

## Control of Ornamental Diseases

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A home garden is a unique ecosystem, completely different from an ornamental nursery. Making a beautiful home garden does not necessarily mean having to spray fungicides on a preventive schedule as most nurserymen do. Instead, disease control can be achieved in most home gardens by using the following preventive strategies: (1) grow relatively disease-free plant species, (2) select resistant ornamental varieties, (3) buy healthy plant materials from accredited nurseries and garden centers, (4) fertilize and irrigate plants as needed to grow strong plants, (5) remove diseased and dead plants and plant parts (leaves, shoots, etc.) from the garden regularly to reduce disease pressure to the minimum, and (6) use biorational products such as detergents and essential oils to control powdery mildews. The application of fungicides should be considered as a last option and fungicide labels must be followed carefully when chemical control is performed. Fungicides also should be used based on disease diagnosis because some fungicides may work for a specific group of diseases but not others. In addition, repeated use of the same chemical may induce the target pathogen to develop fungicide resistance. Thus, we highly recommend alternating different mode-of-action products when possible.

### Index of Ornamental Plants and Their Diseases

The index is arranged alphabetically by the scientific name of host plant with its common name in parenthesis if different. Diseases that are common and usually require control treatments are in italics.

- Abies (Fir)** Botrytis blight, Cytospora canker, oedema, *Phytophthora root/crown rot*
- Acer (Maple)** *Anthracnose*, bacterial scorch, bacterial wetwood, *Botrytisphaeria dieback*, Cytospora canker, Ganoderma root rot, leaf spot, Nectria canker, Phomopsis dieback, *purple-eye leaf spot*, tar spot, Valsa canker, *Verticillium wilt*, *zonate leaf spot*
- Aconitum (Monkshood)** Southern blight
- Aegopodium (Goutweed)** leaf spot
- Aesculus (Buckeye)** Guignardia blotch
- Agave (Century plant)** crown rot
- Ageratum (Floss flower)** Southern blight
- Ailanthus (Tree-of-heaven)** Fusarium stem/root rot
- Ajuga (Bugleweed)** Phomopsis dieback, *Phytophthora root rot*, *Pythium root rot*, Rhizoctonia root/crown rot, root knot nematode, *Southern blight*, viral disease, web blight
- Albizia (Mimosa)** Fusarium wilt
- Alcea (Hollyhock)** root knot nematode, *rust*
- Amelanchier (Service berry)** rust, Entomosporium leaf spot
- Anemone** foliar nematode, *Phytophthora root rot*
- Antirrhinum (Snapdragon)** *Cercospora leaf spot*, downy mildew, *Phytophthora root/crown rot*, *Pythium root rot*, Rhizoctonia stem rot, *rust*, *Verticillium wilt*, viral diseases
- Aquilegia (Columbine)** *Pythium root rot*
- Arctostaphylos (Bearberry)** *Pythium root rot*, *Phytophthora root rot*
- Arisaema (Jack-in-the-pulpit)** rust
- Armeria (Sea thrift)** web blight
- Aronia (Chokeberry)** *Pythium root rot*
- Artemisia (Dusty miller)** Rhizoctonia root/stem rot
- Asclepias (Milkweed)** anthracnose
- Asclepias tuberosa (Butterfly weed)** Rhizoctonia stem rot
- Aster** *powdery mildew*, rust
- Astilbe** *Pythium root rot*
- Aucuba** anthracnose, *Botrytisphaeria dieback*, leaf spot, Phomopsis dieback, ring nematode
- Bamboo** *Pythium root rot*
- Bedding plants** damping-off
- Begonia** anthracnose, Botrytis blight, Fusarium stem rot, *powdery mildew*, *Rhizoctonia root/stem rot*, root knot nematode
- Berberis (Barberry)** *Phytophthora root rot*
- Bergenia** *Pythium root rot*
- Betula (Birch)** *anthracnose*, *Botrytisphaeria dieback*, Botrytis blight, red heart, Septoria leaf spot

## 4-2 Home Ornamentals: Control of Ornamental Diseases

- Buddleia (Butterfly bush)** Phytophthora root rot, Rhizoctonia root rot  
**Buxus (Boxwood)** Botrytisphaeria dieback, *boxwood decline*, lesion nematode, Macrophoma leaf spot, volutella blight  
**Cactus** Pythium root rot  
**Caladium** Pythium root rot  
**Calibrachoa (Million bells)** Phytophthora crown rot, Rhizoctonia root rot, Southern blight  
**Calocedrus (Incense cedar)** Seiridium canker  
**Camellia** anthracnose, Botrytisphaeria dieback, *leaf/flower gall*, leaf spot, oedema, *petal/flower blight*, *Phytophthora root rot*, Pythium root rot, viral disease  
**Campanula (Bellflower)** Fusarium crown rot  
**Campsis (Trumpet vine)** anthracnose  
**Canna (Canna lily)** lesion nematodes, Pythium root rot  
**Carpinus (Hornbeam)** Pythium root rot  
**Carya (Hickory)** downy leaf spot, Gnomonia leaf spot, phomopsis gall, powdery mildew, zonate leaf spot  
**Caryopteris (Bluebeard)** Phytophthora stem/root rot, Pythium root rot  
**Catalpa** bacterial wetwood, *Verticillium wilt*  
**Catharanthus (Madagascar periwinkle)** black root rot, Botrytis blight, *Phytophthora blight*, Pythium root rot, Rhizoctonia stem/root rot  
**Cattleya (Orchid)** bacterial brown spot  
**Cedrus (Cedar)** Armillaria root rot, *Phomopsis needle/twig blight*  
**Celosia (Cockcomb)** Pythium root rot, Rhizoctonia root rot  
**Cercis (Redbud)** Botrytisphaeria dieback, botrytis blight, Fusarium canker, leaf spot, *Verticillium wilt*  
**Chamaecyparis (Falsecypress)** Phytophthora root rot, Seiridium canker, web blight  
**Chionanthus (Fringe tree)** leaf spot  
**Chrysanthemum (Daisy)** *Pythium root rot*, web blight  
**Chrysogonum (Goldenstar)** Southern blight  
**Cladastris (Yellow wood)** anthracnose  
**Clematis** leaf spot, Phytophthora root rot  
**Clivia (Kaffir lily)** leaf spot, Southern blight  
**Coleus** Botrytis blight, downy mildew  
**Consolida (Larkspur)** Pythium root rot, Rhizoctonia crown/root rot  
**Coreopsis (Tickseed)** Botrytis blight, Rhizoctonia root/stem rot, rust, viral disease  
**Cornus (Dogwood)** *anthracnose*, Armillaria root rot, Botrytisphaeria dieback/canker, *Botrytis blight*, *Discula anthracnose*, Fusarium canker, leaf spot, phomopsis dieback, *powdery mildew*, Pythium root rot, *Septoria leaf spot*, *spot anthracnose*, viral disease  
**Corylus (Filbert)** eastern filbert blight  
**Cosmos (Mexican aster)** Botrytis blight, Phomopsis stem canker, powdery mildew, white smut  
**Cotinus (Smoke bush)** anthracnose, *Verticillium wilt*  
**Cotoneaster** leaf spot, Phytophthora root rot, web blight  
**Crassula (Jade plant)** oedema, Pythium root rot  
**Crataegus (Hawthorn)** Cercospora leaf spot, *Entomosporium leaf spot*, rust  
**Cryptomeria (Japanese cedar)** needle blight, *Phomopsis twig blight*, Phytophthora root rot  
**Cupressocyparis (Leyland Cypress)** phytophthora root rot  
**Cupressus (Cypress)** Botrytisphaeria dieback, Kabatina dieback, tip blights, Phytophthora root rot, *Seiridium canker*  
**Cyclamen** Fusarium wilt  
**Cymbidium (Orchid)** viral disease  
**Dahlia** crown gall, *powdery mildew*  
**Daphne** anthracnose, Phytophthora root/stem rot  
**Davidia (Dove tree)** Phomopsis dieback  
**Delosperma (Ice plant)** Pythium root rot  
**Dendranthema (Chrysanthemum)** bacterial leaf spot, *Botrytis blight*, *Mycosphaerella ray blight*, Phytophthora root rot, *powdery mildew*, *Pythium root/stem rot*, Rhizoctonia root rot, *Septoria leaf spot*, *leaf rust*, *Verticillium wilt*  
**Dianthus (Carnation)** *Alternaria leaf spot*, *Botrytis blight*, Fusarium stem rot, *powdery mildew*, Rhizoctonia stem rot, rust  
**Digitalis (Foxglove)** black root rot, Fusarium root rot, Pythium root rot  
**Dracaena** Fusarium blight, Pythium root rot

- Echinacea (Coneflower)** aster yellows, foliar nematodes, Pythium root rot, viral disease  
**Elaeagnus (Autumn olive)** Phytophthora root rot  
**Epiphyllum (Cereus)** oedema  
**Epipremnum (Pothos)** Phytophthora stem rot  
**Erica (Heather)** Phytophthora root rot  
**Eucalyptus** anthracnose, Botrytisphaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, *Phytophthora root rot*, powdery mildew, Pythium root rot  
**Euonymus** *powdery mildew*  
**Euphorbia (Spurge)** anthracnose, Botrytisphaeria dieback canker  
**Euphorbia pulcherima (Poinsettia)** bacteria blight, bacterial leaf spot, Botrytis blight, *powdery mildew*, *Pythium root rot*, scab  
**Eustoma (Lisianthus)** Botrytis blight, Fusarium root/stem rot  
**Exacum (Persian violet)** viral disease  
**Fagus (Beech)** anthracnose, Botrytisphaeria canker, Hypoxylon canker, viral disease  
**Fatsia** leaf spot  
**Ficus (Fig)** anthracnose, Phytophthora root rot  
**Ficus benjamina (Weeping fig)** anthracnose, Phomopsis gall  
**Forsythia** Botrytisphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, ringer nematodes, Sclerotinia twig blight, web blight  
**Fraxinus (Ash)** *anthracnose*, ash yellows, Botrytisphaeria canker, *rust*  
**Gaillardia (Blanket flower)** *Pythium root rot*, white smut  
**Galium (Sweet woodruff)** Rhizoctonia stem/root rot, Southern blight  
**Gardenia** anthracnose  
**Gerbera (African daisy)** Pythium root rot  
**Gladiolus** *Botrytis leaf blight*, *Curvularia leaf blight*, *Fusarium yellows*, *Penicillium corm rot*, Rhizoctonia corm rot  
**Gleditsea (Honeylocust)** Botrytisphaeria canker, Thyronectria canker  
**Gloxinia (Sinningia)** viral disease  
**Gomphrena (Globe amaranth)** leaf spot  
**Gypsophila (Baby's breath)** bacterial soft rot  
**Hamamelis (Witchhazel)** Botrytisphaeria dieback, leaf spot, powdery mildew  
**Hedera helix (English ivy)** anthracnose, bacterial leaf spot, oedema, Phyllosticta leaf spot, Phytophthora root rot, Pythium root rot, Rhizoctonia root rot  
**Helianthemum (Rock rose)** Botrytis blight  
**Helianthus (Sunflower)** Alternaria leaf/stem spot  
**Helichrysum (Strawflower)** Fusarium stem rot  
**Helleborus (Hellebore)** black leaf spot, Botrytis blight, Pythium root rot, Rhizoctonia root rot, Southern blight  
**Hemerocallis (Daylily)** anthracnose, *rust*, *leaf streak*, Southern blight  
**Heuchera (Coral bells)** Pythium root rot  
**Hibiscus** *Phytophthora root rot*, Pythium root rot, viral disease  
**Hibiscus syriacus (Rose-of-Sharon)** leaf spot  
**Hosta** *anthracnose*, Botrytis blight, leaf spot, root rot, *soft rot*, *Southern blight*, virus X  
**Hydrangea** anthracnose, Armillaria root rot, bacterial leaf spot, *Botrytis blight*, Cercospora leaf spot, *Phytophthora root rot*, *Pythium root rot*, *powdery mildew*  
**Hypericum (St Johnswort)** Phytophthora stem/root rot, *rust*, Rhizoctonia root rot  
**Iberis (Candytuft)** anthracnose, Pythium root rot  
**Ilex (Holly)** *anthracnose*, bacterial blight, *black root rot*, Botrytisphaeria dieback, leaf spot, root knot nematodes, oedema, Phomopsis dieback, *Phytophthora root rot*, Pythium root rot, Rhizoctonia root rot, *rust*, tar spot, web blight  
**Ilex glabra (Inkberry)** *black root rot*, *Phytophthora root rot*  
**Impatiens** *Alternaria leaf spot*, bacterial fasciation, Botrytis blight, *Fusarium crown rot*, *powdery mildew*, *Pythium root/stem rot*, Rhizoctonia root/stem rot, root knot nematodes, Verticillium wilt, viral diseases  
**Ipomoea (Morning glory)** *rust*, white rust  
**Iris** *Botrytis blight*, *Heterosporium leaf spot*, *soft rot*  
**Juniperus (Juniper)** Kabatina tip blight, Pestalotia dieback, *Phytophthora root rot*, Pythium root rot, *rust*  
**Juniperus virginiana (Eastern red cedar)** Cercospora blight, Kabatina tip blight, Pestalotia blight, *Phomopsis tip blight*, *rust*

#### 4-4 Home Ornamentals: *Control of Ornamental Diseases*

- Kalmia (Mountain laurel)** Botryspaeria dieback, *Cercospora leaf spot*  
**Lagerstroemia (Crape myrtle)** leaf spot, *powdery mildew*, sooty mold  
**Lamiastrum (Yellow archangel)** Rhizoctonia root/stem rot, Southern blight  
**Laurus nobilis (Bay laurel)** Cercospora leaf spot  
**Lavandula (Lavender)** Phytophthora root rot, Pythium root rot  
**Leucothoe (Drooping leucothoe)** Botryspaeria dieback, Cylindrocladium leaf spot, Phyllosticta leaf spot, Phytophthora root rot  
**Lewisia** soft rot  
**Liatris (Gayfeather)** Sclerotinia stem rot  
**Ligustrum (Privet)** anthracnose, Cercospora leaf spot, Phytophthora root rot  
**Lilium (Lily)** anthracnose, Botrytis blight, Pythium root rot  
**Limonium (Statice)** Phytophthora root rot, Pythium root rot, Rhizoctonia root rot  
**Liquidambar (Sweet gum)** Cercospora leaf spot, Endothia canker, Sphaeropsis gall  
**Liriodendron (Tulip tree)** powdery mildew  
**Liriope (Lilyturf)** anthracnose, foliar nematodes, Mycosphaerella leaf spot, Phytophthora root rot, viral disease  
**Lobelia** Pythium root rot, viral disease  
**Lobularia (Sweet alyssum)** Rhizoctonia stem rot  
**Lonicera (Honeysuckle)** Botryspaeria dieback, Botrytis blight, *Herpobaisidium leaf blight*, powdery mildew  
**Lupinus (Lupine)** anthracnose, brown spot, Pythium root rot  
**Lysimachia (Loosestrife)** Rhizoctonia root/stem rot, *Southern blight*  
**Magnolia** bacterial leaf spot, *powdery mildew*  
**Malus (Crabapple)** Coniothyrium leaf spot, *fire blight*, *frog-eye leaf spot*, *powdery mildew*, *rust*, *scab*  
**Malva (Mallow)** rust  
**Metasequoia (Dawn redwood)** *Dothiorella canker*, needle blight  
**Microbiota decussata (Russian arborvitae)** Phytophthora root rot  
**Morus (Mulberry)** berry blight  
**Myosotis (Forget-me-not)** web blight  
**Myrica (Bayberry)** Botryspaeria dieback, Phytophthora root rot  
**Myrica cerifera (Waxmyrtle)** anthracnose, Botryspaeria dieback, Phytophthora root rot, Septoria leaf spot  
**Nandina (Heavenly bamboo)** Cercospora leaf spot, Phytophthora root rot, Pythium root rot  
**Nelumbo (Water lily)** Cercospora leaf spot  
**Nerium oleander (Oleander)** bacterial gall  
**Nyssa sylvatica (Black gum)** anthracnose, Botryspaeria dieback, leaf spot  
**Ocimum basilicum (Basil)** Alternaria leaf spot, Fusarium root rot  
**Oenanthe javanica (Water celery)** Fusarium crown rot  
**Ophiopogon (Mondo grass)** anthracnose  
**Oxalis (Wood sorrel)** rust  
**Oxydendrum arboreum (Sourwood)** leaf spots  
**Pachysandra** leaf spot, Pythium root rot, Southern blight, *Volutella blight*  
**Paeonia (Peony)** Botrytis blight, Cercospora leaf spot, *Cladosporium leaf/stem blotch*, Rhizoctonia root rot  
**Parthenocissus (Boston ivy)** Phyllosticta leaf spot  
**Paxistima** Phytophthora root rot  
**Pelargonium (Geranium)** bacterial blight, bacterial leaf spot, bacterial wilt, *Botrytis blight*, oedema, *Pythium root rot/black-leg*, Rhizoctonia root rot, *rust*, viral disease  
**Petunia** Botrytis blight, *Fusarium root/crown rot*, *Phytophthora root/crown rot and foliage blight*, *Pythium root/crown rot*, Rhizoctonia root/stem root, viral disease  
**Phalaris (Canarygrass)** web blight  
**Phlox** bacterial leaf spot, black root rot, Colletotrichum stem canker, *powdery mildew*, Pythium root rot, southern blight, viral disease, web blight  
**Photinia (Japanese photinia red-tip)** bacterial blight, Botryspaeria canker, *Entomosporium leaf spot*, *powdery mildew*, Armillaria root rot  
**Physocarpus (Ninebark)** powdery mildew, Rhizoctonia root rot  
**Picea (Spruce)** Cytospora canker, Phytophthora root rot, Pythium root rot, needle blight, tip blight  
**Pieris (Japanese pieris)** Botryspaeria dieback, Phomopsis canker, Phytophthora root rot

- Pinus (Pine)** Armillaria root rot, Atropellis twig canker, Cenangium dieback, Cytospora canker, *Diplodia tip blight*, Dothistroma needle blight, Eastern gall rust, Fusiform rust, needle cast, needle rust, Phacidiopycnis canker, Phytophthora root rot, *pine-wood nematodes*
- Pistacia (Pistache)** Verticillium wilt
- Platanus (Sycamore)** anthracnose, bacterial scorch, Botryphaeria dieback, *powdery mildew*
- Platycodon (Balloon flower)** Rhizoctonia crown rot
- Polygonatum (Solomon seal)** Penicillium rot
- Populus (Poplar)** Botryphaeria canker, leaf spot
- Portulaca (Purslane)** Rhizoctonia stem rot
- Potentilla (Cinquefoil)** foliar nematodes
- Pratia** Southern blight
- Prunus (Flowering apricot/cherry/peach/plum)** bacterial blossom blight, bacterial leaf spot, bacterial shot hole, bacterial scorch, black knot, blossom blight/brown rot, *Cytospora canker*, Nectria canker, peach leaf curl, Phomopsis canker, white rot
- Prunus laurocerasus (Cherry laurel)** anthracnose, bacterial leaf spot, bacterial shot hole, Botryphaeria dieback, Phomopsis dieback, leaf spots, Phytophthora root rot, Pythium root rot, zonate leaf spot
- Pseudotsuga (Douglas fir)** Botryphaeria canker, Swiss needle cast
- Pyracantha (Firethorn)** Botryphaeria dieback, *fire blight*, Phomopsis dieback, *scab*
- Pyrus calleryana (Flowering pear)** Botryphaeria canker, Entomosporium leaf spot, *fire blight*, rust
- Quercus (Oak)** anthracnose, Armillaria root rot, bacterial scorch, *bacterial wetwood*, Botryphaeria canker, Cydrocladium root rot, Discula anthracnose, Hypoxylon canker, *leaf blister*, Phomopsis dieback, *powdery mildew*, rust, smooth patch, spot anthracnose, *Tubakia leaf spot*
- Ranunculus (Buttercup)** bacterial blight, web blight
- Rhaphiolepis (Indian hawthorn)** Entomosporium leaf spot
- Rhododendron (Azalea)** anthracnose, Armillaria root rot, *Botryphaeria dieback*, Botrytis blight, *Cercospora leaf spot*, Colletotrichum leaf spot, *leaf and flower gall*, lesion nematodes, oedema, Pestalotia leaf spot, *petal blight*, Phomopsis dieback, Phyllosticta leaf spot, *Phytophthora dieback*, *Phytophthora root/stem rot*, *powdery mildew*, *web blight*
- Rosa (Rose)** anthracnose, *black spot*, Botryphaeria dieback, Botrytis blight, *crown gall*, *downy mildew*, Phomopsis canker, *powdery mildew*, Pythium root rot, rose rosette disease, viral disease
- Rosmarinus (Rosemary)** Botrytis blight, crown gall, *Phytophthora root rot*, Pythium root rot
- Rudbeckia (Black-eyed Susan)** Pythium root rot, Rhizoctonia stem rot, *Septoria leaf spot*, downy mildew
- Salix (Willow)** Armillaria root rot, *Botryphaeria dieback*, Botrytis blight, black canker, Cercospora leaf spot, *crown gall*, rust, scab, white rot
- Salvia** bacterial leaf spot, downy mildew, Pythium root rot, Rhizoctonia stem rot
- Santolina (Lavender cotton)** Rhizoctonia root rot
- Scabiosa (Pincushion flower)** Botrytis blight
- Schefflera (Umbrella tree)** oedema, Pythium root rot
- Schlumbergera (Thanksgiving cactus)** oedema, Pythium root rot
- Sedum (Stone crop)** anthracnose, bacterial soft rot, bacterial stem rot, Diplodia stem rot, leaf spot, Phytophthora stem rot, Pythium root rot, Rhizoctonia root/stem rot, root knot nematodes, web blight
- Sequoia (Redwood)** Cercospora needle blight, Phomopsis needle blight
- Setcreasea (Purple heart)** leaf spot
- Solidago (Goldenrod)** rust
- Spiraea** leaf spot
- Styrax (Silverbell)** leaf spots
- Syngonium (Nephtytis)** bacterial leaf spot
- Syringa (Lilac)** anthracnose, *bacterial blight*, *Botrytis blight*, Cercospora leaf spot, *Phytophthora root rot*, *powdery mildew*
- Tagetes (Marigold)** Alternaria blight, Botrytis blight, crown gall, Fusarium stem/root rot, Pythium root rot, Rhizoctonia stem rot
- Taxus (Yew)** Botryphaeria dieback, *Phytophthora root rot*
- Teucrium (Germander)** Rhizoctonia root rot, Southern blight
- Thuja (Arborvitae)** Armillaria root/stem rot, *Cytospora canker*, Kabatina tip blight, *Phomopsis twig/needle blight*, *Phytophthora root rot*, Pythium root rot, Seiridium twig canker, web blight
- Thymus (Thyme)** Pythium root rot
- Tilia (Linden)** spot anthracnose, white rot

## 4-6 Home Ornamentals: Control of Ornamental Diseases

**Tradescantia virginica (Spiderwort)** Southern blight  
**Tsuga (Hemlock)** Armillaria root rot, damping-off, rust  
**Tulipa (Tulip)** *Botrytis blight*, Fusarium basal rot  
**Ulmus (Elm)** *bacterial wetwood*, *bacterial leaf scorch*, Botryospheria canker, Cytospora canker, *Dutch elm disease*, *Verticillium wilt*  
**Verbena (Vervain)** *powdery mildew*, Pythium root rot  
**Veronica (Speedwell)** Phytophthora root rot  
**Viburnum (Snowball bush)** spot anthracnose, bacterial scorch, Botryospheria dieback, Botrytis blight, phoma leaf spot, Phytophthora root rot, Rhizoctonia root rot  
**Vinca minor (Periwinkle)** oedema, *Phoma dieback*, *Phomopsis dieback*, Phyllosticta stem rot/leaf spot, Pythium root rot, Rhizoctonia root/stem rot, Southern blight  
**Viola (Pansy)** anthracnose, *black root rot*, *Botrytis blight*, Cercospora leaf spot, *Phytophthora root/crown rot*, *Pythium root/crown rot*  
**Weigela** Phytophthora root rot, Pythium root rot  
**Wisteria** Botryospheria dieback  
**Xanthoceras sorbifolium (Yellowhorn)** Botrytis blight  
**Yucca** bacterial soft rot, Mycosphaerella leaf spot  
**Zephyranthes (Rain lily)** *anthracnose*  
**Zinnia** *Alternaria blight*, bacterial leaf spot, Botrytis stem canker, *powdery mildew*, Pythium root rot

**Table 4.1 - General Guideline for Fungicide Selection**

Disease	Common Name	Trade Name	Manufacturer
<b>Oomyceteous diseases</b>			
Phytophthora root rot	Fosetyl-Al	Monterey Aliette	Monterey
Pythium root/crown rot	Phosphorous acid	AGRI-FOS	Monterey
Downy mildew	Fosetyl-Al	Monterey Aliette	Monterey
Phytophthora blight/ dieback	Phosphorous acid	AGRI-FOS	Monterey
	Copper hydroxide	Copper Fungicide	Hi-Yield
	Copper salts	LIQUI-COP	Monterey
		Liquid Copper Fungicide	Bonide
		Copper Fungicide	Dragon
<b>Fungal</b>			
Black root rot	Thiophanate-methyl	Halt Systemic Fungicide	Ferti-lome
Cylindrocladium root rot		Lawn Fungus Control	Scotts
		Systemic Fungicide	Green Light
		Systemic Fungicide 3336 WP	Dragon
Rhizoctonia root/stem rot	Pentachloronitrobenzene	Turf & Ornamental Fungicide	Hi-Yield
Sclerotinia root rot		Terraclor	Southern Agriculture
Southern blight			Insecticides
Botrytis blight	Thiophanate-methyl	Halt Systemic	Ferti-lome
Diplodia tip blight		Lawn Fungus Control	Scotts
		Systemic Fungicide	Green Light
Kabatina dieback		Systemic Fungicide 3336 WP	Dragon
Phomopsis dieback			
Phomopsis needle blight			
Sclerotinia stem rot			
Tip blight			

**Table 4.1 - General Guideline for Fungicide Selection (cont.)**

Disease	Common Name	Trade Name	Manufacturer	
<b>Fungal (cont.)</b>				
Powdery mildew	Potassium bicarbonate	Remedy	Bonide	
		Sulfur	Garden Fungicide	Safer
	Sulfur 90W		Monterey	
	Sulfur Plant Fungicide		Bonide	
	Wettable Dusting Sulfur		Hi-Yield	
	Wettable or Dusting Garden Sulfur		Dragon	
	Neem oil		Powdery mildew killer Ready To Use	Green Light
		Triple Action Ready-To-Use	Ferti-lome	
	Joboba oil	E-Rase RTU	Monterey	
	Myclobutanil	F-Stop Lawn Fungicide	Fung-Away systemic Granules	Green Light
			Immunox 3-in-1	Spectracide
			Immunox Fungicide	
			Immunox Lawn Disease Spray	
			Immunox Lawn Disease Control Granules	
			Immunox Multi-Purpose Fungicide	
			Immunox Plus Insect and Disease Control	
			Triforine	Rose Pride – Rose & shrub Disease Control
Orthenex-Garden Insect & Disease Control				
Rust	Myclobutanil	F-Stop Lawn Fungicide	Ferti-lome	
		Fung-Away systemic Granules	Green Light	
		Immunox 3-in-1	Spectracide	
		Immunox Fungicide		
		Immunox Lawn Disease Spray		
		Immunox Lawn Disease Control Granules		
		Immunox Multi-Purpose Fungicide		
		Immunox Plus Insect and Disease Control		
	Triadimefon	Fung-Away Fungicide		Green Light
			Fung-Away Systemic Lawn Spray	
			Fung-Away Systemic Lawn Spray	
			Hose-End Concentrate	
Lawn Fungicide Granules			Hi-Yield	

## 4-8 Home Ornamentals: Control of Ornamental Diseases

**Table 4.1 - General Guideline for Fungicide Selection (cont.)**

Disease	Common Name	Trade Name	Manufacturer	
<b>Fungal (cont.)</b>				
Rust (cont.)	Triforine	Rose Pride – Rose & Shrub Disease Control	Ortho	
		Orthenex-Garden Insect & Disease Control		
	Tebuconazole	Disease Control for Roses, Flowers, and Shrubs	Bayer	
		All-In-One Rose and Flower Care		
Alternaria leaf spot	Propiconazole	Infuse	Bonide	
Anthracnose		Lawn Disease Control	Ortho	
Black spot (rose)	Chlorothalonil	Liquid Systemic Fungicide	Ferti-lome	
Cercospora leaf spot		Broad Spectrum Liquid Fungicide	Ferti-lome	
Curvularia leaf blight		Daconil	Hi-Yield	
Cylindrocladium leaf spot		Daconil 2787	Dragon	
Entomosporium leaf spot		Fungicide Disease Control	Garden Tech	
Gnomonia leaf spot		Fung-Onil Multi-Purpose Fungicide	Bonide	
Heterosporium,		Garden Disease Control	Ortho	
Leaf streak (daylily)		Multipurpose Fungicide	Tiger Brand	
Macrophoma leaf spot	Mancozeb	Mancozeb Disease Control	Dragon	
Mycosphaerella leaf spot		Mancozeb Flowable	Bonide	
Phyllosticta leaf spot		Maneb	Maneb Garden Fungicide	Hi-Yield
Purple-eye leaf spot	Captan	Captan	Bonide	
Scab		Captan Wettable Powder	Dragon	
Septoria leaf spot	Copper hydroxide	Copper Fungicide	Hi-Yield	
Spot anthracnose	Copper salts	LIQUI-COP	Monterey	
Volutella blight		Liquid Copper Fungicide	Bonide	
Web blight		Copper Fungicide	Dragon	
Zonate leaf spot		Thiophanate-methyl	Halt Systemic	Ferti-lome
Leaf/flower gall	Chlorothalonil	Lawn Fungus Control	Scotts	
		Systemic Fungicide	Green Light	
		Systemic Fungicide 3336 WP	Dragon	
		Tebuconazole	Disease Control for Roses, Flowers, and Shrubs	Bayer
		All-In-One Rose and Flower Care		
		Broad Spectrum Liquid Fungicide	Ferti-lome	
		Daconil	Hi-Yield	
		Daconil	Garden Tech	
		Daconil 2787	Dragon	
		Fungicide Disease Control	Garden Tech	
Fung-Onil Multi-Purpose Fungicide	Bonide			
Garden Disease Control	Ortho			
Multipurpose Fungicide	Tiger Brand			
	Tebuconazole	Advanced Garden Disease Control	Bayer	

**Table 4.1 - General Guideline for Fungicide Selection (cont.)**

Disease	Common Name	Trade Name	Manufacturer
<b>Fungal (cont.)</b>			
Leaf/flower gall (cont.)	Mancozeb	Mancozeb Disease Control	Dragon
		Mancozeb	Bonide
Flower/petal blight	Myclobutanil	F-Stop Lawn Fungicide	Ferti-lome
		Fung-Away systemic Granules	Green Light
		Immunox 3-in-1	Spectracide
		Immunox Fungicide	
		Immunox Lawn Disease Spray	
		Immunox Lawn Disease Control Granules	
		Immunox Multi-Purpose Fungicide	
		Immunox Plus Insect and Disease Control	
	Chlorothalonil	Broad Spectrum Liquid Fungicide	Ferti-lome
		Daconil	Hi-Yield
		Daconil	Garden Tech
		Daconil 2787	Dragon
		Fungicide Disease Control	Garden Tech
		Fung-Onil Multi-Purpose Fungicide	Bonide
Garden Disease Control	Ortho		
<b>Bacterial</b>			
Fire blight	Copper	Copper Spray or Dust	Bonide
	Copper hydroxide	Copper Fungicide	Hi-Yield
	Copper salts	LIQUI-COP	Monterey
Soft rot		Liquid Copper Fungicide	Bonide
		Copper Fungicide	Dragon
	Copper oxinate	Copper Soap	Concern
	Fosetyl-Al	Monterey Aliette	Monterey
	Streptomycin sulfate	Fire Blight Spray	Bonide Ferti-lome
Crown gall	Purchase healthy plants		
<b>Nematode</b> - No nematicide available for homeowner use.			
<b>Viral</b> - No chemicals for control of viral diseases.			

