INSECT CONTROL FOR HOME FLOWERS, SHRUBS, AND GROUND COVERS

Will Hudson, Extension Entomologist

NOTE: There is increasing concern about the health of pollinators, including honeybees and other bees, butter-flies, and moths. Flowering plants in urban and suburban landscapes are an important source of nectar and pollen for these beneficial insects. Insecticide use in the home environment can cause significant harm to pollinators incidental to efforts at controlling pests. Be careful when using any insecticides around blooming plants, including trees and weeds. Broad-spectrum contact insecticides (pyrethroids, Sevin, acephate, etc.) applied as a liquid spray will kill most insects on contact. While

less deadly once dry, unless treated leaves are eaten by the insects (foliage feeding caterpillars, for instance), there are still residues that can be picked up by foraging bees and taken back to the colony. Never spray blooming plants while bees are actively foraging. Late afternoon or evening application reduces the risks. Directly spraying the blossoms should also be avoided at all times. Avoid applying neonicotinyl insecticides (imidacloprid, dinotefuran) to blooming plants, as these systemic materials can be transferred to the nectar and pollen under some circumstances.

INSECTS	INSECTICIDE	AMT/GAL OF WATER	REMARKS AND PRECAUTIONS
Aphids	acephate 758 Orthrene, etc.	2 tsp	See note below.
	dinotefuran Safari		Per label directions. Take note of pollinator protection restrictions.
	horticultural oils	1-2 oz	Per label directions.
	imidacloprid 1.47% BioAdvanced, others		Read label carefully. Take note of pollinator protection restrictions.
	insecticidal soap		Per label directions
	pyrethrins		
	pyrethrum		
Azalea leaf miner	acephate Orthene TTO	1 tsp	Per label directions.
	dinotefuran		Per label directions. Take note of pollinator protection restrictions.
	imidacloprid 1.47% BioAdvanced, others		Per label directions. Take note of pollinator protection restrictions.
Borers (various kinds)	dinotefuran Safari by Green Light		Per label directions. Take note of pollinator protection restrictions.
	imidacloprid BioAdvanced, others		<i>Imidacloprid</i> and <i>dinotefuran</i> are effective against flat-headed borers and some clear-winged moths.
	permethrin	Per Label	Apply to trunk and lower limbs in spring as per label directions.

NOTE: A number of pyrethroid materials are available in a variety of home formulations for use as broad-spectrum contact insecticides. Common names include bifenthrin, cyfluthrin, cypermethrin, deltamethrin, lambda-cyhalothin, permethrin, and tralomethrin. Active ingredients are listed on the label.

Most of the materials listed in the Commercial Landscape Insect Control section of this handbook are not Restricted Use Pesticides and are available for home use. They are not marketed for homes in small quantities at retail garden centers, but they could provide options for some homes. Consult your county Extension agent for advice on alternatives.

■ INSECT CONTROL FOR HOME FLOWERS, SHRUBS, AND GROUND COVERS

INSECTS	INSECTICIDE	AMT/GAL OF WATER	REMARKS AND PRECAUTIONS
Boxwood leaf miner	acephate 75S Orthene, etc.	2 tsp	
	dinotefuran Safari by Green Light		Per label directions.
	imidacloprid 1.47% BioAdvanced, others		Per label directions. Take note of pollinator protection restrictions.
Caterpillars (Misc. leaf feeders)	Bacillus thuringiensis Biotrol WP, Thuricide, Sok-Bt		Per label directions.
iccucis)	various pyrethroids		See note below.
	spinosad Conserve, other brands	1 tsp	Some organic certified products are available.
Holly leaf miner	imidacloprid Many brands		Spray in late spring to kill larvae in mines. Per label directions.
	chlorantraniliprole Scott's GrubEX	2.87 lb	
(adults)	dinotefuran		Per label directions. Take note of pollinator protection restrictions.
	imidacloprid Many brands		Per label directions. Take note of pollinator protection restrictions.
Lace bugs	acephate Orthene, etc.	1 tsp	Apply in early spring when nymphs of first generation are present.
	dinotefuran		Per label directions. Take note of pollinator protection restrictions.
	imidacloprid Many brands		Per label directions.
Scale Insects	dinotefuran	1-2 oz	Per label directions.
	horticultural oils	2 tsp	Per label directions.
	imidacloprid Many brands		Per label directions.
	insecticidal soap		
	malathion 57EC		Apply in spring to control crawlers. Make applications at 2-week intervals.
Spider mites	bifenthrin		
	horticultural oils		
	imidacloprid Many brands	1-2 oz	Per label directions.
	insecticidal soap		

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INSECT CONTROL FOR HOME FLOWERS, SHRUBS, AND GROUND COVERS

INSECTS	INSECTICIDE	AMT/GAL OF WATER	REMARKS AND PRECAUTIONS
Slugs and snails	iron phosphate Slug-Go		Follow label directions.
	mesurol 2B		
	metaldehyde		Follow label directions.
Thrips	malathion 57EC		
	spinosad Conserve, other brands	1 tsp	Some organic certified products are available.
	various pyrethroids		
Whitefly	bifenthrin		
	dinotefuran		Per label directions.
	imidacloprid Many brands		Per label directions.
	insecticidal soap		
	pyrethrins		Per label directions.
	pyrethrums		Per label directions.

NOTE: A number of pyrethroid materials are available in a variety of home formulations for use as broad-spectrum contact insecticides. Common names include bifenthrin, cyfluthrin, cypermethrin, deltamethrin, lambda-cyhalothin, permethrin, and tralomethrin. Active ingredients are listed on the label.

Most of the materials listed in the Commercial Landscape Insect Control section of this handbook are not Restricted Use Pesticides and are available for home use. They are not marketed for homes in small quantities at retail garden centers, but they could provide options for some homes. Consult your county Extension agent for advice on alternatives.

NOTE: There is increasing concern about the health of pollinators, including honeybees and other bees, butterflies, and moths. Flowering plants in urban and suburban landscapes are an important source of nectar and pollen for these beneficial insects. Insecticide use in the home environment can cause significant harm to pollinators incidental to efforts at controlling pests. Be careful when using any insecticides around blooming plants, including trees and weeds. Broad-spectrum contact insecticides (pyrethroids, Sevin, acephate, etc.) applied as a liquid spray will kill most insects on contact. While

less deadly once dry, unless they are eaten by the insects (foliage feeding caterpillars, for instance), there are still residues that can be picked up by foraging bees and taken back to the colony. Never spray blooming plants while bees are actively foraging. Late afternoon or evening application reduces the risks. Directly spraying the blossoms should also be avoided at all times. Avoid applying neonicotinyl insecticides (imidacloprid, dinotefuran) to blooming plants, as these systemic materials can be transferred to the nectar and pollen under some circumstances.

INSECTICIDE	RATE	СОММЕНТ
bifenthrin Ortho Houseplant and Garden Insect Killer	As Directed	mealybugs, mites, whitefly, aphids, most chewing pests.
cyfluthrin BioAdvanced Home Pest Control	As Directed	gnats, centipedes, earwigs, scorpions. Follow label directions.
horticultural oil Plant Spray Oil (aerosol) Sunspray Ultrafine, Saf-T-Side	1-2%	scale, whitefly and mites. Coverage is important, spray must contact pest to be effective.
imidacloprid + fertilizer BioAdvanced Garden 2-in-1 Plant Spikes	As Directed	aphids, mealybugs, whitefly.
insecticidal soap M-Pede	1–2%	aphids, mealybugs, scale, thrips, mites, whitefly. Coverage is important, spray must contact pest to be effective.
pyrethrum Pyrethrum (aerosol)	As Directed	aphids, mealybugs, thrips, whitefly.
resmethrin Resmethrin (aerosol)	As Directed	aphids and whitefly.
tralomethrin	As Directed	mites.

HERBACEOUS ORNAMENTALS: HOME OUTDOOR INSECT CONTROL

NOTE: There is increasing concern about the health of pollinators, including honeybees and other bees, butter-flies, and moths. Flowering plants in urban and suburban landscapes are an important source of nectar and pollen for these beneficial insects. Insecticide use in the home environment can cause significant harm to pollinators incidental to efforts at controlling pests. Be careful when using any insecticides around blooming plants, including trees and weeds. Broad-spectrum contact insecticides (pyrethroids, Sevin, acephate, etc.) applied as a liquid spray will kill most insects on contact. While

less deadly once dry, unless they are eaten by the insects (foliage feeding caterpillars, for instance), there are still residues that can be picked up by foraging bees and taken back to the colony. Never spray blooming plants while bees are actively foraging. Late afternoon or evening application reduces the risks. Directly spraying the blossoms should also be avoided at all times. Avoid applying neonicotinyl insecticides (imidacloprid, dinotefuran) to blooming plants, as these systemic materials can be transferred to the nectar and pollen under some circumstances.

PEST	INSECTICIDE	AMOUNT FORMULATION PER GALLON SPRAY	REMARKS AND PRECAUTIONS
Aphids	acephate		Follow label directions.
	horticultural oils	1-2%	Follow label directions.
	imidacloprid		Follow label directions.
	insecticidal soap	1-2%	Thorough coverage necessary. Spray must contact pest to be effective. Repeat spray 3 times at 5–7 day intervals.
	various pyrethroids	Ready-to-use and concentrate	Follow label directions. See note below.
	pyrethrum		Follow label directions.
Beetles (foliage feeding such as	various pyrethroids	Ready-to-use and concentrate	Follow label directions. See note below.
Japanese beetle, Elm leaf beetle)	imidacloprid		Many brands and formulations available. Follow label.
Caterpillars	acephate		Follow label directions.
such as Armyworms, Cutworms, Loopers	Bacillus thuringiensis Dipel, Thuricide		Follow manufacturer's suggestions.
	pyrethroids	Ready to use and concentrate	Follow label directions. See note below.
	spinosad Conserve, other brands	1 tsp	Some organic certified products are available
Mealybugs	acephate		Follow label directions.
	horticultural oils	1–2%	Coverage important, spray must contact pest.
	imidacloprid		Follow label directions.
	insecticidal soap	1–2%	Thorough coverage necessary. Spray must contact pest to be effective. Repeat spray 3 times at 5–7 day intervals.
	pyrethroids	Ready to use and concentrate	Follow label directions.
Plant bugs	acephate		Follow label directions.
Leafhopper	insecticidal soap	1–2%	Thorough coverage necessary. Spray must contact pest to be effective. Repeat spray 3 times at 5–7 day intervals.
	pyrethroids	Ready to use and concentrate	Follow label directions.

Numerous products containing insecticide are available to homes. Products containing the same insecticide may vary in the concentration of the active ingredient. Always consult the product label for information on rate of application. Pyrethroids are a class of chemicals that are excellent contact insecticides. The active ingredients in this class end in *-thrin* (*permethrin*, *bifenthrin*, *cyfluthrin*, etc.) Many brands are available with these active ingredients.

INSECT CONTROL FOR HOME FLOWERS, SHRUBS, AND GROUND COVERS

PEST	INSECTICIDE	AMOUNT FORMULATION PER GALLON SPRAY	REMARKS AND PRECAUTIONS
Scale Insects	acephate		Follow label directions.
	dinotefuran		Best choice for armored scales. Per label directions. Take note of pollinator protection restrictions.
	horticultural oils	1–2%	Follow label directions.
	<i>imidacloprid</i> Many brands		Follow label directions. Good for soft scales. Take note of pollinator protection restrictions.
	insecticidal soap	1-2%	
	malathion		Follow label directions.
	pyrethroids	Ready-to-use and concentrate	Follow label directions.
Slugs and Snails	iron phosphate		Follow label directions. Crawlers only.
	mesurol 2B	1 lb/100 sq ft	Follow label directions.
	methaldehyde		Attention should be given to moist areas or water leaks. Do not use in home gardens.
Sowbugs and Pillbugs	pyrethroids	Ready-to-use and concentrate	Follow label directions.
Spider mites	bifenthrin 0.012%	Ready to use	Follow label directions.
	horticultural oils	1–2%	
	insecticidal soap	1–2%	Coverage is important, spray must contact pest to be effective.
Thrips	acephate		Follow label directions.
	<i>imidacloprid</i> Many brands		Follow label directions. Take note of pollinator protection restrictions.
	insecticidal soap	1–2%	Thorough coverage necessary, spray must contact pest to be effective. Repeat spray 3 times at 5–7 day intervals.
	spinosad Conserve, other brands	1 tsp	Some organic certified products are available.
	various pyrethroids		See note below.
Whitefly	acephate		Follow label directions.
	dinotefuran Safari		Per label directions. Take note of pollinator protection restrictions.
	horticultural oils		
	<i>imidacloprid</i> Many brands		Follow label directions. Take note of pollinator protection restrictions.
	insecticidal soap	1-2%	
	pyrethroids	Ready to use and concentrate	Follow label directions. See note below.

Numerous products containing insecticide are available to homes. Products containing the same insecticide may vary in the concentration of the active ingredient. Always consult the product label for information on rate of application. Pyrethroids are a class of chemicals that are excellent contact insecticides. The active ingredients in this class end in *-thrin* (permethrin, bifenthrin, cyfluthrin, etc.) Many brands are available with these active ingredients.

		AMOUNT OF FORMULATION/	REINTRY INTERVAL	
HERBICIDE	FORMULATION	GAL PER 1000 SQ FT	(REI) IN Hours	REMARKS AND PRECAUTIONS
			HERBACEC	DUS FLOWERS
			PRE-EMEI	RGENCE 1, 2, 3, 4
benefin + oryzalin Amaze 2G	2% granular	4.6–6.9 lb	24 H	Can be applied over-the-top of several established bedding plants (see label). Provides broad-spectrum control of many broad leaf and annual grass weeds.
dimethenamid-P + pendimethalin Freehand 1.75 G	1.75% granular	1.75–3.5 lb	12 H	Controls a wide range of annual grasses and broadleaf weeds in established annual and perennial ornamentals (see plant label). DO NOT apply to newly planted ornamentals until plants have been watered, the soil has firmly settled, and no cracks are present. Some commonly planted herbaceous ornamentals on the Snapshot label include Begonia, Rudbeckia, Impatiens, and others. Apply one-half inch of irrigation water, if rainfall is not received within 3 days of application.
dithiopyr Preen for Southern Gardens	0.27 granular	4.5 lb	12 H	Can be applied around many annual and perennial ornamentals (see plant label). If used in combination with mulch, apply over the surface of the mulch after spreading mulch around ornamentals. Also available on a dry fertilizer carrier.
isoxaben + trifluralin Snapshot 2.5 TG	2.5% granular	2.3-4.6 lb	12 H	Controls a wide range of annual grasses and broadleaf weeds in established annual and perennial ornamentals (see plant label). DO NOT apply to newly planted ornamentals until the plants have been watered, soil has firmly settled, and no cracks are present. Some commonly planted herbaceous ornamentals on the Snapshot label include Geranium, Hosta, Patunia, and others. Apply one-half inch of irrigation water, or uniformly incorporate into the soil to a depth of 1 to 2 inches, if rainfall is not received within 3 days of application.
trifluralin Preen 1.47G	1.47% granular	6.25 lb ¹	After water in is dry	Apply to established flowers and ornamentals to control annual grasses and some broadleaf weeds from seed. Optimum weed control is obtained when rainfall or irrigation occurs within a few hours of application. If used in combination with mulch, apply over the surface of the mulch after spreading mulch around ornamentals. DO NOT apply to seedbeds or to non-rooted plants, or around plants when foliage is wet. Preen is also available on a dry fertilizer carrier.
			POST-E	MERGENCE
clethodim Envoy Plus	0.97 lb/gal	0.3-0.7 fl oz	24 H	Apply to actively-growing grasses that are not drought stressed. Make sure to add a crop oil concentrate at 1% V/V to the spray solution. Refer to label for recommended list of ornamentals. Envoy will not control broadleaf weeds or nutsedges.
fluazifop-p Grass-B-Gon and others	See label.	See label.	12 H	Apply to actively growing grasses, which are not drought stressed. Refer to label to determine if the addition of a surfactant is necessary. Refer to label for recommended list of ornamentals. <i>Fluazifop</i> will not control broadleaf weeds or nutsedges.
sethoxydim Segment Segment II	1 lb/gal 1.5 lb/gal	0.8–1.4 fl oz 0.6–0.9 fl oz	12 H	Apply to actively growing grasses, which are not drought stressed. DO NOT add a crop oil concentrate or surfactant to Vantage (the formulation contains an adjuvant). Vantage will not control broadleaf weeds or nutsedges.

¹ All preemergent herbicides require a rain or irrigation event in order for herbicide activation to occur (approximately 0.5 to 1.0 inch of water). If no rain event occurs and no supplemental watering is provided after a preemergent herbicide application, weed control can be extremely poor or totally fail.

² Most preemergent herbicides will only control germinating weed seed. Generally, they will not control weeds after they have become established (1st or 2nd true leaf), and most preemergent herbicides will not control weeds coming from vegetative structures (i.e. yellow and purple nutsedge).

³ As long as the treated area remains undisturbed, most pre-emergent herbicides will provide weed control for 2 to 4 months in most growing mediums.

⁴ Do not apply preemergence herbicides to seeded beds or to non-rooted plants or in greenhouses.

WEED CONTROL FOR HOMEOWNERS: ANNUAL FLOWERS AND PERRENIALS

HERBICIDE	FORMULATION	AMOUNT OF FORMULATION/ GAL PER 1000 SQ FT	REINTRY INTERVAL (REI) IN HOURS	REMARKS AND PRECAUTIONS
		AREAS ADJACEN	T TO ORNAMEN	TAL FLOWERS (POST-EMERGENCE)
glufosinate Finale 1L	1 lb/gal	2.2-4.4 fl oz	12 H	Apply <i>glufosinate</i> to control emerged weeds. DO NOT allow spray mist to contact ornamental foliage or severe injury will occur. <i>Glufosinate</i> performs poorly on well-established perennial weeds with extensive underground storage structures (Florida betony, bermudagrass, nutsedge, etc.)
glyphosate various trade names and formulations available	See label.	See label.	4 H	Apply <i>glyphosate</i> to control most emerged weeds. DO NOT allow spray mist to contact ornamental foliage, green bark, base of thin bark plants (i.e. Crapemyrtle), or stumps of cuts sucker or severe injury could occur. Avoid applications to drought-stressed weeds.
halosulfuron Sedgehammer 75DF Manage 75 DF Prosedge	75DF	0.9 grams (spray weeds to runoff)	12 H	Apply as a post-directed application to control yellow and purple nutsedge in established woody ornamentals. Apply with ½ fluid ounce of nonionic surfactant per gallon of water. DO NOT allow the spray to contact foliage of desirable woody ornamentals. Wait 3 months after transplanting before application. On areas scheduled to be planted in woody ornamentals wait 4 weeks between application and transplanting.
sulfosulfuron Certainty 75DF	75% Dry flowable	0.48-0.128 grams/2 gal water	12 H	Apply as a post-directed application to control yellow and purple nutsedge and some broadleaf weeds in some established woody ornamentals, perennial ground covers, and ornamentals grasses. Apply with a nonionic surfactant at recommended rates. DO NOT allow the spray to contact foliage of desirable woody ornamentals. Wait 14 days weeks between application and planting.

WEED CONTROL FOR HOMEOWNERS: WOODY ORNAMENTALS¹

Mark A. Czarnota, Extension Horticulturist—Weed Science

HERBICIDE	AMOUNT OF FORMULATION/ GAL PER 1000 SQ FT	REINTRY INTERVAL (REI) IN HOURS	REMARKS AND PRECAUTIONS
	WEED	CONTROL AND WO	ODY PLANT MATERIAL / GROUND COVERS
		PR	E-EMERGENCE ^{2,3,4,5}
dimethenamid-P + pendimethalin Freehand 1.75 G	1.75–3.5 lb	12 H	Controls a wide range of annual grasses and broadleaf weeds in established woody ornamentals (see plant label). DO NOT apply to newly planted ornamentals until plants have been watered, the soil has firmly settled, and no cracks are present. Apply one-half inch of irrigation water, if rainfall is not received within 3 days of application
dichlobenil Casoron 4G Casoron CS	2.3–3.4 lb 2.2–4.3 oz	12 H	USE ONLY ON ESTABLISHED WOODY ORNAMENTALS. Apply between Nov. 15 and Feb. 15. Good product for controlling non-seed bearing plants (i.e. Bracken fern (<i>Pteridium aquilinum</i>)), winter annuals, and Florida betony (<i>Stachys floridana</i>). After application, Casoron must be watered in with ½–1 inch of water. DO NOT apply until 4 weeks after transplanting woody ornamentals.
dithiopyr Preen for Southern Gardens 0.27 granular	4.5 lb	12 H	Can be applied around many annual, perennial and woody plants (see plant label). Do not apply more than 12.75 lbs/1000 sq ft. If used in combination with mulch, apply over the surface of the mulch after spreading mulch around ornamentals. Also available on a dry fertilizer carrier.

- 1 There are many other herbicides available to the homeowner that are not restricted use (see Commercial Edition—Commercial Grounds Maintenance Weed Control Section). Most of these herbicides are available in larger packaging and can be harder to attain. Moreover, most of these commercial products can pose greater potential for plant injury if used improperly.
- 2 All preemergent herbicides require a rain or irrigation event in order for herbicide activation to occur (approximately 0.5 to 1.0 inch of water). If no rain event occurs and no supplemental watering is provided after a preemergent herbicide application, weed control can be extremely poor or totally fail.
- 3 Most preemergent herbicides will only control germinating weed seed. Generally, they will not control weeds after they have become established (1st or 2nd true leaf), and most preemergent herbicides will not control weeds coming from vegetative structures (i.e. yellow and purple nutsedge).
- 4 As long as the treated area remains undisturbed, most pre-emergent herbicides will provide weed control for 2 to 4 months in most growing mediums.
- 5 Do not apply preemergence herbicides to seeded beds or to non-rooted plants or in greenhouses.

HERBICIDE	AMOUNT OF FORMULATION/ GAL PER 1000 SQ FT	REINTRY INTERVAL (REI) IN HOURS	REMARKS AND PRECAUTIONS
		PRE-EM	ERGENCE ^{2, 3, 4, 5} (continued)
indaziflam Specticle 0.0224 GR	2.3-4.6 lb	12 H	Controls a wide range of annual weeds in select woody ornamentals. Provides one of the longest pre-emergence weed control windows of any pre-emergence herbicide. Do not apply any more than 9.2 lb pr/1000 sq ft in a 12-month period.
isoxaben + trifluralin Snapshot 2.5 TG	2.3-4.6 lb		Controls a wide range of annual weeds in certain woody ornamentals, trees and groundcovers. DO NOT apply to newly planted ornamentals until the soil has firmly settled and no cracks are present. Not recommended for applications to bedding plants. Groundcovers should be established and well-rooted prior to application. Apply ½ inches of irrigation water, or uniformly incorporate into the soil to a depth of 1–2 inches if rainfall is not received within 3 days of application.
trifluralin Treflan 5 G Preen 1.47 G	1.8 lb 6.25 lb	After water in is dry	Apply prior to planting and to established plants. Optimum weed control is obtained when rainfall or irrigation occurs within a few hours of application. DO NOT apply to newly planted groundcovers. DO NOT apply Treflan 5G to ornamentals with wet foliage. DO NOT apply to seeded beds or to non-rooted plants. Use the <i>trifluralin</i> product that is registered for ornamental use. Preen is also available on dry fertilizer carriers.
benefin + oryzalin XL 2 G Amaze 2 G	4.6–6.9 lb 4.5 lb	24 H	Can be applied to a wide array of established ornamentals. A half inch of rainfall or irrigation water within 72 hours is required to activate herbicide.
		F	POST-EMERGENCE ¹
glufosinate Finale 1 lb/gal	2.2-4.4 fl oz	12 H	Apply <i>glufosinate</i> to kill most emerged weeds. DO NOT allow spray mist to contact ornamental foliage or severe injury will occur. Avoid applications to drought stressed weeds. Ready-to-use, premixed formulations of Finale are also available. Finale performs poorly on well-established perennial weeds with extensive underground storage systems (Florida betony, bermudagrass, nutsedge, etc.)
glyphosate various trade names and formulations available	See label.	4 H	Apply <i>glyphosate</i> to kill most emerged weeds. DO NOT allow spray mist to contact ornamental foliage, green bark, base of thin bark plants (i.e. Crapemyrtle), or stumps of cuts sucker or severe injury could occur. Avoid applications to drought stressed weeds. <i>Glyphosate</i> is very water soluble and can be tanked mixed with many preemergent herbicides. Refer to <i>glyphosate</i> label to determine compatibility with preemergent herbicides.
halosulfuron Manage 75DF SedgeHammer 75DF Prosedge	0.9 grams (spray weeds to runoff)	12 H	Apply as a post-directed application to control yellow and purple nutsedge in established woody ornamentals. Apply with ½ fluid ounce of nonionic surfactant per gallon of water. DO NOT allow the spray to contact foliage of desirable woody ornamentals. Wait 3 months after transplanting before application. On areas scheduled to be planted in woody ornamentals wait 4 weeks between application and transplanting.
potassium salts of fatty acids Scythe 4.2L and various other trade names are available	See label.	12 H	Apply Scythe to kill most emerged weeds. DO NOT allow spray mist to contact ornamental foliage or severe injury will occur. Avoid applications to drought stressed weeds. Scythe performs poorly on well-established perennial weeds with extensive underground storage systems (Florida betony, bermudagrass, nutsedge, etc.). Also provides postemergent control of mosses, algae, liverworts, and lichens inside greenhouses, on growing containers and benches.
sulfosulfuron Certainty 75DF 75% Dry Flowable	0.48-0.128 grams / 2 gal water	12 H	Apply as a post-directed application to control yellow and purple nutsedge and some broadleaf weeds in some established woody ornamentals, perennial ground covers, and ornamentals grasses. Apply with a nonionic surfactant at recommended rates. DO NOT allow the spray to contact foliage of desirable woody ornamentals. Wait 14 days between application and planting.

¹ There are many other herbicides available to the homeowner that are not restricted use (see Commercial Edition—Commercial Grounds Maintenance Weed Control Section). Most of these herbicides are available in larger packaging and can be harder to attain. Moreover, most of these commercial products can pose greater potential for plant injury if used improperly.

² All preemergent herbicides require a rain or irrigation event in order for herbicide activation to occur (approximately 0.5 to 1.0 inch of water). If no rain event occurs and no supplemental watering is provided after a preemergent herbicide application, weed control can be extremely poor or totally fail.

³ Most preemergent herbicides will only control germinating weed seed. Generally, they will not control weeds after they have become established (1st or 2nd true leaf), and most preemergent herbicides will not control weeds coming from vegetative structures (i.e. yellow and purple nutsedge).

⁴ As long as the treated area remains undisturbed, most pre-emergent herbicides will provide weed control for 2 to 4 months in most growing mediums.

⁵ Do not apply preemergence herbicides to seeded beds or to non-rooted plants or in greenhouses.

WEED CONTROL FOR HOMEOWNERS: WOODY ORNAMENTALS

HERBICIDE	AMOUNT OF FORMULATION/ GAL PER 1000 SQ FT	REINTRY INTERVAL (REI) IN HOURS	REMARKS AND PRECAUTIONS
		POST-EM	ERGENCE GRASS CONTROL
clethodim Envoy Plus 0.97 lb/gal	0.3-0.7 fl oz	24 H	Apply to actively growing grasses that are not drought stressed. Make sure to add a crop oil concentrate at 1% V/V to the spray solution. Refer to label for recommended list of ornamentals. Envoy Plus will not control broadleaf weeds or nutsedges.
fluazifop-P Grass-B-Gon and others	See label.	12 H	Apply post-emergence to actively growing grasses that are not drought stressed. Refer to the label to determine if a surfactant is necessary and for a recommended list of ornamentals. <i>Fluazifop</i> will not control broadleaf weeds or nutsedges.
sethoxydim Segment 1 lb/gal Segment II 1.5 lb/ gal	0.8–1.4 fl oz 0.6–0.9 fl oz	12 H	Apply post-emergence to actively growing weedy grasses that are not drought stressed. DO NOT add a surfactant or crop oil concentrate to Vantage. Vantage will not control broadleaf weeds or nutsedges.
		ORGANIC ANI	D ORGANIC-LIKE HERBICIDES¹
Acetic acid Weed Pharm, 30% Pure Vinegar, and others	Sold as 15, 20, and 30% concentrate. Activity of weeds will depend on weed species. Try to use on young tender plants for best results. Can use at full concentrate, but can be diluted. 25 and 50% spray dilutions may provide adequate control.	All < 12 H	Currently, all the acids and oils only provide burndown capabilities and will only control plants with shallow root systems (i.e., crabgrass, bittercress, etc.). Multiple applications will be required to control deep-rooted perennials (i.e., yellow and purple nutsedge, bermudagrass, Florida betony, etc.). DO NOT allow spray mist to contact foliage of desirable plants as severe injury can occur. Avoid applications to drought stressed weeds. None of the listed products will provide pre-emergence weed control.
Citrus oil Greenmatch, Avenger Weed Killer	Some ready to use (RTU) products, but concentrates require diluted spray concentrations from 12.5% to 25% V/V (volume to volume)		
Citric acid C-Cide	Use undiluted on difficult weeds (i.e. bermudagrass). For less difficult weeds, dilute with water at 1 part C-Cide to 3 parts water or 1 part C-Cide to 2 parts water.		
Clove oil Burnout II, Matratec, and others	Some ready to use (RTU) products, but concentrates vary but usually 1 part product to 3 parts water		
Clove oil / cinnamon oil WeedZap	Make a 5% solution V/V		
Herbicidal Soap BioSafe Weed Control, Scythe, and others	Most advise making a 5–15% spray solution		
Corn Gluten Weed Prevention Plus, Luscious Lawn, others	Rates vary by product but approximately 1000–2000 lbs/A		Corn gluten provides pre-emergence weed control of weeds coming from seed in lawn and garden situations. However, corn gluten can also inhibit the germination of desirable plants coming from seed. It also adds 10% nitrogen by weight.

¹ In the United States there are several organic certifications but in any organic operation the pesticides have to be certified by OMRI (Organic Material Review Institute) the herbicides in this section are not all certified by OMRI, but are considered safer than conventional herbicide.

	dichlobenil	dimethenamid	flumioxazin	indaziflam	isoxaben	oxadiazon	simazine		
TIME OF APPLICATION:				PRE-EMERGENCE					
	PERENNIAL WEEDS (control of plants)								
bahiagrass		P	P	P	P	P	P		
bermudagrass		P	P	P	P	P	P		
dallisgrass		P	P	P	P	P	P		
nutsedge, purple	G	P	P	P	P	P	P		
nutsedge, yellow	G	F	P	P	P	P	P		
tall fescue		P	P	P	P	P	P		
wild garlic/ wild onion	G	P	P	P	P	P	P		
	(control of plant	ts from seed with	ANNUAL GRASSE pre-herbicides, co		h post-herbicides)			
annual bluegrass	G	G	Е	Е	P–F	G	G		
crabgrass	G	G	Е	Е	P-F	G	G		
goosegrass	G	G	Е	Е	P	Е			
			ALL SEEDED BROA						
1.00	(control of plant	ts from seed with					-		
bittercresses		Е	Е	Е	G	G	F		
common chickweed	G	E	Е	E	Е	G	E		
deadnettle	G			Е			G		
dodder	E			Е	T.	0	T.		
henbit	G		E	E	E	G	E		
hop clovers	G		_	Е	G	G	E		
knotweed	G		E	E	T.	G	E		
lespedeza	G			E	F	G	E		
morningglories	F	F	G	E	G	F	G		
mustards	G	G	G	E	F	E	E		
niruri/phyllanthus		E	E	E	E	G	G		
spurge	G	E	E	E	Е	F	E		
woodsorrel	G	E	E Inial Broadleai	E	Е	Е	Е		
	(control of plant	reker ts from seed with p	pre-herbicides, co	ntrol of plants wit	h post-herbicides				
clovers	G	G	Е	G	G	G	Е		
dandelion	G		Е	G	G	G	G		
dichondra	P (labeled)		Е						
docks	G		Е		G				
Florida betony	E								
mallow			Е	G		G	G		
mouseear chickweed	G		Е	G		G	G		
mugwort	E								
pennywort	G								
plantain			G		G	G			

 $E-Excellent\ Control\ (>90\%) \quad G-Good\ Control\ (70-90\%) \quad F-Fair\ Control\ (50-70\%) \quad P-Poor\ Control\ (<50\%) \quad If\ no\ symbol\ is\ given,\ weed\ response\ is\ unknown.$

ORNAMENTALS: WEED RESPONSE TO HERBICIDES

	oxyfluorfen	prodiamine	trifluralin	clethodim	clopyralid	diquat	fluazifop	glufosinate
TIME OF APPLICATION:		^ PRE-EMERGENCI				' OST-EMERGENC		
				AL WEEDS				
	l			of plants)	l	l	l	
bahiagrass	P	P	P	G	P	P	G	P
bermudagrass	P	P	P	G–E	P	P	G–E	P
dallisgrass	P	P	P	G	P	P	G	P
nutsedge, purple	P	P	P	P	P	P	P	P
nutsedge, yellow	P	P	P	P	P	P	P	P
tall fescue	P	P	P	G	P	P	G	P
wild garlic	P	P	P	P	P	P	P	P
	(control of p	lants from seed		GRASSES cides, control of	plants with pos	t-herbicides)		
annual bluegrass	G	Е	G	Е	P	G	Е	G
crabgrass	G	Е	E	Е	P	G	Е	G
goosegrass	G	G	G	Е	P	G	Е	G
	(control of n	ANNU lants from seed		ED BROADLEAF \		t-herbicides)		
bittercresses	G	G	G	Р		G	P	G
common chick weed	G	G	G	P		G	P	Е
deadnettle		G	G	P		G	P	G
dodder		P		P			P	
henbit	G	G	G	P		G	P	Е
knotweed				P			P	Е
lespedeza	G	G	G	P	E	F	P	F
morningglories		G	F	P		G	P	P
mustards	G	F	F	P		G	P	G
niruri/phyllanthus	G	G	P	P		G	P	G
spurge	G	G	G	P		G	P	G
woodsorrel	G	G	F	P		G	P	G
	(control of n	lants from seed		DADLEAF WEEDS		t-horhicidos)		
clovers	G	E E	G	P P	E E	F	P	F
dandelion	G	G	G	P	G	G	P	P
dichondra	, G	G G	G	P	P		P	1
docks	G	G	G	P	G	P	P	P
Florida betony	3	,	.	P	P	P	P	P
mallow	G	G	G	P	•	G	P	G
mouseear chickweed	G	G	G	P		G	P	G
mugwort	J	9	J	P	E	G	P	P
pennywort				P	G	G	P	P
plantain	G	G	G	P	P	G	P	F
hiailtaili	G	G	ď	r	r	d	r	r

 $E-Excellent\ Control\ (>90\%) \quad G-Good\ Control\ (70-90\%) \quad F-Fair\ Control\ (50-70\%) \quad P-Poor\ Control\ (<50\%) \quad If\ no\ symbol\ is\ given,\ weed\ response\ is\ unknown.$

ORNAMENTALS: WEED RESPONSE TO HERBICIDES

	glyphosate	halosulfuron	paraquat	pelargonic acid	sethoxydim	sulfosulfuron	triclopyr
TIME OF APPLICATION:				POST-EMERGENCE			
			PERENNIAL WEE (control of plan				
bahiagrass	G	P	P	P	G	P	P
bermudagrass	G	P	P	P	G	P	P
dallisgrass	Е	P	P	P	G	P	P
nutsedge, purple	G	Е	P	P	P	Е	P
nutsedge, yellow	G	Е	P	P	P	Е	P
tall fescue	Е	P	P	P	G	P	P
wild garlic	G	G	P		P	G	
	(control of plar	nts from seed with	ANNUAL GRASS pre-herbicides, c	ES ontrol of plants wit	th post-herbicides	s)	
annual bluegrass	Е	P	Е	G	P-F	P	P
crabgrass	G	P	G	G	E	P	P
goosegrass	Е	P	F-G	F	Е	P	P
	(control of plar		MALL SEEDED BRO pre-herbicides, c	ADLEAF WEEDS ontrol of plants wit	th post-herbicides	s)	
bittercresses	G		Е	F	P		G
common chickweed	Е		Е	G	P	G	G
deadnettle	G		Е	G	P	G	G
dodder	Е				P		
henbit	Е		Е	G	P	G	G
knotweed	Е		Е	G	P		G
lespedeza	Е			F	P	G	G
morningglories	G		F-G	F	P		G
mustards	Е		Е	G	P	G	G
niruri/phyllanthus	Е		Е		P		G
spurge	Е		Е	G	P		G
woodsorrel	Е		Е	G	P		G
	(control of plar		NNIAL BROADLE! pre-herbicides, c	AF WEEDS ontrol of plants wit	th post-herbicides	s)	
clovers	F			P-F	Р	G	G
dandelion	Е	G		P	P	G	G
dichondra	Е				P		G
docks	Е				P		G
Florida betony	G				P		G
mallow	Е			F	P		G
mouseear chickweed	Е			G	P	G	G
mugwort	Е			F	P	G	F
pennywort	E				P		G
plantain	Е				P		G

 $E-Excellent\ Control\ (>90\%) \quad G-Good\ Control\ (70-90\%) \quad F-Fair\ Control\ (50-70\%) \quad P-Poor\ Control\ (<50\%) \quad If\ no\ symbol\ is\ given,\ weed\ response\ is\ unknown.$

Prevention in the home landscape is the key to reducing diseases in and around your yard. Several disease preventive practices can be used before resorting to spraying pesticides. They include: 1) Selecting disease-free plants from accredited nurseries and garden centers; 2) Selecting resistant ornamental varieties; 3) Site selection and planning in order to grow plants that are appropriate for the site; 4) Proper plant care, including proper fertilization, irrigation, and removing dead and diseased plant parts that could harbor pathogens; and 5) Regular scouting for potential problems. The application of pesticides should be the last option for the home. Obtain an accurate identification of the problem and a recommendation from the UGA Extension system before applying any pesticides. REMEMBER TO ALWAYS READ AND FOLLOW THE LABEL CAREFULLY.

This guide has two sections: **PART A** is a list of commonly occurring plant pathogens/diseases and the materials that can be used to control them (including the active ingredient and brand name); **PART B** is a list of commonly grown herbaceous and woody ornamental plants and trees and some of the diseases that occur on

them. Plant names in PART B are listed alphabetically according to the scientific name of the plant. If it is uncertain whether a fungicide can be safely used on a plant species, a small number of plants should be treated to test for phytotoxicity prior to treating the entire crop. Always refer to the fungicide label for directions.

The products listed can be found at local garden retail centers and on-line at particular locations.

**Keep in mind this is not an all-inclusive list of plants or products. Contact your local county Extension agent for more information regarding plants or pesticide control products.

 \triangle follow all label directions carefully. \triangle

 \triangle PAY PARTICULAR ATTENTION TO RE-ENTRY PERIODS AND RE-USE INTERVALS. \triangle

PART A: LIST OF COMMONLY OCCURRING PLANT PATHOGENS/DISEASES AND MATERIALS USED TO CONTROL THEM

DISEASE	ACTIVE INGREDIENT BRAND NAME	CONTACT OR SYSTEMIC
	OOMYCETES	
Phytophthora and Pythium root/crown rot	phosphorous acid Monterey Garden Phos	Systemic
Downy mildew Phytophthora blight/dieback	chlorothalonil Daconil Ortho Garden Disease Control Hi-Yield Vegetable, Flower, Fruit, & Ornamental Fungicide Ferti-Lome Landscape & Garden Fungicide Bonide Fung-onil Gardentech Daconil	Contact
	copper hydroxide Hi-Yield Copper Fungicide Kocide 101	Contact
	copper salts Monterey Liqui-Cop Bonide Liquid Copper Fungicide Dragon Copper Fungicide	Contact
	phosphorous acid Monterey Garden Phos	Systemic

HOME ORNAMENTAL AND TREE DISEASE CONTROL GENERAL FUNGICIDE GUIDELINES

DISEASE	ACTIVE INGREDIENT BRAND NAME	CONTACT OR SYSTEMIC
	FUNGAL	<u> </u>
Botrytis blight	chlorothalonil Daconil Ortho Garden Disease Control Hi-Yield Vegetable, Flower, Fruit, & Ornamental Fungicide Ferti-Lome Landscape & Garden Fungicide Bonide Fung-onil Gardentech Daconil	Contact
Rhizoctonia root/stem rot Sclerotinia root rot	PCNB Terraclor (several manufacturers)	Contact
Southern Blight	tebuconazole BioAdvanced Disease Control Ferti-Lome 2-N-1 Systemic	Systemic
Diplodia tip blight Kabatina dieback Phomopsis dieback Phomopsis needle blight Sclerotinia stem rot Tip blight	propiconazole Bonide Infuse Ferti-Lome Liquid Systemic II	Systemic
Powdery mildew	chlorothalonil Daconil Ferti-Lome Broad Spectrum Liquid Fungicide Ortho Garden Disease Control Hi-Yield Vegetable, Flower, Fruit, & Ornamental Fungicide Ferti-Lome Landscape & Garden Fungicide Bonide Fung-onil Gardentech Daconil	Contact
	difenoconazole Bonide Rose Shield	Systemic
	myclobutanil Spectracide Immunox Multi-purpose Fungicide Monterey Fungi-Max Ferti-Lome F-Stop	Systemic
	Neem oil Green Light Powdery Mildew RTU Ferti-Lome Triple Action RTU	Contact
	potassium bicarbonate soluble powder Monterey Bi-Carb Old Fashioned Fungicide	Contact
	propiconazole Bonide Infuse Ferti-Lome Liquid Systemic II	Systemic
	sulfur Safer Garden Fungicide Monterey Sulfur 90W Bonide Sulfur Plant Fungicide Hi-Yield Wettable Dusting Sulfur Top-Cop with Sulfur	Contact

HOME ORNAMENTAL AND TREE DISEASE CONTROL GENERAL FUNGICIDE GUIDELINES

DISEASE	ACTIVE INGREDIENT BRAND NAME	CONTACT OR SYSTEMIC
	FUNGAL (continued)	
Powdery mildew (continued)	tebuconazole BioAdvanced Insect, Disease & Mite Control BioAdvanced Rose & Flower Care BioAdvanced Disease Control Ferti-Lome 2-N-1 Systemic	Systemic
Rust	chlorothalonil Daconil Ortho Garden Disease Control Hi-Yield Vegetable, Flower, Fruit, & Ornamental Fungicide Ferti-Lome Landscape & Garden Fungicide Bonide Fung-onil Gardentech Daconil	Contact
	difenoconazole Bonide Rose Shield	Systemic
	myclobutanil Spectracide Immunox Multi-purpose Fungicide Monterey Fungi-Max Ferti-Lome F-Stop	Systemic
	tebucanazole BioAdvanced Insect, Disease & Mite Control BioAdvanced Rose & Flower Care BioAdvanced Disease Control Ferti-Lome 2-N-1 Systemic	Systemic
Leaf spots and boxwood blight (Alternaria, Anthracnose, Cercospora, Cladosporium, Cylindrocladium, Entomosporium, Gnomonia, Macrophoma, Mycosphaerella, Phyllosticta, Purple-eye, Septoria, Zonate)	chlorothalonil Daconil Ferti-Lome Broad Spectrum Liquid Fungicide Hi-Yield Daconil Garden Tech Fungicide Disease Control Bonide Fung-onil Multi-Purpose Fungicide Ortho Garden Disease Control	Contact
	difenoconazole Bonide Rose Shield	Systemic
	propiconazole Bonide Infuse Ferti-Lome Liquid Systemic II	Systemic
	tebuconazole BioAdvanced Insect, Disease & Mite Control BioAdvanced Rose & Flower Care BioAdvanced Disease Control Ferti-Lome 2-N-1 Systemic	Systemic

HOME ORNAMENTAL AND TREE DISEASE CONTROL GENERAL FUNGICIDE GUIDELINES

	ACTIVE INGREDIENT	
DISEASE	BRAND NAME	CONTACT OR SYSTEMIC
	FUNGAL (continued)	
Black spot (Rose) Curvularia leaf blight Leaf streak (daylily) Scab	captan Bonide Captan Dragon Captan Wettable Powder Hi-Yield Captan 50% WP	Contact
Spot anthracnose Volutella blight Web blight Passalora needle blight	copper hydroxide Kocide 101 Nu-Cop 50DF	Contact
	copper salts Monterey Liqui-Cop Bonide Liquid Copper Fungicide	Contact
	difenoconazole Bonide Rose Shield	Systemic
	mancozeb Bonide Mancozeb Flowable	Contact
	myclobutanil Monterey Fungi-Max Ferti-Lome F-Stop	Systemic
	propiconazole Bonide Infuse Ferti-Lome Liquid Systemic II	Systemic
	tebuconazole BioAdvanced Insect, Disease & Mite Control BioAdvanced Rose & Flower Care	Systemic
Leaf/flower gall	chlorothalonil Daconil Ortho Garden Disease Control Hi-Yield Vegetable, Flower, Fruit, & Ornamental Fungicide Ferti-Lome Landscape & Garden Fungicide Bonide Fung-onil Gardentech Daconil	Contact
	mancozeb Bonide Mancozeb Flowable	Contact
	myclobutanil Spectracide Immunox Multi-purpose Fungicide Monterey Fungi-Max	Systemic
Cankers (various fungal pathogens)	There are various fungal pathogens that cause cankers of most part, fungicides are not an effective or practical me venting and controlling cankers on plants. Avoid stress of PRUNE infected branches at least 1 inch below infected bleach or alcohol). AVOID WATER STRESS and TREE V	eans of control. Keeping plants healthy is the key to pre- on the plants (over/under-watering and fertilization). area and sterilize pruning tools between cuts (10%

■ HOME ORNAMENTAL AND TREE DISEASE CONTROL GENERAL FUNGICIDE GUIDELINES

	BACTERIAL	
Fire blight Bacterial leaf spots	copper Bonide Copper Spray or Dust	Contact
	copper hydroxide Kocide 101 Nu-Cop 50DF	Contact
	copper salts Monterey Liqui-Cop Bonide Liquid Copper Fungicide	Contact
	copper oxinate Concern Copper Soap	Contact
	streptomycin sulfate Bonide Fire Blight Spray Ferti-Lome Fire Blight Spray	Contact
Crown gall	Important to purchase healthy plants. Biological controls at copper compounds, but may be phytotoxic.	re available. Check with county agents. Can use
	NEMATODE	
	chitin amendments Various crab/lobster meals (crushed shells) such as Neptune's Harvest	This product is a soil amendment that increases the growth of naturally occurring microorganisms that feed on nematodes (nematode bodies are composed of chitin).
	VIRUSES	
	No chemical controls for viral diseases.	

PART B: LIST OF COMMONLY GROWN ORNAMENTAL PLANTS AND TREES AND SOME OF THE DISEASES THAT OCCUR ON THEM

*This is not an all-inclusive list.

PLANT SCIENTIFIC NAME (Common Name)	DISEASES
A	
Abelia	Foliar nematode, Sclerotinia blight, powdery mildew, root knot nematode
Abies (Fir)	Botrytis blight, Cytospora canker, oedema (cultural), Phytophthora root/crown rot
Abutilon (Velvet Leaf/Flowering Maple)	Rhizoctonia root rot, web or aerial blight, root knot nematode, stem rot, root rot, rust
Acer (Maple, Box Elder)	Anthracnose, Bacterial scorch, Bacterial Wetwood, Botryosphaeria dieback, Zonate leaf spot, Nectria canker, Phomopsis dieback, tar spot, Valsa canker, Verticillium wilt, Phyllosticta leaf spot
Achillea (Yarrow)	Powdery mildew
Aconitum (Monkshood)	Southern blight
Aesculus (Horse Chestnut, Buckeye)	Guignardia blotch
Agave (Century Plant)	Crown rot, Anthracnose, Leaf spot
Ageratum (Floss Flower)	Southern blight, Pythium & Phytophthora root rots, Botrytis blight, rust, powdery mildew
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, Rhizoctonia web blight
Albizia (Mimosa)	Fusarium wilt, Crown dieback (Fusarium)
Alcea (Hollyhock)	Root knot nematode, Rust

PLANT SCIENTIFIC NAME (Common Name)) DISEASES
Allium (Ornamental Onion)	White rot
Aloe	Root rot (Pythium)
Amelanchier (Service Berry)	Rust, Entomosporium leaf spot, bacterial fire blight, powdery mildew
Anemone	Foliar nematode, Phytophthora root rot, Rust, leaf spot, downy mildew
Anise-tree (Illicium)	Sooty mold, leaf spot (algal)
Antirrhinum (Snapdragon)	Cercospora leaf spot, downy mildew, Phytophthora root/crown rot, Pythium root rot, Rhizoctonia stem rot, Rust, leaf rust, viral diseases, Botrytis blight
Aquilegia (Columbine)	Pythium root rot, crown rot, Powdery mildew
Arctostaphylos (Bearberry)	Pythium root rot, Phytophthora root rot
Arisaema (Jack-in-the-Pulpit)	Rust
Armeria (Sea Thrift)	Rhizoctonia web blight
Aronia (Chokeberry)	Pythium root rot
Aegopodium (Goutweed)	Leaf spot
Artemisia (Dusty Miller)	Rhizoctonia root/ a stem rot, Phytophthora root rot
Asclepias (Milkweed)	Anthracnose
Asclepias tuberosa (Butterfly Weed)	Rhizoctonia stem rot
Asimina (Pawpaw)	Nectria canker, leaf spots
Aster	Powdery mildew, Rust, leaf spot
Astilbe	Pythium root rot, root knot nematodes
Aucuba	Anthracnose, Botryosphaeria dieback, leaf spots, Phomopsis dieback, ring nematode
В	
Bamboo	Pythium root rot, leaf rust, leaf blight
Bamboo Bedding plants	Pythium root rot, leaf rust, leaf blight Damping off (Pythium), Phytopthora and Rhizoctonia root rots
	<u> </u>
Bedding plants	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root
Bedding plants Begonia	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode
Bedding plants Begonia Berberis (Barberry)	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot
Bedding plants Begonia Berberis (Barberry) Bergenia	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch)	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood)	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode, Macrophoma leaf spot, Phytophthora root rot, Volutella blight
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood)	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode,
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood)	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode, Macrophoma leaf spot, Phytophthora root rot, Volutella blight
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood) C Cactus	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode, Macrophoma leaf spot, Phytophthora root rot, Volutella blight Pythium root rot
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood) C Cactus Caladium	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode, Macrophoma leaf spot, Phytophthora root rot, Volutella blight Pythium root rot Pythium root rot
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood) C Cactus Caladium Calibrachoa (Million Bells)	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode, Macrophoma leaf spot, Phytophthora root rot, Volutella blight Pythium root rot Pythium root rot Phytophthora crown rot, Rhizoctonia root rot, Southern blight, Black root rot, powdery mildew
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood) C Cactus Caladium Calibrachoa (Million Bells) Callicarpa (Beauty Berry)	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode, Macrophoma leaf spot, Phytophthora root rot, Volutella blight Pythium root rot Pythium root rot Phytophthora crown rot, Rhizoctonia root rot, Southern blight, Black root rot, powdery mildew No serious problems
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood) C Cactus Caladium Calibrachoa (Million Bells) Callicarpa (Beauty Berry) Calocedrus (Incense Cedar)	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode, Macrophoma leaf spot, Phytophthora root rot, Volutella blight Pythium root rot Pythium root rot Phytophthora crown rot, Rhizoctonia root rot, Southern blight, Black root rot, powdery mildew No serious problems Seiridium canker Anthracnose, Botryosphaeria dieback, Exobasidium leaf gall, leaf spot, oedema (nutritional), petal/
Bedding plants Begonia Berberis (Barberry) Bergenia Betula (Birch) Buddleia (Butterfly Bush) Buxus (Boxwood) C Cactus Caladium Calibrachoa (Million Bells) Callicarpa (Beauty Berry) Calocedrus (Incense Cedar) Camellia	Damping off (Pythium), Phytopthora and Rhizoctonia root rots Anthracnose, Botrytis blight, Fusarium stem rot, Powdery mildew, Rhizoctonia root/stem rot, root knot nematode Phytophthora root rot Pythium root rot, foliar nematode Anthracnose, Botryosphaeria dieback, Botrytis blight, red heart, Septoria leaf spot, rust Phytophthora root rot, Rhizoctonia root rot, foliar nematode, downy mildew Botryosphaeria dieback, boxwood Blight, Boxwood dieback (Colletotrichum), Lesion nematode, Macrophoma leaf spot, Phytophthora root rot, Volutella blight Pythium root rot Pythium root rot Phytophthora crown rot, Rhizoctonia root rot, Southern blight, Black root rot, powdery mildew No serious problems Seiridium canker Anthracnose, Botryosphaeria dieback, Exobasidium leaf gall, leaf spot, oedema (nutritional), petal/flower blight, Phytophthora root rot, Pythium root rot, viral disease

PLANT SCIENTIFIC NAME (Common Name)	DISEASES
Carpinus (Hornbeam)	Pythium root rot, cankers
Capsicum (Ornamental Pepper)	Bacterial leaf spot, Phytophthora crown 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
Castanea (Chestnut)	Chestnut blight canker
Catalpa	Bacterial wetwood, Cercospora leaf spot
Catharanthus (Madagascar Periwinkle/ Vinca)	Black root rot, Botrytis blight, Phytophthora blight, Pythium root rot, Rhizoctonia stem/root rot
Cattleya (Orchid)	Bacterial brown spot
Cedrus (Cedar)	Phytophthora root rot, Phomopsis needle/twig blight
Celosia (Cockscomb)	Pythium root rot, Rhizoctonia root rot, leaf spot
Cercis (Redbud)	Botryosphaeria dieback, Botrytis blight, Pseudocercospora leaf spot, Verticillium wilt
Chamaecyparis (Falsecypress)	Phytophthora root rot, Seiridium canker, Rhizoctonia web blight
Chionanthus (Fringe Tree)	Leaf spot
Chrysanthemum (Shasta Daisy, Mum)	Pythium root rot, web blight, Rust, Powdery mildew, foliar nematode, Fusarium stem rot
Chrysogenum (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 root/crown rot
Coreopsis (Tickseed)	Botrytis blight, Rhizoctonia root/stem rot, rust, viral disease
Cornus (Dogwood)	Anthracnose, Botryosphaeria 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
Cotinus (Smoke Tree)	Anthracnose, Phytophthora root rot
Cotoneaster	Leaf spot, Phytophthora root rot, web blight, fire blight
Crassula (Jade Plant)	Oedema, Pythium root rot
Crataegus (Hawthorn)	Cercospora leaf spot, Entomosporium leaf spot, rust, fire blight
Cryptomeria (Japanese Cedar)	Needle blight, Phomopsis twig blight, Phytophthora root rot
Cupressus (Cypress)	Botryosphaeria dieback, Kabatina dieback, tip blights, Phytophthora root rot, Seiridium canker, Passalora needle blight
Cyclamen	Fusarium Wilt, bacterial soft rot
Cymbidium (Orchid)	Viral disease, Cercospora leaf spot
D	
Dahlia	Crown gall, Powdery mildew, tuber rot (fungal-Fusarium and Botrytis), root rot, viral disease (mosaic)
Daphne	Anthracnose, Phytophthora root/stem rot, Southern blight
Davidia (Dove Tree)	Phomopsis dieback

Dendranthema (Chrysanthemun) Bacterial Leaf spot, Borryis klight, Mysosphacrella ray blight, Phytosphtona not rot, powdery mildew, Pythium root rotem rot, Rhizoctonia rot rot, Septoria leaf spot, Leaf rust Dianthus (Carnation) Alternaria Leaf spot, Borryis klight, Pusarium stem rot, powdery mildew, Rhizocionia stem rot, rust, Rizocionia (Septor) Diagitalis (Foxglove) Black root rot, Fusarium root rot, Pythium root rot, Anthracnose Dimorphothoca (African Daisy) Botry Stephan Dackacean Pusarium blight, Pythium root rot Bichloria (Coneflower) Aster yellows, foliar nematodes, Pythium root rot, viral disease Eichhoria (Water Hyacinths) Leaf spot Elacagmis (Autumn Olive) Phytophibror a root rot Elacagmis (Autumn Olive) Phytophibror a root rot Ejichylyllum (Cercus) Oedem (nutritional) Epiphyllum (Cercus) Phytophibror a root rot Eica (Heather) Phytophibror a root rot Eira (Heather) Phytophibror a root rot Eardylus Antiracroose, Botrysophaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, Phytophibror a root rot Establica (Hasher) Powdery mildew Epiphorbia pulcherima (Poissatia) Bartinacroose, Botrysophaeria dieback, crown gall, Fusarium canker, Phytophibror a root rot, scale ria blight, Eu	PLANT SCIENTIFIC NAME (Common Name	DISEASES
Digitalis (Foxglove) Black root rot, Fusarium root rot, Pythium root rot, Anthracnose Digitalis (Foxglove) Black root rot, Fusarium root rot, Pythium root rot, Anthracnose Dimorphotheca (African Daisy) Bortytis blight. Dracaena Fusarium blight. Pythium root rot Eleacana (Gnellower) Aster yellows, foliar nematodes, Pythium root rot, viral disease Eleacagnus (Autumn Olive) Aster yellows, foliar nematodes, Pythium root rot, viral disease Eleacagnus (Autumn Olive) Phytophthora root rot Elphyphyllum (Cercus) Oedema (mutritional) Epipermum (Pothos) Phytophthora storn rot Erica (Heather) Phytophthora storn rot Erica (Heather) Anthracnose, Botryosphaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, Phytophthora root rot rot rot rot, powdery mildew. Pythium root rot Euonymus Powdery mildew. Pythium root rot Euphorbia (Spurge) Anthracnose, Botryosphaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, Phytophthora root rot Eustoma (Lisiandus) Botrytis blight, Fusarium stem/root rot Fascum (Perstan Violet) Bateria blight, bacterial blea's post, Bortytis blight, powdery mildew. Pythium root rot, scale Fastisia Leaf spot Fastisia An	Dendranthema (Chrysanthemum)	
Dimorphotheca (African Daisy) Botrytis blight Dracaena Pusarium blight, Pythium root rot Duchesnea (Indian Strawberry) Rust Echinacea (Coneflower) A ster yellows, foliar nematodes, Pythium root rot, viral disease Eichinacea (Coneflower) A ster yellows, foliar nematodes, Pythium root rot, viral disease Eichinacea (Coneflower) A ster yellows, foliar nematodes, Pythium root rot, viral disease Eichinacea (Coneflower) A ster yellows, foliar nematodes, Pythium root rot, viral disease Elacagnus (Autumn Olive) Phytophthora root rot Ejphyllum (Cercus) Oedema (nutritional) Epiperemum (Pothos) Phytophthora stem rot Epiperemum (Pothos) Phytophthora stem rot Epiperemum (Pothos) Phytophthora stem rot Euclathery Phytophthora stem rot Euclaphrus Anthracnose, Botryosphaeria dieback, crown gall, Pusarium canker, Phytophthum root rot, scab Eusoma (Lisianthus) Botrytis blight, Eusarium stem/root rot Exacum (Persian Violet) Viral disease Fagus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora troot rot, Powdery mildew, scab Patsia Leaf spot Estude h	Dianthus (Carnation)	
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Ethinacea (Coneflower) Aster yellows, foliar nematodes, Pythium root rot, viral disease Eichhornia (Water Hyacinths) Leaf spot Elacagnus (Autumn Olive) Phytophthora root rot Epiphyllum (Cercus) Oedema (nutritional) Epipiernmum (Pothos) Phytophthora root rot Erica (Heather) Phytophthora root rot Eucalyptus Anthracnose, Botryosphaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, Phytophthora root rot, powdery mildew. Pythium root rot Euonymus Powdery mildew. Pythium root rot Euonymus Anthracnose, Botryosphaeria dieback Euphorbia (Spurge) Anthracnose, Botryosphaeria dieback Euphorbia pulcherima (Poinsettia) Bacteria blight, bacterial leaf spot, Botrytis blight, powdery mildew, Pythium root rot, scab Eustoma (Lisianthus) Botrytis blight, Fusarium stem/root rot Fascum (Persian Violet) Viral disease ***Estisa Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsisa Leaf spot Fatsisdera (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Pig) Anthracnose, Phomopsis gall Forsythia	Dracaena	Fusarium blight, Pythium root rot
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Epipremnum (Pothos) Phytophthora stem rot Erica (Heather) Phytophthora root rot Eucalyptus Anthracnose, Botryosphaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, Phytophthora root rot, powdery mildew, Pythium root rot Euonymus Powdery mildew Euphorbia (Spurge) Anthracnose, Botryosphaeria dieback Euphorbia pulcherima (Poinsettia) Bacteria blight, bacterial leaf spot, Botrytis blight, powdery mildew, Pythium root rot, scab Eustoma (Lisianthus) Botrytis blight, Fusarium stem/root rot Eustoma (Lisianthus) Viral disease Fagus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsia Leaf spot Fatsiae (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phytophthora root rot Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Risarium root/stem rot, Sclerotinia twig blight, Fusarium (Ash) Forsythia Anthracnose, Phytophthora root rot Fusions (Fig) Anthracnose, Schylosys, Schorysphaeria canker, rust <td< td=""><td>Elaeagnus (Autumn Olive)</td><td>Phytophthora root rot</td></td<>	Elaeagnus (Autumn Olive)	Phytophthora root rot
Erica (Heather) Phytophthora root rot Eucalyptus Anthracnose, Botryosphaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, Phytophthora root rot, powdery mildew. Pythium root rot Euonymus Powdery mildew Euphorbia (Spurge) Anthracnose, Botryosphaeria dieback Euphorbia pulcherima (Poinsettia) Bacteria blight, bacterial leaf spot, Botrytis blight, powdery mildew, Pythium root rot, scab Eustoma (Lisianthus) Botrytis blight, Fusarium stem/root rot Exacum (Persian Violet) Viral disease **Pagus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsia Leaf spot Fatshedra (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phomopsis gall Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust **C** Gallardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Epiphyllum (Cereus)	Oedema (nutritional)
Eucalyptus Anthracnose, Botryosphaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, Phytophthora root rot, powdery mildew Euphorbia (Spurge) Anthracnose, Botryosphaeria dieback Euphorbia pulcherima (Poinsettia) Bacteria blight, bacterial leaf spot, Botrytis blight, powdery mildew, Pythium root rot, scab Eustoma (Lisianthus) Botrytis blight, Fusarium stem/root rot Exacum (Persian Violet) Viral disease Fasus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsia Leaf spot Eatshedra (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phomopsis gall Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Caillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gonphrena (Globe Amaranth) Leaf spot, root knot nematode	Epipremnum (Pothos)	Phytophthora stem rot
EuonymusPowdery mildewEuphorbia (Spurge)Anthracnose, Botryosphaeria diebackEuphorbia pulcherima (Poinsettia)Bacteria blight, bacterial leaf spot, Botrytis blight, powdery mildew, Pythium root rot, scabEustoma (Lisianthus)Botrytis blight, Fusarium stem/root rotExacum (Persian Violet)Viral disease***********************************	Erica (Heather)	Phytophthora root rot
Euphorbia (Spurge) Anthracnose, Botryosphaeria dieback Euphorbia pulcherima (Poinsettia) Bacteria blight, bacterial leaf spot, Botrytis blight, powdery mildew, Pythium root rot, scab Eustoma (Lisianthus) Botrytis blight, Fusarium stem/root rot Exacum (Persian Violet) Viral disease Fessus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsia Leaf spot Fatshedra (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phytophthora root rot Fraxinus (Ash) Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Gaillardia (Blanket Flower) Pythium root rot, White smut Gailum (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Eucalyptus	Anthracnose, Botryosphaeria dieback, crown gall, Fusarium canker, Phomopsis dieback, Phytophthora root rot, powdery mildew, Pythium root rot
Euphorbia pulcherima (Poinsettia) Bacteria blight, bacterial leaf spot, Botrytis blight, powdery mildew, Pythium root rot, scab Eustoma (Lisianthus) Botrytis blight, Fusarium stem/root rot Exacum (Persian Violet) Vial disease Fagus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsia Leaf spot Fatshedra (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phytophthora root rot Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight, Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Euonymus	Powdery mildew
Eustoma (Lisianthus) Botrytis blight, Fusarium stem/root rot Exacum (Persian Violet) Viral disease Fagus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsia Leaf spot Fatshedra (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phomopsis gall Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Gallium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Euphorbia (Spurge)	Anthracnose, Botryosphaeria dieback
Exacum (Persian Violet) Viral disease Fagus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsia Leaf spot Fatshedra (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phomopsis gall Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Euphorbia pulcherima (Poinsettia)	Bacteria blight, bacterial leaf spot, Botrytis blight, powdery mildew, Pythium root rot, scab
Fagus (Beech) Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker Fatsia Leaf spot Fatshedra (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phomopsis gall Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust C Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Eustoma (Lisianthus)	Botrytis blight, Fusarium stem/root rot
FatsiaLeaf spotFatshedra (Bush Ivy)Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scabFicus (Fig)Anthracnose, Phytophthora root rotFicus benjamina (Weeping Fig)Anthracnose, Phomopsis gallForsythiaBotryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blightFraxinus (Ash)Anthracnose, ash yellows, Botryosphaeria canker, rustGaillardia (Blanket Flower)Pythium root rot, White smutGalium (Sweet Woodruff)Rhizoctonia stem/root rot, Southern blightGardeniaAnthracnose, Phytophthora crown and root rotGerbera (African Daisy)Pythium root rot, Botrytis blightGladiolusBotrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scabGleditsea (Honeylocust)Botryosphaeria canker, Thyronectria cankerGloxinia (Sinningia)Viral diseaseGomphrena (Globe Amaranth)Leaf spot, root knot nematode	Exacum (Persian Violet)	Viral disease
FatsiaLeaf spotFatshedra (Bush Ivy)Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scabFicus (Fig)Anthracnose, Phytophthora root rotFicus benjamina (Weeping Fig)Anthracnose, Phomopsis gallForsythiaBotryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blightFraxinus (Ash)Anthracnose, ash yellows, Botryosphaeria canker, rustGaillardia (Blanket Flower)Pythium root rot, White smutGalium (Sweet Woodruff)Rhizoctonia stem/root rot, Southern blightGardeniaAnthracnose, Phytophthora crown and root rotGerbera (African Daisy)Pythium root rot, Botrytis blightGladiolusBotrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scabGleditsea (Honeylocust)Botryosphaeria canker, Thyronectria cankerGloxinia (Sinningia)Viral diseaseGomphrena (Globe Amaranth)Leaf spot, root knot nematode	F	
Fatshedra (Bush Ivy) Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phomopsis gall Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Fagus (Beech)	Anthracnose, Botryosphaeria canker, Hypoxylon canker, Phytophthora trunk canker
Ficus (Fig) Anthracnose, Phytophthora root rot Ficus benjamina (Weeping Fig) Anthracnose, Phomopsis gall Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Fatsia	Leaf spot
Ficus benjamina (Weeping Fig) Anthracnose, Phomopsis gall Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Fatshedra (Bush Ivy)	Botrytis blight, Fusarium root/stem rot, Phomopsis blight, Rhizoctonia root rot, Powdery mildew, scab
Forsythia Botryosphaeria dieback, crown gall, Phomopsis gall, Phytophthora root rot, Sclerotinia twig blight, Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Ficus (Fig)	Anthracnose, Phytophthora root rot
Rhizoctonia web blight Fraxinus (Ash) Anthracnose, ash yellows, Botryosphaeria canker, rust Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Ficus benjamina (Weeping Fig)	Anthracnose, Phomopsis gall
Gaillardia (Blanket Flower) Pythium root rot, White smut Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Forsythia	
Gaillardia (Blanket Flower)Pythium root rot, White smutGalium (Sweet Woodruff)Rhizoctonia stem/root rot, Southern blightGardeniaAnthracnose, Phytophthora crown and root rotGerbera (African Daisy)Pythium root rot, Botrytis blightGladiolusBotrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scabGleditsea (Honeylocust)Botryosphaeria canker, Thyronectria cankerGloxinia (Sinningia)Viral diseaseGomphrena (Globe Amaranth)Leaf spot, root knot nematode	Fraxinus (Ash)	Anthracnose, ash yellows, Botryosphaeria canker, rust
Galium (Sweet Woodruff) Rhizoctonia stem/root rot, Southern blight Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode		
Gardenia Anthracnose, Phytophthora crown and root rot Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Gaillardia (Blanket Flower)	Pythium root rot, White smut
Gerbera (African Daisy) Pythium root rot, Botrytis blight Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Galium (Sweet Woodruff)	Rhizoctonia stem/root rot, Southern blight
Gladiolus Botrytis leaf blight, Curvularia leaf blight, Fusarium yellows, Penicillium corm rot, Rhizoctonia corm rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Gardenia	Anthracnose, Phytophthora crown and root rot
rot, aster yellows, scab Gleditsea (Honeylocust) Botryosphaeria canker, Thyronectria canker Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Gerbera (African Daisy)	Pythium root rot, Botrytis blight
Gloxinia (Sinningia) Viral disease Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Gladiolus	
Gomphrena (Globe Amaranth) Leaf spot, root knot nematode	Gleditsea (Honeylocust)	Botryosphaeria canker, Thyronectria canker
·	Gloxinia (Sinningia)	Viral disease
Gypsophila (Baby's Breath) Bacterial soft rot	Gomphrena (Globe Amaranth)	Leaf spot, root knot nematode
	Gypsophila (Baby's Breath)	Bacterial soft rot

Helianth hemum (Rock Rose) Botrytis blight	PLANT SCIENTIFIC NAME (Common Name)	DISEASES
Hedera helix (English Ivy) Anthracnose, Bacterial leaf spot, oedema, Phyllosticta leaf spot, Phytophthora root rot, Pythium root rot, Rhizoctonia root rut Helianthus (Sunflower) Alternaria leaf/stem spot, powdery mildew Helichrysum (Strawflower) Helichorus (Hellebore) Anthracnose, Botrytis blight, Pythium root rot, Rhizoctonia root rot, Southern blight, downy mildew, foliar mematode Hemerocallis (Daylily) Anthracnose, dortylis blight, Pythium root rot, Rhizoctonia root rot, Southern blight, downy mildew, foliar mematode Hemerocallis (Daylily) Anthracnose, Botrytis blight, Pythium root rot, Rhizoctonia root rot, Southern blight, downy mildew, foliar mematode Hemerocallis (Daylily) Anthracnose, Botrytis blight, Cercospora leaf spot, downy mildew, leaf rust, foliar nematode Hibsicus Phytophthora root rot, Pythium root rot, viral disease Hibsicus syriacus (Rose-of-Sharon) Leaf spot Hosta Anthracnose, Botrytis blight, Cercospora leaf spot, root rot, bacterial soft rot, Southern blight, viruses (Hotsa' Virus X, INSV) Hyacinth (Hyacinthus) Bacterial soft rot, root rot, gray mold Hydrangea Anthracnose, Armillaria root rot, bacterial leaf spot, Botrytis blight, Cercospora leaf spot, Phytophthora root fot, Pythium root rot, leaf spots Insertia (St. Johnswort) Phytophthora root fot, Pythium root rot, leaf spots Illex (Holly) Anthracnose, Pythium root rot Illex (Holly) Anthracnose, Botrytis blight, Black root rot, Botryosphaeria dieback, leaf spot, root knot nematodes, oedema (nutritional), Phomopais dieback, Phytophthora root rot, Pythium root rot, Pythium root rot, Irust, are spot, web blight Illex (Holly) Anthracnose, Botrytis blight, Cadosporium leaf spot, bacterial soft rot, viral disease (mosaic) Impatiens Abernaria leaf spot, bacterial fasciation, Botrytis blight, Fusarium crown rot, rowst Injunierus virginiana (Eastern Red Ceda) Pasalora needle blight, Kabatina tip blight, Pestalotia blight, Phomoposis tip blight, cedar rusts Impatiens Injunierus virginiana (Eastern Red Ceda) Pasalora needle blight, Kabatin	н	
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Relianthus (Sunflower) Alternaria keal'stem spot, powdery mildew	Hedera helix (English Ivy)	
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Juniperus virginiana (Eastern Red Cedar) Passalora needle blight, Kabatina tip blight, Pestalotia blight, Phomopsis tip blight, cedar rusts Kalmia (Mountain Laurel) Botryosphaeria dieback, Cercospora leaf spot, Exobasidium leaf gall Lagerstroemia (Crape Myrtle) Leaf spot, powdery mildew, sooty mold Lantana Leaf spot, root knot nematode, leaf rust Laurus nobilis (Bay Laurel) Cercospora leaf spot Lavandula (Lavender) Phytophthora root rot, Pythium root rot Leucothoe (Drooping Leucothoe) Botryosphaeria dieback, Cylindrocladium leaf spot, Phyllosticta leaf spot, Phytophthora root rot Ligustrum (Privet) Anthracnose, Cercospora leaf spot, Phytophthora root rot Lilium (Lily) Anthracnose, Botrytis blight, Pythium root rot, viral disease (mosaic)	Iris	Botrytis blight, Cladosporium leaf spot, bacterial soft rot, viral disease (mosaic)
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Lilium (Lily) Anthracnose, Botrytis blight, Pythium root rot, viral disease (mosaic)	Leucothoe (Drooping Leucothoe)	$Botryosphaeria\ die back,\ Cylindro cladium\ leaf\ spot,\ Phyllosticta\ leaf\ spot,\ Phytophthora\ root\ rot$
<u> </u>	Ligustrum (Privet)	Anthracnose, Cercospora leaf spot, Phytophthora root rot
Limomium (Statice) Phytophthora root rot, Pythium root rot, Rhizoctonia root rot	Lilium (Lily)	Anthracnose, Botrytis blight, Pythium root rot, viral disease (mosaic)
	Limomium (Statice)	Phytophthora root rot, Pythium root rot, Rhizoctonia root rot

PLANT SCIENTIFIC NAME (Common Name)	DISEASES
Liquidambar (Sweet Gum)	Cercospora leaf spot, Sphaeropsis gall
Liriodendron (Tulip Tree)	Powdery mildew, sooty mold
Liriope (Lilyturf)	Anthracnose, Mycosphaerella leaf spot, Phytophthora crown rot, viral disease
Lobelia	Pythium root rot, viral disease
Lobularia (Sweet Alyssum)	Rhizoctonia root rot
Lonicera (Honeysuckle)	Botryosphaeria dieback, Botrytis blight, Herpobasidium leaf blight, powdery mildew, witches' broom
Loropetalum (Chinese Fringe flower)	Pseudocercospora leaf spot, Bacterial stem gall, Phytophthora root rot
Lupinus (Lupine)	Anthracnose, brown spot, Pythium root rot
Lysimachia (Loosestrife)	Rhizoctonia root/stem rot, Southern blight
M	
Magnolia	Bacterial leaf spot, powdery mildew
Malus (Crabapple)	Coniothyrium leaf spot, fire blight, frog-eye leaf spot, powdery mildew, rust, scab
Malva (Mallow)	Rust
Miscanthus	Leaf spot, leaf rust
Morus (Mulberry)	Berry blight, bacterial leaf blight, bacterial wetwood
Myosotis (Forget-Me-Not)	Rhizoctonia web blight
Myrica (Bayberry)	Botryosphaeria dieback, Phytophthora root rot
Myrica cerifera (Wax Myrtle)	Anthracnose, Botryosphaeria dieback, Phytophthora root rot, Septoria leaf spot
Myrtle (Myrtus)	Leaf spot, stem rot (Sclerotinia)
N	
Nandina (Heavenly Bamboo)	Cercospora leaf spot, Phytophthora root rot, Pythium root rot, viruses (CMV, PlAMV)
Narcissus (Daffodil, Jonquil)	Fusarium bulb rot & various other fungal bulb rots, leaf spot & blight, virus
Nelumbo (Water Lily)	Cercospora leaf spot
Nerium (Oleander)	Leaf spot, anthracnose, bacterial blight, sooty mold, bacterial leaf scorch
Nyssa sylvatica (Black Gum)	Anthracnose, Botryosphaeria dieback, leaf spot
0	
Ocimum basilicum (Basil)	Alternaria leaf spot, Fusarium crown rot
Ophiopogon (Mondo Grass)	Anthracnose, Phytophthora crown rot
Oxalis (Wood Sorrel)	Rust, leaf spot, root knot nematode
Oxydendrum arboreum (Sourwood)	Leaf spot
P Pachysandra	Leaf spot, Pythium root rot, southern blight, Volutella blight, virus, boxwood blight
Paeonia (Peony)	Botrytis blight, Cercospora leaf spot, Cladosporium leaf/stem blotch, Rhizoctonia root rot,
raeoma (reony)	Phytophthora blight
Parthenocissus (Boston Ivy)	Phyllosticta leaf spot
Parthenocissus quinquefolia (Virginia Creeper)	Downy mildew, leaf spot
Pelargonium (Geranium)	Bacterial blight, bacterial leaf spot, bacterial wilt, Botrytis blight, oedema (nutritional), Pythium root rot, blackleg, Rhizoctonia root rot, rust, viral disease
Petunia	Botrytis blight, Fusarium root/crown rot, Phytophthora root/crown rot and foliage blight, Pythium crown/root rot, Rhizoctonia root/stem rot, viral disease

PLANT SCIENTIFIC NAME (Common Name)	DISEASES
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, Botryosphaeria canker, Entomosporium leaf spot, powdery mildew
Physocarpus (Ninebark)	Powdery mildew, Rhizoctonia root rot
Picea (Spruce)	Cytospora canker, Phytophthora root rot, Pythium root rot, needle blight, tip blight
Pieris (Japanese Pieris)	Botryosphaeria dieback, Phomopsis canker, Phytophthora root rot
Pinus (Pine)	Armillaria root rot, Diplodia tip blight, Dothiostroma needle blight, Eastern gall rust, Fusiform rust, Lophodermium needle cast, needle rust, Phytophthora root rot, pinewood nematodes
Pistacia (Pistache)	Verticillium wilt
Platanus (Sycamore)	Anthracnose, Bacterial scorch, Botryosphaeria dieback, powdery mildew
Platycodon (Balloon Flower)	Rhizoctonia crown rot
Polygonatum (Solomon Seal)	Penicillium rot
Populus (Poplar)	Botryosphaeria canker, leaf spot
Portulaca (Purslane)	Rhizoctonia stem rot, root knot nematode, white rust, powdery mildew
Potentilla (Cinquefoil)	Foliar nematodes, rust
Pratia	Southern blight
Primula (Primrose)	Leaf spot, Pythium and Rhizoctonia root/stem rot
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, Botryosphaeria dieback, Phomopsis dieback, leaf spots, Phytophthora root rot, Pythium root rot, zonate leaf spot
Pseudotsuga (Douglas Fir)	Botryosphaeria canker, Swiss needle cast
Pyracantha (Firethorn)	Botryosphaeria dieback, fire blight, Phomopsis dieback, scab
Pyrus calleryana (Flowering Pear)	Botryosphaeria canker, Entomosporium leaf spot, fire blight, rust, Alternaria leaf spot
Q	
Quercus (Oak)	Anthracnose, Armillaria root rot, bacterial scorch, bacterial wetwood, Botryo sphaeria canker, Cylindrocladium root rot, Discula anthracnose, Hypoxylon canker, Oak leaf blister, Phomopsis dieback, powdery mildew, rust, smooth patch, spot anthracnose, Tubakia leaf spot
R	
Ranunculus (Buttercup)	Bacterial blight, web blight, viral disease (mosaic), Verticillium wilt
Rhaphiolepis (Indian Hawthorn)	Entomosporium leaf spot
Rhododendron (Azalea)	Anthracnose, Botryosphaeria dieback, Botrytis blight, Cercospora leaf spot, Colletotrichum leaf spot, Exobasidium leaf and flower gall, lesion nematodes, oedema (nutritional), Pestalotia leaf spot, petal blight, Phomopsis dieback, Phyllosticta leaf spot, Phytophthora dieback, Phytophthora root/stem rot, powdery mildew, Rhizoctonia web blight
Rhus (Sumac)	Verticillium wilt, Bot canker & dieback, powdery mildew, root rot
Rosa (Rose)	Anthracnose, black spot, Botryosphaeria 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
5	
Sagittaria (Arrowhead)	Leaf spot, leaf smut

PLANT SCIENTIFIC NAME (Common Name)	DISEASES
Salix (Willow)	Botryosphaeria 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, Botrytis blight
Sansevieria (Snake Plant)	Bacterial soft rot, leaf spots, root knot nematode, Fusarium rot
Scabiosa (Pincushion Flower)	Botrytis blight
Schefflera (Umbrella Tree)	Oedema (nutritional), 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 stem/root rot, root knot nematodes, Rhizoctonia web blight
Setcreasia (Purple Heart)	Leaf spot
Solidago (Goldenrod)	Rust, powdery mildew, leaf spot
	Leaf spot
Spiraea	•
Styrax (Silverbell)	Leaf spot
Syringa (Lilac)	Anthracnose, bacterial blight, Botrytis blight, Cercospora leaf spot, Phytophthora root rot, powdery mildew
т	
Tagetes (Marigold)	Alternaria blight, Botrytis blight, crown gall, Fusarium stem/root rot, Pythium root rot, Rhizoctonia stem rot
Taxus (Yew)	Botryosphaeria dieback, Phytophthora root rot
Thuja (Arborvitae)	Kabatina tip blight, Phomopsis twig/ needle blight, Phytophthora root rot, Pythium root rot, Seiridium twig canker, Rhizoctonia web blight, Diplodia canker/dieback
Thymus (Thyme)	Pythium root rot
Tilia (Linden)	Spot anthracnose, white rot
Tradescantia virginica (Spiderwort)	Southern blight
Tsuga (Hemlock)	Armillaria root rot, damping-off, rust
Tulipa (Tulip)	Botrytis blight, Fusarium basal rot, bulb rot (various fungi), virus color breaking
U	
Ulmus (Elm)	Bacterial wetwood, bacterial leaf scorch, Botryosphaeria canker, Cytospora canker, Dutch elm disease, Verticillium wilt
v	
Verbena (Vervain)	Powdery mildew, Pythium root rot, bacterial wilt
Veronica (Speedwell)	Phytophthora root rot, rust, powdery mildew
Viburnum (Snowball Bush)	Spot anthracnose, bacterial scorch, Botryosphaeria dieback, Botrytis blight, phoma leaf spot, Phytophthora root rot, Rhizoctonia root rot
Vinca minor (Periwinkle)	Oedema (nutritional), Phoma dieback, Phomopsis dieback, Phyllosticta stem rot/ leaf spot, Pythium root rot, Rhizoctonia root rot, Southern blight, Botrytis blight
Viola (Pansy)	Anthracnose, black root rot, Botrytis blight, Cercospora leaf spot, Phytophthora root/crown rot, Pythium root/crown rot
W	
Weigala	Phytophthora root rot, Pythium root rot
Wisteria	Botryosphaeria dieback
Υ	
Yucca	Bacterial soft rot, Mycosphaerella leaf spot
7	
Zinnia	Alternaria blight, bacterial leaf spot, Botrytis stem canker, powder mildew, Pythium root rot