i>Hosta albomarginata</i> .....	79
<i>Hosta fortunei</i> .....	79
<i>Hosta sieboldiana</i> .....	79
<i>Hosta</i> sp. ....	79
<i>Hoya</i> sp. ....	17
<i>Hydrangea arborescens</i> .....	127
<i>Hydrangea hortensis</i> .....	127
<i>Hydrangea macrophylla</i> .....	127
<i>Hydrangea quercifolia</i> .....	127
<i>Hydrangea</i> sp. ....	128
<i>Hypericum androsaemum</i> .....	41
<i>Hypericum ascyron</i> .....	41
<i>Hypericum calycinum</i> .....	41
<i>Hypericum perforatum</i> .....	41
<i>Hypericum</i> sp. ....	41

## I

<i>Iberis sempervirens</i> .....	34
<i>Iberis</i> sp. ....	34
<i>Ilex aquifolium</i> .....	9
<i>Ilex cornuta</i> .....	10
<i>Ilex crenata</i> .....	10
<i>Ilex glabra</i> .....	10
<i>Ilex latifolia</i> .....	11
<i>Ilex opaca</i> .....	11
<i>Ilex</i> sp. ....	11
<i>Ilex vomitoria</i> .....	11
<i>Ilex</i> x <i>attenuata</i> .....	9, 10
<i>Ilex</i> x <i>attenuata fosteri</i> .....	10
<i>Ilex</i> x <i>Emily Bruner</i> .....	10
<i>Ilex</i> x <i>meserveae</i> .....	11
<i>Ilex</i> x <i>Nellie R. Stevens</i> .....	11
<i>Illicium floridanum</i> .....	70
<i>Illicium henryi</i> .....	70
<i>Illicium</i> sp. ....	70
<i>Impatiens</i> sp. ....	28
<i>Impatiens walleriana</i> .....	27
<i>Impatiens</i> x <i>hawkeri</i> .....	27
<i>Ipomoea batatas</i> .....	42
<i>Ipomoea</i> sp. ....	42
<i>Iris cristata</i> .....	71
<i>Iris sibirica</i> .....	71
<i>Iris</i> sp. ....	71
<i>Iris</i> x <i>germanica</i> .....	71
<i>Itea</i> sp. ....	128
<i>Itea virginica</i> .....	128

## J

<i>Jasminum floridum</i> .....	87
<i>Jasminum</i> sp. ....	87
<i>Juglans nigra</i> .....	72
<i>Juglans regia</i> .....	72
<i>Juglans</i> sp. ....	72
<i>Juniperus chinensis</i> .....	49, 50
<i>Juniperus chinensis</i> var. <i>pfitzeriana</i> .....	50
<i>Juniperus communis</i> .....	50
<i>Juniperus conferta</i> .....	50
<i>Juniperus davurica</i> .....	50
<i>Juniperus horizontalis</i> .....	50
<i>Juniperus procumbens</i> .....	50
<i>Juniperus scopulorum</i> .....	50
<i>Juniperus</i> sp. ....	51
<i>Juniperus squamata</i> .....	50
<i>Juniperus stricta</i> .....	50
<i>Juniperus virginiana</i> .....	51
<i>Juniperus virginiana</i> var. <i>silicicola</i> .....	51
<i>Justicia brandegeana</i> .....	4
<i>Justicia</i> sp. ....	4

## K

<i>Kalmia latifolia</i> .....	54
<i>Kerria japonica</i> .....	113
<i>Kniphofia</i> sp. ....	79
<i>Koeleria paniculata</i> .....	126
<i>Kohleria</i> sp. ....	69

## L

<i>Laburnum</i> sp. ....	60
<i>Lagerstroemia indica</i> .....	81
<i>Lamiastrum</i> sp. ....	73
<i>Lamium amplexicaule</i> .....	73
<i>Lamium maculatum</i> .....	73
<i>Lamium</i> sp. ....	73
<i>Lantana camara</i> .....	138
<i>Lantana</i> sp. ....	138
<i>Lathyrus hirsutus</i> .....	60
<i>Laurentia fluviatilis</i> .....	37
<i>Laurus nobilis</i> .....	77
<i>Lavandula angustifolia</i> .....	73
<i>Lavandula</i> sp. ....	73
<i>Lavatera</i> sp. ....	84
<i>Lepidium</i> sp. ....	34
<i>Lespedeza</i> sp. ....	60
<i>Leucanthemum</i> sp. ....	25
<i>Leucothoe axillaris</i> .....	54
<i>Leucothoe fontanesiana</i> .....	54
<i>Leucothoe populifolia</i> .....	54
<i>Leucothoe</i> sp. ....	54
<i>Lewisia longipetala</i> .....	108
<i>Liatris</i> sp. ....	25

<i>Liatris spicata</i> .....	25
<i>Ligularia</i> sp.....	25
<i>Ligustrum japonicum</i> .....	87
<i>Ligustrum lucidum</i> .....	88
<i>Ligustrum sinense</i> .....	88
<i>Ligustrum</i> sp. ....	88
<i>Ligustrum texanum</i> .....	88
<i>Lilium asiaticum</i> .....	79
<i>Lilium longiflorum</i> .....	79
<i>Lilium</i> sp. ....	79
<i>Limonium</i> sp.....	96
<i>Lindera melissifolia</i> .....	77
<i>Lindera</i> sp. ....	77
<i>Linum</i> sp.....	80
<i>Liquidambar styraciflua</i> .....	69
<i>Liriodendron tulipifera</i> .....	81
<i>Liriope muscari</i> .....	18
<i>Liriope</i> sp. ....	18
<i>Lithodora diffusa</i> .....	30
<i>Lithodora</i> sp.....	30
<i>Livistona chinensis</i> .....	16
<i>Lobelia cardinalis</i> .....	37
<i>Lobelia</i> sp.....	37
<i>Lobularia</i> sp.....	34
<i>Lolium multiflorum</i> .....	100
<i>Lolium perenne</i> .....	100
<i>Lolium</i> sp. ....	100
<i>Lonicera japonica</i> .....	38
<i>Lonicera sempervirens</i> .....	38
<i>Lonicera</i> sp. ....	38
<i>Loropetalum chinense</i> .....	70
<i>Loropetalum</i> sp.....	70
<i>Luffa</i> sp. ....	48
<i>Lupinus</i> sp.....	60
<i>Lycium barbarum</i> .....	131
<i>Lycopersicon lycopersicum</i> .....	131
<i>Lysimachia numularia</i> .....	109

## M

<i>Macbridea alba</i> .....	74
<i>Macbridea caroliniana</i> .....	74
<i>Magnolia grandiflora</i> .....	81
<i>Magnolia macrophylla</i> .....	81
<i>Magnolia sieboldii</i> .....	81
<i>Magnolia</i> sp.....	82
<i>Magnolia stellata</i> .....	82
<i>Magnolia virginiana</i> .....	82
<i>Magnolia x soulangiana</i> .....	81
<i>Mahonia bealei</i> .....	29
<i>Mahonia fortunei</i> .....	29
<i>Mahonia</i> sp. ....	29
<i>Malus</i> sp.....	113
<i>Malus sylvestris pumila</i> .....	113
<i>Mandevilla laxa</i> .....	8
<i>Mandevilla</i> sp.....	8

<i>Marshallia grandiflora</i> .....	25
<i>Matthiola</i> sp.....	35
<i>Mazus reptans</i> .....	129
<i>Mazus</i> sp. ....	129
<i>Medicago sativa</i> .....	60
<i>Medicago truncatula</i> .....	61
<i>Melampodium</i> sp. ....	25
<i>Mentha pulegium</i> .....	74
<i>Mentha</i> sp. ....	74
<i>Mentha spicata</i> .....	74
<i>Mentha x piperita</i> .....	74
<i>Mesembryanthemum</i> sp.....	6
<i>Michelia figo</i> .....	82
<i>Microstegium vimineum</i> .....	101
<i>Miscanthus</i> sp. ....	101
<i>Monarda didyma</i> .....	74
<i>Monarda</i> sp.....	74
<i>Monstera deliciosa</i> .....	13
<i>Morus</i> sp. ....	85
<i>Muhlenbergia</i> sp.....	101
<i>Musa balbisiana</i> .....	85
<i>Myosotis scorpioides</i> .....	30
<i>Myosotis</i> sp.....	30
<i>Myrica cerifera</i> .....	85
<i>Myrica</i> sp. ....	86

## N

<i>Nandina domestica</i> .....	29
<i>Nandina</i> sp.....	29
<i>Narcissus</i> sp.....	80
<i>Nemesia</i> sp.....	129
<i>Nepeta cataria</i> .....	74
<i>Nepeta</i> sp. ....	74
<i>Nephrolepis exaltata</i> .....	53
<i>Nephrolepis</i> sp.....	53
<i>Nerium</i> sp. ....	8
<i>Nicotiana</i> sp.....	132
<i>Nymphaea odorata</i> .....	87
<i>Nyssa sylvatica</i> .....	44

## O

<i>Ocimum basilicum</i> .....	74
<i>Ocimum</i> sp.....	75
<i>Oenothera biennis</i> .....	89
<i>Oenothera</i> sp. ....	89
<i>Olea europea</i> .....	88
<i>Oncidium pubes</i> .....	90
<i>Oncidium</i> sp.....	90
<i>Ophiopogon japonicus</i> .....	18
<i>Ophiopogon</i> sp. ....	19
<i>Opuntia</i> sp. ....	36
<i>Origanum majorana</i> .....	75
<i>Origanum</i> sp.....	75
<i>Oryza sativa</i> .....	101

<i>Oryza</i> sp.....	101
<i>Osmanthus fragrans</i> .....	88
<i>Osmanthus heterophyllus</i> .....	89
<i>Osmanthus</i> sp.....	89
<i>Osmanthus x fortunei</i> .....	88
<i>Osmunda regalis</i> .....	90
<i>Osteospermum</i> sp.....	25
<i>Oxalis braziliensis</i> .....	90
<i>Oxalis regnellii</i> .....	91
<i>Oxalis</i> sp.....	91

**P**

<i>Pachysandra</i> sp.....	36
<i>Pachysandra terminalis</i> .....	36
<i>Paeonia lactiflora</i> .....	91
<i>Paeonia</i> sp.....	91
<i>Paeonia suffruticosa</i> .....	91
<i>Panax</i> sp.....	15
<i>Panicum dichotomiflorum</i> .....	101
<i>Panicum miliaceum</i> .....	101
<i>Panicum ramosum</i> .....	101
<i>Panicum</i> sp.....	101
<i>Papaver</i> sp.....	91
<i>Parthenocissus quinquefolia</i> .....	139
<i>Parthenocissus tricuspidata</i> .....	139
<i>Paspalum dilatatum</i> .....	102
<i>Paspalum notatum</i> .....	102
<i>Paspalum vaginatum</i> .....	102
<i>Paulownia elongata</i> .....	129
<i>Pelargonium peltatum</i> .....	68
<i>Pelargonium</i> sp.....	68
<i>Pelargonium x hortorum</i> .....	68
<i>Pennisetum glaucum</i> .....	102
<i>Pennisetum setaceum</i> .....	102
<i>Pennisetum</i> sp.....	102
<i>Penstemon</i> sp.....	129
<i>Pentas</i> sp.....	124
<i>Peperomia</i> sp.....	94
<i>Perovskia atriplicifolia</i> .....	75
<i>Perovskia</i> sp.....	75
<i>Persea borbonia</i> .....	77
<i>Persea</i> sp.....	77
<i>Petroselinum crispum</i> .....	7
<i>Phalaenopsis</i> sp.....	90
<i>Phalaris arundinacea</i> .....	102
<i>Phalaris</i> sp.....	102
<i>Phaseolus acutifolius</i> .....	61
<i>Phaseolus lunatus</i> .....	61
<i>Phaseolus</i> sp.....	62
<i>Phaseolus vulgaris</i> .....	61
<i>Philodendron</i> sp.....	13
<i>Phlox divaricata</i> .....	107
<i>Phlox paniculata</i> .....	107
<i>Phlox pilosa</i> .....	107
<i>Phlox</i> sp.....	108

<i>Phlox subulata</i> .....	107
<i>Phoenix canariensis</i> .....	16
<i>Photinia serrulata</i> .....	114
<i>Photinia</i> sp.....	114
<i>Photinia x fraseri</i> .....	114
<i>Phygelius</i> sp.....	130
<i>Phyla nodiflora</i> .....	138
<i>Phyllitis scolopendrium</i> .....	19
<i>Physocarpus</i> sp.....	115
<i>Physostegia</i> sp.....	75
<i>Picea abies</i> .....	92
<i>Picea glauca conica</i> .....	92
<i>Picea glauca</i> var. <i>albertiana</i> .....	92
<i>Picea pungens</i> .....	92
<i>Picea</i> sp.....	92
<i>Pieris japonica</i> .....	54
<i>Pieris</i> sp.....	55
<i>Pieris taiwanensis</i> .....	55
<i>Pinckneya</i> sp.....	124
<i>Pinus bungeana</i> .....	92
<i>Pinus elliotii</i> .....	93
<i>Pinus flexilis</i> .....	92
<i>Pinus mugo</i> .....	93
<i>Pinus nigra</i> .....	93
<i>Pinus palustris</i> .....	93
<i>Pinus pungens</i> .....	93
<i>Pinus</i> sp.....	94
<i>Pinus strobus</i> .....	93
<i>Pinus sylvestris</i> .....	93
<i>Pinus taeda</i> .....	93
<i>Pinus thunbergiana</i> .....	93
<i>Pinus virginiana</i> .....	94
<i>Pistacia chinensis</i> .....	7
<i>Pisum sativum</i> .....	62
<i>Pisum</i> sp.....	62
<i>Pittosporum</i> sp.....	94, 95
<i>Pittosporum tobira</i> .....	94
<i>Platanus occidentalis</i> .....	95
<i>Platanus</i> sp.....	95
<i>Platanus x acerifolia</i> .....	95
<i>Platycerium</i> sp.....	108
<i>Platycodon grandiflorus</i> .....	37
<i>Platycodon</i> sp.....	37
<i>Plectranthus</i> sp.....	75
<i>Plumeria</i> sp.....	8
<i>Poa annua</i> .....	102
<i>Poa pratensis</i> .....	102
<i>Poa</i> sp.....	102
<i>Poa trivialis</i> .....	102
<i>Podocarpus macrophyllus</i> .....	107
<i>Podocarpus</i> sp.....	107
<i>Podophyllum peltatum</i> .....	29
<i>Polygonatum</i> sp.....	19
<i>Polygonum bistorta</i> .....	108
<i>Polygonum orientale</i> .....	108
<i>Polygonum</i> sp.....	108
<i>Polyscias fruticosa</i> .....	15

<i>Populus deltooides</i> .....	125
<i>Populus nigra</i> .....	125
<i>Populus sp.</i> .....	125
<i>Portulaca sp.</i> .....	108
<i>Potentilla sp.</i> .....	115
<i>Pothos sp.</i> .....	13
<i>Protea sp.</i> .....	109
<i>Prunus armeniaca</i> .....	115
<i>Prunus avium</i> .....	115
<i>Prunus caroliniana</i> .....	115
<i>Prunus cerasifera</i> .....	115
<i>Prunus cerasus</i> .....	115
<i>Prunus insititia</i> .....	115
<i>Prunus japonica</i> .....	115
<i>Prunus laurocerasus</i> .....	115
<i>Prunus persica</i> .....	116
<i>Prunus serotina</i> .....	117
<i>Prunus serrulata</i> .....	117
<i>Prunus sp.</i> .....	117, 118
<i>Prunus subhirtella</i> .....	117
<i>Prunus tomentosa</i> .....	117
<i>Prunus virginiana</i> .....	117
<i>Prunus x incam</i> .....	115
<i>Prunus x snofozam</i> .....	117
<i>Prunus yedoensis</i> .....	117
<i>Pueraria montana var. lobata</i> .....	63
<i>Pulmonaria sp.</i> .....	30
<i>Punica granatum</i> .....	109
<i>Pyracantha coccinea</i> .....	119
<i>Pyracantha sp.</i> .....	119
<i>Pyrus calleryana</i> .....	119
<i>Pyrus communis</i> .....	119
<i>Pyrus pyrifolia</i> .....	119
<i>Pyrus serotina</i> .....	119
<i>Pyrus sp.</i> .....	120

## Q

<i>Quercus acuta</i> .....	64
<i>Quercus acutissima</i> .....	64
<i>Quercus alba</i> .....	64
<i>Quercus coccinea</i> .....	64
<i>Quercus falcata</i> .....	65
<i>Quercus hemisphaerica</i> .....	65
<i>Quercus laevis</i> .....	65
<i>Quercus laurifolia</i> .....	65
<i>Quercus lyrata</i> .....	65
<i>Quercus macrocarpa</i> .....	65
<i>Quercus marilandica</i> .....	65
<i>Quercus nigra</i> .....	65
<i>Quercus nuttalli</i> .....	65
<i>Quercus palustris</i> .....	65
<i>Quercus phellos</i> .....	66
<i>Quercus robur</i> .....	66
<i>Quercus rubra</i> .....	66
<i>Quercus shumardii</i> .....	66

<i>Quercus sp.</i> .....	67
<i>Quercus stellata</i> .....	66
<i>Quercus velutina</i> .....	66
<i>Quercus virginiana</i> .....	66

## R

<i>Rhaphiolepis indica</i> .....	120
<i>Rhaphiolepis sp.</i> .....	120
<i>Rhaphiolepis umbellata</i> .....	120
<i>Rhapidophyllum hystrix</i> .....	16
<i>Rhapidophyllum sp.</i> .....	16
<i>Rheum sp.</i> .....	108
<i>Rhodea japonica</i> .....	19
<i>Rhododendron carolinianum</i> .....	55
<i>Rhododendron catawbiense</i> .....	55
<i>Rhododendron indicum</i> .....	55
<i>Rhododendron maximum</i> .....	55
<i>Rhododendron schlippenbachii</i> .....	55
<i>Rhododendron simsii formosa</i> .....	55
<i>Rhododendron sp.</i> .....	55, 56
<i>Rhododendron x aromi</i> .....	55
<i>Rhododendron x obtusum 'Hinodegiri'</i> .....	55
<i>Rhus michauxii</i> .....	7
<i>Ribes nigrum</i> .....	128
<i>Ribes sp.</i> .....	128
<i>Rosa banksiae</i> .....	121
<i>Rosa floribunda</i> .....	121
<i>Rosa laevigata</i> .....	121
<i>Rosa odorata</i> .....	121
<i>Rosa sp.</i> .....	121
<i>Rosmarinus officinalis</i> .....	75
<i>Rosmarinus sp.</i> .....	75
<i>Rubus allegheniensis</i> .....	122
<i>Rubus calycinoides</i> .....	122
<i>Rubus idaeus</i> .....	122
<i>Rubus occidentalis</i> .....	122
<i>Rubus sp.</i> .....	122, 123
<i>Rudbeckia hirta</i> .....	25
<i>Rudbeckia sp.</i> .....	25
<i>Ruellia brittoniana</i> .....	4
<i>Rumex sp.</i> .....	108
<i>Rumohra adiantiformis</i> .....	108
<i>Ruta sp.</i> .....	125

## S

<i>Sabal palmetto</i> .....	16
<i>Sabal sp.</i> .....	17
<i>Sagina subulata</i> .....	40
<i>Saintpaulia sp.</i> .....	69
<i>Salix babylonica</i> .....	126
<i>Salix discolor</i> .....	126
<i>Salix matsudana</i> .....	126
<i>Salix pentandra</i> .....	126
<i>Salix sepulcralis</i> .....	126

<i>Salix</i> sp.....	126
<i>Salvia elegans</i> .....	75
<i>Salvia farinacea</i> .....	76
<i>Salvia nemorosa</i> .....	76
<i>Salvia officinalis</i> .....	76
<i>Salvia purpurea</i> .....	76
<i>Salvia</i> sp.....	76
<i>Salvia splendens</i> .....	76
<i>Salvia viridis</i> .....	76
<i>Salvia x superba</i> .....	76
<i>Sansevieria</i> sp.....	19
<i>Sansevieria trifasciata</i> .....	19
<i>Santolina</i> sp.....	26
<i>Santolina virens</i> .....	26
<i>Sassafras</i> sp.....	77
<i>Saxifraga</i> sp.....	128
<i>Scabiosa columbaria</i> .....	52
<i>Scabiosa</i> sp.....	52
<i>Schefflera</i> sp.....	15
<i>Schlumbergera bridgesii</i> .....	36
<i>Schlumbergera truncata</i> .....	36
<i>Secale cereale</i> .....	103
<i>Secale</i> sp.....	103
<i>Sedum rupestre</i> ‘Angelina’.....	45
<i>Sedum sieboldii</i> .....	45
<i>Sedum</i> sp.....	45
<i>Sedum spectabile</i> .....	45
<i>Sedum spurium</i> .....	45
<i>Sempervivum</i> sp.....	45
<i>Senecio cineraria</i> .....	26
<i>Senecio x hybridus</i> .....	26
<i>Sequoia sempervirens</i> .....	51
<i>Serenoa repens</i> .....	17
<i>Sesamum indicum</i> .....	91
<i>Shortia galacifolia</i> .....	52
<i>Sidalcea</i> sp.....	84
<i>Silene</i> sp.....	40
<i>Skimmia x foremanii</i> .....	125
<i>Solanum tuberosum</i> .....	133
<i>Solenostemon scutellarioides</i> .....	76
<i>Solidago rugosa</i> .....	26
<i>Solidago</i> sp.....	26
<i>Sorbus americana</i> .....	89
<i>Sorghum bicolor</i> .....	103
<i>Sorghum halepense</i> .....	103
<i>Sorghum</i> sp.....	103
<i>Sorghum sudanense</i> .....	103
<i>Spathiphyllum</i> sp.....	13
<i>Spinacia oleracea</i> .....	41
<i>Spiraea japonica</i> .....	123
<i>Spiraea</i> sp.....	123
<i>Spiraea x bumalda</i> .....	123
<i>Stachys</i> sp.....	76
<i>Stenotaphrum secundatum</i> .....	104
<i>Stewartia pseudocamellia</i> .....	136
<i>Stipa tenuifolia</i> .....	104

<i>Stokesia laevis</i> .....	26
<i>Stokesia</i> sp.....	26
<i>Symplocos</i> sp.....	134
<i>Syngonium podophyllum</i> .....	13
<i>Syngonium</i> sp.....	13
<i>Syringa</i> sp.....	89
<i>Syringa vulgaris</i> .....	89

## T

<i>Tagetes erecta</i> .....	26
<i>Tagetes patula</i> .....	26
<i>Tagetes</i> sp.....	26
<i>Taxodium distichum</i> .....	51
<i>Taxus brevifolia</i> .....	134
<i>Taxus cuspidata</i> .....	134
<i>Taxus</i> sp.....	134
<i>Taxus x media</i> .....	134
<i>Ternstroemia gymnanthera</i> .....	136
<i>Tetrapanax papyrifer</i> .....	15
<i>Teucrium chamaedrys</i> .....	77
<i>Thalictrum speciosissimum</i> .....	110
<i>Thuja occidentalis</i> .....	51
<i>Thuja plicata</i> .....	51
<i>Thuja</i> sp.....	52
<i>Thuja standishii x plicata</i> ‘Green Giant’.....	52
<i>Thunbergia</i> sp.....	4
<i>Thymus</i> sp.....	77
<i>Tiarella</i> sp.....	128
<i>Tibouchina</i> sp.....	84
<i>Tithonia</i> sp.....	27
<i>Torenia</i> sp.....	130
<i>Trachelospermum asiaticum</i> .....	8
<i>Trachelospermum jasminoides</i> .....	8
<i>Trachycarpus fortunei</i> .....	17
<i>Tradescantia pallida</i> .....	42
<i>Tradescantia</i> sp.....	42
<i>Trichostema dichotomum</i> .....	77
<i>Tricyrtis hirta</i> .....	19
<i>Tricyrtis</i> sp.....	19
<i>Trifolium incarnatum</i> .....	63
<i>Trifolium repens</i> .....	63
<i>Trifolium</i> sp.....	63
<i>Trifolium subterraneum</i> .....	63
<i>Trifolium vesiculosum</i> .....	63
<i>Trillium</i> sp.....	80
<i>Triticum</i> sp.....	104
<i>Trollius ledebourii</i> .....	111
<i>Tsuga canadensis</i> .....	94
<i>Tsuga</i> sp.....	94
<i>Tulbaghia violacea</i> .....	80
<i>Tulipa retroflexa</i> .....	80
<i>Tulipa</i> sp.....	80
<i>Typha latifolia</i> .....	137

**U**

<i>Ulmus alata</i> .....	137
<i>Ulmus americana</i> .....	137
<i>Ulmus</i> sp. ....	137

**V**

<i>Vaccinium arboreum</i> .....	56
<i>Vaccinium ashei</i> .....	57
<i>Vaccinium augustifolium</i> .....	57
<i>Vaccinium corymbosum</i> .....	57
<i>Vaccinium crassifolium</i> .....	57
<i>Vaccinium</i> sp.....	57
<i>Vanda</i> sp. ....	90
<i>Veratrum californicum</i> .....	80
<i>Verbena canadensis</i> .....	138
<i>Verbena</i> sp. ....	138
<i>Veronica longifolia</i> .....	130
<i>Veronica</i> sp. ....	130
<i>Veronica spicata</i> .....	130
<i>Viburnum chindo</i> .....	38
<i>Viburnum davidii</i> .....	38
<i>Viburnum japonica</i> .....	38
<i>Viburnum macrocephalum</i> .....	38
<i>Viburnum obovatum</i> .....	38
<i>Viburnum odoratissimum</i> .....	38
<i>Viburnum odoratissimum</i> var. <i>awabuki</i> .....	38
<i>Viburnum opulus</i> .....	38
<i>Viburnum</i> sp.....	39
<i>Viburnum suspensum</i> .....	39
<i>Viburnum tinus</i> .....	39
<i>Vigna</i> sp. ....	64
<i>Vigna unguiculata</i> .....	63
<i>Vinca major</i> .....	9
<i>Vinca minor</i> .....	9
<i>Vinca</i> sp .....	9
<i>Viola cornuta</i> .....	139
<i>Viola</i> sp. ....	139
<i>Viola wittrockiana</i> .....	139

<i>Vitex</i> sp. ....	138
<i>Vitis aestivalis</i> var. <i>bourquiniana</i> .....	139
<i>Vitis labrusca</i> .....	139
<i>Vitis rotundifolia</i> .....	140
<i>Vitis</i> sp. ....	140
<i>Vitis vinifera</i> .....	140

**W**

<i>Washingtonia</i> sp. ....	17
<i>Weigela</i> sp. ....	39
<i>Wisteria</i> sp. ....	64

**X**

x <i>Cupressocyparis leylandii</i> .....	49
x <i>Fatsyhedera lizei</i> .....	14
x <i>Fatsyhedera</i> sp. ....	14
x <i>Triticosecale</i> sp.....	105
<i>Xanthium</i> sp. ....	27

**Y**

<i>Yucca aloifolia</i> .....	19
<i>Yucca recurvifolia</i> .....	19
<i>Yucca</i> sp.....	19

**Z**

<i>Zantedeschia</i> sp. ....	13
<i>Zea mays</i> .....	105
<i>Zelkova serrata</i> .....	137
<i>Zelkova</i> sp. ....	137
<i>Zingiber</i> sp.....	141
<i>Zinnia angustifolia</i> .....	27
<i>Zinnia elegans</i> .....	27
<i>Zinnia</i> sp. ....	27
<i>Zoysia japonica</i> .....	106
<i>Zoysia japonica</i> x <i>Z. tenuifolia</i> .....	106
<i>Zoysia</i> 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
Centipede grass.....	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

Quince.....	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	Southern Pea .....	64
Sage .....	76	Southern Red Cedar .....	51
Sage-leaved Butterfly Bush .....	80	Southern Red Oak .....	65
Sago Palm .....	52	Southern Spicebush .....	77
Salvia .....	76	Soybean .....	59
Sandankwa Viburnum .....	39	Sparkleberry .....	56
Santolina .....	26	Spathe Flower .....	13
Sasanqua .....	135	Spearmint .....	74
Sassafras .....	77	Speedwell .....	130
Satsuma .....	125	Spicebush .....	77
Saucer Magnolia .....	81	Spinach .....	41
Savannah Holly .....	9	Spirea .....	123
Saw Palmetto .....	17	Split-Leaf Philodendron .....	13
Sawara Falsecypress .....	48	Spotted Dead Nettle .....	73
Sawtooth Oak .....	64	Spruce .....	92
Saxifraga .....	128	Spurge .....	36, 58
Scarlet Firethorn .....	119	Spurred Anoda .....	83
Scarlet Oak .....	64	Squash .....	47
Scarlet Sage .....	76	St. Augustinegrass .....	104
Schefflera .....	14, 15	St. John's Wort .....	41
Scotch Pine .....	93	Staghorn Fern .....	108
Sea Thrift .....	95	Star Magnolia .....	82
Seashore Paspalum .....	102	Statice .....	96
Sedge .....	52	Stock .....	35
Sedum .....	45	Stonecrop .....	45
Seersucker Plantain Lily .....	79	Strawberry .....	112, 113
Senna .....	59	Strawberry Tree .....	54
Serviceberry .....	111	Subterranean Clover .....	63
Sesame .....	91	Sudan Grass .....	103
Shamrock .....	90	Sugar Maple .....	4, 5
Shasta Daisy .....	21	Sumac .....	7
Shell Ginger .....	141	Sunflower .....	24
Shore Juniper .....	50	Swamp Milkweed .....	17
Showy Jasmine .....	87	Swedish Ivy .....	75
Shrimp Plant .....	4	Swedish Turnip .....	31
Siberian Iris .....	71	Sweet Autumn Clematis .....	110
Silver Maple .....	5	Sweet Basil .....	74
Skimmia .....	125	Sweet Bay .....	77
Skip Laurel .....	115	Sweet Bay Magnolia .....	82
Skyrocket Juniper .....	50	Sweet Cherry .....	115
Slash Pine .....	93	Sweet Flag .....	12
Slipperwort .....	129	Sweet Marjoram .....	75
Small-leaf Arrowhead .....	38	Sweet Orange .....	125
Snake Plant .....	19	Sweet Pepper .....	130
Snakeweed .....	108	Sweet Potato .....	42
Snapdragon .....	128	Sweet Shrub .....	36
Snowball Bush .....	38	Sweet Viburnum .....	38
Society Garlic .....	80	Sweet William .....	39
Sorghum .....	103	Sweet Woodruff .....	123
Sour Cherry .....	115	Sweetgum .....	69
Sourwood .....	54	Swinecress .....	34
Southern Curled Mustard .....	31	Swiss Chard .....	41
Southern Indica Azalea .....	55	Sword Fern .....	53
Southern Magnolia .....	81	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

<b>A</b>		<b>D</b>	
Acanthaceae.....	4	Diapensiaceae.....	52
Aceraceae.....	4	Dipsacaceae.....	52
Actinidiaceae.....	6	Dryopteridaceae.....	53
Aizoaceae.....	6		
Amaranthaceae.....	6	<b>E</b>	
Anacardiaceae.....	7	Ebenaceae.....	53
Apiaceae.....	7	Elaeagnaceae.....	53
Apocynaceae.....	7	Equisetaceae.....	54
Aquifoliaceae.....	9	Ericaceae.....	54
Araceae.....	12	Euphorbiaceae.....	57
Araliaceae.....	14		
Araucariaceae.....	15	<b>F</b>	
Arecaceae.....	16	Fabaceae.....	58
Aristolochiaceae.....	17	Fagaceae.....	64
Asclepiadaceae.....	17	Fumariaceae.....	67
Asparagaceae.....	17		
Aspleniaceae.....	19	<b>G</b>	
Asteraceae.....	20	Gentianaceae.....	68
		Geraniaceae.....	68
<b>B</b>		Gesneriaceae.....	68
Balsaminaceae.....	27	Ginkgoaceae.....	69
Begoniaceae.....	28	Grossulariaceae.....	69
Berberidaceae.....	28		
Betulaceae.....	29	<b>H</b>	
Bignoniaceae.....	29	Hamamelidaceae.....	69
Boraginaceae.....	30		
Brassicaceae.....	30	<b>I</b>	
Buxaceae.....	35	Illiciaceae.....	70
		Iridaceae.....	70
<b>C</b>			
Cactaceae.....	36	<b>J</b>	
Calycanthaceae.....	36	Juglandaceae.....	71
Campanulaceae.....	37		
Cannaceae.....	37	<b>L</b>	
Caprifoliaceae.....	38	Lamiaceae.....	72
Caryophyllaceae.....	39	Lauraceae.....	77
Celastraceae.....	40	Liliaceae.....	77
Cephalotaxaceae.....	40	Linaceae.....	80
Chenopodiaceae.....	41	Loganiaceae.....	80
Clusiaceae.....	41	Lythraceae.....	81
Commelinaceae.....	42		
Convolvulaceae.....	42		
Cornaceae.....	42		
Crassulaceae.....	44		
Cucurbitaceae.....	45		
Cupressaceae.....	48		
Cycadaceae.....	52		
Cyperaceae.....	52		

<b>M</b>	
Magnoliaceae .....	81
Malvaceae .....	82
Marantaceae .....	84
Melastomataceae .....	84
Moraceae .....	85
Musaceae .....	85
Myricaceae .....	85
Myrsinaceae .....	86
Myrtaceae .....	86

<b>N</b>	
Nyctaginaceae .....	86
Nymphaeaceae .....	87

<b>O</b>	
Oleaceae .....	87
Onagraceae .....	89
Orchidaceae .....	90
Osmundaceae .....	90
Oxalidaceae .....	90

<b>P</b>	
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

<b>R</b>	
Ranunculaceae .....	109
Rosaceae .....	111
Rubiaceae .....	123
Rutaceae .....	124

<b>S</b>	
Salicaceae .....	125
Sapindaceae .....	126
Saxifragaceae .....	127
Scrophulariaceae .....	128
Solanaceae .....	130
Styracaceae .....	134
Symplocaceae .....	134

<b>T</b>	
Taxaceae .....	134
Theaceae .....	134
Thymelaeaceae .....	136
Typhaceae .....	137

<b>U</b>	
Ulmaceae .....	137

<b>V</b>	
Verbenaceae .....	137
Violaceae .....	139
Vitaceae .....	139

<b>Z</b>	
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  
 Alternaria 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  
 Botryodiplodia 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
Cytospora 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  
Stigmata 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 - I.....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

<i>Acidovorax (Pseudomonas) facilis</i> .....	133
<i>Acidovorax avenae</i> .....	37, 45, 90, 96
<i>Acidovorax avenae</i> subsp. <i>cattleyae</i> .....	90
<i>Acidovorax avenae</i> subsp. <i>citrulli</i> .....	45
<i>Acidovorax konjaci</i> .....	9
<i>Acidovorax</i> sp. ....	30
<i>Agrobacterium radiobacter</i> .....	131
<i>Agrobacterium</i> sp.....	6, 25, 49, 51, 55, 58, 62, 71, 87, 113, 114, 116, 118, 121, 122, 123, 126, 136, 140
<i>Agrobacterium tumefaciens</i> .....	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

<i>Burkholderia andropogonis</i> .....	40
<i>Burkholderia cepacia</i> .....	18

### C

<i>Candidatus Liberibacter asiaticus</i> .....	124, 125
<i>Clavibacter michiganensis</i> .....	131
<i>Corynebacterium ilicis</i> .....	11
<i>Corynebacterium</i> sp.....	58

### E

<i>Enterobacter nimipressuralis</i> .....	43
<i>Enterobacter</i> sp.....	68
<i>Erwinia amylovora</i> .....	112, 113, 114, 119, 120
<i>Erwinia carotovora</i> .....	13, 21, 25, 32, 33, 45, 46, 58, 71, 79, 105, 131, 132, 133
<i>Erwinia chrysanthemi</i> .....	13, 21, 58, 71, 90, 105, 131
<i>Erwinia herbicola</i> .....	131
<i>Erwinia</i> sp.....	12, 13, 19, 21, 32, 33, 36, 42, 47, 58, 71, 78, 79, 111, 112, 113, 114, 119, 120
<i>Erwinia tracheiphila</i> .....	45, 46

### P

<i>Pectobacterium (Erwinia) chrysanthemi</i> .....	25
<i>Pectobacterium carotovorum carotovorum</i> .....	18
<i>Pectobacterium carotovorum</i> ssp. <i>carotovorum</i> ..	13
<i>Pectobacterium chrysanthemi</i> .....	22, 23, 45, 131
<i>Pseudomona syringae</i> pv. <i>syringae</i> .....	80
<i>Pseudomonas aeruginosa</i> .....	34

<i>Pseudomonas cichorii</i> .....	21, 22, 34, 76, 84, 110, 111, 129, 138
<i>Pseudomonas coronafaciens</i> .....	97
<i>Pseudomonas corrugata</i> .....	131
<i>Pseudomonas glycines</i> .....	59
<i>Pseudomonas lachrymans</i> .....	46
<i>Pseudomonas marginalis</i> .....	32
<i>Pseudomonas solanacearum</i> .....	26
<i>Pseudomonas</i> sp. ....	13, 18, 20, 21, 22, 23, 24, 31, 33, 41, 45, 46, 59, 76, 79, 96, 113, 115, 116, 131, 133
<i>Pseudomonas syringae</i> .....	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
<i>Pseudomonas syringae</i> pv. <i>aptata</i> .....	68
<i>Pseudomonas syringae</i> pv. <i>atropfaciens</i> .....	104
<i>Pseudomonas syringae</i> pv. <i>maculicola</i> .....	22, 76
<i>Pseudomonas syringae</i> pv. <i>savastanoi</i> .....	70
<i>Pseudomonas viridiflava</i> .....	21, 23, 34, 109

### R

<i>Ralstonia solanacearum</i> .....	9, 22, 24, 26, 27, 45, 58, 62, 68, 75, 130, 131, 132, 133
-------------------------------------	--

### S

<i>Streptomyces ipomoea</i> .....	42
<i>Streptomyces scabies</i> .....	133

### X

<i>Xanthomonas arboricola</i> .....	116
<i>Xanthomonas axonopodis</i> .....	59, 131
<i>Xanthomonas axonopodis</i> pv. <i>glycines</i> .....	59
<i>Xanthomonas campestris</i> .....	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
<i>Xanthomonas campestris</i> pv. <i>begoniae</i> .....	28
<i>Xanthomonas campestris</i> pv. <i>hederae</i> .....	14, 15
<i>Xanthomonas campestris</i> pv. <i>pruni</i> .....	116
<i>Xanthomonas campestris</i> pv. <i>raphani</i> .....	34
<i>Xanthomonas campestris</i> pv. <i>vesicatoria</i> .....	34, 130, 131
<i>Xanthomonas perforans</i> .....	131
<i>Xanthomonas</i> sp.....	13, 14, 15, 27, 32, 34, 37, 61, 68, 76, 91, 104, 108, 116, 118, 124, 131, 138
<i>Xanthomonas vitians</i> .....	13
<i>Xylella fastidiosa</i> .....	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

<i>Acantharia</i> sp.....	66
<i>Acremonium coenophialum</i> .....	100
<i>Actinopelte dryina</i> .....	44, 64, 65, 66, 67, 69
<i>Actinopelte</i> sp.....	5, 43, 64, 65, 66, 67, 69
<i>Albugo ipomoeae</i> .....	42
<i>Albugo occidentalis</i> .....	41
<i>Albugo</i> sp. ....	31
<i>Aleurodiscus oakesii</i> .....	8
<i>Alternaria alternata</i> .....	15, 45, 46, 84, 101, 120, 131, 132
<i>Alternaria brassicola</i> .....	31, 32, 33
<i>Alternaria dianthi</i> .....	40
<i>Alternaria helianthi</i> .....	24
<i>Alternaria mali</i> .....	113
<i>Alternaria panax</i> .....	14, 15
<i>Alternaria porri</i> .....	78
<i>Alternaria</i> 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
<i>Alternaria tagetica</i> .....	26
<i>Alternaria tenuissima</i> .....	20, 94, 131
<i>Alternaria zinniae</i> .....	24, 27
<i>Aphanomyces</i> sp.....	62
<i>Apiognomonium errabunda</i> .....	64
<i>Apiognomonium quercina</i> .....	66, 67
<i>Apiognomonium</i> sp. ....	4, 5, 67, 72
<i>Apiognomonium veneta</i> .....	5, 95
<i>Apiosporina morbosa</i> .....	115, 117, 118
<i>Aristastoma</i> sp. ....	61, 62, 63
<i>Armillaria mellea</i> .....	11, 51, 112, 113, 114, 121, 126
<i>Armillaria tabescens</i> .....	16, 44, 53, 88, 112, 118
<i>Ascochyta</i> sp. ....	5, 6, 21, 32, 58, 60, 62, 81, 83, 97, 99, 100, 103, 104, 105, 106, 108, 109, 110, 111
<i>Aspergillus flavus</i> .....	105
<i>Aspergillus</i> sp.....	58, 103
<i>Asperisporium sequoiae</i> .....	49
<i>Asperisporium</i> sp. ....	49
<i>Aureobasidium microstichum</i> .....	78

## B

<i>Bipolaris cynodontis</i> .....	98
<i>Bipolaris maydis</i> .....	105

<i>Bipolaris sorokiniana</i> .....	98, 100, 103, 105
<i>Bipolaris</i> sp.....	52, 84, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106
<i>Bipolaris spicifera</i> .....	98
<i>Blumeriella jaapii</i> .....	117, 118
<i>Blumeriella</i> sp.....	117
<i>Botryodiplodia</i> sp.....	4, 8, 9, 11, 44, 49, 64, 70
<i>Botryosphaeria dothidea</i> .....	5, 11, 39, 44, 49, 57, 59, 70, 77, 82, 85, 86, 87, 95, 113, 116, 118, 119, 122, 125, 126, 140
<i>Botryosphaeria obtusa</i> .....	112, 113, 119, 120
<i>Botryosphaeria rhodina</i> .....	116
<i>Botryosphaeria ribis</i> .....	44, 57, 70, 113, 121
<i>Botryosphaeria</i> 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
<i>Botrytis cinerea</i> .....	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
<i>Botrytis elliptica</i> .....	79
<i>Botrytis</i> 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, 54, 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
<i>Botrytis tulipae</i> .....	80
<i>Briosia azaleae</i> .....	56

## C

<i>Calonectria crotalariae</i> .....	59
<i>Calonectria</i> sp. ....	59
<i>Cenangium ferruginosum</i> .....	93
<i>Cephalosporium</i> sp.....	35, 78
<i>Cephalothecium roseum</i> .....	72
<i>Ceratocystis caerulescens</i> .....	6
<i>Ceratocystis fagacearum</i> .....	65
<i>Ceratocystis</i> sp. ....	42, 65, 67
<i>Ceratostomella fimbriata</i> .....	42
<i>Cercospora abeliae</i> .....	38
<i>Cercospora antirrhini</i> .....	128
<i>Cercospora arachidicola</i> .....	58

<i>Cercospora asparagi</i> .....	18	<i>Collecephalus</i> sp.....	78
<i>Cercospora bolleana</i> .....	85	<i>Colletotrichum caudatum</i> .....	98
<i>Cercospora brachypus</i> .....	140	<i>Colletotrichum dematium</i> .....	59, 60, 62
<i>Cercospora brassicae</i> .....	33	<i>Colletotrichum fragariae</i> .....	112
<i>Cercospora brassicola</i> .....	32	<i>Colletotrichum gloeosporioides</i> .....	4, 40, 72, 85, 90, 112, 113, 119, 134, 135, 140
<i>Cercospora cercidicola</i> .....	59	<i>Colletotrichum graminicola</i> .....	5, 96, 97, 98, 99, 100, 102, 103, 104, 105, 106
<i>Cercospora citrullina</i> .....	45, 46, 47	<i>Colletotrichum higginsianum</i> .....	33
<i>Cercospora cornicola</i> .....	44	<i>Colletotrichum lindemuthianum</i> .....	62
<i>Cercospora fusca</i> .....	72	<i>Colletotrichum orbiculare</i> .....	45, 46, 47
<i>Cercospora gossypina</i> .....	83	<i>Colletotrichum</i> 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
<i>Cercospora handelii</i> .....	56	<i>Colletotrichum theobromicola</i> .....	35
<i>Cercospora kikuchii</i> .....	59	<i>Colletotrichum trichellum</i> .....	15
<i>Cercospora lythracearum</i> .....	109	<i>Colletotrichum truncatum</i> .....	59, 62
<i>Cercospora medicaginis</i> .....	60	<i>Coniella diplodiella</i> .....	140
<i>Cercospora odontoglossi</i> .....	90	<i>Coniothyrium fuckelii</i> .....	121, 122, 123
<i>Cercospora pittospori</i> .....	94, 95	<i>Coniothyrium</i> sp.....	4, 6, 15, 19, 52, 82, 86, 95, 121, 122, 123, 140
<i>Cercospora sesami</i> .....	91	<i>Corticium salmonicolor</i> .....	85
<i>Cercospora sojae</i> .....	59	<i>Corticium</i> sp. ....	85
<i>Cercospora sorghi</i> var. <i>maydis</i> .....	105	<i>Corynespora cassiicola</i> .....	59, 62, 91, 127, 128, 132, 138
<i>Cercospora</i> 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	<i>Corynespora</i> sp.....	46, 59, 88, 128
<i>Cercospora thujina</i> .....	92	<i>Coryneum betulinum</i> .....	29
<i>Cercospora viburnicola</i> .....	38	<i>Coryneum japonicum</i> .....	67, 88
<i>Cercospora violae</i> .....	139	<i>Coryneum kunzei</i> .....	66, 67
<i>Cercosporaella brassicae</i> .....	33	<i>Cristulariella depraedans</i> .....	5
<i>Cercosporaella</i> sp.....	31, 32, 33, 85, 122	<i>Cristulariella moricola</i> .....	5, 54, 81, 84
<i>Cercosporidium personatum</i> .....	58	<i>Cristulariella pyramidalis</i> .....	5, 6, 81
<i>Cercosporidium sequoiae</i> .....	49	<i>Cristulariella</i> sp.....	81
<i>Cerotelium fici</i> .....	85	<i>Cronartium quercuum</i> .....	65, 66, 93, 94
<i>Choanephora cucurbitarum</i> .....	47	<i>Cronartium quercuum</i> f. sp. <i>fusiforme</i> .....	66, 93, 94
<i>Choanephora</i> sp.....	45, 82, 107	<i>Cronartium</i> sp.....	65, 67, 93
<i>Ciboria carunculoides</i> .....	85	<i>Cryptocline betularum</i> .....	29
<i>Cladosporium carpophilum</i> .....	116, 118	<i>Cryptodiaporthe populea</i> .....	125
<i>Cladosporium caryigenum</i> .....	72	<i>Cryptosporella umbrina</i> .....	121
<i>Cladosporium cucumerina</i> .....	45	<i>Curvularia lunata</i> .....	106
<i>Cladosporium effusum</i> .....	72	<i>Curvularia</i> sp.....	33, 70, 96, 97, 98, 99, 100, 101, 103, 104, 105, 106
<i>Cladosporium humile</i> .....	6	<i>Cylindrocarpon</i> sp.....	15, 37, 108, 121
<i>Cladosporium paeoniae</i> .....	91	<i>Cylindrocladium crotalariae</i> .....	58, 59, 116
<i>Cladosporium</i> 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	<i>Cylindrocladium crotalaria</i> .....	6
<i>Claviceps purpurea</i> .....	105	<i>Cylindrocladium</i> sp.....	6, 9, 10, 11, 43, 44, 48, 56, 57, 58, 59, 82, 86, 93, 111, 121, 127
<i>Clitocybe tabescens</i> .....	117	<i>Cylindrocladium spathiphylli</i> .....	13
<i>Coccomyces hiemalis</i> .....	117, 118		
<i>Coccomyces</i> sp.....	116, 117, 118		
<i>Coleosporium apocynaceum</i> .....	8		
<i>Coleosporium asterum</i> .....	20		
<i>Coleosporium</i> sp. ....	26, 42, 93, 94		
<i>Collecephalus hemerocalli</i> .....	78		

<i>Cylindrosporium betulae</i> .....	29
<i>Cylindrosporium filipendulae</i> .....	123
<i>Cylindrosporium juglandis</i> .....	72
<i>Cylindrosporium kerriae</i> .....	113
<i>Cylindrosporium</i> sp. ....	5, 6, 29, 67, 85, 118, 123, 126
<i>Cytospora</i> sp. ....	51, 64, 114, 116, 126
<i>Cytospora</i> sp. ....	11, 121

## D

<i>Dendrophoma obscurans</i> .....	112
<i>Dendrophoma</i> sp. ....	112
<i>Diaporthe phaseolorum</i> .....	59
<i>Diaporthe</i> sp. ....	51, 57, 59, 61, 82, 110
<i>Dibotryon morbosum</i> .....	115, 117, 118, 119
<i>Didymella applanata</i> .....	122
<i>Didymella bryoniae</i> .....	46
<i>Didymella</i> sp. ....	46, 47, 58
<i>Didymellina macrospora</i> .....	71
<i>Diplocarpon earliana</i> .....	112
<i>Diplocarpon mespili</i> .....	119
<i>Diplocarpon rosae</i> .....	121
<i>Diplocarpon</i> sp. ....	112, 121
<i>Diplodia gossypina</i> .....	42
<i>Diplodia pinea</i> .....	50, 93
<i>Diplodia</i> sp. ....	9, 10, 17, 50, 51, 52, 58, 70, 72, 81, 83, 85, 92, 107, 112, 113, 114, 116, 118, 119, 121
<i>Discella</i> sp. ....	64
<i>Discohainesia</i> sp. ....	112
<i>Discosia</i> sp. ....	91
<i>Discula destructiva</i> .....	43, 44
<i>Discula fraxinea</i> .....	87
<i>Discula quercina</i> .....	65, 66, 67
<i>Discula</i> sp. ....	4, 5, 6, 44, 64, 65, 66, 67, 87
<i>Dothichiza</i> sp. ....	57
<i>Dothiorella</i> sp. ....	10, 11, 16, 29, 56, 57, 77, 81, 95, 114, 115, 116, 117, 118, 120, 121, 126
<i>Dothistroma</i> sp. ....	93, 94
<i>Drechslera avenae</i> .....	97
<i>Drechslera dictyoides</i> .....	99, 100, 101
<i>Drechslera gigantea</i> .....	98, 101
<i>Drechslera</i> sp. ....	71, 96, 97, 98, 99, 100, 101, 104, 105, 106
<i>Drechslera teres</i> .....	100
<i>Drechslera tritici-repentis</i> .....	105

## E

<i>Echinulata</i> sp. ....	67
<i>Epicoccum nigrum</i> .....	105
<i>Elsinoe ampelina</i> .....	140
<i>Elsinoe corni</i> .....	43, 44
<i>Elsinoe</i> sp. ....	6, 10, 11, 43, 44, 54, 56, 122

<i>Elsinoe veneta</i> .....	44, 122, 140
<i>Embellisia alli</i> .....	78
<i>Endothia</i> sp. ....	64
<i>Entomosporium mespili</i> .....	70, 111, 112, 114, 119, 120
<i>Entomosporium</i> sp. ....	112, 114, 119, 120
<i>Entyloma polysporum</i> .....	24
<i>Entyloma</i> sp. ....	24
<i>Epicoccum purpurescens</i> .....	105
<i>Epicoccum</i> sp. ....	61, 97, 105
<i>Erysiphe alphetoides</i> .....	66
<i>Erysiphe lagerstroemiae</i> .....	81
<i>Erysiphe liriodendri</i> .....	81
<i>Erysiphe polygoni</i> .....	63
<i>Erysiphe</i> sp. ....	32, 39, 43, 60, 61, 62, 63, 81, 100, 105, 108
<i>Eutypa</i> sp. ....	140
<i>Exobasidium azaleae</i> .....	56
<i>Exobasidium camelliae</i> .....	134, 135
<i>Exobasidium</i> sp. ....	56, 57, 134, 135
<i>Exobasidium vaccinii</i> .....	56
<i>Exserohilum rostratum</i> .....	98, 103, 104, 106
<i>Exserohilum</i> sp. ....	75, 98, 104
<i>Exserohilum turcicum</i> .....	105

## F

<i>Fomes annosus</i> .....	51
<i>Fomes</i> sp. ....	51
<i>Frommea obtusa</i> .....	112
<i>Fulvia fulva</i> .....	132
<i>Fusarium avenaceum</i> .....	96
<i>Fusarium hostae</i> .....	79
<i>Fusarium moniliforme</i> .....	18, 83, 105
<i>Fusarium oxysporum</i> .....	6, 16, 18, 20, 21, 32, 33, 42, 46, 58, 59, 62, 63, 74, 75, 81, 82, 83, 84, 108, 112, 130, 131, 132
<i>Fusarium solani</i> .....	6, 21, 42, 53, 63
<i>Fusarium</i> 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
<i>Fusarium virguliforme</i> .....	59
<i>Fusicladium carpophilum</i> .....	117
<i>Fusicladium</i> sp. ....	54, 116
<i>Fusicoccum aesculi</i> .....	114
<i>Fusicoccum amygdali</i> .....	116
<i>Fusicoccum</i> sp. ....	4, 10, 11, 14, 35, 49, 86, 114, 116, 118, 140



## G

<i>Gaeumannomyces graminis</i> .....	96, 98, 99, 105, 106
<i>Gaeumannomyces</i> sp. ....	98, 104, 105
<i>Ganoderma</i> sp.....	67, 93
<i>Ganoderma zonatum</i> .....	16, 17
<i>Geotrichum candidum</i> .....	125
<i>Geotrichum</i> sp.....	116, 118, 120
<i>Gloeocercospora sorghi</i> .....	96, 104, 105
<i>Gloeodes pomigena</i> .....	114, 119, 120
<i>Gloeodes</i> sp.....	114
<i>Gloeosporium apocryptum</i> .....	5, 6
<i>Gloeosporium aridum</i> .....	87
<i>Gloeosporium cingulata</i> .....	57
<i>Gloeosporium frigidum</i> .....	40
<i>Gloeosporium ilicis</i> .....	11
<i>Gloeosporium limetticola</i> .....	124
<i>Gloeosporium minus</i> .....	57
<i>Gloeosporium quercina</i> .....	67
<i>Gloeosporium</i> 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
<i>Glomerella cingulata</i> .....	56, 59, 82, 88, 114, 116, 120, 121, 134, 135, 139, 140
<i>Glomerella</i> sp.....	13, 15, 19, 44, 56, 57, 88, 114, 121, 134, 135, 140
<i>Gnomonia caryae</i> .....	72
<i>Gnomonia comari</i> .....	112
<i>Gnomonia leptostyla</i> .....	72
<i>Gnomonia platani</i> .....	95
<i>Gnomonia quercina</i> .....	65, 67
<i>Gnomonia</i> sp.....	67, 72, 95, 112
<i>Gnomonia ulmea</i> .....	137
<i>Golovinomyces orontii</i> .....	9
<i>Graphiola phoenicis</i> .....	16
<i>Graphium</i> sp. ....	49
<i>Greeneria uvicola</i> .....	140
<i>Guignardia bidwellii</i> .....	15, 140
<i>Guignardia</i> sp. ....	10
<i>Gymnoconia interstitialis</i> .....	122
<i>Gymnoconia peckiana</i> .....	122
<i>Gymnosporangium clavipes</i> .....	51, 92, 111, 112, 114, 119, 120
<i>Gymnosporangium juniperi-virginianae</i> .....	51, 92, 113, 114
<i>Gymnosporangium</i> sp.....	49, 50, 51, 111, 114, 119, 120

## H

<i>Hainesia lythri</i> .....	112
<i>Helminthosporium avenae</i> .....	97
<i>Helminthosporium carbonum</i> .....	105

<i>Helminthosporium papulosum</i> .....	114
<i>Helminthosporium sativum</i> .....	97, 100
<i>Helminthosporium</i> sp.....	16, 33, 67, 72, 84, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 128
<i>Helminthosporium triseptatum</i> .....	96
<i>Helminthosporium turticum</i> .....	105
<i>Heterobasidion annosum</i> .....	56, 93
<i>Heterobasidion</i> sp.....	93, 94
<i>Heterosporium iridis</i> .....	71
<i>Heterosporium</i> sp. ....	71
<i>Hypoxylon</i> sp. ....	5, 67

## I

<i>Isariopsis</i> sp.....	140
---------------------------	-----

## K

<i>Kabatiella</i> sp.....	5
<i>Kabatina juniperi</i> .....	49, 50, 51, 92
<i>Kabatina</i> sp.....	48, 49, 50, 51, 52, 92
<i>Kellermania</i> sp. ....	19
<i>Kuehneola malvicola</i> .....	84
<i>Kuehneola uredinis</i> .....	122
<i>Kunkelia nitens</i> .....	122

## L

<i>Laetisaria fuciformis</i> .....	100, 101
<i>Lanzia</i> sp.....	96, 98, 99
<i>Lanzia/Moellerodiscus</i> sp.....	96, 97, 98, 99, 100, 101, 102, 104, 106
<i>Leptographium</i> sp.....	93
<i>Leptosphaeria coniothyrium</i> .....	121, 122, 123
<i>Leptosphaeria korrae</i> .....	98
<i>Leptosphaerulina</i> sp.....	58, 60, 62, 63, 96, 98, 99, 100, 101, 103, 106
<i>Leptosphaerulina trifolii</i> .....	96, 98, 100, 101, 102
<i>Leptothyrium</i> sp.....	11
<i>Leveillula</i> sp. ....	54
<i>Lophodermium pinastri</i> .....	93, 94
<i>Lophodermium</i> sp.....	51, 93, 94

## M

<i>Macrophoma candollei</i> .....	35
<i>Macrophoma fici</i> .....	85
<i>Macrophoma</i> sp.....	8, 10, 11, 15, 17, 35, 38, 44, 48, 49, 51, 52, 54, 56, 79, 86, 92, 107, 109, 114, 126, 134, 140
<i>Macrophomina phaseoli</i> .....	18, 24, 25, 42, 46, 58, 59, 61, 62, 63, 83, 84, 91, 93, 94, 103, 105
<i>Macrophomina</i> sp.....	5, 42, 45, 59, 61, 62, 63, 76, 83, 94, 105, 107, 112, 131, 132

<i>Magnaporthe grisea</i> .....	101
<i>Marasmius</i> sp.....	100, 104
<i>Marssonina populi</i> .....	125
<i>Marssonina</i> sp.....	72, 125
<i>Melampsora medusa</i> .....	125
<i>Melampsora</i> sp.....	125, 126
<i>Melanconium fuligineum</i> .....	140
<i>Melanconium</i> sp.....	16, 67, 140
<i>Melanotus phillipsii</i> .....	100
<i>Melanotus</i> sp.....	100
<i>Meliola</i> sp.....	82
<i>Microdochium nivale</i> .....	96, 98, 100, 101
<i>Microdochium</i> sp.....	98
<i>Microdochium tabacina</i> .....	47
<i>Microgloeum</i> sp.....	116
<i>Microsphaera alni</i> .....	56, 72, 81, 89
<i>Microsphaera penicillata</i> .....	43, 67
<i>Microsphaera pulchra</i> .....	44
<i>Microsphaera</i> sp.....	43, 44, 56, 57, 59, 66, 67, 72, 88, 95, 135, 137, 140
<i>Microsphaera sparsa</i> .....	39
<i>Microstroma juglandis</i> .....	72
<i>Microthyriella rubi</i> .....	114
<i>Moellerodiscus</i> sp.....	98, 99
<i>Monilinia fruticola</i> .....	110, 115, 116, 117, 118
<i>Monilinia</i> sp.....	116, 118, 120
<i>Monilinia vaccinii-corymbosi</i> .....	57
<i>Monilochaetes infuscans</i> .....	42
<i>Monilochaetes</i> sp.....	42
<i>Monochaetia monochaeta</i> .....	137
<i>Monochaetia</i> sp.....	49, 65, 114
<i>Monostichella salicis</i> .....	126
<i>Monostichella</i> sp.....	5
<i>Mycoleptodiscus indicus</i> .....	19, 106
<i>Mycosphaerella carigena</i> .....	72
<i>Mycosphaerella cercidicola</i> .....	59
<i>Mycosphaerella dendroides</i> .....	72
<i>Mycosphaerella lythracearum</i> .....	109
<i>Mycosphaerella</i> sp.....	46, 56, 59, 72, 95, 112, 140
<i>Myrothecium roridumi</i>	
<i>Myxosporium</i> sp.....	81

## N

<i>Nectria cinnabarinai</i>	
<i>Nectria</i> sp.....	35, 67, 87, 113, 121, 126, 134
<i>Nectriella pironii</i> .....	85
<i>Nectriella</i> sp.....	95
<i>Nematospora</i> sp.....	72
<i>Neocomospora vasinfecta</i> .....	59
<i>Nigrospora</i> sp.....	100, 103, 104
<i>Nigrospora sphaerica</i> .....	98

## O

<i>Oidiopsis sicula</i> .....	132
<i>Oidium euonymi-japonici</i> .....	40
<i>Oidium monilioides</i> .....	105
<i>Oidium</i> 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
<i>Ophiodothella vaccinii</i> .....	56
<i>Ophiosphaerella agrostis</i> .....	96
<i>Ophiosphaerella korrae</i> .....	98
<i>Ophiotoma ulmi</i> .....	137
<i>Ovulinia azaleae</i> .....	55, 56
<i>Oxysporus</i> sp.....	35

## P

<i>Paecilomyces buxi</i> .....	35
<i>Paecilomyces</i> sp.....	35
<i>Passalora personata</i> .....	58
<i>Passalora sequoiae</i> .....	49, 51
<i>Pellicularia</i> sp.....	11, 85
<i>Penicillium digitatum</i> .....	125
<i>Penicillium gladioli</i> .....	70
<i>Penicillium</i> sp.....	37, 42, 70, 71, 101, 116
<i>Peronospora antirrhini</i> .....	128
<i>Peronospora belbahrii</i> .....	74
<i>Peronospora grisea</i> .....	130
<i>Peronospora parasitica</i> .....	31, 32, 33
<i>Peronospora phlogina</i> .....	107, 108
<i>Peronospora</i> sp.....	31, 32, 33, 68, 73, 76, 80, 113, 128, 130
<i>Peronospora sparsa</i> .....	121
<i>Pestalotia</i> sp.....	4, 12, 16, 44, 48, 49, 50, 54, 56, 66, 72, 81, 82, 85, 86, 88, 95, 114, 115, 122, 135, 140
<i>Pestalotiopsis palmarum</i> .....	17
<i>Pestalotiopsis</i> sp.....	16, 48, 49, 50, 51, 52, 56, 81, 86, 92, 93, 107, 134, 135
<i>Phacidium</i> sp.....	10, 11, 12
<i>Phaeoacremonium</i> sp.....	140
<i>Phaeoisariopsis griseola</i> .....	61
<i>Phaeoisariopsis</i> sp.....	81
<i>Phaeosphaeria acori</i> .....	101
<i>Phakopsora pachyrhizi</i> .....	59
<i>Phellinus gilvus</i> .....	67
<i>Phoma clematidina</i> .....	110
<i>Phoma destructiva</i> .....	132
<i>Phoma exigua</i> .....	9, 62
<i>Phoma lingam</i> .....	32
<i>Phoma medicaginis</i> .....	60

<i>Phoma</i> 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
<i>Phoma trifolii</i> .....	63
<i>Phoma/Ascochyta</i> sp. ....	34
<i>Phoma/Phyllosticta</i> sp. ....	9, 19, 20, 24, 26, 38, 39, 44, 48, 51, 52, 76, 78, 91, 95, 96, 110, 120, 126, 127, 129, 138
<i>Phomopsis amygdali</i> .....	116
<i>Phomopsis gardeniae</i> .....	124
<i>Phomopsis juniperovora</i> .....	51
<i>Phomopsis livella</i> .....	9
<i>Phomopsis mali</i> .....	113
<i>Phomopsis</i> 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
<i>Phragmidium rubidae</i> .....	122
<i>Phragmidium</i> sp. ....	121
<i>Phyllactinia guttata</i> .....	67
<i>Phyllactinia</i> sp. ....	56, 65, 67, 87
<i>Phyllosticta ampellicida</i> .....	139, 140, 141
<i>Phyllosticta antirrhini</i> .....	128
<i>Phyllosticta betulina</i> .....	29
<i>Phyllosticta catalpae</i> .....	30
<i>Phyllosticta clematidis</i> .....	110
<i>Phyllosticta cotoneastri</i> .....	111
<i>Phyllosticta euonymi</i> .....	40
<i>Phyllosticta minima</i> .....	5, 6
<i>Phyllosticta punctata</i> .....	39
<i>Phyllosticta pyriformis</i> .....	90
<i>Phyllosticta</i> 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
<i>Physalospora obtusa</i> .....	113, 114
<i>Physopella fici</i> .....	85
<i>Phytophthora cactorum</i> .....	12, 49, 56, 112, 139
<i>Phytophthora capsici</i> .....	46, 47, 131, 132
<i>Phytophthora cinnamomi</i> .....	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
<i>Phytophthora citrophthora</i> .....	78
<i>Phytophthora cryptogea</i> .....	15, 21, 27, 34, 56, 57, 109, 129, 133
<i>Phytophthora hibernalis</i> .....	55
<i>Phytophthora ilicis</i> .....	10
<i>Phytophthora lateralis</i> .....	55
<i>Phytophthora nicotianae</i> .....	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
<i>Phytophthora nicotianae</i> var. <i>parasitica</i> .....	8, 27
<i>Phytophthora palmivora</i> .....	14, 15, 17
<i>Phytophthora parasitica</i> .....	6, 9, 15, 35, 45, 56, 73, 74, 84, 87, 116, 128, 132, 138, 139
<i>Phytophthora ramorum</i> .....	39, 54, 55, 56, 134, 135
<i>Phytophthora</i> 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
<i>Phytophthora syringae</i> .....	56, 134
<i>Pilidium</i> sp. ....	5
<i>Plasmiodiophora brassicae</i> .....	32
<i>Plasmopara halstedii</i> .....	25
<i>Plasmopara obducens</i> .....	27
<i>Plasmopara</i> sp. ....	22, 141
<i>Plasmopara viburni</i> .....	39
<i>Plasmopara viticola</i> .....	139, 140, 141
<i>Pleurotus ostreatus</i> .....	72
<i>Ploioderma lethale</i> .....	94
<i>Ploioderma</i> sp. ....	94
<i>Podosphaera leucotricha</i> .....	114
<i>Podosphaera pannosa</i> .....	121
<i>Podosphaera</i> sp. ....	114, 118
<i>Polyporus calkinsii</i> .....	64
<i>Polythrincium trifolii</i> .....	63
<i>Pseudocercospora juniperi</i> .....	51
<i>Pseudocercospora</i> 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
<i>Pseudocercospora capsellae</i> .....	33
<i>Pseudocercospora</i> sp. ....	85
<i>Pseudonectria buxi</i> .....	35
<i>Pseudonectria rousseliana</i> .....	36
<i>Pseudonectria</i> sp. ....	36
<i>Pseudoperonospora cubensis</i> .....	46, 47
<i>Pseudopeziza medicaginis</i> .....	60
<i>Pseudopeziza</i> sp. ....	60, 63
<i>Puccinia arenariae</i> .....	40
<i>Puccinia canaliculata</i> .....	52

<i>Puccinia coronata</i> .....	97, 100
<i>Puccinia cynodontis</i> .....	98
<i>Puccinia grindeliae</i> .....	20
<i>Puccinia hemerocallidis</i> .....	78
<i>Puccinia heterospora</i> .....	83
<i>Puccinia heucherae</i> .....	127
<i>Puccinia lantanae</i> .....	138
<i>Puccinia malvacearum</i> .....	83
<i>Puccinia oxalidis</i> .....	90, 91
<i>Puccinia pelargonii</i> .....	68
<i>Puccinia pelargonii-zonalis</i> .....	68
<i>Puccinia peridermiospora</i> .....	89
<i>Puccinia podophylli</i> .....	29
<i>Puccinia polysora</i> .....	105
<i>Puccinia psidii</i> .....	86
<i>Puccinia recondita</i> .....	105
<i>Puccinia</i> 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
<i>Puccinia stenotaphri</i> .....	104
<i>Puccinia stiiformis</i> .....	105
<i>Puccinia tanacetii</i> .....	21
<i>Puccinia xanthii</i> .....	27
<i>Puccinia zoysia</i> .....	106
<i>Pucciniastrum americanum</i> .....	122, 123
<i>Pucciniastrum myrtilli</i> .....	56
<i>Pucciniastrum</i> sp.....	56
<i>Pucciniastrum vaccinii</i> .....	55, 56, 57
<i>Pyrenophora avenae</i> .....	97
<i>Pyricularia grisea</i> .....	69, 97, 98, 99, 100, 101, 104
<i>Pyricularia</i> sp.....	97, 98, 99, 102, 103, 104
<i>Pythium aphanidermatum</i> .....	47, 132
<i>Pythium irregulare</i> .....	33
<i>Pythium myriotylum</i> .....	58
<i>Pythium</i> 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
<i>Pythium spinosum</i> .....	98
<i>Pythium splendens</i> .....	12, 13, 15, 22, 28, 75, 85, 107, 128
<i>Pythium volutum</i> .....	96

## R

<i>Raffaelea lauricola</i> .....	77
----------------------------------	----

<i>Ramularia tulasnei</i> .....	113
<i>Rhizoctonia cerealis</i> .....	96, 100, 102, 103
<i>Rhizoctonia solani</i> .....	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
<i>Rhizoctonia</i> 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
<i>Rhizoctonia zeae</i> .....	96, 98, 99, 104
<i>Rhizopus</i> sp.....	42, 47, 58, 106, 113, 114, 116, 117, 118, 132
<i>Rhizosphaera kalkhoffii</i> .....	92
<i>Rhizosphaera</i> sp.....	93, 94
<i>Rhizytisma acerinum</i> .....	5, 6

## S

<i>Schizothyrium pomi</i> .....	114, 120
<i>Schizothyrium</i> sp.....	114, 120
<i>Scirrhia acicola</i> .....	93
<i>Sclerotinia homeocarpa</i> .....	96, 99, 102, 104, 106, 107
<i>Sclerotinia sclerotiorum</i> .....	4, 22, 24, 25, 26, 30, 32, 33, 37, 53, 60, 61, 62, 63, 76, 78, 80, 109, 113, 128, 132
<i>Sclerotinia</i> sp.....	25, 31, 32, 47, 58, 60, 61, 62, 63, 91, 99, 101, 113
<i>Sclerotium cepivorum</i> .....	78
<i>Sclerotium delphinii</i> .....	73, 110
<i>Sclerotium rolfsii</i> .....	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
<i>Sclerotium</i> sp.....	21, 22, 24, 43, 60, 61, 62, 73, 100, 110, 132, 133
<i>Scorias</i> sp.....	64
<i>Scorias spongiosa</i> .....	64
<i>Scutellonema</i> sp.....	10, 12, 18, 32, 33, 35, 42, 47, 60, 62, 81, 82, 83, 132
<i>Seiridium</i> sp.....	49
<i>Seiridium unicorne</i> .....	49, 52
<i>Septobasidium</i> sp.....	44, 65, 66, 77
<i>Septoria azaleae</i> .....	56
<i>Septoria chrysanthemi</i> .....	21
<i>Septoria lycopersici</i> .....	132
<i>Septoria myricae</i> .....	86

<i>Septoria nodorum</i> .....	100, 105
<i>Septoria</i> sp. ....	5, 20, 25, 27, 42, 43, 44, 54, 56, 60, 70, 86, 100, 102, 105, 107, 108, 115, 120, 122, 123, 125, 132
<i>Serenomyces phoenicis</i> .....	16
<i>Serenomyces</i> sp. ....	17
<i>Setosphaeria turcica</i> .....	106
<i>Sphaceloma euonymi-japonica</i> .....	40
<i>Sphaceloma fawcetti</i> .....	125
<i>Sphaeropsis sapinea</i> .....	49, 92, 93, 94
<i>Sphaeropsis</i> sp. ....	5, 49, 50, 51, 52, 64, 67, 82, 92, 114, 119, 120, 126
<i>Sphaeropsis tumefaciens</i> .....	86
<i>Sphaerotheca fuliginea</i> .....	46
<i>Sphaerotheca humuli</i> var. <i>fuliginea</i> .....	44
<i>Sphaerotheca macularis</i> .....	113, 139
<i>Sphaerotheca pannosa</i> .....	114, 115, 116, 121
<i>Sphaerotheca</i> sp. ....	46, 47, 72, 113, 114, 116, 121, 122
<i>Sphaerulina acorii</i> .....	12
<i>Sphaerulina rubi</i> .....	123
<i>Spongospora</i> sp. ....	133
<i>Spongospora subterranean</i> .....	133
<i>Stagonospora curtisii</i> .....	78
<i>Stagonospora nodorum</i> .....	105
<i>Stagonospora</i> sp. ....	78
<i>Stemphylium botryosum</i> .....	61, 78
<i>Stemphylium solani</i> .....	130, 132
<i>Stemphylium</i> sp. ....	18, 20, 21, 32, 61, 63, 73, 78, 83, 124, 132, 133, 139
<i>Stigmina palmivora</i> .....	16, 17

## T

<i>Taphrina caerulescens</i> .....	64, 65, 66, 67
<i>Taphrina communis</i> .....	118
<i>Taphrina deformans</i> .....	116, 118
<i>Taphrina</i> sp. ....	64, 65, 66, 67, 117, 118
<i>Taphrina ulmi</i> .....	137
<i>Thielaviopsis basicola</i> .....	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
<i>Thielaviopsis paradoxa</i> .....	17, 91
<i>Thielaviopsis</i> sp. ....	12, 17, 81, 107, 116

<i>Trabutia quercina</i> .....	67
<i>Tranzschelia discolor</i> .....	118
<i>Tranzschelia pruni-spinosae</i> .....	117
<i>Tranzschelia</i> sp. ....	116, 118
<i>Trichaptum abietinum</i> .....	93
<i>Trichoderma</i> sp. ....	42
<i>Tubakia dryina</i> .....	44, 64, 65, 66, 67, 70, 72
<i>Tubakia</i> sp. ....	65, 67

## U

<i>Uncinula bicornis</i> .....	5
<i>Uncinula</i> sp. ....	5, 140, 141
<i>Urocystis agropyri</i> .....	105
<i>Uromyces asclepiadis</i> .....	17
<i>Uromyces phaseoli</i> .....	61, 62
<i>Uromyces</i> sp. ....	61, 62, 63, 98
<i>Uromyces striatus</i> .....	61
<i>Uromyces triquetrus</i> .....	41
<i>Ustilago avenae</i> .....	97
<i>Ustilago cynodontis</i> .....	98
<i>Ustilago hordei</i> .....	97
<i>Ustilago nigra</i> .....	97
<i>Ustilago nuda</i> .....	100, 105
<i>Ustilago</i> sp. ....	97, 100, 106
<i>Ustilago striiformis</i> .....	100
<i>Ustilago tritici</i> .....	97, 100, 105

## V

<i>Venturia acerina</i> .....	6
<i>Venturia carpophila</i> .....	116
<i>Venturia inaequalis</i> .....	113, 114, 118, 120
<i>Verticillium albo-atrum</i> .....	21
<i>Verticillium</i> sp. ....	5, 6, 58, 82, 83, 113, 121, 123, 128
<i>Volutella buxi</i> .....	35, 36
<i>Volutella pachysandrae</i> .....	36
<i>Volutella</i> sp. ....	12, 35, 36

## Z

<i>Zygophiala jamaicensis</i> .....	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 I*..... 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* — *Arabidopsis 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 I* .....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

Clemson University Cooperative Extension Service offers its programs to people of all ages, regardless of race, color, sex, religion, national origin, disability, political beliefs, sexual orientation, marital or family status and is an equal opportunity employer.