

ORNAMENTAL DISEASES (Commercial)

Sherrie Smith and Keiddy Urrea

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Bacterial blight (<i>Xanthomonas campestris</i>) Fire blight	Aliette	aluminum tris	33	See label.	12 hours	See label.
Bacterial leaf, twig blight Bacterial leaf spot <i>Pseudomonas syringae</i>	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal (1/2 tbs/gal)	24 hours	Use in a spray solution with greater than 6.5 pH (phytotoxicity).
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	
	Alude	salts of phosphorus acid	33	See label.	4 hours	Rate depends on application (soil drench or foliar spray). See label.
Downy mildew	Aliette WDG	aluminum tris	33	See label.	12 hours	Rate depends on application (soil drench or foliar spray). See label.
	Heritage	azoxystrobin	11	1 - 4 oz/100 gal	4 hours	See label for specific rates per container size. May cause phytotoxicity on apples or crabapples. Do not allow drift to apples or crabapples.
	Segway	cyazofamid	21	2.1 - 3.5 fl oz/100 gal	12 hours	
	Stature SC	dimethomorph	40	6.12 - 12.25 fl oz/ 100 gal	12 hours	Do not make more than 8 applications per season for greenhouse-grown ornamentals.
	Micora	mandipropamid	40	4 - 8 fl oz/100 gal	4 hours	See fungicide management strategies.
	Fenstop	fenamidone	11	7 - 14 fl oz/100 gal	12 hours	See label for rates for drench applications.
	Adorn	fluopicolide	43	1 - 4 fl oz/100 gal	12 hours	See fungicide management strategies.
	Subdue MAXX	mefenoxam	4	See label.	48 hours	See label for drench and foliar rates.
	Segovis	oxanthiapiprolin	U15	0.6 - 3.2fl oz/100 gal	4 hours	See fungicide management strategies.
	(continued)	Affirm WDG	polyoxin D zinc salts	19	0.25 - 0.5 oz ai/acre	4 hours

*FRAC Code – Fungicides with the same FRAC Code have the same mode of action. See <http://www.frac.info/> for an explanation of the FRAC Codes. Rotation of fungicides with different FRAC Codes could minimize the development of fungicide resistant strains.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Downy mildew (<i>cont.</i>)	Insignia SC	pyraclostrobin	11	3 - 6.1 fl oz/100 gal	12 hours	Use preventatively.
	Insignia	pyraclostrobin	11	4 - 8 fl oz/100 gal	12 hours	Use preventatively.
	Alude	salts of phosphorus acid	33	See label.	4 hours	Rate depends on whether used as soil drench or foliar spray. See label.
	Compass	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	
Phytophthora Pythium	Aliette	aluminum tris	33	See label.	12 hours	Rate depends on application type (whether used as soil drench or foliar spray). See label.
	Heritage	azoxystrobin	11	1 - 4 oz/100 gal	4 hours	See label for specific rates per container size. Do not allow drift to apples or crabapples. Not labeled for Pythium except in turf.
	Mural	azoxystrobin + benzovindiflupyr	11 + 7	2 - 7 oz/100 gal	12 hours	Rate depends on whether used as soil drench or foliar spray. See label.
	Segway	cyazofamid	21	1.5 - 6 fl oz/100 gal	12 hours	Group 21 fungicide. Crown rots and damping off. 14 - 28 day interval.
	Stature SC	dimethomorph	40	6.12 - 12.25 fl oz/100 gal	12 hours	DO NOT make more than 8 applications of per crop per season for greenhouse-grown ornamentals. No labeled for Pythium.
	Banrot 40 WP/8 G	etridiazole + thiophanate-methyl	14 + 1	3 - 12 oz/100 gal	12 hours	For use in commercial greenhouses only. See label for specific rates per container or seedbed.
	Fenstop	fenamidone	11	7 - 14 fl oz/100 gal	12 hours	See label for rates for drench applications.
	Hurricane	fludioxonil + mefenoxam	12 + 4	See label.	48 hours	Do not apply more than 2 pt of drench mixture per sq foot of application.
	Hurricane WDG	fludioxonil + mefenoxam	12 + 4	0.75 - 1.5 oz/100 gal	48 hours	See label for rate based on application method.
	Adorn	fluopicolide	43	1 - 4 fl oz/100 gal	12 hours	See fungicide management strategies.
	Subdue MAXX	mefenoxam	4	See label.	48 hours	
	Micora	mandipropamid	40	4 - 8 fl oz/100 gal	4 hours	Apply Micora as a foliar and stem spray on a 7 - 14 day interval. Not labeled for pythium.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Phytophthora (<i>cont.</i>) Pythium	Segovis	oxanthiapiprolin	U15	0.6 - 3.2 fl oz/100 gal	4 hours	Make no more than two consecutive applications before switching to another non U15 group fungicide. Not labeled for Pythium.
	Insignia SC Intrinsic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
	Insignia	pyraclostrobin	11	8 - 16 fl oz/100 gal	12 hours	
	Alude	salts of phosphorus acid	33	See label.	4 hours	See label for soil drench and foliar rates.
	Compass	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	Start applications when conditions are favorable for disease development. Not labeled for Pythium. See label for rates per specific application method and crop.
	Strike Plus 50 WDG	trifloxystrobin + triadimefon	11 + 3	3 - 9 oz/100 gal	12 hours	Apply as a full coverage spray to the point of drip. Repeat at 14 - 28 day intervals.
Black root rot (<i>Thielaviopsis</i> spp.)	Banrot 40 WP/8 G	etridiazole + thiophanate-methyl	14 + 1	3 - 12 oz/100 gal	12 hours	For use in commercial greenhouses only. Rate depends on crop. See label.
	Medallion and Medallion WDG	fludioxonil	12	See label	12 hours	See label for instructions on drench and mixing with growing media.
	Affirm WDG	polyoxin D zinc salts	19	0.5 lb/acre	4 hours	Do not apply more than three applications per season.
	Compass	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	Use preventatively.
	Terraguard SC	triflumizole	3	2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	Applications should be made preventatively.
	Rhizoctonia aerial blights and root rots	Heritage	azoxystrobin	11	0.2 - 16 oz/100 gal	4 hours
Daconil Ultrex		chlorothalonil	M5	1.4 lb/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Rhizoctonia aerial blights and root rots (<i>cont.</i>)	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	Fruits and other structures which may be borne on treated plants must not be eaten. See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	Fruits and other structures which may be borne on treated plants must not be eaten. See label for specific precautions regarding REI.
	Banrot 40 WP/8G	etridiazole + thiophanate-methyl	14 + 1	3 - 12 oz/100 gal	12 hours	For use in commercial greenhouses only. Rate depends on crop. See label.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	For stem diseases, ensure full coverage of all stems and inner areas of plant to the soil/media level.
	Medallion	fludioxonil	12	1 - 4 oz/100 gal (foliar spray)	12 hours	For indoor drench applications use up to 30 oz Medallion per 1,000 sq ft.
	Hurricane	fludioxonil + mefenoxam	12 + 4	See label.	48 hours	Do not apply more than 2 pt of drench mixture per sq foot of application.
	Prostar 70 WP	flutolanil	7	3 - 12 oz/100 gal	12 hours	Observe for phytotoxicity prior to each application and 2 weeks after final application.
	26 GT	iprodione	2	1 - 13 fl oz	12 hours	Rate depends on application method. See label. Do not use as a drench on impatiens or pothos.
	26019 N/G	iprodione	2	1 - 2.5 lb/100 gal	12 hours	
	26019 FLO	iprodione	2	1 - 2.5 qt/100 gal	12 hours	
	3336 EG and 3336 WP and 3336 F	thiophanate-methyl	1	8 - 24 oz/100 gal	12 hours	Rate depends on method of application. See label.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
	26/36	thiophanate-methyl + iprodione	1 + 2	17 - 34 fl oz/100 gal	12 hours	
	Compass	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	Use preventatively.
	Terraguard SC	triflumizole	3	2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	For optimum disease control, applications should be made prior to or at the first sign of disease.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Soilborne Fusarium	Heritage	azoxystrobin	11	1 - 4 oz/100 gal	4 hours	See label for specific rates per container size. May cause phytotoxicity on apples or crabapples.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	For stem diseases, ensure full coverage of all stems and inner areas of plant to the soil/media level.
	Banrot 40 WP/8 G	etridiazole + thiophanate-methyl	14 + 1	3 - 12 oz/100 gal	12 hours	For use in commercial greenhouses only. Rate depends on crop. See label.
Southern blight (<i>Sclerotium rolfsii</i>)	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	For stem diseases, ensure full coverage of all stems and inner areas of plant to the soil/media level.
	Medallion	fludioxonil	12	1 - 4 oz/100 gal (foliar spray)	12 hours	For indoor drench applications use up to 30 oz Medallion per 1,000 sq ft.
	Medallion WDG	fludioxonil	12	1 - 4 oz/100 gal	12 hours	See label for specific instructions on growing media mix and medium drench.
	Torque	tebuconazole	3	4 - 10 fl oz/100 gal	12 hours	Apply every 14 days for a total of three applications beginning at the first sign of disease.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Actinopelte leaf spot (now <i>Tubakia</i> spp.)	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 - 7 pt/100 gal	12 hours	
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days. See label for specific precautions regarding REI.
	Mancozeb DG	mancozeb	M3	1.5 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
Algal Leaf Spot (<i>Cephaleuros virescens</i>)	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	16 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
Alternaria leaf blight (See individual labels)	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12	Do not use in greenhouses. Apply every 21 days.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
	Medallion and Medallion WDG	fludioxonil	12	1 - 4 oz/100 gal (foliar spray)	12 hours	
	26019 FLO	iprodione	2	1 - 2.5 qt/100 gal	12 hours	
	26 GT and 26019 N/G	iprodione	2	1 - 2.5 qt/100 gal	12 hours	Do not use as a drench on impatiens or pothos. Rate depends on application method. See label.
	Mancozeb DG and Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Alternaria leaf blight (See individual labels) (cont.)	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	Affirm WDG	polyoxin D zinc salts	19	0.5 lb/acre	4 hours	Do not apply more than 3 applications per season.
	MilStop	potassium bicarbonate	NC	2.5lb /100 gal	1 hour	Do not use on pansy at early stages of growth. See label for field rates.
	Banner Maxx II	propiconazole	3	5 - 8 fl oz/100 gal	24 hours	Rate depends on crop See label.
	Insignia SC Intrensic	pyraclostrobin	11	1.5 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
	26/36	thiophanate-methyl + iprodione	1 + 2	33 - 84 fl oz/100 gal	12 hours	Do not use as a drench on impatiens, petunias, or pothos.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
	Compass	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	Use preventatively.
Anthracnose (See individual labels)	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Anthracnose (See individual labels) (cont.)	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
	Mancozeb DG and Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals. To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	Affirm WDG	polyoxin D zinc salts	19	0.5 oz ai/acre	4 hours	Do not apply more than 3 applications of Affirm per season.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth. Start applications of Milstop at the first sign of disease.
	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	2 - 4 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label. For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
	Pageant	pyraclostrobin + boscalid	7 + 11	2 - 4 oz/100 gal	12 hours	Use preventatively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
	Torque	tebuconazole	3	4 - 10 fl oz/100 gal	12 hours	Apply every 14 days for a total of three applications beginning at the first sign of disease.
	3336 EG	thiophanate-methyl	1	8 - 24 oz/100 gal	12 hours	Apply as buds break or at first sign of disease. Repeat at 7 - 14 day intervals as needed during disease period.
	3336 F	thiophanate-methyl	1	12 - 16 fl oz/100 gal	12 hours	Do not apply to home orchards/fruit trees after fruit set.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Anthracnose (See individual labels) (cont.)	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
	Bayleton 50 and Bayleton FLO	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
	Compass O 50WDG	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	Use preventatively, phenylpyrroles, or phenylamides.
	Strike Plus 50 WDG	trifloxystrobin + triadimefon	11 + 3	4.8 - 9 oz/100 gal	12 hours	Apply as a full coverage spray to the point of drip. Repeat at 14 - 28 day intervals.
Aschochyta blights	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Mancozeb DG Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
Azalea Cercospora leaf spot	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
Banana Sigatoka	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Black Knot	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
Black spot (<i>Diplocarpon</i> spp.)	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Mancozeb DG Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	5 - 8 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
Torque	tebuconazole	3	4 - 10 fl oz/100 gal	12 hours	Apply every 14 days for a total of three applications beginning at the first sign of disease.	
3336 EG and 3336 WP	thiophanate-methyl	1	8 - 16 oz/100 gal	12 hours		
(continued)	3336 F	thiophanate-methyl	1	12 - 24 oz/100 gal	12 hours	

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Black spot (<i>Diplocarpon</i> spp.) (cont.)	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
	Compass	trifloxystrobin	11	0.5 - 4 oz/100 gal	12 hours	Use preventatively.
	Strike Plus 50 WDG	trifloxystrobin + triadimefon	11 + 3	3 - 9 oz/100 gal	12 hours	Apply as a full coverage spray to the point of drip. Repeat at 14 - 28 day intervals.
Blossom blight (<i>Monillinia</i> spp.)	26019 N/G	iprodione	2	1 - 2.5 lb/100 gal		Rate depends on application method. See label.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
	Pageant	pyraclostrobin + boscalid	7 + 11	4 - 18 oz/100 gal	12 hours	Use preventatively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
	26/36	thiophanate-methyl + iprodione	1 + 2	17 - 34 fl oz/100 gal	12 hours	Do not use as a drench on impatiens, petunias, or pothos.
	Compass	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	Use preventatively.
Botryosphaeria dieback	Protect DF	mancozeb	M3	2 - 4 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
Botrytis (<i>Botrytis</i> spp.)	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
<i>Botrytis (Botrytis spp.) (cont.)</i>	Medallion and Medallion WDG	fludioxonil	12	2 - 4 oz/100 gal (foliar spray)	12 hours	See Medallion labels for specific instructions on growing media mix and medium drench.
	26019 FLO	iprodione	2	1 - 2.5 qt/100 gal	12 hours	
	26 GT	iprodione	2	2.5 qt/100 gal	12 hours	Do not use as a drench on impatiens or pothos.
	26019 N/G	iprodione	2	1 - 2.5 lb/100 gal	12 hours	Rate depends on application method. See label.
	Mancozeb DG and Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	Affirm WDG	polyoxin D zinc salts	19	0.5 lb/100 gal	4 hours	Do not apply more than 3 applications of Affirm per season.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth. Start applications of Milstop at the first sign of disease.
	Pageant TR	pyraclostrobin + boscalid	7 + 11	1 - 2 cans/sq ft	12 hours	Apply when foliage is dry and temperature is between 60 - 80°F.
	26/36	thiophanate-methyl + iprodione	1 + 2	17 - 34 fl oz/100 gal	12 hours	Do not use as a drench on impatiens, petunias, or pothos.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Botrytis (<i>Botrytis</i> spp.) (cont.)	Compass	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	Use preventatively.
	Terraguard SC	triflumizole	3	2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	For optimum disease control, applications should be made prior to, or at the first sign of disease.
Brown rot/blight (<i>Monilinia</i> , <i>Sclerotinia</i> , <i>Whetzellinia</i>)	3336EG and 3336WP and	thiophanate-methyl	1	12 - 16 oz/100 gal	12 hours	
	3338 F	thiophanate-methyl	1	8 - 16 fl oz/ 100 gal	12 hours	
Buckeye leaf blotch	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
Bulb rot/mold (<i>Fusarium</i> spp. <i>Penicillium</i> spp.)	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
Carnation rust	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leaved out, or at the first sign of disease at 7 - 10 day intervals.
Cephalosporium leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Mancozeb DG and Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leaved out, or at the first sign of disease at 7 - 10 day intervals.
	Bayleton 50 Bayleton FLO	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
Cercospora leaf spot (<i>Cercospora</i> spp.)	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Cercospora leaf spot (<i>Cercospora</i> spp.) (cont.)	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	26 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
	Medallion	fludioxonil	12	1 - 4 oz/100 gal (foliar spray)	12 hours	See Medallion labels for specific instructions on growing media mix and medium drench.
	Medallion WDG	fludioxonil	12	1 - 4 oz/100 gal	12 hours	See Medallion labels for specific instructions on growing media mix and medium drench.
	Mancozeb DG and Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	Eagle 20EW	myclobutanil	3	6 - 12 oz/fl oz/ 50 - 100 gal	24 hours	See label for complete instructions regarding rates. Apply at 10 - 14 day application schedule unless directed otherwise.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth. Start applications of Milstop at the first sign of disease.
	Banner Maxx	propiconazole	3	2 - 24 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	2 - 24 fl oz/100 gal	24 hours	For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2fl oz/ 100 gal	12 hours	Use preventatively.
	TwoSome	boscalid thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Cercospora leaf spot (<i>Cercospora</i> spp.) (cont.)	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	Eagle 20EW	myclobutanil	3	6 - 12 oz/fl oz/ 50 - 100 gal	24 hours	See label for complete instructions regarding rates. Apply at 10 - 14 day application schedule unless directed otherwise.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth. Start applications of Milstop at the first sign of disease.
	Banner Maxx	propiconazole	3	2 - 24 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	2 - 24 fl oz/100 gal	24 hours	For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/ 100 gal	12 hours	Use preventatively.
	Pageant TR	pyraclostrobin + boscalid	7 + 11	1 - 2 cans/sq ft	12 hours	Apply when foliage is dry and temperature is between 60 - 80°F.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
	Bayleton 50	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
Bayleton FLO	triadimefon	6	5.5 oz/275 - 550 gal	12 hours	Except as noted for specific diseases, mix 5.5 fl oz of BAYLETON FLO Turf and Ornamental Fungicide in 275 to 550 gal of water and apply as a full coverage foliage spray to the point of drip as needed.	
Cercosporidium leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Chrysanthemum septoria leaf spot	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
Cladosporium leaf spot (<i>Cladosporium</i> spp.)	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Banner Maxx	propiconazole	3	8 - 12 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	8 - 12 fl oz/100 gal	24 hours	For general landscape use, apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
<i>Coccomyces hiemales</i>	Banner Maxx II	propiconazole	3	2 - 4 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	2 - 4 fl oz/100 gal	24 hours	For general landscape use, apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
	Concert II	chlorothalonil + propiconazole	M5 + 3	9 - 17 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
Corynespora stem/leaf spots	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
Coryneum blight (shothole)	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Cotoneaster scab	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
<i>Cristularia</i> spp.	Banner Maxx II	propiconazole	3	8 - 12 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	8 - 12 fl oz/100 gal	24 hours	For general landscape use, apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
Crown/basal rot (<i>Cylindrocladium</i> spp., <i>Fusarium</i> spp., <i>Rhizoctonia solani</i> , <i>Sclerotinia</i> spp.)	Pageant	pyraclostrobin + boscalid	7 + 11	12 - 18 oz/100 gal	12 hours	Use preventatively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
Crown/basal rot (<i>Fusarium</i> spp., <i>Phytophthora</i> spp., <i>Pythium</i> spp., <i>Rhizoctonia solani</i>)	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
Curvularia leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Affirm WDG	polyoxin D zinc salts	19	0.25 - 0.5 lb/acre	4 hours	Do not apply more than 3 applications of Affirm per season.
Cylindrocladium blight and wilt (<i>Cylindrocladium scoparium</i>)	26 GT	iprodione	2	1qt/100 gal	12 hours	Do not use as a drench on impatiens or pothos.
<i>(continued)</i>						

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Cylindrocladium blight and wilt (<i>Cylindrocladium scoparium</i>) (cont.)	26019 FLO	iprodione	2	1qt/100 gal	12 hours	Rate depends on application method. See label.
	26019 N/G	iprodione	2	See label.	12 hours	Rate depends on application method. See label.
	26/36	thiophanate-methyl + iprodione	1 + 2	33 - 84 fl oz/100 gal	12 hours	Do not use as a drench on impatiens, petunias, or pothos.
Cylindrocladium leaf blight	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
	Medallion and Medallion WDG	fludioxonil	12	2 - 4 oz/100 gal (foliar spray)	12 hours	See Medallion labels for specific instructions on growing media mix and medium drench.
	Mancozeb DG and Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Pageant TR	pyraclostrobin + boscalid	7 + 11	1 - 2 cans/sq ft	12 hours	Apply when foliage is dry and temperature is between 60 - 80°F.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	Mix 17 to 34 fl. oz. of this product with 100 gallons of water.
	Compass	trifloxystrobin	11	1 - 4 oz/100 gal	12 hours	Use preventatively.
	Terraguard SC	triflumizole	3	2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	For optimum disease control, applications should be made prior to, or at the first sign of disease.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Cylindrocladium leaf blight (<i>cont.</i>)	Terraguard SC	triflumizole	3	2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	For optimum disease control, applications should be made prior to, or at the first sign of disease.
Dactylaria leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Mancozeb DG and Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
Daffodil leaf scorch (<i>Stagnospora curtissi</i>)	26019	iprodione	2	1 - 6.5 lb/acre	12 hours	Rate depends on application method. See label.
Didymellina leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Didymellina leaf spot (<i>cont.</i>)	Bayleton 50	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
	Bayleton 50	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
	Bayleton FLO	triadimefon	6	5.5 oz/275 - 550 gal	12 hours	
Diplodia tip blight	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
Discosia leaf spot/petal blight	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
<i>Discula</i> spp. (Anthracnose)	Concert II	chlorothalonil + propiconazole	M5 + 3	9 - 17 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Banner Maxx II	propiconazole	3	2 - 4 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	2 - 4 fl oz/100 gal	24 hours	For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
Dogwood anthracnose	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or (1/2 tablespoon/gal)	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here .
Drechslera leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	Rate depends on crop and disease. See label.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	Rate depends on crop and disease. See label.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
<i>Drechslera</i> spp. (Ink spot)	26019 N/G	iprodione	2	See label.	12 hours	Rate depends on crop and disease. See label.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Elm black leaf spot	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
Entomosporium leaf spot	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Mancozeb DG Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	
	Eagle 20EW	myclobutanil	3	8 fl oz/50 - 100 gal	24 hours	See label for complete instructions regarding rates. Apply at 10 - 14 day application schedule unless directed otherwise.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
	Bayleton 50	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
	Bayleton FLO	triadimefon	6	5.5 oz/275 - 550 gal	12 hours	
Entomosporium leaf spot (<i>Fabraea</i> spp.)	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Entomosporium leaf spot (<i>Fabraea</i> spp.) (cont.)	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Banner Maxx II	propiconazole	3	5 - 8 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	5 - 8 fl oz/100 gal	24 hours	For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
Exerohilum	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
Exobasidium blights/flower blights	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
	Bayleton 50	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
	Bayleton FLO	triadimefon	6	5.5 oz/275 - 550 gal	12 hours	
	Strike Plus 50 WDG	trifloxystrobin + triadimefon	11 + 3	2.4 oz/100 gal	12 hours	Apply as a full coverage spray to the point of drip. Repeat at 14 - 28 day intervals.
Flower blight (<i>Ovulinia</i> spp., <i>Sclerotinia</i> spp.)	Bayleton 50	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	
	Bayleton FLO	triadimefon	6	5.5 oz/275 - 550 gal	12 hours	
Fusarium blight/stem rot (<i>Fusarium</i> spp.)	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
Fusarium corm rot (<i>Fusarium oxysporum</i>)	26019 FLO	iprodione	2	2 qt/100 gal	12 hours	Rate depends on crop and disease. See label.
	26019 N/G	iprodione	2	See label.	12 hours	Rate depends on crop and disease. See label.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Fusarium corm rot (<i>Fusarium oxysporum</i>) (cont.)	26/36	thiophanate-methyl + iprodione	1 + 2	13.5 fl oz/100 gal drench rate	12 hours	Do not use as a drench on impatiens, petunias, or pothos.
	26 GT	iprodione	2	2 qt/100 gal	12 hours	Do not use as a drench on impatiens or pothos.
Fusarium leaf spot (<i>Fusarium</i> spp.)	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	26019 FLO	iprodione	2	1 - 2 gt/100 gal lb/acre	12 hours	Rate depends on application method. See label.
	26 GT	iprodione	2	1 - 3 fl oz	12 hours	
	26019 N/G	iprodione	2	See label.	12 hours	Rate depends on application method. See label.
	Mancozeb DG and Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	26/36	thiophanate-methyl + iprodione	1 + 2	17 - 34 fl oz/100 gal	12 hours	Do not use as a drench on impatiens, petunias, or pothos.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
Fusarium leaf spot (<i>Gibberella</i> spp.)	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	Rate depends on application method. See label.
Gloeosporium black leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	Rate depends on application method. See label.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	Rate depends on application method. See label.
	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
<i>Gnomonia leptostyla</i> (Anthracnose)	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Banner Maxx II	propiconazole	3	8 - 12 fl oz/100 gal	24 hours	Rate depends on application method. See label.
	ProPensity 1.3ME	propiconazole	3	2 - 24 fl oz/100 gal	33 hours	For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
Guignardia leaf blotch	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
<i>Helminthosporium</i> leaf spot (<i>Helminthosporium</i> spp./ <i>Bipolaris</i> spp.)	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	26019 FLO	iprodione	2	1 - 2.5 qt/100 gal lb/acre	12 hours	Rate depends on application method. See label.
	26 GT	iprodione	2	1 - 2.5 qt/100 gal lb/acre	12 hours	Do not use as a drench on impatiens or pothos.
	26019 N/G	iprodione	2	See label.	12 hours	Rate depends on application method. See label.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth. Start applications of Milstop at the first sign of disease.
	26/36	thiophanate-methyl + iprodione	1 + 2	33 - 84 fl oz/100 gal	12 hours	Do not use as a drench on impatiens, petunias, or pothos.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
Herpobasidium leaf blight	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Herpobasidium leaf blight (cont.)	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
<i>Heterosporium echinulatum</i>	Banner Maxx II	propiconazole	3	5 - 8 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	5 - 8 fl oz/100 gal	24 hours	For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
Holly purple spot	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
Kabatina dieback/leaf spots	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
Larkspur rust	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
Leaf blister/plum pockets	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur. See label for full instructions as leaf discoloration may occur on some species.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
<i>Leptosphaeria</i> spp.	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Lilac bacteria blight	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
Marssonina leaf spot	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
Monilinia blossom blight	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	9 - 17 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Banner Maxx II	propiconazole	3	2 - 24 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	2 - 24 fl oz/100 gal	24 hours	For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
Mycosphaerella leaf spot	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
	Banner Maxx II	propiconazole	3	8 - 24 fl oz/100 gal	24 hours	Rate depends on Mycosphaerella spp.
	ProPensity 1.3ME	propiconazole	3	8 - 24 fl oz/100 gal	24 hours	Rate depends on Mycosphaerella spp.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Mycosphaerella ray blight	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	See label for specific precautions regarding REI.
Myrothecium leaf spot/blight (<i>Myrothecium</i> spp.)	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
	Medallion	fludioxonil	12	1 - 4 oz/100 gal (foliar spray)	12 hours	See Medallion labels for specific instructions on growing media mix and medium drench.
	Medallion WDG	fludioxonil	12	1 - 4 oz/100 gal	12 hours	
	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
	Compass	trifloxystrobin	11	1 - 2 oz/100 gal	12 hours	Use preventatively.
Narcissus botrytis blight (fire)	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
Nematostoma leaf blight	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
Ovulinia blight (<i>Ovulinia</i> spp.)	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Ovulinia blight (<i>Ovulinia</i> spp.) (cont.)	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	Eagle 20EW	myclobutanil	3	8 fl oz/100 gal	24 hours	See label for complete instructions regarding rates. Apply at 10 - 14 day application schedule unless directed otherwise.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	5 - 8 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	3336 EG	thiophanate-methyl	1	12 - 16 oz/100 gal	12 hours	
	3336 F	thiophanate-methyl	1	8 - 16 fl oz/100 gal	12 hours	
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
Pestalotia	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
Petiole rot (<i>Myrothecium roridum</i>)	Terraguard SC	triflumizole	3	2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	For optimum disease control, applications should be made prior to, or at the first sign of disease.
Phoma basal rot (<i>Phoma exigua</i>)	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
Phomopsis blight	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	
	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
Phyllosticta leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Phyllosticta leaf spot (<i>cont.</i>)	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
Powdery mildew	Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.
	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Palladium	cyprodinil + fludioxonil	9 + 12	4 - 6 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	Eagle 20EW	myclobutanil	3	1.2 fl oz//50 - 100 gal	24 hours	See label for complete instructions regarding rates. Apply at 10 - 14 day application schedule unless directed otherwise.
	Affirm WDG	polyoxin D zinc salts	19	0.25 - 0.5 lb/acre	4 hours	Do not apply more than 3 applications of Affirm per season.
	Kaligreen	potassium bicarbonate	NC	1 - 3 lbs/100 gal	4 hours	Use the higher rate when disease pressure is severe.
	Milstop	potassium bicarbonate	NC	See label.	1 hour	Do not use on pansy at early stages of growth.
	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	5 - 12 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
Insignia SC Intrensic	pyraclostrobin	11	6.1 - 12.2 fl oz/100 gal	12 hours	Use preventatively.	
Pageant	pyraclostrobin + boscalid	7 + 11	4 - 18 oz/100 gal	12 hours	Use preventatively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.	

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Powdery mildew (<i>cont.</i>)	Torque	tebuconazole	3	4 - 10 fl oz/100 gal	12 hours	Apply every 14 days for a total of three applications beginning at the first sign of disease.
	3336 EG and 3336 WP	thiophanate-methyl	1	12 - 24 oz/100 gal	12 hours	
	3336 F	thiophanate-methyl	1	12 - 24 oz/100 gal	12 hours	
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
	Bayleton 50 and Bayleton FLO	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
	Compass	trifloxystrobin	11	1.6 - 4 oz/100 gal	12 hours	Use preventatively.
	Strike Plus 50 WDG	trifloxystrobin + triadimefon	11 + 3	1.2 - 2.4 oz/100 gal	12 hours	Apply as a full coverage spray to the point of drip. Repeat at 14 - 28 day intervals.
	Terraguard SC	triflumizole	3	2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	For optimum disease control, applications should be made prior to, or at the first sign of disease.
Pyracantha fireblight	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	
Ramularia leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Mancozeb DG Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals. See label.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	Insignia SC Intrensic	pyraclostrobin	11	3 - 6.1 fl oz/100 gal	12 hours	Use preventatively.
		TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours
Ray blight Didymella (Cercospora)	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Ray blight <i>Didymella</i> (<i>Ascochyta</i>) (cont.)	26019 N/G	iprodione	2	1 - 2.5 lb/100 gal	12 hours	
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	Banner Maxx II	propiconazole	3	8 - 12 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	ProPensity 1.3ME	propiconazole	3	8 - 12 fl oz/100 gal	24 hours	For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease.
	26/36	thiophanate-methyl + iprodione	1 + 2	33 - 84 fl oz/100 gal	12 hours	Do not use as a drench on impatiens, petunias, or pothos.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
Rhabdocline	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
Rhytisma	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
Rust (see specific labels)	Concert II	chlorothalonil + propiconazole	M5 + 3	9 - 69 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Prostar 70 WP	flutolanil	7	3 - 6 oz/100 gal	12 hours	Observe for phytotoxicity prior to each application of Prostar and 2 weeks after final application.
	Mancozeb DG Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Eagle 20EW	myclobutanil	3	8 fl oz/100 gal	24 hours	See label for complete instructions regarding rates.
	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	2 - 16 fl oz/100 gal	24 hours	Rate depends on the rust species. See label.
	Insignia SC Intrensic	pyraclostrobin	11	3 - 6.1 fl oz/100 gal	12 hours	Use preventatively.
	Pageant	pyraclostrobin + boscalid	7 + 11	6 - 12 oz/100 gal	12 hours	Use preventatively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
	Torque	tebuconazole	3	4 - 10 fl oz/100 gal	12 hours	Apply every 14 days for a total of three applications beginning at the first sign of disease.
	3336 EG 3336 WP	thiophanate-methyl	1	12 - 16 oz/100 gal	12 hours	
	(continued)	3336 F	thiophanate-methyl	1	12 - 16 oz/100 gal	12 hours

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Rust (see specific labels) (cont.)	Eagle 20EW	myclobutanil	3	8 fl oz/100 gal	24 hours	See label for complete instructions regarding rates.
	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	2 - 16 fl oz/100 gal	24 hours	Rate depends on the rust species. See label.
	Insignia SC Intrensic	pyraclostrobin	11	3 - 6.1 fl oz/100 gal	12 hours	Use preventatively.
	Pageant	pyraclostrobin + boscalid	7 + 11	6 - 12 oz/100 gal	12 hours	Use preventatively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
	Torque	tebuconazole	3	4 - 10 fl oz/100 gal	12 hours	Apply every 14 days for a total of three applications beginning at the first sign of disease.
	3336 EG 3336 WP	thiophanate-methyl	1	12 - 16 oz/100 gal	12 hours	
	3336 F	thiophanate-methyl	1	12 - 16 oz/100 gal	12 hours	
	Bayleton 50	triadimefon	3	5.5 oz/275 - 550 gal	12 hours	Do not use on edible portions of plants.
	Bayleton FLO	triadimefon	6	5.5 oz/275 - 550 gal	12 hours	
	Compass	trifloxystrobin	11	2 - 4 oz/100 gal	12 hours	Use preventatively.
	Strike Plus 50 WDG	trifloxystrobin + triadimefon	11 + 3	1.2 - 2.4 oz/100 gal	12 hours	Apply as a full coverage spray to the point of drip.Repeat at 14 - 28 day intervals.
	Terraguard SC	triflumizole	3	2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	For optimum disease control, applications should be made prior to, or at the first sign of disease.
Scab (See specific labels)	Heritage	azoxystobin	11	4 oz/100 gal	4 hours	See label for specific rates. May cause phytotoxicity on apples or crabapples.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.

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ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Scab (See specific labels) (cont.)	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	Affirm WDG	polyoxin D zinc salts	19	0.5 oz ai/acre	4 hours	Do not apply more than 3 applications of Affirm per season.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	2 - 4 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	Insignia SC Intrensic	pyraclostrobin	11	3 - 6.1 fl oz/100 gal	12 hours	Use preventatively.
	Pageant	pyraclostrobin + boscalid	7 + 11	6 - 12 oz/100 gal	12 hours	Use preventatively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development.
	Torque	tebuconazole	3	4 - 10 fl oz/100 gal	12 hours	Apply every 14 days for a total of three applications beginning at the first sign of disease.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	Mix 17 to 34 fl. oz. of this product with 100 gallons of water.
	Compass	trifloxystrobin	11	2 - 4 oz/100 gal	12 hours	Use preventatively.
	Terraguard SC	triflumizole	3	4 - 8 fl oz/100 gal (1/4 - 1 tsp/gal)	12 hours	For optimum disease control, applications should be made prior to, or at the first sign of disease.
Sclerotinia blight/stem rot (<i>Sclerotinia</i> spp.)	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	May be used as a foliar, root dip, or soil drench application. See label for rates.
Septoria leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal		Begin application at first evidence of disease activity. See label for specific precautions regarding REI.

(continued)

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Septoria leaf spot (<i>cont.</i>)	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	22 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.
	Palladium	cyprodinil + fludioxonil	9 + 12	2 - 4 oz/100 gal	12 hours	
	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	To improve performance, add 2 - 4 oz. of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray.
	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
	MilStop	potassium bicarbonate	NC	2.5 lb/100 gal	1 hour	Do not use on pansy at early stages of growth.
	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	8 - 12 fl oz/100 gal	24 hours	Rate depends on crop and disease. See label.
	Insignia SC Intrensic	pyraclostrobin	11	3 - 6.1 fl oz/100 gal	12 hours	Use preventatively.
	TwoSome	thiophanate-methyl + iprodione	1 + 2	See label	12 hours	
Sphaeropsis leaf spot	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals.
Spilocaea pyracantha (Scab)	Banner Maxx II and ProPensity 1.3ME	propiconazole	3	5 - 8 fl oz/100 gal	24 hours	See label for specific precautions regarding REI.
	Concert II	chlorothalonil + propiconazole	M5 + 3	26 - 35 fl oz/100 gal	12 hours	Do not use Concert II in greenhouses. Apply every 21 days.

ORNAMENTAL DISEASES (Commercial) – continued

Disease	Product	Active Ingredient	FRAC Code*	Rate	Re-entry Interval	Comments
Stagonospora leaf scorch	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Palladium	cyprodinil + fludioxonil	9 + 12	4 - 6 oz/100 gal	12 hours	Foliar applications or excessive run-off of Palladium may cause stunting or chlorosis to geranium at higher rates.
Stigmata shothole	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
Taphrina leaf blister	Mancozeb DG	mancozeb	M3	1 - 2 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7-10 day intervals.
Tulip Fire (<i>Botrytis tulipae</i>)	26019 N/G	iprodione	2	1 - 2.5 lb/100 gal	12 hours	Rate depends on application method. See label.
	Mancozeb DG	mancozeb	M3	1.5 lb/100 gal	24 hours	Begin spraying when plants are well leafed out, or at the first sign of disease at 7-10 day intervals.
Viburnum downy mildew	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.
Volutella leaf blight/canker	Daconil Ultrex	chlorothalonil	M5	1.4 lbs/100 gal	12 hours	Begin application at first evidence of disease activity. See label for specific precautions regarding REI.
	Pegasus 6L	chlorothalonil	M5	1 3/8 pt/100 gal	12 hours	See label for specific precautions regarding REI.
	Pegasus DFX	chlorothalonil	M5	1.25 lb/100 gal	12 hours	See label for specific precautions regarding REI.
	Protect DF	mancozeb	M3	1 - 2 lb/100 gal	24 hours	
Willow Tar Spot, leaf blight, Scab, Black Canker, Spot Anthracnose	Junction	mancozeb + copper hydroxide	M3 + M1	1.5 lb/100 gal or 1/2 tablespoon/gal	24 hours	Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur.
	Junction WSP	mancozeb + copper hydroxide	M3 + M1	2.5 lb/100 gal	48 hours	See label for complete instruction on rates as some crops require a smaller rate than listed here.