



DISEASE CONTROL Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea

Commercial Ornamentals: Disease Control—Woody Trees Shrubs, and Perennial Ground Covers, Abelia–Hydrangea

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
ABELIA				
Cercospora Leaf Spot				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	myclobutanol EAGLE WSP	---	3-6 oz.	Apply at first sign of disease; repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply at first sign of disease. Repeat at 10- to 14-day intervals as needed.
	3336 50W	2.33-4 t.	12-16 oz.	
Powdery Mildew				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	myclobutanol EAGLE WSP	---	3-6 oz.	Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-phytotoxic spray adjuvant to improve coverage of foliage and fungicidal performance. Systhane is cleared for nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	thiophanate methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply at first sign of disease. Repeat at 10- to 14-day intervals as needed.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	
	OHP 6672 50W	---	12-24 oz.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AJUGA (Bugleweed)				
Southern Blight				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply in June and repeat at 14- to 28-day intervals until mid-September.
	flutolanil CONTRAST 70WSP	---	3-6 oz.	SOIL DRENCH: Apply 1 to 2 pints of suspension per square foot of bed or bench area. Retreat every 21 to 28 days until crop is finished. See label for drench rates on larger containers and for additional information. May be applied through overhead, microjet, and drip irrigation systems.
	PROSTAR 70W	---	3-6 oz.	
	PCNB DEFEND 2L	---	0.75-1.5 pt.	SOIL DRENCH: This is a problem in shade during hot summer weather. Apply evenly to soil and incorporate. Treats about 400 to 800 square feet of bed area. Remove dead plants. Apply 1 pint per 1 square foot of soil surface. Repeat as needed at 4-to 6-week intervals
	DEFEND 75W	---	4-8 oz.	
	REVERE WSB	---	4-8 oz.	
	TERRACLOR 75W	1 T.	4-8 oz.	
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
ANDROMEDA (<i>Pieris japonica</i>)				
Phytophthora Dieback				
	chlorothalonil CONCORDE DF	---	1.4 lb.	Begin sprays at leaf emergence and repeat at 7- to 14-day intervals.
	DACONIL ULTREX	---	1.4 lb.	
	DACONIL WEATHER STIK 6F	---	1.38 pt.	DRENCH: Apply when roots are well established or at first sign of disease. Repeat applications at 10- to 14-day intervals throughout production cycle.
	DACONIL ZN	2 t.	2 pt.	
	ECHO 720	---	1.38 pt.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
Phytophthora Root Rot				
	dimethomorph STATURE SC	---	3-6.1 fl.oz.	SOIL DRENCH: Apply to 400 square feet of bench area or sufficient volume to thoroughly wet potting medium. Repeat at 1- to 3-month intervals.
	etridiazole TRUBAN 25E	---	4-8 fl.oz.	DRY SOIL MIX: Incorporate thoroughly at potting. Repeat with soil drench as needed. SOIL DRENCH: Covers 1000 square feet. Repeat monthly. FOLIAR SPRAY: Begin sprays at potting and repeat at monthly intervals. DO NOT mix with sticker, extender, or wetting agent.
	fosetyl-AI ALIETTE WDG	---	8-12.8 oz./cu.yd	
		---	0.4-0.8 lb.	
		---	2.5-5 lb.	

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Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
ANDROMEDA (<i>Pieris japonica</i>) (cont.)				
Phytophthora Root Rot (cont.)				
	mefenoxam SUBDUE MAXX	---	1-2 fl.oz.	SOIL DRENCH: Covers 400 to 800 square feet (1 to 2 pints per square foot). Repeat at 2- to 3-month intervals. DO NOT apply as much as 3.25 fluid ounces more often than every 10 weeks.
	SUBDUE 2X WSP	---	0.2-1 oz.	
	SUBDUE MAXX	---	1.25-2.5 fl.oz.	SOIL SURFACE SPRAY: Apply to 1000 square feet of bed area in sufficient water to obtain thorough coverage of root zone. Irrigate with a minimum of 0.5 inch water.
	SUBDUE GR	---	26-125 oz.	BROADCAST: Apply to 1000-square-foot area and thoroughly wet soil. Repeat at 2- to 4-month intervals. DO NOT apply as much as 40 fluid ounces more often than every 10 weeks.
	SUBDUE GR	---	1.6-12.5 oz./cu.yd.	DRY SOIL MIX: Thoroughly mix and wet. Repeat at 2- to 3-month intervals. May be reapplied as surface application.
	propamocarb BANOL 67S	1.5 t.	25 fl.oz.	SOIL DRENCH: Apply 5 quarts of solution to 10- square-foot area. Repeat at 3- to 4-month intervals.
APRICOT (Flowering)				
Blossom Blight, Twig Blight, Brown Rot				
	chlorothalonil BRAVO WEATHERSTIK	---	1.5 pt.	Spray when blooms show color, at full bloom, and at petal fall.
	DACONIL ZN	2 t.	2 pt.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	copper hydroxide CUPRO 2005 T/N/O	---	0.75-2 lb./A	Apply at first sign of disease and reapply at 7- to 10-day intervals. See label for information on possible phytotoxicity.
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Spray when blooms show color, at full bloom, and petal fall.
	3336 50W	2.33-4 t.	12-16 oz.	
Leaf Curl				
	chlorothalonil BRAVO WEATHERSTIK	---	1.5 pt.	Spray at leaf fall in autumn, in late winter before budswell, and at budbreak.
	DACONIL ZN	2 t.	2 pt.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
Shot-hole, Coryneum Blight				
	chlorothalonil BRAVO WEATHERSTIK	---	1.5 pt.	Spray at leaf fall in autumn, in late winter before budswell, and at budbreak.
	DACONIL ZN	2 t.	2 pt.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	copper hydroxide KOCIDE 101 77W	---	1 lb.	See Comments for chlorothalonil, above.

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Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
APRICOT (Flowering) (cont.)				
Shot-hole, Coryneum Blight (cont.)				
	myclobutanil			Apply at 10- to 14-day intervals. Add a nonphytotoxic adjuvant to improve coverage and fungicide performance. Systhane is cleared for nursery use.
	EAGLE WSP	---	3-6 oz.	
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
ARBORVITAE				
See Junipers.				
AUCUBA				
Leaf Spot and Blight				
	azoxystrobin			Apply at first sign of disease and repeat at 14- to 28-day intervals.
	HERITAGE 50W	---	1-4 oz.	
	mancozeb			Begin sprays at budbreak. Apply the first two sprays at 7-day intervals. Apply the remainder at 10 to 14 days. Prune diseased shoots.
	DITHANE T/O	1 T.	1.5 lb.	
	4 FLOWABLE	---	1.2 qt.	
	MANCOZEB			
	FORE 80W	1 T.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	PENTATHLON F	---	1.2 qt.	
	thiophanate-methyl			See Comments for mancozeb, above.
	3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	
	3336 50W	2.33-4 t.	12-16 oz.	
Phytophthora Root Rot				
	azoxystrobin			Apply as needed every 7 to 21 days.
	HERITAGE 50DG	---	1-4 oz.	
	etridiazole + thiophanate-methyl			DRY SOIL MIX: Repeat with soil drench as needed. BROADCAST ON FIELD STOCK: Repeat as needed. See label for spreader settings. SIDEDRESS ON FIELD STOCK: Apply in 4- to 6-inch-deep furrow 8 to 10 inches on both sides of plant and cover. Repeat as needed.
	BANROT 8G	---	16 oz./cu.yd.	
		---	8-12 lb./1000 sq.ft.	
		---	6 oz.	
	BANROT 40W	0.5-1.25 t.	6-12 oz.	SOIL DRENCH: Covers 400 square feet (0.5 pint per 6-inch pot). Irrigate immediately. Repeat at 1- to 3-month intervals.
	mefenoxam	See Comments.		See Andromeda: Phytophthora Root Rot.
	SUBDUE GR			
	PCNB			SOIL DRENCH: Apply to about 400 to 800 square feet of bench or bed area. One repeat application can be made 4 to 6 weeks later, if needed.
	DEFEND 75W	---	4-8 oz.	
	DEFEND 2L	---	0.75-1.5 pt.	
	TERRACLOR 75W	---	4-8 oz.	
Southern Blight				
	azoxystrobin			SOIL DRENCH: Apply every 7 to 21 days when conditions favor disease from June until mid September. Use higher rate at shorter intervals when disease is present.
	HERITAGE 50W	---	1-4 oz.	

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Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AUCUBA (cont.)				
Southern Blight (cont.)				
	flutolanil CONTRAST 70WSP PROSTAR 70W	---	3-6 oz.	SOIL DRENCH: Apply 1 to 2 pints of suspension per square foot of bed or bench area. Retreat every 21 to 28 days until crop is finished. See label for drench rates on larger containers and for additional information. May be applied through overhead, microjet, and drip irrigation systems.
		---	3-6 oz.	
	PCNB DEFEND 10G	---	15-20 lb. per 1000 sq.ft. of bed area	BROADCAST, PREPLANT, OR POSTPLANT: Lightly incorporate into soil.
	DEFEND 2L DEFEND 75W	---	0.75-1.5 pt. 4-8 oz.	SOIL DRENCH: Apply to about 400 to 800 square feet of bed area. Reapply after 4 to 6 weeks if needed.

	REVERE 75W TERRACLOR 75W	---	4-8 oz. 4-8 oz.	SUMMER DISEASE: Dispose of dead or damaged plants. Replant with disease-resistant ornamentals.
AZALEA (Rhododendron)				
Anthracnose				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease in summer and repeat at 14- to 28-day intervals. Occurs primarily on container-grown stock.
	chlorothalonil CONCORDE DF DACONIL ULTREX DACONILWEATHER STIK 6F DACONIL ZN ECHO 720 LANDSCAPE AND GARDEN FUNGICIDE	---	1.4 lb. 1.4 lb. 1.36 pt. 2 pt. 1.38 pt. ---	Apply every 7 to 14 days in summer as needed.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	copper sulfate pentahydrate PHYTON 27	---	15-25 fl.oz.	Apply at first sign of disease and repeat every 7 to 14 days as needed.
	mancozeb PENTATHLON F PROTECT T/O	---	1.2 qt. 1.5 lb.	Apply every 7 to 10 days as needed. Add a spreader-sticker to improve coverage of foliage.
	potassium bicarbonate MILSTOP	---	2-5 lb.	Apply at first sign of disease, using enough water to thoroughly cover the foliage. Repeat applications every 7 to 14 days.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	trifloxystrobin COMPASS O	---	2-4 oz.	Apply to point of drip when disease is detected or when conditions favor disease. Repeat every 7 to 14 days until threat of outbreak is over.

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		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AZALEA (<i>Rhododendron</i>) (cont.)				
Botrytis Blight (Gray Mold)				
	copper sulfate pentahydrate PHYTON 27	---	13-25 fl.oz.	Use sufficient volume of water to thoroughly cover the leaves and stems. Repeat applications at 7- to 14-day intervals as needed to control disease. May be applied as often as 3 to 5 days when disease is severe.
	iprodione CHIPCO 26GT	---	1-2.5 qt./A	GREENHOUSE AZALEAS: Apply when weather is humid and cloudy. Repeat at 7- to 14-day intervals. Shorten spray interval and increase rate to maximum allowed on label when disease is present. NOT FOR RESIDENTIAL USE.
	CHIPCO 26019 50W	---	1-2.5 qt./A	
	IPRODIONE PRO SE	---	1-2.75 qt.	
	SEXTANT 2F	---	1-2.75 qt.	
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	GREENHOUSE AZALEAS: Apply when weather is humid and cloudy. Repeat at 7- to 14-day intervals. Shorten spray interval and increase rate to maximum allowed on label when disease is present.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	
	OHP 6672 50W	---	12-16 oz.	
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	FOLIAR SPRAY: Apply to point of drip when conditions favor disease. Repeat every 10 to 14 days as needed.
	thiophanate-methyl + iprodione 26/36 FUNGICIDE	---	33-84 fl.oz./A	Use sufficient water to thoroughly cover the leaves and stems. Reapply at 7- to 14-day intervals as needed. Use higher rate at shorter interval when disease is present. NOT FOR RESIDENTIAL USE.
	trifloxystrobin COMPASS 50W	---	2-4 oz.	Apply to point of drip when disease is detected or when conditions favor disease. Repeat every 7 to 14 days until threat of outbreak is over.
	triflumizole TERRAGUARD SC	---	4-8 fl.oz.	Begin applications before first sign of disease. Repeat as needed every 7 to 14 days. Use higher rate at shorter intervals when disease is present.
Cercospora Leaf Spot				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	chlorothalonil CONCORDE DF	---	1.4 lb.	Apply at first sign of disease. Repeat at 7- to 14-day intervals.
	DACONIL ULTREX	---	1.4 lb.	
	DACONIL WEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO 720	---	1.38 pt.	See Comments for chlorothalonil, above
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	
	copper ammonium complex LIQUID COPPER FUNGICIDE	2 t.	---	Apply at first sign of disease and repeat applications every 7 to 14 days as needed. Shorten application interval when disease is severe.

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Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AZALEA (<i>Rhododendron</i>) (cont.)				
Cercospora Leaf Spot (cont.)				
	copper hydroxide BLACK SPOT AND POWDERY MILDEW CONTROL CUPRO 2005 T/N/O	1.5 t.	---	Apply at first sign of disease. Repeat at 7- to 14-day intervals, as needed to control disease. See label for information on possible phytotoxicity.
	mancozeb JUNCTION PENTATHLON F PROTECT T/O	---	0.75-2 lb./A	Apply every 7 to 10 days as needed. Add a spreader-sticker to improve coverage of foliage.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl 3336 4.5F 3336 50W	0.5-1.25 t. 2.33-4 t.	10-20 fl.oz. 12-16 oz.	Apply at first sign of disease. Repeat at 7- to 14-day intervals.
Cylindrocladium Root Rot				
	iprodione CHIPCO 26019 50W IPRODIONE PRO SE SEXTANT 2F	---	1-2.5 qt./A 1-2.75 qt. 1-2.75 qt.	Apply as a full cover spray at 7- to 14-day intervals, as needed, before onset of disease. NOT FOR RESIDENTIAL USE.
	thiophanate-methyl 3336 4.5F 3336 50W HALT 50W OHP 6672 4.5L OHP 6672 50W	0.5-1.25 t. 2.33-4 t. 2.5 t. ---	16-20 fl.oz. 12-16 oz. ---	SOIL DRENCH: Apply to rooting beds at 2-week intervals.
	triflumizole TERRAGUARD 50W	2-2.67 t.	12-16 oz.	CUTTING SOAK: Soak cuttings for 10 minutes with agitation. Wear gloves when handling treated plant material.
		1-1.33 t.	6-8 oz.	SOIL DRENCH: Apply 3 to 4 weeks after pre-stick cutting soak. Apply additional drenches at 3- to 4-week intervals as needed. DO NOT exceed 8 ounces per 600 square feet of bench area as injury or root inhibition may occur.
		1-2 t.	6-12 oz.	SOIL DRENCH FOR PLANTS WITH ESTABLISHED ROOT SYSTEMS: Apply at 3- to 4-week intervals. From two to four applications may be sufficient.
Leaf Gall				
	triadimefon BAYLETON T/O STRIKE 25W	---	2 oz. 4 oz.	Remove galls by hand. Apply first spray as new leaves appear. Repeat two to three times at 10-day intervals. Plant azaleas resistant to leaf gall. Bayleton is cleared for landscape use only.

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Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AZALEA (<i>Rhododendron</i>) (cont.)				
Petal Blight				
	captan CAPTAN 50W	2.5 T.	2 lb.	Apply to soil around plants and spray flowers before bloom. Repeat at 7- to 14-day intervals during bloom.
	chlorothalonil CONCORDE DF	---	1.4 lb.	Begin sprays as flowers open. Make two to three sprays at 4- to 14-day intervals during bloom. See fungicide label for specific spray intervals. Chlorothalonil may discolor blooms of some varieties.
	DACONIL ULTREX	---	1.4 lb.	
	DACONILWEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	FUNG-ONIL	2.25 t.	---	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + fenarimol TWSOME 4.4F	2 t.	2 pt.	See Comments for chlorothalonil, above.
	mancozeb DITHANE T/O	1 T.	1.5 lb.	Begin sprays as flowers open. Make two to three sprays at 4- to 14-day intervals during bloom. See fungicide label for specific spray intervals.
	FORE 80W	1 T.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	JUNCTION	---	1.5 lb.	
	PENTATHLON F	---	1.2 qt.	
	myclobutanil EAGLE WSP	---	3-6 oz.	Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for greenhouse and nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	PCNB DEFEND 75W			Apply to soil as a spray or dry around base of plant before bloom. Repeat at 7- to 14-day intervals during bloom.
	TERRACLOR 75W	---	1 lb./150 sq.ft.	
	propiconazole BANNER MAXX	---	5-8 fl.oz.	Apply at first sign of disease. Apply as needed to drip. Use sufficient volume of water mixed with Propensity to thoroughly cover the leaves and stems. Repeat applications at 21-day intervals as needed.
	PROPENSITY 1.3MEC	---	6-8 fl.oz.	
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply to soil as a spray or dry around base of plant before bloom. Repeat at 7- to 14-day intervals during bloom.
	3336 50W	2.33-4 t.	8-16 oz.	
	HALT 50 W	1.5 t.	---	
	OHP 6672 50W	---	8-16 oz.	
	triadimefon BAYLETON T/O	---	4-8 oz.	Apply when buds show color and repeat as needed every 7 to 14 days during bloom.
	STRIKE 25W	---	8-16 oz.	
	SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTALS	4-8 T.	---	
	triforine ROSE AND SHRUB DISEASE CONTROL	1 T.	---	

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AZALEA (<i>Rhododendron</i>) (cont.)				
Phomopsis Dieback				
	thiophanate-methyl 3336 4.5F 3336 50W	0.5-1.25 t. 2.33-4 t.	10-20 fl.oz. 12-16 oz.	Spray whole bush to runoff at 7- to 10-day intervals. Prune all dead limbs 2 inches below affected area
Phytophthora Root Rot				
	azoxystrobin HERITAGE 50 W	---	1-2 oz.	Spray to drip. Repeat as needed at 7- to 28-day intervals.
	dimethomorph STATURE DM	---	6.4-12.8 oz.	DRENCH: Apply when roots are well established or at first sign of disease. Repeat applications at 10- to 14-day intervals through production cycle. Apply sufficient water to wet the root zone.
		---	6.4-12.8 oz.	FOLIAR SPRAY: Apply in sufficient water to thoroughly wet the leaves and stems. Repeat applications at 10- to 14-day intervals through production cycle.
	etrifiazole TERRAZOLE 35W TRUBAN 30W	0.75-1.5 t.	3-10 oz.	SOIL DRENCH: Covers 400 square feet (0.5 pint per 6-inch pot). Irrigate immediately. Repeat every 1 to 3 months. DO NOT mix with other pesticides.
		---	1.5-3 oz./ cu.yd.	DRY SOIL MIX: Apply fungicide soil drench as needed.
	TRUBAN 5G	---	10 oz./cu.yd.	DRY SOIL MIX: Apply fungicide soil drench as needed.
		---	4-6 oz./100 linear row ft.	SIDEDRESS ON FIELD STOCK: Apply in 4- to 6-inch-deep furrow 8 to 10 inches on both sides of plant and cover. Repeat as needed.
		---	6-8 lb./1000 sq.ft.	BROADCAST ON FIELD STOCK: Apply using cyclone or drop spreader. See label for spreader settings.
	etrifiazole + thiophanate-methyl BANROT 40W	0.5-1.25 t.	6-12 oz.	SOIL DRENCH: Covers 400 square feet (0.5 pint per 6-inch pot). Irrigate immediately. Repeat at 1- to 3-month intervals.
	BANROT 8G	---	16 oz./cu.yd.	DRY SOIL MIX: Apply with soil drench as needed.
		---	8-12 lb./1000 sq.ft.	BROADCAST ON FIELD STOCK: Apply as needed. See label for spreader settings.
		---	6 oz.	SIDEDRESS ON FIELD STOCK: Apply in 4- to 6-inch-deep furrow 8 to 10 inches on both sides of plant and cover. Repeat as needed.
	fenamidone FENSTOP	---	7-14 fl.oz.	SOIL DRENCH: Covers 400 square feet of bed or bench area. Repeat applications as needed on a 28-day schedule. Do not make more than four applications per season. NOT FOR RESIDENTIAL USE.
	fosetyl-Al ALLETTE WDG	---	8-12.8 oz./cu.yd.	DRY SOIL MIX: Incorporate thoroughly at potting. Repeat with soil drench as needed.
		---	0.4-0.8 lb.	SOIL DRENCH: Covers 1000 square feet. Repeat monthly.
		---	2.5-5 lb.	FOLIAR SPRAY: Begin sprays at potting; repeat monthly. DO NOT mix with sticker, extender, or wetting agent.

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		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AZALEA (<i>Rhododendron</i>) (cont.)				
Phytophthora Root Rot (cont.)				
	mefenoxam SUBDUE MAXX	---	0.63-1.25 fl.oz.	SOIL DRENCH: Covers 400 to 800 square feet (1 to 2 pints per square foot). For media depth greater than 4 inches, apply 1.5 to 2 pints of solution per square foot. Repeat at 2- to 4-month intervals. DO NOT repeat soil applications at 2.5 fluid ounces per 100 gallons more often than every 3 months and at 4 fluid ounces more often than every 6 months. Use lower rate for cv. Coral Belle.
		---	1.25-2.5 fl.oz. /1000 sq.ft.	SOIL SURFACE SPRAY: Broadcast or band on soil surface to obtain thorough coverage of the plant root zone. After application, irrigate with at least a half inch of water if rainfall does not occur within 7 days.
	SUBDUE 2X WSP	---	0.07-0.35 oz.	SOIL DRENCH: Apply 1 pint of solution per square foot. For soil depth greater than 4 inches, apply 1.5 to 2 pints of solution per square foot. Repeat applications at 2- to 4-month intervals. FOLIAR SPRAY: Apply to run-off. Repeat at 2- to 3-month intervals. Controls Phytophthora shoot blight.
	SUBDUE GR	---	14.8-75 oz.	BROADCAST: Covers 1000 square feet. Irrigate to wet soil. Repeat at 2- to 4-month intervals. DO NOT apply at rates greater than 30 ounces more often than every 3 months and DO NOT exceed 50 ounces in 6 months.
	SUBDUE GR	---	1.6-10 oz./cu.yd.	DRY SOIL MIX: Thoroughly mix in media or soil. After transplanting, thoroughly wet root zone. Retreat as needed after 2 to 4 months.
	potassium salts of phosphorous acid ALUDE	---	2 pt.	CUTTING DIP: Immediately before transplanting, dip transplants for 2 minutes with the roots submerged.
		---	6.28-12.67 fl.oz.	DRENCH: Apply 25 gallons of solution to 100 square feet of bed area and repeat monthly as needed.
		---	1-2 qt.	FOLIAR SPRAY: Apply to thoroughly wet foliage and repeat every 14 to 21 days as needed.
		---	1-2 pt./cu.yd.	INCORPORATION: Just before potting, mix 2 to 2 quarts of solution per cubic yard of media. Follow with drench or foliar spray after one month, as needed.
	propamocarb BANOL 67S	1.5 t.	25 fl.oz.	SOIL DRENCH: Apply 5 quarts of solution to 10-square-foot area. Repeat at 3- to 4-month intervals.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AZALEA (<i>Rhododendron</i>) (cont.)				
Phytophthora Root Rot (cont.)				
	Streptomyces griseoviridis K61 MYCOSTOP	---	1.4 oz.	Suppression of Phytophthora Root Rot: Use in conjunction with other root rot fungicides. DO NOT tank mix with any pesticide. SOIL DRENCH: Apply 20 to 40 gallons of suspension to 800 square feet of bench, container, or bed area. Irrigate to saturate potting medium or soil. Repeat every 3 to 6 weeks as needed.
		---	5 g/1.3 gal.	SOIL SPRAY: Apply 2 to 4 gallons in a proportioner, injector, or sprayer to 800 square feet of bench, container, or bed area. Irrigate to improve soil penetration. Repeat every 3 to 6 weeks as needed.
		---	5 g/1.3 gal.	TRANSPLANT DIP: Dip roots of transplants shortly before planting.
	<i>Trichoderma harzianum</i> Strain KRL-AG2 ROOT SHIELD	---	1-1.5 lb./cu.yd.	DRY SOIL MIX IN NURSERY AND GREENHOUSE: Thoroughly incorporate granules during mix preparation or pot filling. Use in combination with protective fungicide drenches. See label for compatibility with other fungicides and insecticides.
Phytophthora Shoot Blight				
	azoxystrobin HERITAGE 50W	---	1-2 oz.	Spray to drip. Repeat as needed at 7- to 28-day intervals.
	chlorothalonil CONCORDE DF	---	1.4 lb.	Begin sprays at leaf emergence and repeat at 7- to 14-day intervals. Most damaging to heavily fertilized azalea and rhododendron.
	DACONIL ULTREX	---	1.4 lb.	
	DACONIL WEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + fenarimol TWO SOME 4.4F	0.67 T.	2 pt.	See Comments for chlorothalonil, above.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	copper ammonium complex LIQUID COPPER FUNGICIDE	2 t.	---	Apply at first sign of disease and repeat applications every 7 to 14 days as needed. Shorten application interval when disease is severe.
	copper hydroxide CUPRO 2005 T/N/O	---	0.75-2 lb./A	Apply at first sign of disease and reapply at 7- to 10-day intervals. See label for information on possible phytotoxicity.
	copper sulfate pentahydrate PHYTON 27	---	20-25 fl.oz.	Use sufficient volume of water to thoroughly cover the leaves and stems. Repeat applications at 7- to 14- day intervals as needed to control disease. May be applied as often as 3 to 5 days when disease is severe.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AZALEA (<i>Rhododendron</i>) (cont.)				
Phytophthora Shoot Blight (cont.)				
	dimethomorph STATURE DM	---	6.4-12.8 oz.	FOLIAR SPRAY: Apply in sufficient water to thoroughly wet the leaves and stems. Repeat applications at 10- to 14-day intervals through production cycle.
	fenamidone FENSTOP	---	7-14 fl.oz.	FOLIAR SPRAY: Repeat applications as needed on a 28-day schedule. Do not make more than four applications per season. NOT FOR RESIDENTIAL USE.
	fosetyl-AI ALIETTE WDG	---	2.5-5 lb.	Spray to wet foliage. Repeat monthly.
	mefenoxam SUBDUE MAXX	---	1.25-2.5 fl. oz.	Spray foliage to run-off at 2- to 3-month intervals.
Powdery Mildew				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	copper ammonium complex LIQUID COPPER FUNGICIDE	2 t.	---	Apply at first sign of disease and repeat applications every 7 to 14 days as needed. Shorten application interval when disease is severe.
	copper hydroxide BLACK SPOT AND POWDERY MILDEW CONTROL CUPRO 2005 T/N/O	1.5 t. ---	---	Apply at first sign of disease and reapply at 7- to 10-day intervals. See label for information on possible phytotoxicity.
	myclobutanol EAGLE WSP	---	3-6 oz.	Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for greenhouse and nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX SYSTHANE WSP	2 T. ---	--- 3-6 oz.	
	paraffinic oil SUNSPRAY ULTRA FINE OIL	2.5-5 T.	1% v/v	Apply at first sign of disease and reapply every 1 to 2 weeks. Do not apply when temperatures exceed 85°F.
	potassium bicarbonate MILSTOP	---	1.25-3 lb. 2-3 lb.	GREENHOUSE: Use a sufficient volume of water to cover the leaves and stems. Repeat applications at 7- to 14-day intervals as needed to control disease. FIELD APPLICATION: Use a sufficient volume of water to cover the leaves and stems. Repeat applications at 7- to 14-day intervals as needed to control disease.
	propiconazole BANNER MAXX	---	5-8 fl.oz.	Apply at first sign of disease. Apply as needed to drip. Use sufficient volume of water mixed with Propensity to thoroughly cover the leaves and stems. Repeat applications at 21-day intervals as needed.
	PROPENSITY 1.3MEC	---	6-8 fl.oz.	
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AZALEA (<i>Rhododendron</i>) (cont.)				
Powdery Mildew (cont.)				
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Begin sprays as symptoms appear and repeat at 10- to 14-day intervals.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	1.5 t.	---	
	OHP 6672 50W	---	12-24 oz.	
	thiophanate-methyl + iprodione BENEFIT	---	17-34 fl.oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	triadimefon BAYLETON T/O	---	2-4 oz.	Bayleton is cleared for landscape use only.
	STRIKE 25W	---	4 oz.	
	SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTS	1-2 T. (0.5-1 fl.oz.)	---	
	trifloxystrobin COMPASS O	---	1-2 oz.	Apply at first sign of disease. Repeat applications at 7- to 14-day intervals as needed to control disease.
	triforine ROSE AND SHRUB DISEASE CONTROL	1 T.	---	
Rhizoctonia Web Blight				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease in summer and repeat at 14- to 28-day intervals.
	chlorothalonil CONCORDE DF	---	1.4 lb.	Apply at 7-day intervals as foliar spray to rooting beds. Apply at 7- to 14-day intervals on container stock when conditions favor disease development during hot, wet weather.
	DACONIL ULTREX	---	1.4 lb.	
	DACONIL WEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO 720	---	1.38 pt.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	flutolanil CONTRAST 70WSP PROSTAR 70WP	---	3-12 oz.	FOLIAR SPRAY: Repeat sprays as needed every 14 to 21 days. Tank mix with appropriate surfactant.
	iprodione CHIPCO 26GT	---	1-2.5 qt./A	Apply at 7-day intervals as foliar spray to rooting beds. Apply at 7- to 14-day intervals on container stock when conditions favor disease development during hot, wet weather. NOT FOR RESIDENTIAL USE.
	CHIPCO 26019 50W	---	1-2.5 qt./A	
	IPRODIONE PRO SE	---	1-2.75 qt.	
	mancozeb PENTATHLON F	---	1.2 qt.	Apply every 7 to 10 days as needed. Add a spreader-sticker to improve coverage of foliage.
	PROTECT T/O	3 t.	1.5 lb.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
AZALEA (<i>Rhododendron</i>) (cont.)				
Rhizoctonia Web Blight (cont.)				
	thiophanate-methyl 3336 4.5F 3336 50W	0.5-1.25 t. 2.33-4 t.	10-20 fl.oz. 12-16 oz.	See Comments for iprodione, above.
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	FOLIAR SPRAY: Apply to point of drip when conditions favor disease. Repeat every 10 to 14 days as needed.
	thiophanate-methyl + iprodione BENEFIT	---	17-34 fl.oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	thiophanate-methyl + iprodione 26/36 FUNGICIDE	---	33-84 fl.oz./A	Use sufficient water to thoroughly cover the leaves and stems. Reapply at 7- to 14-day intervals as needed. Use higher rate at shorter interval when disease is present. NOT FOR RESIDENTIAL USE.
	trifloxystrobin COMPASS O	---	2-4 oz.	Apply to point of drip when disease is detected or when conditions favor disease. Repeat every 7 to 14 days until threat of outbreak is over.
	triflumizole TERRAGUARD SC	---	4-8 fl.oz.	Begin applications when conditions favor disease development. Repeat as needed every 7 to 14 days. Use higher rate at shorter intervals when disease is present.
Rust				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals. Rust is found on deciduous hybrid azaleas and some native azaleas. Alternate host is hemlock. May be present in northern counties.
	mancozeb DITHANE T/O FORE 80W MANCOZEB DG PENTATHLON PROTECT T/O 80W	2 t. 2 t. --- --- 2 t.	1.5 lb. 1.5 lb. 1-2 lb. 1.2 qt. 1.5 lb.	Apply at 7-day intervals.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	trifloxystrobin COMPASS O	---	2-4 oz.	Apply at first sign of disease. Repeat applications at 7- to 14-day intervals as needed to control disease.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
BOXWOOD				
Macrophoma Leaf Blight				
	mancozeb			Apply when new growth starts or when disease first threatens. Then treat at 7- to 10-day intervals. Use higher rate and shorter interval when conditions favor disease.
	MANCOZEB DG	1.5-3 t.	1-2 lb.	
	PENTATHLON F	---	1.2 qt.	
Phytophthora Root Rot				
	etrifiazole			See Azalea: Phytophthora Root Rot.
	TERRAZOLE 35W	See Comments.		
	TRUBAN 30W			
	TRUBAN 5G			
	TRUBAN 25E			
	etrifiazole + thiophanate-methyl			See Azalea: Phytophthora Root Rot.
	BANROT 8G	See Comments.		
	BANROT 40W			
	fosetyl-Al			
	ALIETTE WDG	See Comments.		
	mefenoxam			See Andromeda: Phytophthora Root Rot.
	SUBDUE GR	See Comments.		
	SUBDUE MAXX			
	SUBDUE 2X WSP			
	potassium salts of phosphorous acid			
	ALUDE	0.3-0.67 fl.oz.	1-2 qt.	FOLIAR SPRAY: Apply to thoroughly wet foliage and repeat every 14 to 21 days as needed. DRENCH: Apply 25 gallons of solution to 100 square feet of bed area and repeat monthly as needed.
		---	6.67-12.67 fl.oz.	
	propamocarb			See Azalea: Phytophthora Root Rot.
	BANOL 67S	See Comments.		
Volutella Blight				
	azoxystrobin			Apply to drip every 7 to 28 days as needed.
	HERITAGE 50W	---	1-4 oz.	
	copper sulfate pentahydrate			
	PHYTON 27	---	15-25 fl. oz.	
	mancozeb			Apply every 7 to 10 days as needed. Add a spreader-sticker to improve coverage of foliage. Prune diseased branches and follow recommended maintenance practices to improve plant vigor.
	PENTATHLON F	---	1.2 qt.	
	PROTECT T/O	3 t.	1.5 lb.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
BUTTERFLY BUSH (Buddleia)				
Leaf Spot				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	trifloxystrobin COMPASS O	---	2-4 oz.	Apply at first sign of disease. Repeat applications at 7- to 14-day intervals as needed to control disease.
Phytophthora Shoot Blight				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
Powdery Mildew				
	azoxystrobin HERITAGE 50W	---	1-2 oz.	Spray to drip. Repeat as needed at 7- to 28-day intervals.
	paraffinic oil SUNSPRAY ULTRA FINE OIL	2.5-5 T.	1% v/v	Apply at first sign of disease and reapply every 1 to 2 weeks. Do not apply when temperatures exceed 85°F.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl HALT 50W	1.5 t.	---	Apply at first sign of disease and reapply every 7 to 14 days as needed.
CAMELLIA				
Algal Leaf Spot				
	bordeaux mixture	8 T.	---	Apply as growth starts in spring.
Canker And Dieback				
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Repeat at 10- to 14-day intervals. Prune cankers and dead shoots to green wood.
	3336 50W	2.33-4 t.	12-16 oz.	
Flower Blight				
	chlorothalonil CONCORDE DF	---	1.4 lb.	Apply at 7- to 14-day intervals when blooms are dry.
	DACONIL ULTREX	---	1.4 lb.	
	DACONILWEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	mancozeb DITHANE T/O	3 t.	1.5 lb.	Apply when blooms show color and repeat at 3- to 4-day intervals. Also, spray ground under plant.
	FORE 80W	3 t.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	JUNCTION	---	1.5 lb.	
	PENTATHLON F	---	12 qt.	
	PROTECT T/O 80W	3 t.	1.5 lb.	
	PCNB DEFEND 75W	---	1 c./100 sq.ft.	SOIL APPLICATION: Spray or dust around base of plant. Apply in enough water to cover area in late November to mid December.
	TERRACLOR 75W	---	sq.ft.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
CAMELLIA (cont.)				
Flower Blight (cont.)				
	thiophanate-methyl 3336 4.5F 3336 50W HALT 50W	0.5-1.25 t. 2.33-4 t. 2.5 t.	10-20 fl.oz. 12-16 oz. ---	Apply at 7- to 14-day intervals when blooms are dry.
	triadimefon BAYLETON T/O STRIKE 25W	--- ---	4-8 oz. 8-16 oz.	Bayleton is cleared for landscape use only.
Leaf Gall				
	None labeled	See Comments.		Hand-remove diseased leaves on sasanqua camellia.
Phytophthora Root Rot				
	etr Diazole TERRAZOLE 35W TRUBAN 30W TRUBAN 5G	See Comments.		See Azalea: Phytophthora Root Rot.
	etr Diazole + thiophanate-methyl BANROT 8G BANROT 40W	See Comments.		See Azalea: Phytophthora Root Rot.
	fosetyl-AI ALIETTE WDG	See Comments.		See Azalea: Phytophthora Root Rot.
	metalaxyl SUBDUE GR SUBDUE MAXX SUBDUE 2X WSP	See Comments.		See Azalea: Phytophthora Root Rot.
	propamocarb BANOL 67S	See Comments.		See Azalea: Phytophthora Root Rot.
	<i>Trichoderma harzianum</i> Strain KRL-AG2 ROOT SHIELD	---	1-1.5 lb./cu.yd.	DRY SOIL MIX IN NURSERY AND GREENHOUSE: Thoroughly incorporate granules during mix preparation or pot filling. See label for compatibility with other fungicides and insecticides.
Rhizoctonia Root Rot				
	PCNB DEFEND 2L DEFEND 75W REVERE WSP TERRACLOR 75W	See Comments.		See Azalea: Rhizoctonia Root Rot.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
CATALPA				
Cercospora Leaf Spot				
	myclobutanil			Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the mixture. Eagle is cleared for landscape use ONLY .
	EAGLE WSP	---	6 oz.	
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	6 oz.	
	tebuconazole			Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	
	thiophanate-methyl			Apply at first sign of disease. Repeat at 10- to 14-day intervals as needed.
	3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	
	3336 50W	2.33-4 t.	12-16 oz.	
Powdery Mildew				
	myclobutanil			Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. For landscape use only.
	EAGLE WSP	---	3-6 oz.	
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
CHERRY (Flowering)				
See Apricot (Flowering).				
CLEMATIS				
Black Root Rot				
	thiophanate methyl			SOIL DRENCH: Apply when planting rooted cuttings. Repeat monthly.
	3336 4.5F	0.5-1.25 t.	16-20 fl.oz.	
	3336 50W	2.33-4 t.	12-16 oz.	
CLEYERA				
Anthracnose				
	tebuconazole			Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	
	thiophanate-methyl			Apply as symptoms appear. Repeat at 10- to 14-day intervals.
	3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	
	3336 50W	2.33-4 t.	12-16 oz.	
	OHP 6672 4.5F	---	20 fl.oz.	
	OHP 6672 50W	---	12-16 oz.	
Fusarium Root Rot				
	thiophanate-methyl			Apply as a drench at 10- to 14-day intervals, as needed.
	3336 4.5F	0.5-1.25 t.	16-20 fl.oz.	
	OHP 6672	---	20 fl.oz.	
	OHP 6672 50W	---	12-16 oz.	
COTONEASTER				
Fireblight				
	copper sulfate pentahydrate			Apply every 5 to 7 days during bloom until petal fall. Prune blighted twigs. Avoid excess nitrogen fertilizer in spring. Plant resistant varieties.
	PHYTON 27	---	20-40 fl.oz.	
	streptomycin sulfate			See Comments for copper sulfate pentahydrate, above.
	FIRE BLIGHT SPRAY	0.5 t.	8 oz.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
CRABAPPLE				
Cedar Rust Disease, Cedar-Apple Rust				
	chlorothalonil CONCORDE DF	---	1.4 lb.	Apply when blooms show color. Repeat sprays at 7- to 14-day intervals to mid June. Plant resistant varieties.
	DACONIL ULTREX	---	1.4 lb.	
	DACONILWEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	GARDEN FUNGICIDE	2.25 t.	---	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + fenarimol TWSOME 4.4F	0.67 T.	2 pt.	See Comments for chlorothalonil, above.
	chlorothalonil + thiophanate- methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	fenarimol RUBIGAN AS	0.25-0.75 t.	4-12 fl.oz.	See Comments for chlorothalonil, above.
	mancozeb DITHANE T/O	2 t.	1.5 lb.	Apply when blooms show color. Repeat sprays at 7- to 14-day intervals to mid June. Plant resistant varieties.
	FORE 80W	2 t.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	MANCOZEB DF	---	1-2 lb.	
	PROTECT T/O 80W	2 t.	1.5 lb.	
	myclobutanil EAGLE WSP	---	3-6 oz.	Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for greenhouse and nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	propiconazole BANNER MAXX	---	2-4 fl.oz.	Make sprays at 30-day intervals beginning at green tip. Use sufficient volume of water mixed with Propensity to thoroughly cover the leaves and stems. Repeat applications at 21-day intervals as needed.
	PROPENSITY 1.3MEC	---	6-8 fl.oz.	
	SYSTEMIC FUNGI- CIDE	0.5 T.	---	
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	triadimefon BAYLETON T/O	---	1-2 oz.	Bayleton is cleared for landscape use only. Apply Systemic Fungicide as a full cover spray when symptoms first appear and repeat every 7 to 14 days.
	STRIKE 25W	---	2-4 oz.	
	SYSTEMIC FUNGI- CIDE FOR TURF AND ORNAMEN- TALS	1-2 T.	---	
	trifloxystrobin COMPASS 50W	---	2-4 oz.	Apply to point of drip when disease is detected or when conditions favor disease. Repeat every 7 to 14 days until threat of outbreak is over.
	triflumizole TERRAGUARD SC	---	2-8 fl.oz.	Begin applications before first sign of disease. Repeat as needed every 7 to 14 days. Use higher rate at shorter intervals when disease is present.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
CRABAPPLE (cont.)				
Fireblight				
	copper hydroxide CUPRO 2005 T/N/O	---	0.75-2 lb./A	Apply at first sign of disease and reapply at 7- to 10-day intervals. See label for information on possible phytotoxicity.
	copper sulfate pentahydrate PHYTON 27	---	20-40 fl.oz.	Apply every 5 to 7 days during bloom until petal fall. Prune blighted twigs. Avoid excess nitrogen fertilizer in spring. Plant resistant varieties.
	streptomycin sulfate FIRE BLIGHT SPRAY	0.5 t.	8 oz.	See Comments for copper sulfate pentahydrate, above.
Frog-eye Leaf Spot				
	chlorothalonil LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	Apply to drip every 7 to 14 days until conditions no longer favor disease.
	LIQUID FUNGICIDE	2.25 t	---	
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
Powdery Mildew				
	kresoxim-methyl CYGNUS	---	1.6-3.2 oz.	Apply as protective spray at 10- to 14-day intervals. Apply higher rate at shorter interval when conditions favor disease.
	paraffinic oil SUNSPRAY ULTRA FINE OIL	2.5-5 T.	1% v/v	Apply at first sign of disease and reapply every 1 to 2 weeks. Do not apply when temperatures exceed 85°F.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl HALT 50W	1.5 t.	---	
Scab				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	FOLIAR SPRAY: Apply at first sign of disease and then every 10 to 28 days as needed. See label for cultivar list.
	chlorothalonil CONCORDE DF	---	1.4 lb.	Apply at budbreak in spring at first sign of disease. Repeat at 10- to 14-day intervals. Use resistant varieties.
	DACONIL ULTREX	---	1.4 lb.	
	DACONIL WEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	GARDEN FUNGICIDE	2.25 t.	---	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
CRABAPPLE (cont.)				
Scab (cont.)				
	chlorothalonil + fenarimol TWSOME 4.4F	0.67 T.	2 pt.	Apply at budbreak in spring at first sign of disease. Repeat every 10 to 14 days. Use resistant varieties.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	fenarimol RUBIGAN AS	0.25-0.75 t.	4-12 fl.oz.	Apply at budbreak in spring at first sign of disease. Repeat every 10 to 14 days. Use resistant varieties.
	kresoxim-methyl CYGNUS	---	1.6-3.2 oz.	Apply as protective spray at 10- to 14-day intervals. Apply higher rate at shorter interval when conditions favor disease.
	mancozeb FORE 80W DITHANE T/O PROTECT T/O 80W	2 t. 2 t. 2 t.	1.5 lb. 1.5 lb. 1.5 lb.	Apply at budbreak in spring at first sign of disease. Repeat every 10 to 14 days. Use resistant varieties.
	myclobutanil EAGLE WSP EAGLE 20EW IMMUNOX SYSTHANE WSP	--- --- 2 T. ---	3-6 oz. 8 fl.oz. --- 3-6 oz.	Apply at first sign of disease; repeat every 10 to 14 days. Add non-ionic surfactant to the tank mixture. Systhane is cleared for greenhouse and nursery use.
	propiconazole BANNER MAXX PROPENSITY 1.3MEC SYSTEMIC FUNGICIDE	--- --- 0.5 T.	2-4 fl.oz. 6-8 fl.oz. ---	Apply Banner Maxx every 30 days beginning at green tip. Use sufficient volume of water mixed with Propensity to thoroughly cover the leaves and stems. Repeat applications at 21-day intervals as needed. Apply Systemic Fungicide at first sign of disease and repeat as needed.
	thiophanate-methyl 3336 4.5F 3336 50W HALT 50W OHP 6672 50W	0.5-1.25 t. 2.33-4 t. 1.5 t. ---	10-20 fl.oz. 12-16 oz. --- 12-16 oz.	Apply at budbreak in spring at first sign of disease. Repeat at 10- to 14-day intervals. Plant resistant varieties.
	trifloxystrobin COMPASS 50W	---	2-4 oz.	Apply to point of drip when disease is detected or when conditions favor disease. Repeat every 7 to 14 days until threat of outbreak is over.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
CRAPE MYRTLE				
Cercospora Leaf Spot				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	mancozeb PROTECT T/O	3 t.	1.5 lb.	Apply every 7 to 10 days as needed. Add a spreader-sticker to improve coverage of foliage.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate methyl 3336 4.5F 3336 50W HALT 50W	0.5-1.25 t. --- 2.5 t.	10-20 fl.oz. 12-16 oz. ---	Apply at first sign of disease. Repeat at 10- to 14-day intervals as needed in late summer and early fall.
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	FOLIAR SPRAY: Apply to point of drip when conditions favor disease. Repeat every 10 to 14 days as needed.
Powdery Mildew				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	chlorothalonil + fenarimol TWOsome 4.4F	0.67 T.	2 pt.	Apply at first sign of disease (June) and repeat every 10 to 14 days. Use higher rate and shorter interval when disease pressure is heavy and conditions favor spread of disease.
	copper sulfate pentahydrate PHYTON 27	---	20-30 fl.oz.	Apply at first sign of disease and repeat every 7 to 14 days as needed.
	fenarimol RUBIGAN AS	---	6-10 fl.oz.	See Comments for chlorothalonil + fenarimol, above.
	myclobutanil EAGLE WSP EAGLE 20EW IMMUNOX SYSTHANE WSP	--- --- 2 T. ---	6 oz. 8 fl.oz. --- 4 oz.	Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane has been cleared for greenhouse and nursery use.
	paraffinic oil SUNSPRAY ULTRA FINE OIL	2.5-5 T.	1% v/v	Apply at first sign of disease and reapply every 1 to 2 weeks. Do not apply when temperatures exceed 85°F.
	potassium bicarbonate MILSTOP	---	2-3 lb.	Use enough water to thoroughly cover the foliage and apply at first sign of disease. Repeat applications every 7 to 14 days.
	propiconazole BANNER MAXX PROPENSITY 1.3MEC SYSTEMIC FUNGICIDE	--- --- 1-3 T.	5-8 fl.oz. 6-8 fl.oz. ---	Apply as needed at 7-day intervals. Use sufficient volume of water mixed with Propensity to thoroughly cover the leaves and stems. Repeat applications at 21-day intervals as needed.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
CRAPE MYRTLE (cont.)				
Powdery Mildew (cont.)				
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply at first sign of disease (June) and continue sprays at 7- to 14-day intervals. Resistant varieties are available.
	3336 50W	2.33-4 t.	12-24 oz.	
	HALT 50W	2.5 t.	---	
	OHP 6672 50W	---	12-24 oz.	
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	FOLIAR SPRAY: Apply to point of drip when conditions favor disease. Repeat every 10 to 14 days as needed.
	thiophanate-methyl + iprodione BENEFIT	---	17-34 fl.oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	thiophanate-methyl + iprodione 26/36 FUNGICIDE	---	33-84 fl.oz./A	Use sufficient water to thoroughly cover the leaves and stems. Reapply at 7- to 14-day intervals as needed. Use higher rate at shorter interval when disease is present. NOT FOR RESIDENTIAL USE.
	triadimefon BAYLETON T/O	0.2 t.	2-4 oz.	Apply as a full cover spray when symptoms first appear and repeat every 7 to 14 days. Bayleton has been cleared for landscape use ONLY .
	STRIKE 25W	---	4 oz.	
	SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTS	1-2 T.	---	
	triflumizole TERRAGUARD SC	---	4-8 fl.oz.	Apply at 7- to 14-day intervals as needed. Use higher rates under heavy disease pressure.
	triforine ROSE AND SHRUB DISEASE CONTROL	1 T.	---	Apply at first sign of disease (June) and continue sprays at 7- to 14-day intervals. Resistant varieties are available.
DAPHNE				
Phytophthora Root Rot				
	etridiazole TRUBAN 30W	See Comments.		See Andromeda: Phytophthora Root Rot.
	dimethomorph STATURE DM	---	6.4-12.8 oz.	DRENCH: Apply when roots are well established or at first sign of disease. Repeat applications at 10- to 14-day intervals through production cycle. Apply sufficient water to wet the root zone. FOLIAR SPRAY: Apply in sufficient water to thoroughly wet the leaves and stems. Repeat applications at 10- to 14-day intervals through production cycle.
		---	6.4-12.8 oz.	
	fosetyl-AI ALIETTE WDG	See Comments.		See Andromeda: Phytophthora Root Rot.
	propamocarb BANOL 67S	See Comments.		See Andromeda: Phytophthora Root Rot.
	<i>Trichoderma harzianum</i> Strain KRL-AG2 ROOT SHIELD	---	1-1.5 lb./cu.yd.	DRY SOIL MIX IN NURSERY AND GREENHOUSE: Thoroughly incorporate granules during mix preparation or pot filling. See label for compatibility with other fungicides and insecticides.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
DAPHNE(cont.)				
Southern Blight				
	flutolanil CONTRAST 70WSP	---	3-6 oz.	SOIL DRENCH: Apply 1 to 2 pints of suspension per square foot of bed or bench area. Retreat every 21 to 28 days until crop is finished. See label for drench rates on larger containers and for additional information. May be applied through overhead, microjet, and drip irrigation systems.
	PROSTAR 70W	---	3-6 oz.	
	PCNB DEFEND 2L DEFEND 10G DEFEND 75W REVERE WSP TERRACLOR 75W	See Comments.		See Aucuba: Southern Blight.
DOGWOOD				
Cylindrocladium Root Rot				
	thiophanate-methyl 3336 4.5F 3336 50W OHP 6672 4.5F OHP 6672 50W	See Comments.		See Azalea: Cylindrocladium Root Rot; Annuals And Bedding Plants: Soil Pasteurization/Fumigation and Disinfestation Of Equipment.
	triflumizole TERRAGUARD SC	---	4-8 fl.oz.	See Comments for thiophanate-methyl, above.
Dogwood Anthracnose (<i>Discula</i>)				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	chlorothalonil CONCORDE DF DACONIL ULTREX DACONILWEATHER STIK 6F DACONIL ZN FUNG-ONIL ECHO 720 GARDEN FUNGICIDE LANDSCAPE AND GARDEN FUNGICIDE	--- --- --- --- 2 t. 2.25 t. --- 2.25 T. 2 T.	1.4 lb. 1.4 lb. 1.38 pt. 2 pt. --- 1.38 pt. --- ---	Begin applications at budbreak. Repeat at 7- to 14-day intervals until new growth hardens. Occurs in spring through summer.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	copper ammonium complex LIQUID COPPER FUNGICIDE	2 t.	---	Apply at first sign of disease and repeat applications every 7 to 14 days as needed. Shorten application interval when disease is severe.
	copper sulfate pentahydrate PHYTON 27	---	20-30 fl.oz.	Apply at first sign of disease and repeat every 7 to 14 days as needed.
	mancozeb PROTECT T/O	3 t.	1.5 lb.	Begin applications at budbreak. Repeat at 7- to 14-day intervals until new growth hardens. Occurs in spring through summer. Add a spreader-sticker to improve coverage of foliage.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
DOGWOOD (cont.)				
Dogwood Anthracnose (<i>Discula</i>) (cont.)				
	myclobutanil EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	propiconazole BANNER MAXX	---	2-4 fl.oz.	See Comments for mancozeb, above. Apply every 14 days from leafout until early July. Use sufficient volume of water mixed with Propensity to thoroughly cover the leaves and stems. Repeat applications at 21-day intervals as needed.
	PROPENSITY 1.3MEC	---	6-8 fl.oz.	
	SYSTEMIC FUNGICIDE	1 T.	---	
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
Phytophthora Leaf Blight				
	fosetyl-AI ALIETTE WDG	---	2.5-5 lb.	Occurs in mid to late summer on densely packed container-grown flowering dogwood. Apply monthly as needed for control.
Phytophthora Leaf and Shoot Blight				
	dimethomorph STATURE DM	---	6.4-12.8 oz.	DRENCH: Apply when roots are well established or at first sign of disease. Repeat applications at 10- to 14-day intervals through production cycle. Apply sufficient water to wet the root zone. FOLIAR SPRAY: Apply in sufficient water to thoroughly wet the leaves and stems. Repeat applications at 10- to 14-day intervals through production cycle.
		---	6.4-12.8 oz.	
	fosetyl-AI ALIETTE WDG	---	2.5-5 lb.	FOLIAR SPRAY: Apply as a cover spray from June through September at monthly intervals to container-grown flowering dogwood.
Phytophthora Root Rot				
	dimethomorph STATURE DM	---	6.4-12.8 oz.	DRENCH: Apply when roots are well established or at first sign of disease. Repeat applications at 10- to 14-day intervals through production cycle. Apply sufficient water to wet the root zone. FOLIAR SPRAY: Apply in sufficient water to thoroughly wet the leaves and stems. Repeat applications at 10- to 14-day intervals through production cycle.
		---	6.4-12.8 oz.	
	fosetyl-AI ALIETTE WDG	---		See Andromeda: Phytophthora Root Rot.
	metalaxyl SUBDUE GR SUBDUE MAXX SUBDUE 2X WSP	See Comments.		See Andromeda: Phytophthora Root Rot.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
DOGWOOD (cont.)				
Phytophthora Root Rot (cont.)				
	potassium salts of phosphorous acid ALUDE	0.3-0.67 fl.oz.	1-2 qt.	FOLIAR SPRAY: Apply to thoroughly wet foliage and repeat every 14 to 21 days as needed.
		---	6.67-12.67 fl.oz.	DRENCH: Apply 25 gallons of solution to 100 square feet of bed area and repeat monthly as needed.
	propamocarb BANOL 67S	See Comments.		See Andromeda: Phytophthora Root Rot.
	<i>Trichoderma harzianum</i> Strain KRL-AG2 ROOT SHIELD	---	1-1.5 lb./cu.yd.	DRY SOIL MIX IN NURSERY AND GREENHOUSE: Thoroughly incorporate granules during mix preparation or pot filling. See label for compatibility with other fungicides and insecticides.
Powdery Mildew				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	copper sulfate pentahydrate PHYTON 27	---	20-30 fl.oz.	Apply at first sign of disease and repeat every 7 to 14 days as needed.
	kresoxim-methyl CYGNUS	---	1.6-3.2 oz.	Apply as protective spray at 10- to 14-day intervals. Apply higher rate at shorter interval when conditions favor disease.
	myclobutanil EAGLE WSP	---	3-6 oz.	Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for greenhouse and nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	potassium bicarbonate MILSTOP	---	2-3 lb.	Use enough water to thoroughly cover the foliage and apply at first sign of disease. Repeat applications every 7 to 14 days.
	propiconazole BANNER MAXX	---	5-8 fl.oz.	Apply at first sign of disease. Apply as needed to drip. Use sufficient volume of water mixed with Propensity to thoroughly cover the leaves and stems. Repeat applications at 21-day intervals as needed.
	PROPENSITY 1.3MEC	---	6-8 fl.oz.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
DOGWOOD (cont.)				
Powdery Mildew (cont.)				
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply at first sign of disease. Repeat every 7 to 14 days. Resistant cultivars are available.
	3336 50W	---	12-24 oz.	
	HALT 50W	1.5 t.	---	
	OHP 6672 50W	---	12-24 oz.	
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	FOLIAR SPRAY: Apply to point of drip when conditions favor disease. Repeat every 10 to 14 days as needed.
	thiophanate-methyl + iprodione BENEFIT	---	17-34 fl.oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	thiophanate-methyl + iprodione 26/36 FUNGICIDE	---	33-84 fl.oz./A	Use sufficient water to thoroughly cover the leaves and stems. Reapply at 7- to 14-day intervals as needed. Use higher rate at shorter interval when disease is present. NOT FOR RESIDENTIAL USE.
	triadimefon BAYLETON T/O	---	1-2 oz.	Apply Systemic Fungicide as a full cover spray when symptoms first appear; repeat every 7 to 14 days. Bayleton is cleared for landscape use ONLY .
	STRIKE 25W	---	2-4 oz.	
	SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTALS	1-2 T.	---	
	trifloxystrobin COMPASS O	---	1-2 oz.	Apply at first sign of disease. Repeat applications at 7- to 14-day intervals as needed to control disease.
	triflumizole TERRAGUARD SC	---	4-16 fl.oz.	Begin applications at first sign of disease. Repeat as needed every 7 to 14 days. Use higher rate at shorter intervals when disease is present.
Septoria Leaf Spot/Cercospora Leaf Spot				
	chlorothalonil DACONIL ULTREX	---	1.4 lb.	Apply at first sign of disease. Repeat at 7- to 14-day intervals. Develops in late summer.
	DACONIL WEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + fenarimol TWOsome 4.4F	2 t.	2 pt.	See Comments for chlorothalonil, above.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
DOGWOOD (cont.)				
Septoria Leaf Spot/Cercospora Leaf Spot (cont.)				
	mancozeb			
	DITHANE T/O	3 t.	1.5 lb.	Apply at first sign of disease. Repeat at 7- to 14-day intervals. Develops in late summer.
	4 FLOWABLE	---	1.2 qt.	
	MANCOZEB			
	FORE FLOWABLE	---	1.2 qt.	
	JUNCTION	---	1.5 lb.	
	MANCOZEB DG	1.5-3 t.	1-2 lb.	
	PROTECT T/O 80W	3 t.	1.5 lb.	
	myclobutanil			
	EAGLE WSP	---	3-6 oz.	
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	tebuconazole			Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	
Spot Anthracnose				
	azoxystrobin			Apply at budbreak in late winter to early spring and until bract fall.
	HERITAGE 50W	---	1-4 oz.	
	chlorothalonil			Apply at budbreak. Repeat every 7 to 14 days until the bracts fall. Nursery stock may need to be sprayed for an additional 1 to 2 months.
	CONCORDE DF	---	1.4 lb.	
	DACONIL ULTREX	---	1.4 lb.	
	DACONILWEATHER	---	1.38 pt.	
	STIK 6F			
	DACONIL ZN	2 t.	2 pt.	
	ECHO 720	---	1.38 pt.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + fenarimol			See Comments for chlorothalonil, above.
	TWOSOME 4.4F	2 t.	2 pt.	
	chlorothalonil + thiophanate-methyl			See Comments for chlorothalonil, above
	SPECTRO 90	---	1-2 lb.	
	copper hydroxide			Apply at first sign of disease and reapply at 7- to 10-day intervals. See label for information on possible phytotoxicity.
	CUPRO 2005 T/N/O	---	0.75-2 lb./A	
	mancozeb			Apply at budbreak; repeat every 10 to 14 days until the bracts fall and again when flower buds form in late summer.
	DITHANE T/O	3 t.	1.5 lb.	
	FORE 80W	3 t.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	JUNCTION	---	1.5 lb.	
	PROTECT T/O 80W	3 t.	1.5 lb.	
	myclobutanil			Apply at first sign of disease and repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for greenhouse and nursery use.
	EAGLE WSP	---	3-6 oz.	
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
DOGWOOD (cont.)				
Spot Anthracnose (cont.)				
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl 3336 4.5F	0.5-1 T.	10-20 fl.oz.	See Comments for mancozeb, above.
	3336 50W	---	12-16 oz.	
	HALT 50W	2.5 t.	---	
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	FOLIAR SPRAY: Apply to point of drip when conditions favor disease. Repeat every 10 to 14 days as needed.
ELEAGNUS				
Septoria and Cercospora Leaf Spot				
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply when disease appears and repeat at 10- to 14-day intervals.
	3336 50W	2.33-4 t.	12-16 oz.	
Verticillium Wilt				
	None labeled	See Comments.		Replace with a wilt-resistant ornamental.
ELM				
Black Spot				
	mancozeb DITHANE T/O	3 t.	1.5 lb.	Foliar sprays are not very practical for large trees. Apply at budbreak and repeat at 10- to 14-day intervals.
	FORE 80W	3 t.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	JUNCTION	---	1.5 lb.	
	PROTECT T/O 80W	3 t.	1.5 lb.	
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	See Comments for mancozeb, above.
	3336 50W	2.33-4 t.	12-16 oz.	
Dutch Elm Disease (DED)				
	thiabendazole ARBORTECT 20-S	---	2-4 oz.	Trunk irrigation may retard disease. MUST be combined with sanitation, insecticide sprays, and root grafts disruption to be effective. DED-resistant elms are available. FOR PROFESSIONAL APPLICATORS ONLY. See label for rates.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
ELM (cont.)				
Powdery Mildew				
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	triadimefon BAYLETON T/O STRIKE 25W	---	4 oz. 4 oz.	Apply at first sign of disease to point of drip. Repeat at 7- to 14-day intervals as needed.
Wetwood				
	None labeled	See Comments.		Follow recommended maintenance practices.
ENGLISH IVY				
Anthracnose				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	copper hydroxide CUPRO 2005 T/N/O	---	0.75-2 lb./A	Apply at first sign of disease and reapply at 7- to 14-day intervals. See label for information on possible phytotoxicity.
	mancozeb PROTECT T/O	3 t.	1.5 lb.	Apply every 7 to 10 days as needed. Add a spreader-sticker to improve coverage of foliage.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl 3336 4.5F 3336 50W HALT 50W OHP 6672 50W	0.5-1.25 t. 2.33-4 t. 2.5 t. ---	10-20 fl.oz. 12-16 oz. --- 12-16 oz.	Apply when disease appears and repeat at 10- to 14-day intervals.
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	FOLIAR SPRAY: Apply to point of drip when conditions favor disease. Repeat every 10 to 14 days as needed.
Bacterial Leaf Spot				
	bordeaux mixture	8 T.	6-7 lb.	Disease is difficult to control. Remove diseased leaves and avoid overhead irrigation. Begin sprays at budbreak and continue applications at 7- to 14-day intervals until leaves mature.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
ENGLISH IVY (cont.)				
Bacterial Leaf Spot (cont.)				
	copper ammonium complex LIQUID COPPER FUNGICIDE	2 t.	---	Apply at first sign of disease and repeat applications every 7 to 14 days as needed. Shorten application interval when disease is severe.
	copper hydroxide BLACK SPOT AND POWDERY MILDEW CONTROL CUPRO 2005 T/N/O	1.5 t.	---	Apply at first sign of disease and reapply at 7- to 10-day intervals. See label for information on possible phytotoxicity.
	copper sulfate pentahydrate PHYTON 27	---	0.75-2 lb./A	Apply at first sign of disease and reapply at 7- to 14-day intervals. See label for information on possible phytotoxicity.
	fosetyl-AI ALLETTE WDG	1.75-3.5 t.	2-4 lb.	Spray to wet foliage. DO NOT repeat more often than every 7 days. SUPPRESSION ONLY.
	streptomycin sulfate FIRE BLIGHT SPRAY	0.5 t.	8 oz.	Disease is difficult to control. Remove diseased leaves and avoid overhead irrigation. Begin sprays at budbreak and continue at 7- to 14-day intervals until leaves mature.
Phytophthora Root Rot				
	dimethomorph STATURE DM	---	6.4-12.8 oz.	DRENCH: Apply when roots are well established or at first sign of disease. Repeat applications at 10- to 14-day intervals through production cycle. Apply sufficient water to wet the root zone.
		---	6.4-12.8 oz.	FOLIAR SPRAY: Apply in sufficient water to thoroughly wet the leaves and stems. Repeat applications at 10- to 14-day intervals through production cycle.
	etridiazole TRUBAN 25E	---	4-6 fl.oz.	SOIL DRENCH: Covers 400 square feet of bench area. Irrigate immediately. Repeat at 2- to 3-month intervals.
	fenamidone FENSTOP	---	7-14 fl.oz.	SOIL DRENCH: Covers 400 square feet of bed or bench area. Repeat applications as needed on a 28-day schedule. Do not make more than four applications per season. NOT FOR RESIDENTIAL USE.
	metalaxyl SUBDUE MAXX	---	0.5-1 fl.oz.	DRENCH: Apply 1.5 to 2 pints of solution per square foot of treated area. Repeat at 2- to 3-month intervals.
	SUBDUE 2X WSP	---	0.1-0.5 oz.	
	SUBDUE GR	---	6-30 oz.	BROADCAST APPLICATION: Distribute uniformly over 1000 square feet of bench or bed area and thoroughly water into root zone.
		---	1.6-8 oz./cu.yd.	SOIL MIX: Thoroughly mix into soil. Water to wet the root zone. Treat again after 2 to 3 months with a drench or surface treatment.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
ENGLISH IVY (cont.)				
Phytophthora Root Rot (cont.)				
	potassium salts of phosphorous acid ALUDE	0.3-0.67 fl.oz.	1-2 qt.	FOLIAR SPRAY: Apply to thoroughly wet foliage and repeat every 14 to 21 days as needed.
		---	6.67-12.67 fl.oz.	DRENCH: Apply 25 gallons of solution to 100 square feet of bed area and repeat monthly as needed.
	<i>Trichoderma harzianum</i> Strain KRL-AG2 ROOT SHIELD	---	1-1.5 lb./cu.yd.	DRY SOIL MIX IN NURSERY AND GREENHOUSE: Thoroughly incorporate granules during mix preparation or pot filling. Use in combination with protective fungicide drenches. See label for compatibility with other fungicides and insecticides.
Rhizoctonia Root and Crown Rot				
	flutolanil CONTRAST 70WSP	---	3-6 oz.	SOIL DRENCH: Apply 1 to 2 pints of suspension per square foot of bed or bench area. Retreat every 21 to 28 days until crop is finished. See label for drench rates on larger containers and for additional information. May be applied through overhead, microjet, and drip irrigation systems.
	PROSTAR 70W	---	3-6 oz.	
EUONYMUS				
Anthraco-nose				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	FOLIAR SPRAY: Apply at first sign of disease and then every 7 to 28 days as needed.
	chlorothalonil CONCORDE DF	---	1.4 lb.	This is a problem on <i>E. fortunei</i> and <i>E. japonica</i> varieties. Start sprays at budbreak and continue at 10- to 14-day intervals until foliage matures.
	DACONIL ULTREX	---	1.4 lb.	
	DACONILWEATHER	---	1.38 pt.	
	STIK 6F			
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	FUNG-ONIL	2.25 t.	---	
	GARDEN FUNGICIDE	2.25 t.	---	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + fenarimol TWO-SOME 4.4F	0.67 T.	2 pt.	This is a problem on <i>E. fortunei</i> and <i>E. japonica</i> varieties. Start sprays at budbreak and continue at 10- to 14-day intervals until foliage matures.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	copper hydroxide CUPRO 2005 T/N/O	---	0.75-2 lb./A	Apply at first sign of disease and reapply at 7- to 10-day intervals. See label for information on possible phytotoxicity.
	copper sulfate pentahydrate PHYTON 27	---	15-30 fl.oz.	Apply at first sign of disease and repeat every 7 to 14 days as needed.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
EUONYMUS (cont.)				
Anthracoze (cont.)				
	mancozeb			
	DITHANE T/O	3 t.	1.5 lb.	Start sprays at budbreak and continue at 10- to 14- day intervals until foliage matures. Add a spreader-sticker to wettable powder (W) formulations to improve coverage of foliage.
	4 FLOWABLE	---	1.2 qt.	
	MANCOZEB			
	FORE 80W	3 t.	1.5 lb.	FIELD: Use enough water to thoroughly cover the foliage and apply at first sign of disease. Repeat applications every 7 to 14 days.
	FORE FLOWABLE	---	1.2 qt.	
	JUNCTION	---	1.5 lb.	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	MANCOZEB DG	---	1-2 lb.	
	PROTECT T/O 80W	3 t.	1.5 lb.	
	potassium bicarbonate			
	MILSTOP	---	2-3 lb.	
	tebuconazole			
	DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	
	thiophanate-methyl			
	3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Start sprays at budbreak and continue at 10- to 14- day intervals until foliage matures. Add a spreader-sticker to wettable powder (W) formulations to improve coverage of foliage.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	See Comments for thiophanate-methyl, above.
	OHP 6672 50W	---	12-16 oz.	
	thiophanate methyl + flutolanil			
	SYS STAR WDG	---	4-8 oz.	
Crown Gall				
	Agrobacterium radiobactor Strain 84			This is a biological agent. See label for directions. Root dip for bare rootstock. Effectiveness may be limited. Destroy infected plants. Replace with a resistant ornamental. <i>When using Gallex:</i> Hose off galls and allow to dry. Remove as much of the large galls as possible. Paint gall and cut surfaces plus a 0.5-inch zone of healthy bark around the gall. Retreat as needed every 4 to 6 months. Works best when treating galls in spring.
	GALLEX	---	1-4 qt.	
	GALLTROL 1.2%	See Comments.		
	NORBAC 84C			
Phytophthora Root Rot				
	etridiazole	See Comments.		See Andromeda: Phytophthora Root Rot.
	TRUBAN 25E			
	etridiazole + thiophanate-methyl			See Azalea: Phytophthora Root Rot.
	BANROT 8G	See Comments.		
	BANROT 40W			
	propamocarb	See Comments.		See Azalea: Phytophthora Root Rot.
	BANOL 67S			

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
EUONYMUS (cont.)				
Powdery Mildew				
	azoxystrobin HERITAGE 50DG	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	calcium polysulfides ORTHORIX LIME-SULFUR SPRAY	2 t.	---	Apply when disease symptoms first appear. Repeat at 10- to 14-day intervals.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	fenarimol RUBIGAN AS	---	6-10 fl.oz.	Apply at first sign of disease and repeat sprays every 10 to 14 days. Use higher rate and shorter interval when disease pressure is heavy and conditions favor disease spread.
	myclobutanil EAGLE WSP	---	3-6 oz.	Apply at 10- to 14-day intervals. Add a non-phytotoxic adjuvant to improve coverage and fungicide performance.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	paraffinic oil SUNSPRAY ULTRA FINE OIL	2.5-5 T.	1% v/v	Apply at first sign of disease and reapply every 1 to 2 weeks. Do not apply when temperatures exceed 85°F.
	potassium bicarbonate MILSTOP	---	2-3 lb.	FIELD: Use enough water to thoroughly cover the foliage and apply at first sign of disease. Repeat applications every 7 to 14 days.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply at 10- to 14-day intervals. Add a non-phytotoxic adjuvant to improve coverage and fungicide performance.
	3336 50W	---	12-24 oz.	
	HALT 50W	1.5 t.	---	
	OHP 6672 50W	---	12-24 oz.	
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	thiophanate-methyl + iprodione BENEFIT	---	17-34 fl.oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	thiophanate-methyl + iprodione 26/36 FUNGICIDE	---	33-84 fl.oz./A	Use sufficient water to thoroughly cover the leaves and stems. Reapply at 7- to 14-day intervals as needed. Use higher rate at shorter interval when disease is present. NOT FOR RESIDENTIAL USE.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
EUONYMUS (cont.)				
Powdery Mildew (cont.)				
	triadimefon BAYLETON T/O	---	1-2 oz.	Bayleton is cleared for landscape use only. Apply Systemic Fungicide as a full cover spray when symptoms first appear and repeat every 7 to 14 days.
	STRIKE 25W	---	2-4 oz.	
	SYSTEMIC FUNGICIDE FOR TURF AND ORNAMENTALS	1-2 T.	---	
	trifloxystrobin COMPASS O	---	1-2 oz.	Apply at first sign of disease. Repeat applications at 7- to 14-day intervals as needed to control disease.
	triflumizole TERRAGUARD SC	---	4-8 fl.oz.	Begin applications before first sign of disease. Repeat as needed every 7 to 14 days. Use higher rate at shorter intervals when disease is present.
	triforine ROSE AND SHRUB DISEASE CONTROL	1 T.	---	Apply at first sign of disease and repeat every 7 to 10 days as needed.
Rhizoctonia Root Rot				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	SOIL DRENCH: Apply as needed and repeat at 14- to 28-day intervals.
	etridiazole + thiophanate-methyl BANROT 8G	---	16 oz./cu.yd.	DRY SOIL MIX: Apply with soil drench as needed.
		---	8-12 lb./1000 sq.ft.	BROADCAST ON FIELD STOCK: Apply as needed. See label for spreader settings.
		---	6 oz.	SIDEDRESS ON FIELD STOCK: Apply in 4- to 6-inch-deep furrow 8 to 10 inches on both sides of plant and cover. Repeat as needed.
	BANROT 40W	0.5-1.25 t.	6-12 oz.	SOIL DRENCH: Covers 400 square feet (0.5 pint per 6-inch pot). Irrigate immediately. Repeat at 1- to 3-month intervals.
	flutolanil CONTRAST 70WSP	---	3-6 oz.	SOIL DRENCH: Apply 1 to 2 pints of suspension per square foot of bed or bench area. Retreat every 21 to 28 days until crop is finished. See label for drench rates on larger containers and for additional information. May be applied through overhead, microjet, and drip irrigation systems.
	PROSTAR 70W	---	3-6 oz.	
	iprodione CHIPCO 26GT	---	13 fl.oz.	SOIL DRENCH AT TRANSPLANTING: Apply 1 to 2 pints per square foot. Repeat at 14-day intervals.
	SEXTANT 2F	---	13 fl.oz.	
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	16-20 fl.oz.	SOIL DRENCH AT TRANSPLANTING: Apply 1 to 2 pints per square foot. Repeat at 14-day intervals.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	
	OHP 6672 4.5F	---	20 fl.oz.	
	OHP 6672 50W	---	12-16 oz.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
EUONYMUS (cont.)				
Rhizoctonia Root Rot (cont.)				
	thiophanate methyl + flutolanil SYS STAR WDG	---	2-4 oz.	See Comments for thiophanate-methyl, above.
	thiophanate-methyl + iprodione 26/36 FUNGICIDE	---	33-84 fl.oz./A	HEAVY SPRAY/DRENCH: Use sufficient water to thoroughly wet the roots and surrounding potting medium. Reapply at 7- to 14-day intervals as needed. Use higher rate at shorter interval when disease is present. NOT FOR RESIDENTIAL USE.
	trifloxystrobin COMPASS O	---	0.5 oz.	DRENCH: Apply sufficient water to thoroughly wet media and root. Reapply every 21 to 28 days as needed.
	triflumizole TERRAGUARD SC	---	4-8 fl.oz.	DRENCH: Apply every 14 to 28 days. Use higher rate at shorter intervals when disease is present.
Scab				
	copper ammonium complex LIQUID COPPER FUNGICIDE	2 t.	---	Apply at first sign of disease and repeat applications every 7 to 14 days as needed. Shorten application interval when disease is severe.
FORSYTHIA				
Crown Gall				
	Agrobacterium radio-bactor Strain 84 GALLTROL 1.2 NORBAC 84	See Comments.		See Euonymus: Crown Gall.
Phytophthora Root Rot				
	fosetyl-Al ALIETTE WDG	See Comments.		See Azalea: Phytophthora Root Rot.
	propamocarb BANOL 67S	See Comments.		See Azalea: Phytophthora Root Rot.
Southern Blight				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply in late spring when conditions favor disease and repeat at 7- to 21-day intervals during periods of hot weather.
	flutolanil CONTRAST 70WSP PROSTAR 70W	---	3-6 oz. ---	SOIL DRENCH: Apply 1 to 2 pints of suspension per square foot of bed or bench area. Retreat every 21 to 28 days until crop is finished. See label for drench rates on larger containers and for additional information. May be applied through overhead, microjet, and drip irrigation systems.
	PCNB DEFEND 2L DEFEND 10G DEFEND 75W REVERE WSP TERRACLOR 75W	See Comments.		See Aucuba: Southern Blight.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
GARDENIA				
Anthracnose				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl 3336 4.5F 3336 50W HALT 50W	0.5-1.25 t. 2.33-4 t. 2.5 t.	10-20 fl.oz. 12-16 oz. ---	Apply at budbreak and repeat two to three times at 10- to 14-day intervals.
Bacterial Leaf Spot				
	copper sulfate pentahydrate PHYTON 27	---	15-25 fl.oz.	Apply at first sign of disease and repeat every 7 to 14 days as needed.
Canker				
	None labeled	See Comments.		Prune diseased limbs. Fertilize according to soil test results. Irrigate when needed.
Root Rot				
	etridiazole + thiophanate-methyl BANROT 8G BANROT 40W	See Comments.		See Azalea: Phytophthora Root Rot.
	propamocarb BANOL 67S	See Comments.		See Azalea: Phytophthora Root Rot.
HAWTHORNE				
Cedar-Apple Rust				
	chlorothalonil CONCORDE DF DACONIL ULTREX DACONIL WEATHER STIK 6F DACONIL ZN ECHO DF GARDEN FUNGICIDE LANDSCAPE AND GARDEN FUNGICIDE	--- --- --- 2 t. --- 2.25 t. 2 T.	1.4 lb. 1.4 lb. 1.38 pt. 2 pt. 1.25 lb. --- ---	Apply when blooms show color. Repeat sprays at 7- to 14-day intervals until June. Add a spreader-sticker to wettable powder (W) formulations to improve coverage of foliage.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	copper sulfate pentahydrate PHYTON 27	---	15-25 fl.oz.	Use sufficient volume of water to thoroughly cover the leaves and stems. Repeat applications at 7- to 14- day intervals as needed to control disease.
	mancozeb DITHANE T/O FORE FLO 37F FORE FLOWABLE MANCOZEB DG PROTECT T/O 80W	2 t. --- --- 1.5-3 t. 2 t.	1.5 lb. 1.2 qt. 1.2 qt. 1-2 lb. 1.5 lb.	Apply when blooms show color. Repeat sprays at 7- to 14-day intervals until June. Add a spreader-sticker to wettable powder (W) formulations to improve coverage of foliage.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
HAWTHORNE (cont.)				
Cedar-Apple Rust (cont.)				
	myclobutanol			
	EAGLE WSP	---	3-6 oz.	Apply at first sign of disease; repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	propiconazole			
	BANNER MAXX	---	2-4 fl.oz.	Apply at first sign of disease. Apply every 14 to 21 days to drip Use sufficient volume of water mixed with Propensity to thoroughly cover the leaves and stems. Repeat applications at 21-day intervals as needed.
	PROPENSITY 1.3MEC	---	6-8 fl.oz.	
	tebuconazole			
	DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	triadimefon			
	BAYLETON T/O	---	1-2 oz.	Bayleton is cleared for landscape use only.
	STRIKE 25W	---	2-4 oz.	
Entomosporium Leaf Spot				
	chlorothalonil			
	CONCORDE DF	---	1.4 lb.	Begin sprays at budbreak. Repeat at 7- to 14-day intervals until foliage matures. Reduce interval during wet, overcast weather. Add a spreader-sticker to wettable powder (W) formulations.
	DACONIL ULTREX	---	1.4 lb.	
	DACONIL WEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	GARDEN FUNGICIDE LANDSCAPE AND GARDEN FUNGICIDE	2.25 t. 2 T.	--- ---	
	chlorothalonil + fenarimol			See Comments for chlorothalonil, above.
	TWOSOME 4.4F	2 t.	2 pt.	
	chlorothalonil + thiophanate-methyl			See Comments for chlorothalonil, above
	SPECTRO 90	---	1-2 lb.	
	mancozeb			
	DITHANE T/O	2 t.	1.5 lb.	Begin sprays at budbreak. Repeat at 7- to 14-day intervals until foliage matures. Reduce interval during wet, overcast weather. Add a spreader-sticker to wettable powder (W) formulations.
	FORE 80W	2 t.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	MANCOZEB DG	1.5-3 t.	1-2 lb.	
	myclobutanol			
	EAGLE WSP	---	3-6 oz.	Apply at first sign of disease; repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane has been cleared for nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	tebuconazole			
	DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
HAWTHORNE (cont.)				
Fireblight				
	copper hydroxide CUPRO 2005 T/N/O	---	0.75-2 lb./A	Apply at first sign of disease and reapply at 7- to 10-day intervals. See label for information on possible phytotoxicity.
	copper sulfate pentahydrate PHYTON 27	---	15-25 fl. oz.	See comments for copper hydroxide.
	streptomycin sulfate FIRE BLIGHT SPRAY	0.5 t.	8 oz.	See Comments for copper hydroxide, above.
Scab				
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	kresoxim-methyl CYGNUS	---	1.6-3.2 oz.	Apply as protective spray at 10- to 14-day intervals. Apply higher rate at shorter interval when conditions favor disease.
	mancozeb DITHANE T/O	2 t.	1.5 lb.	Apply at first sign of disease. Repeat at 10- to 14-day intervals.
	FORE 80W	2 t.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	MANCOZEB DG	---	1-2 lb.	
	PROTECT T/O 80W	2 t.	1.5 lb.	
	myclobutanil EAGLE WSP	--	3-6 oz.	Apply at first sign of disease; repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for nursery use.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply at first sign of disease. Repeat at 10- to 14-day intervals.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	
	OHP 6672 50W	---	12-16 oz.	
	trifloxystrobin COMPASS 50W	---	0.5 oz.	DRENCH: Apply sufficient water to thoroughly wet media and root. Reapply every 21 to 28 days as needed.
	trifloxystrobin COMPASS O	---	2-4 oz.	Apply at first sign of disease and repeat applications at 7- to 14-day intervals as needed to control disease.
HIBISCUS				
Bacterial Leaf Spot				
	copper ammonium complex LIQUID COPPER FUNGICIDE	2 t.		Apply at first sign of disease and repeat applications every 7 to 14 days as needed. Shorten application interval when disease is severe.
	copper hydroxide CUPRO 2005 T/N/O	---	0.75-2 lb./A	Apply at first sign of disease and reapply at 7- to 14-day intervals. See label for information on possible phytotoxicity.
	copper sulfate pentahydrate PHYTON 27	---	15-25 fl.oz.	Use sufficient volume of water to thoroughly cover the leaves and stems. Repeat applications at 7- to 14- day intervals as needed to control disease.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
HIBISCUS (cont.)				
Phytophthora Root Rot				
	potassium salts of phosphorous acid			
	ALUDE	0.3-0.67 fl.oz.	1-2 qt.	FOLIAR SPRAY: Apply to thoroughly wet foliage and repeat every 14 to 21 days as needed.
		---	6.67-12.67 fl.oz.	DRENCH: Apply 25 gallons of solution to 100 square feet of bed area and repeat monthly as needed.
Rust				
	azoxystrobin			
	HERITAGE 50W	---	1-4 oz.	Spray to drip. Repeat as needed at 7- to 28-day intervals. Occurs on Rose of Sharon.
HOLLY				
Anthracnose				
	azoxystrobin			
	HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	chlorothalonil			
	CONCORDE DF	---	1.4 lb.	Begin sprays in late spring and continue at 10- to 14-day intervals. Remove diseased limbs.
	DACONIL ULTREX	---	1.4 lb.	
	DACONILWEATHER	---	1.38 pt.	
	STIK 6F			
	DACONIL ZN	2 t.	2 pt.	
	ECHO 720	---	1.38 pt.	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + thiophanate-methyl			See Comments for chlorothalonil, above
	SPECTRO 90	---	1-2 lb.	
	mancozeb			
	JUNCTION	---	1.5 lb.	Apply every 7 to 10 days as needed. Add spreader- sticker to improve coverage of foliage.
	PROTECT T/O	3 t.	1.5 lb.	
	tebuconazole			
	DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl			
	3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Begin sprays in late spring and continue at 10- to 14-day intervals. Remove diseased limbs.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	
	OHP 6672 50W	---	12-16 oz.	
	thiophanate methyl + flutolanil			
	SYS STAR WDG	---	4-8 oz.	See Comments for thiophanate-methyl, above.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
HOLLY (cont.)				
Black Root Rot				
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	16-20 fl.oz.	SOIL DRENCH: Apply to propagation beds and con-tainer plants at 2- to 4-week intervals. Japanese holly most susceptible.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	
Powdery Mildew				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
Purple Spot				
	mancozeb DITHANE T/O	2 t.	1.5 lb.	Apply when plants are leafed out. Repeat at 7- to 14-day intervals.
	FORE 80W	2 t.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	PROTECT T/O	---	1.5 lb.	
Rhizoctonia Web Blight				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals. The disease occurs on cultivars of Japanese and similar dwarf hollies in the summer.
	chlorothalonil CONCORDE DF	---	1.4 lb.	Spray foliage and soil. Apply every 7 to 14 days on cuttings and nursery. Found on Japanese and similar dwarf hollies. Hot weather disease on crowded plants.
	DACONIL ULTREX	---	1.4 lb.	
	DACONIL WEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	FUNG-ONIL	2.25 t.	---	
	GARDEN FUNGICIDE	2.25 t.	---	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + fenarimol TWOsome 4.4F	2 t.	2 pt.	
	chlorothalonil + thiophanate- methyl SPECTRO 90	---	1-2 lb.	
	flutolanil CONTRAST 70WSP PROSTAR 70W	---	3-12 oz.	FOLIAR SPRAY: Repeat sprays as needed every 14 to 21 days. Tank mix with appropriate surfactant.
	iprodione CHIPCO 26GT	---	1-2.5 qt./A	See Comments for chlorothalonil, above. NOT FOR RESIDENTIAL USE.
	CHIPCO 26019 50W	---	1-2.5 qt./A	
	IPRODIONE PRO SE SEXTANT 2F	---	1-2.75 qt. 1-2.75 qt.	
	mancozeb JUNCTION	---	1.5 lb.	Apply every 7 to 10 days as needed. Add spreader- sticker to improve coverage of foliage.
	PROTECT T/O	3 t.	1.5 lb.	
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
HOLLY (cont.)				
Rhizoctonia Web Blight (cont.)				
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Spray foliage and soil. Apply every 7 to 14 days on cuttings and nursery. Found on Japanese and similar dwarf hollies. Hot weather disease on crowded plants.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	
	OHP 6672 4.5F	---	20 fl.oz.	
	OHP 6672 50W	---	12-16 oz.	
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	
	thiophanate-methyl + iprodione BENEFIT	---	17-34 fl.oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	thiophanate-methyl + iprodione 26/36 FUNGICIDE	---	33-84 fl.oz./A	Use sufficient water to thoroughly cover the leaves and stems. Reapply at 7- to 14-day intervals as needed. Use higher rate at shorter interval when disease is present. NOT FOR RESIDENTIAL USE.
	triflumizole TERRAGUARD SC	---	4-8 fl.oz.	Begin applications before first sign of disease. Repeat as needed every 7 to 14 days. Use higher rate at shorter intervals when disease is present.
Root Rot				
	etridiazole TRUBAN 5G	See Comments.		See Azalea: Phytophthora Root Rot.
	etridiazole + thiophanate methyl BANROT 8G BANROT 40W	See Comments.		See Azalea: Phytophthora Root Rot.
	fosetyl-AI ALIETTE WDG	See Comments.		See Azalea: Phytophthora Root Rot.
	metalaxyl SUBDUE GR SUBDUE MAXX SUBDUE 2X WSP	See Comments.		See Azalea: Phytophthora Root Rot.
	propamocarb BANOL 67S	See Comments.		See Azalea: Phytophthora Root Rot.
Twig Dieback				
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Prune diseased limbs. Spray at 10- to 14-day intervals.
	3336 50W	2.33-4 t.	12-16 oz.	

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
HOSTA				
Southern Blight				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	SOIL DRENCH: Apply from late spring through early fall every 7 to 21 days as needed. Use higher rate at shorter interval when disease is present.
	flutolanil CONTRAST 70WSP	---	3-6 oz.	DRENCH: Apply enough water to wet the roots. Reapply as needed at 21- to 28-day intervals. See label for additional instructions.
	PROSTAR 70WP	---	3-6 oz.	
	PCNB DEFEND 75W	---	4-8 oz.	SOIL DRENCH: Apply to 400 to 800 square feet of bed or bench area. Repeat every 4 to 6 weeks as needed.
	REVERE WSB	---	4-8 oz.	
	TERRACLOR 75W	---	4-8 oz.	
HYDRANGAEA				
Anthracnose, Cercospora, Septoria Leaf Spot				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	chlorothalonil CONCORDE DF	---	1 lb.	Apply at budbreak and repeat two to three times at 10- to 14-day intervals. Apply chlorothalonil to foliage only.
	DACONIL ULTREX	---	1.4 lb.	
	DACONILWEATHER STIK 6F	---	1.38 pt.	
	DACONIL ZN	2 t.	2 pt.	
	ECHO DF	---	1.25 lb.	
	FUNG-ONIL	2.25 t.	---	
	GARDEN FUNGICIDE	2.25 t.	---	
	LANDSCAPE AND GARDEN FUNGICIDE	2 T.	---	
	chlorothalonil + thiophanate- methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	copper sulfate pentahydrate PHYTON 27	---	13-25 fl.oz.	Apply at first sign of disease and repeat every 7 to 14 days as needed.
	kresoxim-methyl CYGNUS	---	1.6-3.2 oz.	Apply as protective spray at 10- to 14-day intervals. Apply higher rate at shorter interval when conditions favor disease.
	mancozeb DITHANE T/O	3 t.	1.5 lb.	Apply at budbreak and repeat two to three times at 10- to 14-day intervals. Apply mancozeb to foliage only.
	FORE 80W	3 t.	1.5 lb.	
	JUNCTION	---	1.5 lb.	
	MANCOZEB DG	1.5-3 t.	1-2 lb.	
	PROTECT T/O 80W	3 t.	1.5 lb.	
	myclobutanil EAGLE WSP	---	3-6 oz.	Apply at first sign of disease; repeat at 10- to 14-day intervals. Add a non-ionic surfactant to the tank mixture. Systhane is cleared for nursery use only.
	EAGLE 20EW	---	8 fl.oz.	
	IMMUNOX	2 T.	---	
	SYSTHANE WSP	---	3-6 oz.	
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
HYDRANGEA (cont.)				
Anthracnose, Cercospora, Septoria Leaf Spot (cont.)				
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	See Comments for mancozeb, above.
	3336 50W	2.33-4 t.	12-16 oz.	
	HALT 50W	2.5 t.	---	
Botrytis Blossom and Shoot Blight				
	copper sulfate pentahydrate PHYTON 27	---	13-25 fl.oz.	Use sufficient volume of water to thoroughly cover the leaves and stems. Repeat applications at 7- to 14- day intervals as needed to control disease.
	iprodione CHIPCO 26 GT	---	1-2.5 qt./A	Apply during wet, overcast weather. Repeat at 7- to 14-day intervals as long as conditions favor disease. Remove spent blooms. NOT FOR RESIDENTIAL USE.
	CHIPCO 26019 50W	---	1-2.5 qt./A	
	IPRODIONE PRO SE	---	1-2.75 qt.	
	mancozeb DITHANE T/O	2 t.	1.5 lb.	See Comments for iprodione, above.
	FORE 80W	2 t.	1.5 lb.	
	FORE FLOWABLE	---	1.2 qt.	
	MANCOZEB DG	---	1-2 lb.	
	PROTECT T/O 80W	2 t.	1.5 lb.	
	thiophanate-methyl 3336 4.5F	0.5-1.25 t.	10-20 fl.oz.	Apply during wet, overcast weather. Repeat at 7- to 14-day intervals as long as conditions favor disease. Remove spent blooms.
	3336 50W	2.33-4 t.	12-16 oz.	
	OHP 6672 50W	---	12-16 oz.	
	thiophanate-methyl + iprodione BENEFIT	---	17-34 fl.oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	thiophanate-methyl + iprodione 26/36 FUNGICIDE	---	33-84 fl.oz./A	Use sufficient water to thoroughly cover the leaves and stems. Reapply at 7- to 14-day intervals as needed. Use higher rate at shorter interval when disease is present. NOT FOR RESIDENTIAL USE.
	triflumizole TERRAGUARD SC	---	4-8 fl.oz.	Begin applications when conditions favor disease. Repeat as needed every 7 to 14 days. Use higher rate at shorter intervals when disease is present.
Powdery Mildew				
	azoxystrobin HERITAGE 50W	---	1-4 oz.	Apply at first sign of disease and repeat at 14- to 28-day intervals.
	chlorothalonil + thiophanate-methyl SPECTRO 90	---	1-2 lb.	See Comments for chlorothalonil, above
	copper sulfate pentahydrate PHYTON 27	---	13-25 fl.oz.	Apply at first sign of disease and repeat every 7 to 14 days as needed.
	fenarimol RUBIGAN AS	---	3-5 fl.oz.	Apply every 10 to 14 days after disease appears. Use higher rate and shorter interval when disease is severe and conditions favor spread of disease.

Host and Disease	Fungicide and Formulation	Rates (Unless Stated Otherwise)		Comments
		Per Gallon	Per 100 Gallons	
Commercial Ornamentals: Disease Control—Woody Trees, Shrubs, and Perennial Ground Covers, Abelia–Hydrangea				
HYDRANGEA (cont.)				
Powdery Mildew (cont.)				
	kresoxim-methyl CYGNUS	---	1.6-3.2 oz.	Apply as protective spray at 10- to 14-day intervals. Apply higher rate at shorter interval when conditions favor disease.
	myclobutanil EAGLE 20EW IMMUNOX	--- 2 T.	8 fl.oz. ---	
	paraffinic oil SUNSPRAY ULTRA FINE OIL	2.5-5 T.	1% v/v	Apply at first sign of disease and reapply every 1 to 2 weeks. Do not apply when temperatures exceed 85°F.
	potassium bicarbonate MILSTOP	---	1.25-3 lb. 2-3 lb.	GREENHOUSE: Use a sufficient volume of water to cover the leaves and stems. Repeat applications at 7- to 14-day intervals as needed to control disease. FIELD APPLICATION: Use a sufficient volume of water to cover the leaves and stems. Repeat applications at 7- to 14-day intervals as needed to control disease.
	tebuconazole DISEASE CONTROL FOR ROSES, FLOWERS, AND SHRUBS	1.5 T.	---	Make three applications at 7- to 14-day intervals as needed to control disease. Make first application at first sign of disease.
	thiophanate-methyl 3336 4.5F 3336 50W HALT 50W OHP 6672 50W	0.5-1.25 t. 2.33-4 t. 1.5 t. ---	10-20 fl.oz. 12-24 oz. --- 12-24 oz.	See Comments for fenarimol, above.
	thiophanate methyl + flutolanil SYS STAR WDG	---	4-8 oz.	See Comments for fenarimol, above.
	thiophanate-methyl + iprodione BENEFIT	---	17-34 fl.oz.	Apply to point of run-off. Repeat at 10- to 14-day intervals as needed. See label for further directions.
	trifloxystrobin COMPASS O	---	1-2 oz.	Apply at first sign of disease. Repeat applications at 7- to 14-day intervals as needed to control disease.
	triflumizole TERRAGUARD SC	---	4-16 fl.oz.	Begin applications at first sign of disease. Repeat as needed every 7 to 14 days. Use higher rate at shorter intervals when disease is present.
Root Rot				
	etr Diazole + thiophanate-methyl BANROT 8G BANROT 40W	See Comments.		See Azalea: Phytophthora Root Rot.
	propamocarb BANOL 67S	See Comments.		See Azalea: Phytophthora Root Rot.

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For more information, call your county Extension office. It is listed in your telephone directory under your county's name.

Use pesticides **only** according to the directions on the label. Follow all directions, precautions, and restrictions that are listed. Do not use pesticides on plants that are not listed on the label.

The pesticide rates in this publication are recommended **only** if they are registered with the Environmental Protection Agency or the Alabama Department of Agriculture and Industries. If a registration is changed or cancelled, the rate listed here is no longer recommended. Before you apply **any** pesticide, check with your county Extension agent for the latest information.

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