

Commercial Crop Production Ornamentals

Table 1. Diseases of Ornamental Plants

Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Abelia	Leaf spot Powdery mildew Root rot	<i>Cercospora</i> <i>Oidium</i> <i>Pythium, Rhizoctonia</i>
African violet (Saintpaulia)	Gray mold Leaf spot Leaf and stem rot Necrotic spot Powdery mildew Root rot Root and crown rot	<i>Botrytis</i> <i>Alternaria, Corynespora</i> <i>Rhizoctonia</i> <i>Impatiens necrotic spot virus</i> <i>Oidium</i> <i>Fusarium, Rhizoctonia</i> <i>Phytophthora, Pythium</i>
Agapanthus	Bacterial leaf blight Bulb and root rot Gray mold Leaf spot Root rot	<i>Xanthomonas</i> <i>Fusarium, Rhizoctonia</i> <i>Botrytis</i> <i>Colletotrichum, Myrothecium</i> <i>Phytophthora, Pythium</i>
Ageratum	Leaf spot Powdery mildew Root rot Root and stem rot Rust Southern blight	<i>Cercospora</i> <i>Erysiphe</i> <i>Pythium</i> <i>Rhizoctonia</i> <i>Puccinia</i> <i>Sclerotium rolfsii</i>
Aglaonema	Anthraxnose Bacterial leaf spot Bacterial soft rot Leaf spot Root rot Root and stem rot Stem rot Southern blight	<i>Colletotrichum, Glomerella</i> <i>Pseudomonas, Xanthomonas</i> <i>Erwinia</i> <i>Cercospora, Corynespora, Myrothecium</i> <i>Pythium, Rhizoctonia</i> <i>Cylindrocladiella, Fusarium, Phytophthora</i> <i>Cylindrocladium</i> <i>Sclerotium rolfsii</i>
Ajuga	Leaf spot Root rot Root and crown rot Southern blight	<i>Alternaria, Cercospora, Colletotrichum, Corynespora,</i> <i>Myrothecium, Stemphylium</i> <i>Pythium, Rhizoctonia</i> <i>Fusarium</i> <i>Sclerotium rolfsii</i>
Almond, flowering (Prunus triloba)	Blossom and twig blight Gray mold Rust	<i>Monilinia</i> <i>Botrytis</i> <i>Tranzschelia</i>
Adenium (Desert rose)	Leaf spot Root and stem rot	<i>Aristastoma</i> <i>Rosellinia</i>
Alyssum	Basal stem rot Damping-off	<i>Pythium</i> <i>Rhizoctonia</i>
American hornbeam (Carpinus)	Leaf blister Leaf spot Powdery mildew	<i>Taphrina</i> <i>Septoria</i> <i>Microsphaera, Phyllactinia</i>
Amaryllis	Red blotch	<i>Stagnospora</i>
Anemone, Jerusalem	Damping-off	<i>Rhizoctonia</i>

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Anthurium	Anthracnose Bacterial leaf spot Bacterial soft rot Leaf rot Leaf spot Root rot Root and stem rot Southern blight	<i>Gloeosporium</i> <i>Pseudomonas</i> , <i>Xanthomonas</i> <i>Erwinia</i> <i>Botrytis</i> <i>Alternaria</i> , <i>Cercospora</i> , <i>Phomopsis</i> , <i>Phyllosticta</i> , <i>Septoria</i> <i>Fusarium</i> , <i>Pythium</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Rhizoctonia</i> <i>Sclerotium rolfsii</i>
Aphelandra	Anthracnose Bacterial leaf spot Bacterial soft rRot Leaf spot Root rot Root, crown and stem rot Southern blight	<i>Colletotrichum</i> <i>Pseudomonas</i> , <i>Xanthomonas</i> <i>Erwinia</i> <i>Alternaria</i> , <i>Cercospora</i> , <i>Corynespora</i> , <i>Myrothecium</i> <i>Pythium</i> , <i>Rhizoctonia</i> <i>Phytophthora</i> <i>Sclerotium rolfsii</i>
Arborvitae (Thuja)	Tip and twig blights or dieback Root rot Root and stem rot	<i>Alternaria</i> , <i>Cercospora</i> , <i>Coryneum</i> , <i>Pestalotiopsis</i> , <i>Phomopsis</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> <i>Rhizoctonia</i>
Aronia	Root rot	<i>Phytophthora</i>
Ardisia	Leaf spot Root rot Stem rot	<i>Cercospora</i> , <i>Mycosphaerella</i> , <i>Phyllosticta</i> <i>Phytophthora</i> <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Sclerotinia</i>
Areca palm	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Artemisia	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Ash	Anthracnose Heart rot Leaf spot Powdery mildew Rust	<i>Gloeosporium</i> <i>Ganoderma</i> <i>Cercospora</i> , <i>Cercosporidium</i> , <i>Cylindrosporium</i> <i>Oidium</i> <i>Puccinia</i>
Asian jasmine	Blight Root rot	<i>Rhizoctonia</i> <i>Armillaria</i> , <i>Fusarium</i>
Asparagus fern	Anthracnose Blight Stem rot	<i>Colletotrichum</i> <i>Ascochyta</i> , <i>Cercospora</i> <i>Fusarium</i> , <i>Rhizoctonia</i>
Aspidistra	Anthracnose Leaf spot	<i>Colletotrichum</i> <i>Ascochyta</i> , <i>Cercospora</i>
Aster	Powdery mildew Root rot Rust Stem rot	<i>Erysiphe</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i> <i>Puccinia</i> <i>Rhizoctonia</i>
Astilbe	Leaf spot Powdery Mildew	<i>Cercospora</i> <i>Erysiphe</i>
Aucuba	Anthracnose Leaf spot Root rot	<i>Gloeosporium</i> <i>Pestalotia</i> , <i>Phyllosticta</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>

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Azalea	Damping-off Dieback Flower blight Foliage blight Leaf gall Leaf spot Powdery mildew Root rot Web blight	<i>Rhizoctonia</i> <i>Phytophthora</i> <i>Ovulinia</i> <i>Phytophthora</i> <i>Exobasidium</i> <i>Cercospora, Colletotrichum, Pestalotia, Phyllosticta</i> <i>Microsphaera</i> <i>Phytophthora, Pythium, Rhizoctonia</i> <i>Rhizoctonia</i>
Baby's breath (Gypsophila)	Gray mold Leaf spot Root rot Stem Rot	<i>Botrytis</i> <i>Phyllosticta</i> <i>Phytophthora, Pythium</i> <i>Fusarium, Rhizoctonia</i>
Balsam (Impatiens balsamina)	Leaf spot Root rot Stem rot	<i>Cercospora, Septoria</i> <i>Fusarium, Phytophthora, Pythium, Rhizoctonia,</i> <i>Thielaviopsis</i> <i>Fusarium, Rhizoctonia</i>
Banana shrub	Algal leaf spot Root rot	<i>Cephaleuros</i> <i>Phytophthora, Rhizoctonia</i>
Barberry	Bacterial leaf spot Leaf spot Powdery mildew Rust	<i>Pseudomonas</i> <i>Gloeosporium</i> <i>Erysiphe, Phyllactinia</i> <i>Cumminsiiella, Puccinia</i>
Bay, red	Leaf spot	<i>Cercospora</i>
Bee balm	Leaf spot	<i>Cercospora</i>
Beech, American	Leaf spot Powdery mildew	<i>Cercospora</i> <i>Phyllactinia</i>
Begonia	Anthracnose Bacterial leaf spot Gray mold Leaf spot Powdery mildew Root rot Stem rot	<i>Colletotrichum</i> <i>Xanthomonas</i> <i>Botrytis</i> <i>Cercospora, Phyllosticta, Phomopsis</i> <i>Erysiphe</i> <i>Fusarium, Phytophthora, Pythium, Rhizoctonia,</i> <i>Thielaviopsis</i> <i>Fusarium, Rhizoctonia</i>
Birch	Anthracnose Leaf spot Powdery mildew	<i>Gloeosporium</i> <i>Septoria</i> <i>Phyllactinia</i>
Black cherry	Anthracnose Leaf blister Leaf spot Powdery mildew Rust	<i>Colletotrichum</i> <i>Taphrina</i> <i>Cercospora</i> <i>Podosphaera</i> <i>Tranzschelia</i>
Bleeding heart	Leaf spot	<i>Cercospora, Colletotrichum</i>
Boston fern	Rust Web blight	<i>Desmella</i> <i>Rhizoctonia</i>
Bottlebrush	Gall	<i>Nectriella</i>
Bougainvillea	Root rot	<i>Phytophthora, Pythium</i>
Box elder	Anthracnose Leaf spot Powdery mildew	<i>Gloeosporium</i> <i>Ascochyta, Cercospora, Septoria</i> <i>Microsphaera, Uncinula</i>

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Boxwood	Canker Dieback Leaf spot Root rot Stem blight	<i>Nectria</i> <i>Colletotrichum theobromicola</i> <i>Macrophoma</i> , <i>Phyllosticta</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Volutella</i>
Browallia	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Buckeye	Anthrachnose Leaf blotch Leaf spot Powdery mildew	<i>Glomerella</i> <i>Phyllosticta</i> <i>Cercospora</i> <i>Uncinula</i>
Buckthorn	Leaf spot Rust	<i>Cercospora</i> , <i>Septoria</i> <i>Puccinia</i>
Buffaloberry	Leaf spot	<i>Cylindrosporium</i>
Cactus	Leaf spot Root rot	<i>Phoma</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Caladium	Root rot	<i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Calathea	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Calceolaria	Root rot	<i>Pythium</i>
Calendula	Leaf spot Powdery mildew Root rot Rust Stem rot	<i>Cercospora</i> <i>Erysiphe</i> <i>Phytophthora</i> , <i>Pythium</i> <i>Puccinia</i> <i>Rhizoctonia</i> , <i>Sclerotinia</i>
Camellia	Algal leaf spot Flower blight Leaf Gall Leaf spot Petal blight Root rot	<i>Cephaleuros</i> <i>Ciborinia</i> <i>Exobasidium</i> <i>Guignardia</i> , <i>Pestalotia</i> , <i>Macrophoma</i> <i>Botrytis</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Camphor-tree	Anthrachnose Leaf spot Powdery mildew	<i>Glomerella</i> <i>Gloeosporium</i> <i>Microsphaera</i>
Candytuft	Gray mold Stem rot	<i>Botrytis</i> <i>Fusarium</i> , <i>Rhizoctonia</i>
Canna	Rust	<i>Puccinia</i>
Carissa	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Carnation	Anthrachnose Branch rot Damping-off Leaf spot Powdery mildew Root rot Rust	<i>Colletotrichum</i> <i>Botrytis</i> <i>Pythium</i> <i>Alternaria</i> , <i>Septoria</i> <i>Oidium</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Uromyces</i>
Catalpa	Anthrachnose Leaf spot Powdery mildew	<i>Gloeosporium</i> <i>Cercospora</i> , <i>Phyllosticta</i> <i>Microsphaera</i> , <i>Phyllactinia</i>
Cattleya skinneri	Root rot	<i>Phytophthora</i> , <i>Pythium</i>

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Cedar	Leaf spot Needle blight Root rot	<i>Alternaria</i> <i>Cercospora</i> , <i>Phomopsis</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Celosia	Leaf spot Root rot	<i>Alternaria</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Ceanothus	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Chamaedorea	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Cherry-hawthorn	Leaf spot Rust	<i>Fabraea</i> <i>Gymnosporangium</i>
Cherry-laurel	Leaf spot Powdery mildew Root rot	<i>Cercospora</i> , <i>Septoria</i> <i>Podosphaera</i> <i>Phytophthora</i>
Chestnut	Powdery mildew	<i>Microsphaera</i> , <i>Phyllactinia</i>
Chinaberry	Leaf spot Powdery mildew	<i>Cercospora</i> <i>Phyllactinia</i>
Chinese elm	Anthrachnose Leaf spot Powdery mildew Root rot	<i>Colletotrichum</i> <i>Actinopelte</i> , <i>Phyllosticta</i> <i>Phyllactinia</i> <i>Armillaria</i>
Chinese evergreen	Powdery mildew Root rot	<i>Phyllactinia</i> <i>Phytophthora</i> , <i>Pythium</i>
Chinese forget-me-not	Gray mold Leaf spot Stem rot	<i>Botrytis</i> <i>Cercospora</i> <i>Rhizoctonia</i>
Chinese lantern (Abutilon)	Leaf spot	<i>Cercospora</i> , <i>Phyllosticta</i>
Chinese parasol tree	Web blight	<i>Rhizoctonia</i>
Chinese pistachio	Leaf spot Thread blight	<i>Septoria</i> <i>Rhizoctonia</i>
Chocolate plant	Leaf spot	<i>Phyllosticta</i>
Christmas rose	Flower spot	<i>Botrytis</i>
Chrysanthemum	Anthrachnose Bacterial blight Damping-off Gray mold Leaf spot Powdery mildew Ray blight Root rot Rust Wilt	<i>Colletotrichum</i> <i>Pectobacterium</i> <i>Pythium</i> <i>Botrytis</i> <i>Alternaria</i> , <i>Septoria</i> <i>Erysiphe</i> <i>Ascochyta</i> , <i>Mycosphaerella</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Puccinia</i> <i>Fusarium</i>
Cineraria	Powdery mildew Root rot	<i>Erysiphe</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Cissus	Leaf spot Root rot	<i>Cercospora</i> <i>Phytophthora</i> , <i>Pythium</i>
Clarkia	Gray mold Root rot	<i>Botrytis</i> <i>Rhizoctonia</i>
Clematis	Leaf spot	<i>Ascochyta</i> , <i>Cercospora</i>

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Cleome	White mold	<i>Sclerotinia sclerotiorum</i>
Cleyera	Leaf spot	<i>Cercospora</i>
Cockscomb	Leaf spot Stem rot	<i>Cercospora</i> <i>Fusarium, Rhizoctonia</i>
Coleus	Downy mildew Leaf blight Root rot	<i>Peronospora</i> <i>Botrytis</i> <i>Phytophthora, Pythium, Rhizoctonia</i>
Columbine	Leaf spot Powdery mildew Root rot Rust	<i>Ascochyta, Septoria</i> <i>Erysiphe</i> <i>Phytophthora, Pythium, Rhizoctonia</i> <i>Puccinia</i>
Coneflower	Leaf spot Witch's broom	<i>Cercospora</i> <i>Phytoplasma</i>
Confederate jasmine	Anthraxnose Leaf spot Root rot Stem rot	<i>Colletotrichum</i> <i>Cercospora, Corynespora</i> <i>Armillaria</i> <i>Fusarium, Rhizoctonia</i>
Cordyline	Leaf spot	<i>Cercospora</i>
Coreopsis	Gray mold Leaf spot Rust Stem rot	<i>Botrytis</i> <i>Cercospora, Phyllosticta, Septoria</i> <i>Coleosporium</i> <i>Rhizoctonia</i>
Cornflower	Leaf spot Rust Root rot Stem rot White mold	<i>Cercospora, Septoria</i> <i>Puccinia</i> <i>Phytophthora</i> <i>Rhizoctonia</i> <i>Sclerotinia sclerotiorum</i>
Cosmos	Leaf spot Powdery mildew Stem rot	<i>Cercospora</i> <i>Erysiphe</i> <i>Rhizoctonia</i>
Cotoneaster	Leaf spot Root rot	<i>Cercospora, Phyllosticta</i> <i>Phytophthora, Pythium</i>
Cottonwood	Leaf blister Leaf spot Powdery mildew Rust	<i>Taphrina</i> <i>Cercospora, Septoria</i> <i>Uncinula</i> <i>Melampsora</i>
Crabapple	Leaf spot Powdery mildew Rust Scab	<i>Sphaeropsis</i> <i>Podosphaera</i> <i>Gymnosporangium</i> <i>Venturia</i>
Crape myrtle	Bacterial leaf spot Leaf spot Powdery mildew Root rot	<i>Xanthomonas</i> <i>Cercospora, Pestalotia, Phyllosticta</i> <i>Erysiphe, Phyllactinia</i> <i>Armillaria, Phytophthora, Pythium, Rhizoctonia</i>
Crassula	Leaf spot Powdery mildew Root rot	<i>Cercospora, Phomopsis</i> <i>Spaerotheca</i> <i>Phytophthora, Pythium</i>
Croton	Root rot	<i>Fusarium, Phytophthora, Rhizoctonia, Thielaviopsis</i>
Crown vetch	Anthraxnose Leaf spot	<i>Colletotrichum</i> <i>Cercospora</i>
Cycas or cycad	Root rot	<i>Phytophthora</i>

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Cypress	Canker Needle blight Root and crown rot Root rot Twig blight	<i>Seiridium</i> <i>Cercospora</i> <i>Armillaria</i> <i>Phytophthora</i> <i>Phomopsis</i>
Daffodil	Bulb rot Leaf scorch Root rot	<i>Fusarium, Penicillium</i> <i>Stagnospora</i> <i>Phytophthora, Rhizoctonia</i>
Dahlia	Blight Leaf spot Powdery mildew Root rot	<i>Botrytis</i> <i>Cercospora</i> <i>Erysiphe</i> <i>Phytophthora, Pythium, Rhizoctonia</i>
Daisy	Gray mold Leaf spot Powdery mildew Ray blight Rust Stem Rot	<i>Botrytis</i> <i>Cercospora, Phyllosticta, Septoria</i> <i>Erysiphe</i> <i>Mycosphaerella</i> <i>Puccinia</i> <i>Fusarium, Rhizoctonia, Sclerotinia</i>
Daphne	Leaf spot Root rot Stem rot	<i>Gloeosporium</i> <i>Phytophthora, Pythium</i> <i>Sclerotinia</i>
Daylily	Anthracnose Blight Leaf spot Root and stem rot Rust	<i>Colletotrichum</i> <i>Botrytis</i> <i>Cercospora, Phomopsis</i> <i>Fusarium, Phytophthora, Rhizoctonia</i> <i>Puccinia</i>
Delphinium	Gray mold Leaf spot Powdery mildew Root rot Rust Stem rot	<i>Botrytis</i> <i>Ascochyta, Cercospora, Phyllosticta</i> <i>Erysiphe</i> <i>Phytophthora, Pythium, Rhizoctonia</i> <i>Puccinia</i> <i>Rhizoctonia, Sclerotinia</i>
Deutzia	Leaf spot Root rot	<i>Cercospora</i> <i>Rhizoctonia</i>
Dianthus	Root rot Rust	<i>Fusarium, Phytophthora, Pythium, Rhizoctonia</i> <i>Uromyces</i>
Dieffenbachia	Bacterial stem rot Leaf spot Root rot	<i>Erwinia</i> <i>Leptosphaeria</i> <i>Phytophthora, Pythium, Rhizoctonia</i>
Dogwood	Blight Leaf spot Powdery mildew Root rot	<i>Cercospora</i> <i>Septoria</i> <i>Microsphaera, Phyllactinia</i> <i>Phytophthora, Pythium, Rhizoctonia</i>
Dracaena	Leaf spot Root rot	<i>Fusarium</i> <i>Phytophthora, Pythium, Rhizoctonia</i>
Duranta skyflower	Leaf spot	<i>Cercospora</i>
Dusty miller	Root rot	<i>Fusarium, Phytophthora, Pythium, Rhizoctonia,</i> <i>Thielaviopsis</i>
Dutch iris	Bulb rot	<i>Sclerotium</i>
Dwarf bamboo	Leaf spot Rust	<i>Corynespora</i> <i>Puccinia</i>

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Easter lily	Bulb rot Root rot	<i>Fusarium</i> , <i>Penicillium</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Echeveria	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Elaeagnus	Leaf spot Root rot Stem canker Twig dieback Tip blight	<i>Cercospora</i> <i>Phytophthora</i> <i>Phytophthora</i> <i>Fusarium</i> <i>Gloeosporium</i>
Elm	Anthraxnose Bacterial leaf scorch Leaf spot Powdery mildew Root rot	<i>Gloeosporium</i> <i>Xylella fastidiosa</i> <i>Cercospora</i> , <i>Gnomonia</i> <i>Microsphaera</i> , <i>Phyllactinia</i> , <i>Uncinula</i> <i>Armillaria</i> , <i>Phytophthora</i>
Euonymus	Anthraxnose Leaf spot Powdery mildew Root rot	<i>Colletotrichum</i> <i>Cercospora</i> , <i>Phyllosticta</i> , <i>Ramularia</i> , <i>Septoria</i> <i>Microsphaera</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Farkleberry	Leaf spot	<i>Septoria</i>
Fatsia	Anthraxnose Leaf spot Root rot	<i>Colletotrichum</i> <i>Alternaria</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Ferns	Blight Gray mold Leaf spot Root rot	<i>Rhizoctonia</i> <i>Botrytis</i> <i>Cercospora</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Fern (Japanese holly fern)	Mosaic	<i>Japanese holly fern mosaic virus</i>
Festuca	Leaf spot Root rot Rust	<i>Ascochyta</i> , <i>Septoria</i> <i>Rhizoctonia</i> <i>Puccinia</i>
Ficus	Leaf spot Root rot	<i>Cercospora</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Firethorn	Scab	<i>Fusicladium</i>
Fittonia	Root rot	<i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Forget-me-not	Gray mold Powdery mildew Rust	<i>Botrytis</i> <i>Erysiphe</i> <i>Puccinia</i>
Forsythia	Anthraxnose Leaf spot Root rot	<i>Gloeosporium</i> <i>Alternaria</i> <i>Rhizoctonia</i>
Four o'clock	Leaf spot Rust Stem Rot	<i>Cercospora</i> <i>Puccinia</i> <i>Rhizoctonia</i>
Foxglove	Leaf spot Root rot Stem Rot	<i>Colletotrichum</i> , <i>Phyllosticta</i> <i>Phytophthora</i> , <i>Pythium</i> <i>Rhizoctonia</i>
Fringe-tree	Leaf spot Powdery mildew	<i>Cercospora</i> , <i>Septoria</i> <i>Phyllactinia</i>

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Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Fuchsia	Blight Dieback Leaf spot Rust	<i>Botrytis</i> <i>Phomopsis</i> <i>Septoria</i> <i>Pucciniastrum</i>
Gaillardia	Leaf spot Powdery mildew Root rot	<i>Septoria</i> <i>Erysiphe</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Gardenia	Anthraxnose Canker Leaf spot Petals blight Powdery mildew Root rot	<i>Colletotrichum</i> <i>Phomopsis</i> <i>Cercospora</i> <i>Botrytis</i> <i>Erysiphe</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Geranium	Blight Powdery mildew Root rot Rust	<i>Botrytis</i> <i>Erysiphe</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Puccinia</i>
Gerbera	Powdery mildew Root rot	<i>Erysiphe</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Ginkgo	Anthraxnose	<i>Colletotrichum</i>
Gladiolus	Corm rot Damping-off Flower spot Leaf spot Neck dry rot	<i>Fusarium</i> , <i>Penicillium</i> <i>Fusarium</i> , <i>Rhizoctonia</i> <i>Botrytis</i> <i>Curvularia</i> , <i>Stemphylium</i> <i>Sclerotium</i>
Gloxinia	Root rot	<i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Golden dewdrop (<i>Duranta erecta</i>)	Leaf blight	<i>Xanthomonas</i>
Golden rain	Leaf spot	<i>Cercospora</i>
Grapeleaf ivy	Anthraxnose Leaf spot Powdery mildew	<i>Colletotrichum</i> <i>Cercospora</i> <i>Oidium</i>
Gynura	Root rot	<i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Gypsophila	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Hackberry	Leaf spot Powdery mildew	<i>Phyllosticta</i> <i>Uncinula</i>
Halesia	Leaf spot	<i>Cercospora</i>
Hawthorne	Fire blight Leaf spot Powdery mildew Root rot Rust Scab Stem canker	<i>Erwinia amylovora</i> <i>Fabraea</i> <i>Phyllactinia</i> , <i>Podosphaera</i> <i>Rhizoctonia</i> <i>Gymnosporangium</i> <i>Venturia</i> <i>Fusarium</i>
Heather	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Hen and chickens	Leaf spot Root rot	<i>Cercospora</i> <i>Fusarium</i> , <i>Rhizoctonia</i>

Commercial Crop Production Ornamentals

Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Hibiscus	Anthracnose Gray mold Leaf spot Powdery mildew Root rot Rust Stem rot	<i>Colletotrichum</i> <i>Botrytis</i> <i>Cercospora</i> , <i>Phyllosticta</i> <i>Erysiphe</i> , <i>Microsphaera</i> <i>Phytophthora</i> , <i>Pythium</i> <i>Kuehneola</i> <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Sclerotinia</i>
Hickory	Anthracnose Leaf spot Powdery mildew	<i>Gnomonia</i> <i>Cercospora</i> , <i>Septoria</i> <i>Microsphaera</i>
Holly	Leaf spot Powdery mildew Purple spot Root rot Stem canker Twig dieback Web blight	<i>Gloeosporium</i> , <i>Phyllosticta</i> <i>Microsphaera</i> <i>Cercospora</i> <i>Phytophthora</i> , <i>Rhizoctonia</i> <i>Botryodiplodia</i> <i>Phoma</i> <i>Rhizoctonia</i>
Hollyhock	Anthracnose Leaf spot Petal blight Powdery mildew Rust	<i>Colletotrichum</i> <i>Ascochyta</i> , <i>Cercospora</i> <i>Botrytis</i> <i>Erysiphe</i> <i>Puccinia</i>
Honey locust	Leaf spot Powdery mildew	<i>Cercospora</i> <i>Microsphaera</i>
Honeysuckle	Blight Leaf spot Powdery mildew Root rot	<i>Herpobasidium</i> <i>Corynespora</i> , <i>Phyllosticta</i> <i>Microsphaera</i> <i>Phytophthora</i> , <i>Pythium</i>
Hornbeam	Leaf Blister Powdery mildew	<i>Taphrina</i> <i>Microsphaera</i> , <i>Phyllactinia</i>
Hosta	Crown rot Leaf spot Stem rot	<i>Botrytis</i> <i>Colletotrichum</i> , <i>Phyllosticta</i> <i>Rhizoctonia</i>
Hoya	Root rot	<i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Huckleberry	Leaf spot	<i>Phyllosticta</i>
Hyacinth	Black rot	<i>Sclerotinia</i>
Hydrangea	Blight Leaf spot Powdery mildew Root rot Rust	<i>Botrytis</i> <i>Ascochyta</i> , <i>Cercospora</i> , <i>Colletotrichum</i> , <i>Phyllosticta</i> , <i>Septoria</i> <i>Erysiphe</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i> <i>Pucciniastrum</i>
Ilex	Root rot	<i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Impatiens	Downy mildew Leaf spot Root rot	<i>Plasmopara obducens</i> <i>Cercospora</i> , <i>Septoria</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>

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Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Iris	Anthracnose Blossom blight Bulb rot Crown rot Leaf spot Root rot Rust	<i>Colletotrichum</i> <i>Botrytis</i> <i>Fusarium, Penicillium</i> <i>Pellicularia</i> <i>Didymellina</i> <i>Rhizoctonia</i> <i>Puccinia</i>
Iris, African	Root rot	<i>Phytophthora</i>
Ivy	Bacterial leaf spot Blight Root rot	<i>Xanthomonas</i> <i>Colletotrichum</i> <i>Fusarium, Phytophthora, Pythium, Rhizoctonia, Thielaviopsis</i>
Ivy, Algerian	Root rot	<i>Phytophthora, Pythium</i>
Ivy, English	Gray mold Leaf spot Powdery mildew Root rot Stem rot	<i>Botrytis</i> <i>Cercospora, Colletotrichum</i> <i>Erysiphe</i> <i>Phytophthora, Pythium, Rhizoctonia</i> <i>Fusarium, Rhizoctonia</i>
Japanese plum (<i>Prunus</i> sp.)	Anthracnose Bacterial leaf scorch Leaf spot Scab	<i>Colletotrichum</i> <i>Xylella fastidiosa</i> <i>Septoria</i> <i>Fusicladium</i>
Japanese yew	Leaf spot Root rot	<i>Cercospora, Phomopsis</i> <i>Armillaria, Phytophthora</i>
Jasmine	Leaf spot Root rot Stem canker	<i>Colletotrichum</i> <i>Phytophthora</i> <i>Phoma</i>
Java	Leaf spot	<i>Cercospora, Septoria</i>
Jerusalem cherry	Anthracnose Leaf spot Stem rot	<i>Colletotrichum</i> <i>Phyllosticta</i> <i>Rhizoctonia</i>
Jerusalem thorn	Dieback Leaf spot Powdery mildew	<i>Phomopsis</i> <i>Phyllosticta</i> <i>Erysiphe</i>
Jujube	Leaf spot Rust	<i>Cercospora</i> <i>Phakopsora</i>
Juniper	Blight Leaf spot Root rot Rust	<i>Phomopsis</i> <i>Cercospora</i> <i>Phytophthora, Pythium, Rhizoctonia</i> <i>Gymnosporangium</i>
Justica	Anthracnose Leaf spot	<i>Colletotrichum</i> <i>Cercospora, Corynespora</i>
Kalanchoe	Leaf spot Powdery mildew Root rot	<i>Cercospora</i> <i>Sphaerotheca</i> <i>Phytophthora, Pythium, Rhizoctonia</i>
Lantana	Leaf spot Root rot Rust	<i>Colletotrichum</i> <i>Rhizoctonia</i> <i>Puccinia</i>
Larkspur	Root rot Stem rot	<i>Phytophthora, Pythium</i> <i>Rhizoctonia</i>
Lavender	Root rot	<i>Phytophthora</i>

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Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Leatherleaf fern	Blight Leaf spot	<i>Ascochyta</i> , <i>Rhizoctonia</i> <i>Cercospora</i> , <i>Cylindrocladium</i>
Leopard plant	Root rot	<i>Rhizoctonia</i>
Leucothoe	Leaf spot Root rot	<i>Cercospora</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Liatris	Leaf spot Rust	<i>Phyllosticta</i> , <i>Septoria</i> <i>Coleosporium</i> , <i>Puccinia</i>
Ligularia	Root rot Stem rot	<i>Rhizoctonia</i> <i>Rhizoctonia</i>
Ligustrum	Leaf spot Powdery mildew Root rot Twig canker Web blight	<i>Cercospora</i> <i>Microsphaera</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i> <i>Botryodiplodia</i> <i>Rhizoctonia</i>
Lily	Blight Gray mold Root rot	<i>Phytophthora</i> <i>Botrytis</i> <i>Rhizoctonia</i>
Linden	Anthrachnose Leaf spot	<i>Gloeosporium</i> <i>Cercospora</i>
Lipstick	Leaf spot	<i>Cercospora</i>
Liriope	Anthrachnose Crown rot Leaf and crown rot Leaf spot Root rot	<i>Colletotrichum</i> <i>Fusarium</i> <i>Phytophthora</i> <i>Cercospora</i> <i>Fusarium</i> , <i>Rhizoctonia</i>
Lobelia	Leaf spot Root rot	<i>Cercospora</i> , <i>Septoria</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Locust, black	Anthrachnose Leaf spot Powdery mildew	<i>Colletotrichum</i> <i>Cercospora</i> <i>Microsphaera</i>
Loquat	Bacterial leaf scorch Fire blight Root rot Twig dieback	<i>Xylella fastidiosa</i> <i>Erwinia amylovora</i> <i>Armillaria</i> <i>Botryodiplodia</i>
Loropetalum	Bacterial stem gall Root rot	<i>Pseudomonas</i> <i>Armillaria</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Lupine	Gray mold Leaf spot Powdery mildew Rust Stem rot	<i>Botrytis</i> <i>Cercospora</i> , <i>Ramularia</i> <i>Erysiphe</i> <i>Uromyces</i> <i>Fusarium</i> , <i>Rhizoctonia</i>
Magnolia	Algal leaf spot Leaf spot Spot anthracnose Root rot Tip dieback	<i>Cephaleuros</i> <i>Cercospora</i> , <i>Colletotrichum</i> , <i>Gloeosporium</i> , <i>Septoria</i> <i>Elsinoe</i> <i>Armillaria</i> , <i>Phytophthora</i> , <i>Pythium</i> <i>Phoma</i>
Mahonia	Leaf spot	<i>Cercospora</i> , <i>Phyllosticta</i>
Maiden Grass	Sheath blight	<i>Sclerotinia</i>

Commercial Crop Production Ornamentals

Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Maple	Anthrachnose Leaf spot Powdery mildew Root rot	<i>Gloeosporium</i> <i>Alternaria</i> , <i>Phyllosticta</i> <i>Uncinula</i> <i>Phytophthora</i> , <i>Pythium</i>
Maranta	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Marigold	Head blight Leaf spot Root rot Rust Stem rot	<i>Botrytis</i> <i>Ascochyta</i> , <i>Cercospora</i> , <i>Septoria</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Puccinia</i> <i>Fusarium</i> , <i>Rhizoctonia</i>
Mimosa	Leaf spot	<i>Cercospora</i>
Mock orange	Blight Leaf spot Powdery mildew Rust	<i>Botrytis</i> <i>Cercospora</i> <i>Phyllactinia</i> <i>Gymnosporangium</i>
Mondo grass (<i>Ophiopogon</i> sp.)	Anthrachnose Leaf and crown rot Root rot	<i>Colletotrichum</i> <i>Phytophthora</i> <i>Rhizoctonia</i>
Morning glory	Leaf spot Rust	<i>Cercospora</i> <i>Coleosporium</i> , <i>Puccinia</i>
Mulberry	Bacterial leaf scorch Leaf spot Powdery mildew Rust	<i>Xylella fastidiosa</i> <i>Cercospora</i> <i>Uncinula</i> <i>Cerotelium</i>
Mulberry, French	Leaf spot	<i>Cercospora</i>
Nandina	Anthrachnose Bacterial leaf scorch Leaf spot	<i>Glomerella</i> <i>Xylella fastidiosa</i> <i>Cercospora</i>
Narcissus	Blight Root rot	<i>Botrytis</i> <i>Rhizoctonia</i>
Nasturium	Gray mold Leaf spot Root rot	<i>Botrytis</i> <i>Cercospora</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Natal plum	Anthrachnose Blight Leaf spot Powdery mildew	<i>Colletotrichum</i> <i>Rhizoctonia</i> <i>Phyllosticta</i> <i>Oidium</i>
Nematanthus	Root rot	<i>Phytophthora</i>
Nemesia	Necrotic spot	<i>Impatiens necrotic spot virus</i>
Nephrolepis	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Nephthytis	Leaf spot Root rot	<i>Cephalosporium</i> <i>Phytophthora</i> , <i>Pythium</i>
Norfolk island pine	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Oak	Anthrachnose Bacterial flux Bacterial leaf scorch Heart rot Leaf blister Leaf spot Powdery mildew	<i>Gloeosporium</i> <i>Bacteria</i> <i>Xylella fastidiosa</i> <i>Ganoderma</i> , <i>Polyporus</i> <i>Taphrina</i> <i>Actinopelte</i> , <i>Cercospora</i> , <i>Septoria</i> <i>Erysiphe</i> , <i>Microsphaera</i> , <i>Phyllactinia</i> , <i>Sphaerotheca</i>

Commercial Crop Production

Ornamentals

Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
	Rust	<i>Cronartium</i>
Oleander	Anthracnose Bacterial leaf scorch Leaf spot Spot anthracnose	<i>Gloeosporium</i> <i>Xylella fastidiosa</i> <i>Cercospora</i> , <i>Septoria</i> <i>Sphaceloma</i>
Orchid	Black rot Blossom blight Root rot	<i>Phytophthora</i> <i>Botrytis</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i>
Orchid (<i>Phalaenopsis</i> sp.)	Mosaic	<i>Cymbidium mosaic virus</i>
Oregon grape	Leaf spot Rust	<i>Cercospora</i> <i>Puccinia</i>
Osage orange	Gray mold Leaf spot Rust	<i>Botrytis</i> <i>Cercospora</i> , <i>Ovularia</i> <i>Cerotelium</i>
Osmanthus	Bacterial leaf scorch Leaf spot	<i>Xylella fastidiosa</i> <i>Phyllosticta</i> , <i>Septoria</i>
Oyster plant	Leaf spot	<i>Cercospora</i> , <i>Colletotrichum</i> , <i>Curvularia</i>
Oxalis	Rust	<i>Puccinia</i>
Pachysandra	Blight Leaf spot Stem rot	<i>Volutella</i> <i>Phyllosticta</i> <i>Rhizoctonia</i>
Palm, Canary Island Date	Rachis blight Date palm lethal decline Wilt	<i>Botryodiplodia</i> , <i>Serenomyces</i> <i>Candidatus Phytoplasma palmae</i> <i>Fusarium oxysporum</i> f. sp. <i>canariensis</i>
Palm, Date	Heart rot Date palm lethal decline	<i>Ganoderma</i> <i>Candidatus Phytoplasma palmae</i>
Palm, Fan	Bud rot	<i>Phytophthora</i>
Palm, Parlor	Leaf spot	<i>Helminthosporium</i>
Palm, Sabal	Leaf spot Date palm lethal decline Heart rot Root rot	<i>Ascochyta</i> , <i>Phyllosticta</i> <i>Candidatus Phytoplasma palmae</i> <i>Ganoderma</i> <i>Rhizoctonia</i>
Palm, Sylvester	Leaf spot Lethal yellowing	<i>Graphiola</i> <i>Candidatus Phytoplasma palmae</i>
Palm, Washingtonia	Leaf spot	<i>Cercospora</i> , <i>Colletotrichum</i>
Palm, Windmill	Bud or heart rot	<i>Phytophthora</i>
Palm, Chinese Windmill	Date palm lethal decline Lethal yellowing	<i>Candidatus Phytoplasma palmae</i> <i>Candidatus Phytoplasma palmae</i>
Pansy	Anthracnose Blight Downy mildew Leaf spot Powdery mildew Root rot Rust Stem rot	<i>Colletotrichum</i> <i>Botrytis</i> <i>Peronospora</i> <i>Alternaria</i> , <i>Cercospora</i> , <i>Phyllosticta</i> , <i>Septoria</i> , <i>Sphaerotheca</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i> <i>Puccinia</i> <i>Rhizoctonia</i>
Partridge berry	Stem rot	<i>Rhizoctonia</i>
Paulownia	Leaf spot Powdery mildew	<i>Phyllosticta</i> <i>Phyllactinia</i> , <i>Uncinula</i>

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Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Pawpaw	Leaf spot	<i>Phyllosticta</i> , <i>Septoria</i>
Pearl bush	Fire blight	<i>Erwinia amylovora</i>
Pear, flowering	Bacterial leaf scorch Fire blight Powdery mildew	<i>Xylella fastidiosa</i> <i>Erwinia amylovora</i> <i>Podosphaera</i>
Pentas	Leaf spot Powdery mildew Stem rot	<i>Cercospora</i> , <i>Corynespora</i> , <i>Phyllosticta</i> <i>Oidium</i> <i>Fusarium</i> , <i>Rhizoctonia</i>
Peony	Aerial blight Blossom blight Leaf spot	<i>Phytophthora</i> <i>Botrytis</i> <i>Alternaria</i>
Peperomia	Leaf spot Root rot	<i>Cercospora</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Periwinkle	Gray mold Leaf spot Root rot Web blight	<i>Botrytis</i> <i>Colletotrichum</i> , <i>Phyllosticta</i> <i>Phytophthora</i> , <i>Rhizoctonia</i> <i>Rhizoctonia</i>
Persimmon	Anthraxnose Powdery mildew	<i>Gloeosporium</i> <i>Podosphaera</i>
Petunia	Aerial blight Gray mold Leaf spot Powdery mildew Root rot	<i>Phytophthora</i> <i>Botrytis</i> <i>Ascochyta</i> , <i>Cercospora</i> <i>Oidium</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Philodendron	Aerial blight Bacterial Leaf spot Leaf spot Root rot	<i>Phytophthora</i> <i>Erwinia</i> <i>Dactylaria</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Phlox	Anthraxnose Powdery mildew Root rot Rust Southern blight Stem Rot	<i>Colletotrichum</i> <i>Erysiphe</i> <i>Phytophthora</i> , <i>Pythium</i> <i>Puccinia</i> <i>Sclerotium rolfsii</i> <i>Rhizoctonia</i>
Phlox, perennial	Gray mold Leaf spot Powdery mildew Rust Stem rot	<i>Botrytis</i> <i>Cercospora</i> , <i>Septoria</i> <i>Erysiphe</i> <i>Puccinia</i> , <i>Uromyces</i> <i>Rhizoctonia</i> , <i>Sclerotinia</i>
Photinia	Leaf spot Powdery mildew Root rot Rust Twig dieback	<i>Cercospora</i> , <i>Entomosporium</i> <i>Oidium</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i> <i>Gymnosporangium</i> <i>Botryodiplodia</i>
Pieris	Dieback Leaf spot Root rot	<i>Phytophthora</i> <i>Phyllosticta</i> <i>Phytophthora</i> , <i>Pythium</i>
Pilea	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Pink	Gray mold Leaf spot Root rot Stem rot	<i>Botrytis</i> <i>Septoria</i> <i>Phytophthora</i> , <i>Pythium</i> <i>Rhizoctonia</i>

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Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Pine	Blight Brown spot Canker Needle cast Root rot Rust Tip blight Wilt	<i>Lophodermella</i> <i>Scirrhia</i> <i>Scleroderris</i> <i>Lophodermium</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Cronartium</i> <i>Sirococcus</i> Pine wilt nematode
Pineapple guava	Leaf spot	<i>Cercospora</i>
Pittosporum	Leaf spot Root rot	<i>Cercospora</i> , <i>Phyllosticta</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Plane-tree	Powdery mildew	<i>Microsphaera</i>
Plumbago	Leaf spot Powdery mildew	<i>Cercospora</i> <i>Oidium</i>
Podocarpus	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Poinsettia	Blight Root rot Scab	<i>Amphobotrys</i> , <i>Botrytis</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Sphaceloma</i>
Pomegranate	Anthraxnose Spot anthracnose	<i>Colletotrichum</i> <i>Sphaceloma</i>
Poplar	Leaf spot Powdery mildew Rust	<i>Marssonina</i> <i>Uncinula</i> <i>Melampsora</i>
Poppy	Gray mold Leaf spot Stem rot	<i>Botrytis</i> <i>Cercospora</i> <i>Rhizoctonia</i>
Portulaca	Root rot Stem rot	<i>Phytophthora</i> , <i>Pythium</i> <i>Rhizoctonia</i>
Potentilla	Rust	<i>Phragmidium</i>
Pothos	Leaf spot Root rot	<i>Alternaria</i> , <i>Fusarium</i> , <i>Helminthosporium</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Prayer plant	Leaf spot	<i>Helminthosporium</i>
Primrose	Blight Root rot	<i>Botrytis</i> <i>Phytophthora</i> , <i>Pythium</i>
Privet	Leaf spot Powdery mildew	<i>Cercospora</i> <i>Microsphaera</i>
Pyracantha	Fire blight Leaf spot Powdery mildew Scab	<i>Erwinia amylovora</i> <i>Fabraea</i> <i>Podosphaera</i> <i>Venturia</i>
Quince	Leaf spot Rust	<i>Fabraea</i> <i>Gymnosporangium</i>
Redbud	Leaf spot	<i>Cercospora</i>
Rose	Black spot Blossom blight Crown gall Crown rot Downy mildew Leaf spot Powdery mildew	<i>Diplocarpon</i> <i>Botrytis</i> <i>Agrobacterium tumefaciens</i> <i>Phytophthora</i> <i>Peronospora sparsa</i> <i>Alternaria</i> , <i>Cercospora</i> <i>Sphaerotheca</i>

Commercial Crop Production Ornamentals

Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
	Root rot Rust Rose rosette disease Spot anthracnose Stem canker Storage rot	<i>Armillaria, Phytophthora, Pythium, Rhizoctonia</i> <i>Phragmidium</i> <i>Rose rosette virus</i> <i>Elsinoe</i> <i>Botryodiplodia</i> <i>Botrytis</i>
Rose of Sharon	Leaf spot	<i>Cercospora, Cristulariella, Phyllosticta</i>
Rudbeckia	Leaf spot Powdery mildew Rust	<i>Cercospora, Septoria</i> <i>Erysiphe</i> <i>Uromyces</i>
Russian olive	Leaf spot Rust Stem canker	<i>Cercospora</i> <i>Puccinia</i> <i>Phytophthora</i>
Sage, Texas	Powdery mildew	<i>Oidium</i>
St. John's-wort	Rust	<i>Uromyces</i>
Salvia	Blight Downy mildew Leaf spot Mosaic Root rot Root and stem rot Rust	<i>Botrytis</i> <i>Peronospora</i> <i>Cercospora</i> <i>Clerodendron golden mosaic China virus</i> <i>Phytophthora, Pythium</i> <i>Rhizoctonia</i> <i>Puccinia</i>
Sansevieria	Anthrachnose Root rot	<i>Colletotrichum</i> <i>Phytophthora, Pythium</i>
Santolina	Blight	<i>Rhizoctonia</i>
Sassafras	Leaf spot Laurel wilt Powdery mildew	<i>Phyllosticta, Septoria</i> <i>Raffaelea lauricola</i> <i>Phyllactinia</i>
Scabiosa	Leaf spot Powdery mildew Rust	<i>Cercospora, Ramularia, Septoria</i> <i>Erysiphe</i> <i>Puccinia</i>
Schefflera	Anthrachnose Blight Leaf spot Root rot Twig Blight	<i>Colletotrichum</i> <i>Alternaria</i> <i>Cercospora</i> <i>Phytophthora, Pythium, Rhizoctonia</i> <i>Pestalotia, Phomopsis</i>
Sedum	Anthrachnose Leaf spot Powdery mildew Root rot Stem rot	<i>Colletotrichum</i> <i>Cercospora, Corynespora, Phyllosticta, Septoria</i> <i>Erysiphe</i> <i>Phytophthora, Pythium</i> <i>Fusarium, Rhizoctonia</i>
Seedlings (general)	Damping-off	<i>Pythium, Rhizoctonia</i>
Sempervivum	Root rot	<i>Phytophthora, Pythium</i>
Shasta daisy	Root rot	<i>Phytophthora, Pythium</i>
Sinningia	Root rot	<i>Phytophthora, Pythium</i>

Commercial Crop Production

Ornamentals

Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Snapdragon	Blight Downy mildew Leaf spot Powdery mildew Root rot Rust Stem rot White mold	<i>Botrytis</i> <i>Peronospora</i> <i>Cercospora</i> , <i>Colletotrichum</i> , <i>Phyllosticta</i> <i>Erysiphe</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i> <i>Puccinia</i> <i>Rhizoctonia</i> <i>Sclerotinia sclerotiorum</i>
Sourwood	Leaf spot	<i>Cercospora</i> , <i>Phyllosticta</i>
Spathiphyllum	Leaf spot Root rot Stem blight	<i>Alternaria</i> , <i>Colletotrichum</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Rhizoctonia</i>
Spider plant	Downy mildew Leaf spot	<i>Peronospora</i> <i>Cercospora</i>
Spiraea	Leaf spot Powdery mildew	<i>Cercospora</i> <i>Podosphaera</i>
Star magnolia	Leaf spot	<i>Cercospora</i> , <i>Colletotrichum</i> , <i>Phyllosticta</i>
Statice	Anthracnose Leaf blight Leaf spot Root rot	<i>Colletotrichum</i> <i>Alternaria</i> , <i>Botrytis</i> , <i>Cercospora</i> <i>Alternaria</i> , <i>Botrytis</i> , <i>Fusarium</i> , <i>Helminthosporium</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Stock	Gray mold Leaf spot White rust	<i>Botrytis</i> <i>Alternaria</i> <i>Albugo</i>
Stokesia	Head blight Leaf spot	<i>Botrytis</i> <i>Ascochyta</i> , <i>Cercospora</i> , <i>Phyllosticta</i>
Strawberry geranium	Leaf spot	<i>Cercospora</i>
Strawflower	Downy mildew	<i>Bremia</i>
Stromanthe	Root rot	<i>Phytophthora</i> , <i>Pythium</i>
Sumac	Leaf blister Leaf spot Rust	<i>Taphrina</i> <i>Cercospora</i> , <i>Septoria</i> <i>Pileolaria</i>
Sunflower	Downy mildew Leaf and stem blight Leaf spot Powdery mildew Rust	<i>Plasmopara</i> <i>Alternariaster helianthi</i> <i>Cercospora</i> , <i>Septoria</i> <i>Erysiphe</i> <i>Puccinia</i>
Swamp red maple	Root rot	<i>Phytophthora</i>
Sweet gum	Anthracnose Leaf spot	<i>Gloeosporium</i> <i>Cercospora</i> , <i>Septoria</i>
Sweet olive	Anthracnose Bacterial leaf scorch Root rot	<i>Colletotrichum</i> <i>Xylella fastidiosa</i> <i>Phytophthora</i>
Sweet pea	Downy mildew Gray mold Leaf spot Powdery mildew Rust Stem rot	<i>Peronospora</i> <i>Botrytis</i> <i>Ascochyta</i> , <i>Colletotrichum</i> , <i>Phyllosticta</i> <i>Erysiphe</i> , <i>Microsphaera</i> <i>Uromyces</i> <i>Rhizoctonia</i>

Commercial Crop Production Ornamentals

Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Sweet william	Leaf spot	<i>Heterosporium</i>
Sycamore	Anthraxnose Leaf spot	<i>Gloeosporium</i> <i>Cercospora</i> , <i>Septoria</i> , <i>Tubakia</i>
Syngonium	Leaf spot Root rot	<i>Cephalosporium</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>
Tallow	Leaf spot	<i>Phomopsis</i> , <i>Phyllosticta</i>
Tecoma	Root rot	<i>Phytophthora</i>
Titi	Leaf spot Root rot	<i>Phyllosticta</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i>
Tritoma	Anthraxnose	<i>Colletotrichum</i>
Tuberous begonia	Leaf spot Powdery mildew Rot	<i>Cercospora</i> , <i>Phomopsis</i> , <i>Phyllosticta</i> <i>Erysiphe</i> <i>Pythium</i> , <i>Rhizoctonia</i>
Tulips	Anthraxnose Blight Bulb rot Root rot	<i>Gloeosporium</i> <i>Botrytis</i> <i>Fusarium</i> , <i>Penicillium</i> <i>Rhizoctonia</i>
Tulip poplar	Anthraxnose Leaf spot Powdery mildew	<i>Colletotrichum</i> <i>Phyllosticta</i> , <i>Septoria</i> <i>Oidium</i>
Tung oil	Anthraxnose Leaf spot	<i>Glomerella</i> <i>Cercospora</i> , <i>Phyllosticta</i>
Tupelo	Leaf spot Rust	<i>Cercospora</i> , <i>Phyllosticta</i> <i>Aplopsora</i>
Turkey ivy	Leaf spot	<i>Ramularia</i> , <i>Septoria</i>
Verbena	Flower blight Leaf spot Powdery mildew Root rot Rust	<i>Botrytis</i> <i>Cercospora</i> , <i>Septoria</i> <i>Erysiphe</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Puccinia</i>
Viburnum	Anthraxnose Leaf spot Powdery mildew Rust Stem canker	<i>Colletotrichum</i> <i>Cercospora</i> <i>Microsphaera</i> <i>Puccinia</i> <i>Botryosphaeria</i>
Vinca	Flower blight Root rot Slime mold Web blight	<i>Botrytis</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Stemonitis</i> <i>Rhizoctonia</i>
Violet	Downy mildew Gray mold Leaf spot Powdery mildew Root rot Rust Spot anthracnose Stem rot	<i>Bremiella</i> <i>Botrytis</i> <i>Cercospora</i> , <i>Colletotrichum</i> , <i>Phyllosticta</i> <i>Sphaerotheca</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Puccinia</i> <i>Sphaceloma</i> <i>Fusarium</i> , <i>Rhizoctonia</i>
Vitex	Leaf spot	<i>Cercospora</i>
Walnut	Leaf spot Powdery mildew	<i>Gnomonia</i> <i>Microsphaera</i>

Commercial Crop Production Ornamentals

Ornamental Plant (Latin Name)	Diseases	Pathogen (Genus)
Wandering yew	Gray mold Leaf spot Root rot	<i>Botrytis</i> <i>Cercospora</i> , <i>Colletotrichum</i> <i>Fusarium</i> , <i>Phytophthora</i> , <i>Rhizoctonia</i>
Wax myrtle	Leaf spot Rust	<i>Cercospora</i> , <i>Phyllosticta</i> , <i>Septoria</i> <i>Gymnosporangium</i>
Weigela	Leaf spot	<i>Cercospora</i>
Willow	Powdery mildew Rust Twig blight	<i>Uncinula</i> <i>Melampsora</i> <i>Diplodia</i>
Witch hazel	Leaf spot Powdery mildew	<i>Phyllosticta</i> <i>Podosphaera</i>
Yarrow	Anthracnose Powdery mildew Root rot Rust	<i>Colletotrichum</i> <i>Erysiphe</i> <i>Rhizoctonia</i> <i>Puccinia</i>
Yaupon	Anthracnose Leaf spot	<i>Colletotrichum</i> <i>Diplodia</i> , <i>Macrophoma</i> , <i>Phyllosticta</i>
Yew	Root rot Twig blight	<i>Armillaria</i> , <i>Phytophthora</i> , <i>Pythium</i> <i>Physalospora</i>
Yucca	Anthracnose	<i>Colletotrichum</i>
Zinnia	Bacterial leaf spot Blight Leaf blight Leaf spot Powdery mildew Root rot Stem rot	<i>Xanthomonas</i> <i>Botrytis</i> <i>Alternaria</i> <i>Cercospora</i> <i>Erysiphe</i> <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Sclerotinia</i>
Zygocactus	Root rot	<i>Fusarium</i> , <i>Phytophthora</i> , <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Thielaviopsis</i>

Commercial Crop Production Ornamentals

Table 2. Diseases of ornamentals and fungicides and bactericides for disease management

Disease	Fungicides and Bactericides
Aerial blight <i>(Phytophthora)</i>	aluminum tris azoxystrobin boscalid + pyraclostrobin chlorothalonil copper hydroxide cyazofamid dimethomorph maneb mancozeb phosphite trifloxystrobin
Aerial blight <i>(Rhizoctonia)</i>	chlorothalonil fludioxonil flutolanil iprodione mancozeb mclobutanil propiconazole triflumizole
Algal eaf spot <i>(Cephaleurus)</i>	copper hydroxide copper sulfate
Anthracnose	azoxystrobin boscalid + pyraclostrobin chlorothalonil copper hydroxide copper sulfate kresoxim-methyl mancozeb maneb myclobutanil propiconazole thiophanate-methyl trifloxystrobin
Bacterial blight	aluminum tris (suppression only) copper hydroxide copper sulfate phosphite (suppression only)
Bacterial leaf rot	streptomycin sulfate
Bacterial leaf spot	copper hydroxide copper sulfate
Bacterial stem rot	streptomycin sulfate
Bacterial wilt	streptomycin sulfate
Black root rot	fludioxonil thiophanate-methyl trifloxystrobin triflumizole
Black rot <i>(Sclerotinia)</i>	PCNB
Black spot	captan chlorothalonil copper hydroxide kresoxim-methyl

Commercial Crop Production Ornamentals

Disease	Fungicides and Bactericides
	mancozeb maneb propiconazole thiophanate-methyl trifloxystrobin
Blossom blight	see flower blight
Botrytis blight	azoxystrobin boscalid + pyraclostrobin captan chlorothalonil copper hydroxide copper sulfate fenhexamid fludioxonil iprodione mancozeb maneb thiophanate-methyl trifloxystrobin triflumizole
Brown spot	mancozeb propiconazole
Bulb rot	boscalid + pyraclostrobin captan iprodione PCNB thiophanate-methyl
Canker	chlorothalonil mancozeb thiophanate-methyl
Conifer blights	azoxystrobin copper sulfate mancozeb thiophanate-methyl
Corm rot	see bulb rot
Crown gall	No effective bactericides are available for crown gall management
Crown rot or canker (<i>Cylindrocladium</i> and other fungi)	boscalid + pyraclostrobin fludioxonil mancozeb thiophanate-methyl trifloxystrobin triflumizole
Crown rot (<i>Phytophthora</i>)	aluminum tris boscalid + pyraclostrobin cyazofamid dimethomorph etridiazole phosphite
Damping-off (<i>Pythium</i>)	boscalid + pyraclostrobin captan cyazofamid etridiazole mefenoxam

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Disease	Fungicides and Bactericides
	propamocarb hydrochloride
Damping-off <i>(Rhizoctonia)</i>	boscalid + pyraclostrobin captan flutolanil PCNB
Dieback	copper hydroxide copper sulfate thiophanate-methyl
Downy mildew	aluminum tris azoxystrobin boscalid + pyraclostrobin copper hydroxide copper sulfate cyazofamid dimethomorph kresoxim-methyl mancozeb phosphite trifloxystrobin
Fire blight	aluminum tris (suppression only) copper hydroxide copper sulfate phosphite (suppression only)
Flower blight	captan chlorothalonil iprodione mancozeb myclobutanil PCNB propiconazole thiophanate-methyl triadimefon
Flower spot	chlorothalonil
Fusarium wilt	triflumizole
Gray mold	see Botrytis blight
Head blight	propiconazole
Leaf blight	chlorothalonil copper hydroxide fludioxonil iprodione mancozeb maneb propiconazole thiophanate-methyl triadimefon
Leaf blister	chlorothalonil copper sulfate mancozeb
Leaf curl	see leaf blister
Leaf gall	boscalid + pyraclostrobin triadimefon
Leaf spot	azoxystrobin

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Disease	Fungicides and Bactericides
	boscalid + pyraclostrobin captan chlorothalonil copper hydroxide copper sulfate fludioxonil iprodione kresoxim-methyl mancozeb maneb myclobutanil propiconazole thiophanate-methyl triadimefon trifloxystrobin triflumizole
Needle blight	copper sulfate
Needle cast	copper sulfate mancozeb
Needle rust	azoxystrobin myclobutanil
Petal blight	see flower blight
Petiole rot (<i>Myrothecium</i>)	fludioxonil trifloxystrobin triflumizole
Powdery mildew	azoxystrobin boscalid + pyraclostrobin calcium polysulfide chlorothalonil copper hydroxide copper oleate copper sulfate fenarimol kresoxim-methyl myclobutanil piperalin propiconazole sulfur thiophanate-methyl triadimefon trifloxystrobin triflumizole triforine
Purple spot	mancozeb
Ray blight (<i>Ascochyta</i> blight)	chlorothalonil iprodione mancozeb maneb myclobutanil propiconazole thiophanate-methyl
Rhizome rot	see bulb rot
Root rot	aluminum tris

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Disease	Fungicides and Bactericides
<i>(Phytophthora, Pythium)</i>	boscalid + pyraclostrobin cyazofamid dimethomorph etr Diazole mefenoxam phosphite propamocarb hydrochloride trifloxystrobin
Root rot <i>(Cylindrocladium, Fusarium, Rhizoctonia, Thielaviopsis, etc.)</i>	azoxystrobin fludioxonil flutolanil iprodione pCNB thiophanate-methyl trifloxystrobin triflumizole
Rust	azoxystrobin boscalid + pyraclostrobin calcium polysulfide captan chlorothalonil copper sulfate fenarimol flutolanil kresoxim-methyl mancozeb maneb myclobutanil propiconazole sulfur triadimefon trifloxystrobin triflumizole triforine
Scab	azoxystrobin boscalid + pyraclostrobin chlorothalonil copper hydroxide copper sulfate fenarimol kresoxim-methyl mancozeb myclobutanil propiconazole thiophanate-methyl trifloxystrobin triflumizole
Shoot blight <i>(Phytophthora)</i>	see aerial blight caused by <i>Phytophthora</i> spp.

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Disease	Fungicides and Bactericides
Southern blight	azoxystrobin fludioxonil flutolanil
Stem rot (<i>Phytophthora</i>)	aluminum-tris dimethomorph etr Diazole mefenoxam phosphite
Stem rot (fungal)	fludioxonil iprodione maneb PCNB thiophanate-methyl trifloxystrobin
Storage rot	Iprodione
Thread blight	see aerial blight caused by <i>Rhizoctonia</i> spp.
Tip blight	myclobutanil propiconazole thiophanate-methyl triadimefon
Tuber rot	see bulb rot
Twig blight	chlorothalonil copper hydroxide copper sulfate myclobutanil thiophanate-methyl
Twig dieback	copper sulfate thiophanate-methyl
Web blight	see aerial blight caused by <i>Rhizoctonia</i> spp.
White rust	myclobutanil
Wilt (<i>Cylindrocladium</i>)	iprodione triflumizole

Commercial Crop Production Ornamentals

Table 3. Recommended pesticides, rates and pesticide use restrictions for ornamentals.

Common Name	FRAC Code ¹	Trade Name(s) ¹	REI (hr)	Comments
aluminum tris (or fosetyl-al)	33	Aliette WDG Fosal Select	12	NOT compatible with copper-containing fungicides (do not apply within 7 days of each other).
azoxystrobin	11	Heritage Heritage G Heritage TL	4	Make no more than 3 sequential applications; no more than 8 applications or 10 pounds per crop acre per year.
captan	M4	Captan 50WP Captan 80WDG Captec 4L	96	
chlorothalonil	M5	AllPro Exotherm Termil Chlorostar DF Chlorostar VI Chlorothalonil 720F Countdown LandG Daconil Ultrex Daconil Weather Stik Daconil Zn Echo 720 Turf and Ornamental Echo Ultimate Turf and Ornamental Ensign 720 Ensign 82.5% Turf and Ornamental Initiate 720 Mainsail 6.0F Mainsail WDG Manicure 6 Flowable Turf and Ornamental Manicure Ultrex Turf and Ornamental Quali-Pro Chlorothalonil 500ZN Quali-Pro Chlorothalonil DF Quali-Pro Chlorothalonil 700 SFT	12	
copper hydroxide	M1	Badge SC Champ DP Kocide 3000	24	Should not be applied in a spray solution with a pH of less than 6.5.
cyazofamid	21	Segway	12	For control of <i>Phytophthora</i> , <i>Pythium</i> and downy mildews (see label); no more than 2 soil applications or 4 foliar applications per crop cycle.
dimethomorph	40	Stature SC	12	For control of downy mildews, aerial <i>Phytophthora</i> and <i>Phytophthora</i> root, crown and stem rots; no more than 2 sequential applications; no more than 8 applications per crop (greenhouse) or 30.6 fluid ounces per acre per year (outdoors); not for landscape use.
etridiazole	14	Terrazole 35WP Terrazole L Truban 25EC	12	For control of <i>Pythium</i> and <i>Phytophthora</i> only.
fenarimol	3	Rubigan A.S.	12	For control of powdery mildew
fenhexamid	17	Decree 50WDG	12	For <i>Botrytis</i> only; no more than 2 sequential applications; use no more than 6 pounds per acre per season (outdoors) or 2.2 ounces per crop

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Common Name	FRAC Code ¹	Trade Name(s) ¹	REI (hr)	Comments
				cycle (greenhouse).
fludioxonil	12	Medallion Mozart TR	12	No more than 80 pounds per year or crop (indoor), 4 pounds per acre per year (outdoor, field-grown) or 8 pounds per acre per year (outdoor, container-grown); Mozart for use in greenhouses only.
flutolanil	7	Contrast 70WSP ProStar 70WDG ProStar 70WP	12	For diseases caused by Basidiomycetes; not for use in the landscape; no more than 4 applications per year.
imazalil	3	Fungaflor TR	24	For use in greenhouses only.
iprodione	2	26GT Chipco 26019 Chipco 26019 Flo Chipco 26019 N/G Iprodione Pro 2SE Iprodione SPC OHP 26 GT-O	12	NOT for residential use.
kresoxim-methyl	11	Cygnus	12	NOT for use in residential landscapes; no more than 2 sequential applications; no more than 6 applications per season (outdoors) or 8 applications or 25.6 ounces per acre per year (greenhouse).
mancozeb	M3	Dithane 75DF Rainshield Fore 80WP Rainshield Penncozeb (4F, 70DF, 80WP) Protect DF	24	
maneb	M3	Maneb 75DF Maneb 80WP	24	No longer being manufactured, but supplies may be available.
mefenoxam	4	Fenox ME Mefenoxam 2AQ Subdue GR Subdue Maxx Subdue WSP	0	For control of <i>Pythium</i> and <i>Phytophthora</i> by soil application only; not for landscape use ; Subdue Maxx can be used in commercial and residential landscapes.
myclobutanil	3	Eagle 20EW Eagle 40WP Eagle WSP Hoist Myclobutanil 20EW TandO	24	
pentachloronitrobenzene (PCNB)	14	Glacier (10G and 4F) Parflo 4F Turfcide 10% Granular	12	For soil application.
phosphites, various salts	33	Agri-fos Alude Fosphite Fungi-Phite T and O Primera Magellan Rampart T and O Vital	4	
piperalin	5	Pipron	12	For control of powdery mildew only; for use only in commercial greenhouses or other structures with impermeable roofs.
propamocarb hydrochloride	28	Banol Proplant	24	For control of <i>Pythium</i> and <i>Phytophthora</i> ; not for use in landscapes.
propiconazole	3	Banner 1.1EC Banner MAXX Banner Pro	24	NOT for use in greenhouses; no more than 5.4 gallons per acre per crop per year (outdoors).

Commercial Crop Production Ornamentals

Common Name	FRAC Code ¹	Trade Name(s) ¹	REI (hr)	Comments
		Dorado Fathom 14.3MEC Fitness Honor Guard PPZ ProPensity 1.3ME Propiconazole E-Pro 14.3 MEC Propiconazole G-Pro Propiconazole EC Propiconazole 14.3 Propimax EC Propi-Star EC Sarvi Strider		
thiophanate-methyl	I	3336 (DG, F, GC and WP) Allban (50WSB and Flo) Cavalier (50WSB and F) Fungo (50WSB and Flo) OHP 6672 (4.5L and 50W) Quali-Pro TM (4.5 and 85WDG) SysTec 1998 Tee-Off 4.5F T-Methyl E-Pro (4.5F, 50 WSB, GC and Granular) Transom (4.5F and 50WSB) T-Storm	12	
triadimefon	3	Bayleton 50 Turf and Ornamental Fungicide Bayleton Flo Strike 50WDG	12	
trifloxystrobin	II	Compass Compass O 50WDG	12	No more than two sequential applications (one for powdery mildew); no more than 34.5 ounces per acre per year (outdoors) or 120 ounces per acre per year (indoors).
triflumizole	3	Terraguard SC Terraguard SC/LS	12	SC formulation is for nursery use only. SC/LS formulation is for landscape use only.
ziram	M3	Ziram 76DF	48	
COMBINATION PRODUCTS				
boscalid + pyraclostrobin	7, II	Pageant	12	No more than 7.3 pounds per acre per year.
chlorothalonil + propiconazole	M5, 3	Concert	12	
chlorothalonil + thiophanate-methyl	M5, I	ConSyst Prominence Spectro 90	12	
copper hydroxide + mancozeb	M1, M3	Junction	24	
cyprodinil + fludioxonil	9, 12	Palladium	12	NOT for use on residential plantings.
etridiazole + thiophanate-methyl	14, I	Banrot 8G Banrot 40WP	12	
fludioxonil + mefenoxam	12, 4	Hurricane WDG	48	NOT for use in landscapes or field plantings.
flutolanil + thiophanate-methyl	7, I	SysStar WDG	12	NOT for use in landscapes.

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Common Name	FRAC Code ¹	Trade Name(s) ¹	REI (hr)	Comments
iprodione + thiophanate-methyl	2, 1	26/36	12	NOT for residential use.
mancozeb + myclobutanil	M3, 3	Clevis	24	
mancozeb + thiophanate-methyl	M3, 1	Zyban	24	
propamocarb hydrochloride + fluopicolide	28, 43	Stellar	12	For control of downy mildews, <i>Phytophthora</i> and <i>Pythium</i> .
triadimefon + trifloxystrobin	3, 11	Armada 50WDG Armada 50WP	12	For interior and landscape use only.

¹Mode of action groups are determined by the Fungicide Resistance Action Committee (FRAC).

²Reference to commercial or trade names is made with the understanding that no discrimination or endorsement of a particular product is implied by LSU or the LSU AgCenter.

Information in this section was last updated in December 2019 by Dr. R. Singh.