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Managing Plant Diseases in the Home Garden

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Managing Plant Diseases

in the Home Garden

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Plant diseases can have a serious impact on production in our home gardens. Each year plants are defoliated or killed by diseases. These diseases limit the productivity of the plant and the enjoyment that the homeowners may derive from the garden. Diseases in the home garden can be managed through a number of simple and reliable strategies:

1. Plant well-adapted resistant varieties.
2. Plant only disease-free transplants.
3. Rotate the planting areas in the garden so that closely related vegetables are not grown on the same site year after year.
4. Control weeds.
5. Control insects that may carry disease.
6. Practice good sanitation by removing and destroying diseased plants and parts and cleaning up and destroying refuse soon after harvest.
7. Plant unrelated crops together.
8. Disinfect garden tools and shears.
9. Treat seed with a fungicide.
10. Watch the garden for early indications of diseases and begin treatments promptly.

The most effective disease management programs implement elements of all of the above strategies in an integrated approach. Several products are available that meet organic standards. Those products are labeled with a ♻ symbol. Organic products often are less persistent on the leaf surface and may require more frequent application and greater attention to the intergrated cultural methods described above. The following pages include a compilation of diseases common in the home garden and fungicides for the home garden available from South Dakota retailers. These products may be available from garden centers, discount stores, or other locations where you purchase your gardening supplies. Other products with the same active ingredients may be available in commercial packaging, but are generally very expensive and packaged in large quantities. In some cases, such as windbreaks and other large plantings, commercially packaged products may be more economical. Always check the label to see that it lists the plants that you wish to apply the product to, since similar products can have the same active ingredient but may have other ingredients that can cause plant injury.

Contact your local County Extension Educator for more information on how to manage diseases and other pests in your garden.

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College of Agriculture & Biological Sciences • Cooperative Extension Service • U.S. Department of Agriculture

TABLES

1. Fungicides labeled for vegetable disease control in home gardens	3
2. Fungicides labeled for tree fruit and small fruit disease control in home gardens	9
3. Fungicides labeled for ornamental disease control in home gardens	15
4. Amount of spray needed to cover trees of various sizes	32
5. Spray schedule for apples and pears (fruit bearing)	32

Useful Information

FS 910 White Mold of Vegetables and Ornamentals in the Home Garden.

FS 916 Fire blight of apples, pears, and other species.

FS 936 Black Knot of Stone Fruits.

FS 939 Apple Scab: A Disease of Apple and Crabapple.

Home Remedy for Powdery Mildew

This is the home version of 'Remedy' fungicide. 'Remedy' is potassium bicarbonate based, while this mixture is sodium bicarbonate based. The sodium version is not quite as effective as the potassium product.

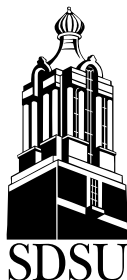
Sodium bicarbonate homemade fungicide recipe:

1 ½ teaspoons of baking soda

1 teaspoon of vegetable oil

1 gallon of water

Shake to mix thoroughly. Spray on plants to runoff. Reapply on a short (frequent) interval of 5–10 days. Use a shorter interval during rainy weather.



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TABLE 1: FUNGICIDES LABELED FOR VEGETABLE DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Asparagus	Rust and Cercospora	mancozeb			
		Bonide Mancozeb Flowable with Zinc Concentrate	Apply only after harvest	4 tsp	
Bean	Rust	chlorothalonil			
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	7 days PHI	2¾ tsp	
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	7 days PHI	spray to runoff	
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	7 days PHI	see product label [†]	
		Ortho Max Garden Disease Control Concentrate	7 days PHI	2¾ tsp	
		myclobutanil			
		Sprectracide Immunox Multi-Purpose Fungicide Spray Concentrate	None	1¼ fl oz	
		neem oil* 🌿			
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff	
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff	
		Ferti-lome Rose, Flower & Vegetable Spray	None	2	
		Ferti-lome Triple Action Plus (neem oil)	None	2	
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, & Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2	
		Schultz Garden Safe Fungicide 3	None	spray to runoff	
		Schultz Garden Safe Fungicide 3 Concentrate	None	2	
		sulfur 🌿			
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^b	
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label ^{†,b}	
		Bonide Sulfur Plant Fungicide Ready to Use	None	1½ – 3 ^b	
Ferti-lome Dusting Sulfur	None	4 ^b			
Hi-Yield Dusting Wettable Sulfur	None	4 ^b			
Carrot	Leaf blight	chlorothalonil			
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	None	2 tsp	
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	7 days PHI	spray to runoff	
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	7 days PHI	see product label [†]	
		Ortho Max Garden Disease Control Concentrate	None	2 tsp	
		copper			
		Bonide Liquid Copper Fungicide	None	1 – 4	
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant surfaces thoroughly	
Natural Guard Copper Soap Liquid Fungicide	None	1 – 4			

TABLE 1: FUNGICIDES LABELED FOR VEGETABLE DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations ^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Corn (Sweet corn and popcorn)	Rust	chlorothalonil		
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	14 days PHI	2 tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	7 days PHI	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	14 days PHI	see product label [†]
		Ortho Max Garden Disease Control Concentrate	14 days PHI	1 3/4 tsp
		neem oil* 🌿		
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3 Concentrate	None	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	None	2
		propiconazole (Sweet Corn only)		
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	14 days PHI	see product label [†]
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	14 days PHI	see product label [†]
		Ferti-lome Liquid Systemic Fungicide	None	2
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	14 days PHI	4 tsp
		sulfur (Sweet Corn only)		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^b
Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label ^{†,b}		
	Rust and leaf blight	chlorothalonil		
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	14 days PHI	2 tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	7 days PHI	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	14 days PHI	see product label [†]
		Ortho Max Garden Disease Control Concentrate	14 days PHI	1 3/4 tsp
		mancozeb		
		Bonide Mancozeb Flowable with Zinc Concentrate	7 days PHI	3 tsp
		propiconazole (Sweet Corn only)		
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	14 days PHI	see product label [†]
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	14 days PHI	see product label [†]

TABLE 1: FUNGICIDES LABELED FOR VEGETABLE DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Crucifers (Broccoli, Brussels sprouts, cabbage cauliflower)	Downy mildew, Leaf spot	chlorothalonil		
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	7 days PHI	2 tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	7 days PHI	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	7 days PHI	see product label †
		Ortho Max Garden Disease Control Concentrate	None	1½ tsp
		copper 🌿		
		Bonide Copper Dust Ready To Use	None	4½ – 6½
		Bonide Dragoon Dust with Copper	3 days PHI	see product label †
		Bonide Garden Dust Ready To Use	None	see product label †
		Bonide Liquid Copper Fungicide Concentrate	None	4 tsp
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		neem oil* 🌿		
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff		
Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2		
Schultz Garden Safe Fungicide 3	None	spray to runoff		
Schultz Garden Safe Fungicide 3 Concentrate	None	2		
Cucurbits (Cucumber, melon, squash, pumpkin)	Angular leaf spot	copper 🌿		
		Bonide Copper Dust Ready To Use	None	4½ – 11½
		Bonide Dragoon Dust with Copper	3 days PHI	see product label †
		Bonide Garden Dust Ready To Use	None	see product label †
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4 tsp
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Dexol Bordeaux Powder	None	7 – 9
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		chlorothalonil		
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	None	¾
	Bonide Fung-onil Multi-Purpose Fungicide Ready To Use	7 days PHI	spray to runoff	
	Ferti-lome Broad Spectrum Landscape & Garden Fungicide	None	see product label †	
	Ortho Max Garden Disease Control Concentrate	None	2 tsp	
	Anthracnose			

TABLE 1: FUNGICIDES LABELED FOR VEGETABLE DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations ^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Cucurbits (Cucumber, melon, squash, pumpkin) CONTINUED	Anthracnose CONTINUED	copper ☼		
		Bonide Copper Dust Ready To Use	None	4½ – 11½
		Bonide Dragoon Dust with Copper	3 days PHI	see product label †
		Bonide Garden Dust	None	see product label †
		Bonide Liquid Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		mancozeb		
		Bonide Mancozeb Flowable with Zinc Concentrate	5 days PHI	4 – 5 tsp
		maneb		
		Hi-Yield Maneb Garden Fungicide	5 days PHI	1½
		neem oil* ☼		
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3	None	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	None	2
	Downy mildew	copper ☼		
		Bonide Copper Dust Ready To Use	None	4 ½ – 11 ½
		Bonide Dragoon Dust with Copper	3 days PHI	see product label †
		Bonide Garden Dust Ready To Use	None	see product label †
		Bonide Liquid Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Dexol Bordeaux Powder	None	7 – 9
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		chlorothalonil		
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	None	¾
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	7 days PHI	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	None	see product label †
		Ortho Max Garden Disease Control Concentrate	None	2 tsp
		mancozeb		
		Bonide Mancozeb Flowable with Zinc Concentrate	5 days PHI	4 – 5 tsp
		maneb		
		Hi-Yield Maneb Garden Fungicide	5 days PHI	1½

TABLE 1: FUNGICIDES LABELED FOR VEGETABLE DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Cucurbits (Cucumber, melon, squash, pumpkin) CONTINUED	Downy mildew CONTINUED	neem oil* 🌿			
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff	
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff	
		Ferti-lome Rose, Flower & Vegetable Spray	None	2	
		Ferti-lome Triple Action Plus (neem oil)	None	2	
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2	
		Schultz Garden Safe Fungicide 3	None	spray to runoff	
	Schultz Garden Safe Fungicide 3 Concentrate	None	2		
	Powdery mildew	chlorothalonil			
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	None	2¾ tsp	
		Bonide Fung-onil Multi-Purpose Fungicide Ready To Use	7 days PHI	spray to runoff	
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	None	see product label †	
		Ortho Max Garden Disease Control Concentrate	None	2¾ tsp	
		copper 🌿			
		Bonide Copper Dust Ready To Use	None	4½ – 11½	
		Bonide Dragoon Dust with Copper	3 days PHI	see product label †	
		Bonide Garden Dust Ready To Use	None	see product label †	
		Bonide Liquid Copper Fungicide Concentrate	None	1	
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant surfaces thoroughly	
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4	
		myclobutanil			
		Sprectracide Immunox Multi-Purpose Fungicide Concentrate	None	1¼ fl oz	
		neem oil* 🌿			
Bonide Rose Rx 3 in 1 RTU		None	spray to runoff		
Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff			
Ferti-lome Rose, Flower & Vegetable Spray	None	2			
Ferti-lome Triple Action Plus (neem oil)	None	2			
Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet			
Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2			
Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff			
Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff			
Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2			
Schultz Garden Safe Fungicide 3	None	spray to runoff			
Schultz Garden Safe Fungicide 3 Concentrate	None	2			
sulfur					
Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^b			
Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label †,b			

TABLE 1: FUNGICIDES LABELED FOR VEGETABLE DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (tablespoons / gallon of water, unless otherwise noted)
Onion	Downy mildew, Leaf blight, and Purple blotch	chlorothalonil		
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	14 days PHI - green 7 days PHI- dry	2 ¾ tsp (dry), 2 tsp (green)
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	14 days PHI-green 7 days PHI - dry	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	14 days PHI-green 7 days PHI - dry	see product label †
		Ortho Max Garden Disease Control Concentrate	None	2 ¾ tsp
		copper 🌿		
		Bonide Copper Dust Ready To Use	None	7½ – 10
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		mancozeb		
		Bonide Mancozeb Flowable with Zinc Concentrate	7 days PHI - dry Do not apply to green onions	5 tsp
		sulfur 🌿		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label † ^b
Ferti-lome Dusting Sulfur	None	4 ^b		
Hi-Yield Dusting Wettable Sulfur	None	4 ^b		
Pea	Powdery mildew	copper 🌿		
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		neem oil* 🌿		
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3	None	spray to runoff
Schultz Garden Safe Fungicide 3 Concentrate	None	2		

TABLE 1: FUNGICIDES LABELED FOR VEGETABLE DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Pea	Powdery mildew	sulfur ☼		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 days PHI	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 days PHI	see product label ^{†,b}
		Bonide Sulfur Plant Fungicide Ready To Use	None	1 ½ – 3 ^b
		Ferti-lome Dusting Sulfur	None	4 ^b
		Hi-Yield Dusting Wettable Sulfur	None	4 ^b
Potato	Leaf blights	chlorothalonil		
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	7 days PHI	1½ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	5 days PHI	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	7 days PHI	see product label [†]
		Ortho Max Garden Disease Control Concentrate	None	1½ tsp
		copper ☼		
		Bonide Copper Dust Ready To Use	None	4½ – 12
		Bonide Dragoon Dust with Copper	7 days PHI	see product label [†]
		Bonide Garden Dust Ready To Use	None	see product label [†]
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Dexol Bordeaux Powder	None	14
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
mancozeb				
Bonide Mancozeb Flowable with Zinc Concentrate	14 days PHI	2 – 4 tsp		
Rhubarb		No products labeled.		
Tomato	Leaf spots and blights	chlorothalonil		
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	None	2½ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	7 days PHI	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	None	see product label [†]
		Ortho Max Garden Disease Control Concentrate	None	2 ½ tsp
		copper ☼		
		Bonide Copper Dust Ready To Use	None	4½ – 12
		Bonide Dragoon Dust with Copper	3 days PHI	see product label [†]
		Bonide Garden Dust Ready To Use	None	see product label [†]
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Dexol Bordeaux Powder	None	14
		Hi-Yield Bordeaux Mix Fungicide	None	4 – 4½
Natural Guard Copper Soap Liquid Fungicide	None	1 – 4		

TABLE 1: FUNGICIDES LABELED FOR VEGETABLE DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (tablespoons / gallon of water, unless otherwise noted)
Tomato	Leaf spots and blights	neem oil* 🌿		
CONTINUED	CONTINUED	Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3	None	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	None	2
		mancozeb		
		Bonide Mancozeb Flowable with Zinc Concentrate	5 days PHI	3 – 5 tsp
		maneb		
		Hi-Yield Maneb Garden Fungicide	5 days PHI	1½
		sulfur		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label ^{†,b}
	Bacterial spot and speck	copper 🌿		
		Bonide Copper Dust Ready To Use	None	4½ – 12
		Bonide Dragoon Dust with Copper	3 days PHI	see product label [†]
		Bonide Garden Dust	None	see product label [†]
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant surfaces thoroughly
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4

^a Harvest limitations indicate the minimum number of days before harvest that the last application can be made. "None" indicates that application can be made up to harvest. Preharvest interval (PHI) is a required waiting period from the last application until harvest. Preharvest intervals are designed to minimize risk to the consumer.

^b Do not spray sulfur when temperatures are above 90°F or crop injury may occur.

* Efficacy unknown. Neem oil has variable efficacy against plant pathogens. Little data is available.

[†] Rates vary for specific situations.

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Note: Crabapples are listed under the ornamental section.	Fire Blight	copper 🌿			
		Hi-Yield AB Copper Fungicide	None	2 ² / ₃ – 5 ¹ / ₃ tsp	
		Bonide Liquid Copper Fungicide Concentrate	None	2	
		Natural Guard Copper Soap Liquid Fungicide	None	2	
	<i>Note: Prune and destroy affected branches before dormancy breaks. Removing infected branches is critical to effective control.</i>				
	Powdery mildew	copper 🌿			
		Bonide Copper Dust Ready To Use	None	1 – 1 ¹ / ₂	
		Bonide Garden Dust Ready To Use	None	see product label †	
		lime sulfur/calcium polysulfides 🌿			
		Bonide Lime Sulfur Spray	None	6.4 ^d	
		Hi-Yield Improved Lime Sulfur Spray	None	6.4 ^d	
		myclobutaniil			
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	14 days PHI	² / ₃ fl oz	
		neem oil* 🌿			
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff	
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff	
		Ferti-lome Rose, Flower & Vegetable Spray	None	2	
		Ferti-lome Triple Action Plus (neem oil)	None	2	
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2	
		Schultz Garden Safe Fungicide 3	None	spray to runoff	
		Schultz Garden Safe Fungicide 3 Concentrate	None	2	
		sulfur 🌿			
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^d	
Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray		1 day PHI	see product label †,d		
Bonide Sulfur Plant Fungicide Ready To Use	None	1 – 2 ¹ / ₂ ^d			
Ferti-lome Dusting Sulfur	None	see product label †,d			
Hi-Yield Dusting Wettable Sulfur	None	see product label †,d			
thiophanate-methyl					
Ferti-lome Halt Systemic Rose, Flower Lawn, Ornamental Fungicide	1 day PHI	1 ² / ₃ tsp			

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations ^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Apple CONTINUED	Scab	captan		
		Bonide Captan 50% WP Fruit & Ornamental	None	1/5
		Bonide A Complete Fruit Tree Spray Concentrate	None	see product label †
		Ferti-lome Liquid Fruit Tree Spray	7 days PHI	3 1/2
		Gordon's Liquid Fruit Tree Spray	14 days PHI	see product label †
		Hi-Yield Captan Fungicide 50% WP	None	2
		copper 🌿		
		Bonide Liquid Copper Fungicide Concentrate	None	2
		Dexol Bordeaux Powder	None	see product label †
		Hi-Yield Bordeaux Mix Fungicide	None	8 – 9
		Natural Guard Copper Soap Liquid Fungicide	None	2
		lime sulfur/calcium polysulfides 🌿		
		Bonide Lime Sulfur Spray	None	4 – 5 ^d
		Hi-Yield Improved Lime Sulfur Spray	None	4 – 5 ^d
		myclobutanil		
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	14 days PHI	2/3 fl oz
		neem oil* 🌿		
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3	None	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	None	2
		sulfur 🌿		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 fl oz ^d
Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label †,d		
Bonide Sulfur Plant Fungicide Ready To Use	None	1 – 2 1/2 ^d		
Ferti-lome Dusting Sulfur	None	see product label †,d		
Hi-Yield Dusting Wettable Sulfur	None	see product label †,d		

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Apple CONTINUED	Sooty blotch, Flyspeck	captan			
		Bonide Captan 50% WP Fruit & Ornamental	None	1/5	
		Bonide A Complete Fruit Tree Spray Concentrate	None	see product label †	
		Bonide Fruit Tree Spray- Wettable Powder	7 days PHI	10	
		Ferti-lome Liquid Fruit Tree Spray	7 days PHI	3 1/2	
		Gordon's Liquid Fruit Tree Spray	14 days PHI	see product label †	
		Hi-Yield Captan Fungicide 50% WP	None	2	
		copper 🌿			
		Bonide Liquid Copper Fungicide Concentrate	None	2	
		Dexol Bordeaux Powder	None	see product label †	
		Hi-Yield Bordeaux Mix Fungicide	None	8 – 9	
sulfur 🌿					
Bonide Sulfur Plant Fungicide Ready To Use	None	1 – 2 1/2 ^d			
Cherry, Plum	Black knot	lime sulfur/calcium polysulfides 🌿			
		Bonide Lime Sulfur Spray	None	16 ^c	
		Hi-Yield Improved Lime Sulfur Spray	None	16 ^c	
	Brown rot	captan			
		Bonide A Complete Fruit Tree Spray Concentrate	None	see product label †	
		Bonide Captan 50% WP Fruit & Ornamental	None	1 1/10	
		Ferti-lome Liquid Fruit Tree Spray	3 days PHI	1 3/4	
		Gordon's Liquid Fruit Tree Spray	14 days PHI	see product label †	
		chlorothalonil			
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	Don't apply after shuck split	3 3/4 tsp	
		Ortho Max Garden Disease Control Concentrate	None	see product label †	
		copper 🌿			
		Bonide Copper Dust Ready To Use	None	9 – 12	
		Bonide Garden Dust Ready To Use	None	see product label †	
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4	
		Dexol Bordeaux Powder	None	see product label †	
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4	
		lime sulfur/calcium polysulfides 🌿			
		Bonide Lime Sulfur Spray	None	see product label †,d	
		Hi-Yield Improved Lime Sulfur Spray	None	2 ^d	
		myclobutanil			
		Bonide Infuse Systemic Disease Control	None	2	
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	None	see product label †	
Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	None	see product label †			
Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	None	1/2 fl oz			

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Cherry, Plum CONTINUED	Brown rot CONTINUED	propiconazole			
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	None	see product label †	
		Bonide Infuse Systemic Disease Control	None	2	
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	None	see product label †	
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	None	see product label †	
		sulfur 🌿			
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^d	
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label †,d	
		Bonide Sulfur Plant Fungicide Ready To Use	None	1 – 3 ^d	
		Ferti-lome Dusting Sulfur	None	4 ^d	
		Hi-Yield Dusting Wettable Sulfur	None	4 ^d	
		Leaf spot	captan		
			Bonide A Complete Fruit Tree Spray Concentrate	Don't apply after shuck split	see product label †
			Bonide Captan 50% WP Fruit & Ornamental	None	1 1/10
	Ferti-lome Liquid Fruit Tree Spray		3 days PHI	1 3/4	
	Gordon's Liquid Fruit Tree Spray		14 days PHI	see product label †	
	chlorothalonil				
	Bonide Fung-onil Multi-Purpose Fungicide Concentrate		Don't apply after shuck split	3 3/4 tsp	
	Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use		Don't apply after shuck split	spray to runoff	
	Ferti-lome Broad Spectrum Landscape & Garden Fungicide		Don't apply after shuck split	see product label †	
	Ortho Max Garden Disease Control Concentrate		None	see product label †	
	copper 🌿				
	Bonide Copper Dust Ready To Use		None	9 – 12	
	Bonide Liquid Copper Fungicide Concentrate		None	1 – 4	
	Dexol Bordeaux Powder	None	see product label †		
	lime sulfur/calcium polysulfides 🌿				
	Bonide Lime Sulfur Spray	None	see product label †,d		
Bonide Oil and Lime Sulfur Spray Concentrate	None	see product label †,d			
Hi-Yield Improved Lime Sulfur Spray	None	see product label †,d			
neem oil* 🌿					
Bonide Rose Rx 3 in 1 RTU	None	spray to runoff			
Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff			
Ferti-lome Rose, Flower & Vegetable Spray	None	2			
Ferti-lome Triple Action Plus (neem oil)	None	2			
Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet			
Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2			
Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff			
Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff			
Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2			
Schultz Garden Safe Fungicide 3	None	spray to runoff			
Schultz Garden Safe Fungicide 3 Concentrate	None	2			

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Cherry, Plum CONTINUED	Leaf spot	propiconazole		
	CONTINUED	Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	None	see product label †
		Bonide Infuse Systemic Disease Control	None	2
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	None	see product label †
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	None	see product label †
		sulfur 🌿		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^d
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label †,d
		Bonide Sulfur Plant Fungicide Ready To Use	None	1 – 3 ^d
		Ferti-lome Dusting Sulfur Ready To Use	None	4 ^d
		Hi-Yield Dusting Wettable Sulfur	None	4 ^d
	Powdery mildew	lime sulfur/calcium polysulfides 🌿		
		Bonide Lime Sulfur Spray	None	see product label †,d
		Hi-Yield Improved Lime Sulfur Spray	None	see product label †,c,d
		myclobutaniil		
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	None	½ fl oz
		neem oil* 🌿		
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3	None	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	None	2
		propiconazole		
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	None	see product label †
		Bonide Infuse Systemic Disease Control	None	2
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	None	see product label †
		sulfur 🌿		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^d
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label †,d
		Bonide Sulfur Plant Fungicide Ready To Use	None	1 – 3 ^d
		thiophanate-methyl		
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	1 day PHI	1½ tsp

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations ^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Grapes	Powdery mildew	copper 🌿		
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Gordon's Bordeaux Mixture	None	6
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		Natural Guard Copper Soap Liquid Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		lime sulfur/calcium polysulfides 🌿		
		Bonide Lime Sulfur Spray	None	see product label ^{†,d}
		Hi-Yield Improved Lime Sulfur Spray	None	4 tsp ^d
		myclobutanil		
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	14 days PHI	1 ¼ fl oz
		neem oil* 🌿		
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3	None	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	None	2
		sulfur 🌿		
Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^d		
Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label ^{†,d}		
Bonide Sulfur Plant Fungicide Ready To Use	None	1 – 3 ^d		
	Dead arm, Downy mildew	captan		
		Bonide A Complete Fruit Tree Spray Concentrate	None	see product label [†]
		Bonide Captan 50% WP Fruit & Ornamental	None	see product label [†]
		Gordon's Liquid Fruit Tree Spray	14 days PHI	see product label [†]
		Hi-Yield Captan Fungicide 50% WP	None	2
		copper 🌿		
		Bonide Copper Dust Ready To Use	None	4
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4
		Bonide Liquid Copper Fungicide Ready To Use	None	spray all plant sur- faces thoroughly
		Dexol Bordeaux Powder	None	see product label [†]
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		Natural Guard Copper Soap Liquid Fungicide Ready To Use	None	spray all plant sur- faces thoroughly

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Grapes CONTINUED	Dead arm, Downy mildew CONTINUED	mancozeb		
		Bonide Mancozeb Flowable with Zinc Concentrate	66 days PHI	3 – 4 tsp
		neem oil* 🌿		
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3	None	spray to runoff
Schultz Garden Safe Fungicide 3 Concentrate	None	2		
Raspberry, Blackberry	Anthracnose, Spur blight	lime sulfur / calcium polysulfides 🌿		
		Bonide Lime Sulfur Spray	None	see product label ^{†,d}
		Hi-Yield Improved Lime Sulfur Spray	None	see product label ^{†,d}
	Powdery mildew, Fruit rot	copper 🌿		
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4
		lime sulfur/calcium polysulfides 🌿		
		Bonide Lime Sulfur Spray	None	see product label [†]
		Hi-Yield Improved Lime Sulfur Spray	None	see product label [†]
		myclobutaniil		
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	None	⅓ fl oz
		sulfur 🌿		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz ^d
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label ^{†,d}
Bonide Sulfur Plant Fungicide Ready To Use	None	2 – 2½ ^d		
Strawberry	Leaf spot	captan		
		Bonide A Complete Fruit Tree Spray Concentrate	14 days PHI	2½ tsp
		Bonide Captan 50% WP Fruit & Ornamental	None	see product label [†]
		Ferti-lome Liquid Fruit Tree Spray	3 days PHI	1¾
		Gordon's Liquid Fruit Tree Spray	14 days PHI	2½ tsp

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Strawberry CONTINUED	Leaf spot CONTINUED	copper 🌿			
		Bonide Copper Dust Ready To Use	None	6	
		Bonide Dragoon Dust with Copper	7 days PHI	see product label †	
		Bonide Garden Dust Ready To Use	None	see product label †	
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4	
		Hi-Yield Bordeaux Mixture Fungicide	None	4 – 4½	
		myclobutanil			
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	None	1¼ fl oz	
		neem oil* 🌿			
		Bonide Rose Rx 3 in 1 RTU	None	spray to runoff	
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff	
		Ferti-lome Rose, Flower & Vegetable Spray	None	2	
		Ferti-lome Triple Action Plus (neem oil)	None	2	
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2	
		Schultz Garden Safe Fungicide 3	None	spray to runoff	
		Schultz Garden Safe Fungicide 3 Concentrate	None	2	
	sulfur 🌿				
	Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz		
	Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label †		
	Gray mold	captan			
		Bonide A Complete Fruit Tree Spray	14 days PHI	2½ tsp	
		Bonide Captan 50% WP Fruit & Ornamental	None	see product label †	
		Ferti-lome Liquid Fruit Tree Spray	3 days PHI	1¾	
		Gordon's Liquid Fruit Tree Spray	14 days PHI	2½ tsp	
		Hi-Yield Captan Fungicide 50% WP	None	2	
		copper 🌿			
		Bonide Liquid Copper Fungicide Concentrate	None	1 – 4	
		Natural Guard Copper Soap Liquid Fungicide	None	1 – 4	
		Powdery mildew	copper 🌿		
Bonide Liquid Copper Fungicide Concentrate	None		1 – 4		
myclobutanil					
Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	None		1¼ fl oz		

TABLE 2: FUNGICIDES LABELED FOR TREE FRUIT AND SMALL FRUIT DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Harvest Limitations^a Preharvest interval (PHI)	Rate (Tablespoons / gallon of water, unless otherwise noted)
Strawberry	Powdery mildew	neem oil* 🌿		
CONTINUED	CONTINUED	Bonide Rose Rx 3 in 1 RTU	None	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	None	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	None	2
		Ferti-lome Triple Action Plus (neem oil)	None	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	None	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	None	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	None	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	None	2
		Schultz Garden Safe Fungicide 3 Concentrate	None	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	None	2
		sulfur 🌿		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	1 day PHI	5 oz
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	1 day PHI	see product label †
		Bonide Sulfur Plant Fungicide Ready To Use	None	1 – 2 ^d

^a Harvest limitations indicate the minimum number of days before harvest that the last application can be made. "None" indicates that application can be made up to harvest. Preharvest interval (PHI) is a required waiting period from the last application until harvest. Preharvest intervals are designed to minimize risk to the consumer.

^b Spray every 3 – 4 days during bloom and after hail.

^c Dormant spray. On plum and cherry, all black knot cankers should be pruned before spraying with lime sulfur.

^d Risk of plant injury is much greater when temperature is above 85°F.

* Efficacy unknown. Neem oil has variable efficacy against plant pathogens. Little data is available.

† Rates vary for specific situations.

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Ash, green	Anthracnose	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
thiophanate-methyl			
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ tsp		
Aster	Rust	myclobutanil	
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		Spectracide Immunox Plus Insect & Disease Control	see product label †
		Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2 fl oz
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label †, ^b		
Ferti-lome Dusting Sulfur	4 ^b		
Hi-Yield Dusting Wettable Sulfur	4 ^b		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)		
Aster CONTINUED	Rust CONTINUED	tebuconazole			
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5/4		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †		
		Bayer Advanced Garden All-in-One Rose & Flower Care Concentrate	see product label †		
		Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½		
		triforine			
		Ortho RosePride Disease Control Concentrate	2 tsp		
		Ortho RosePride Insect, Disease & Mite Control Concentrate	see product label †		
Begonia	Powdery mildew	myclobutanil			
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label †		
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz		
		Spectracide Immunox Plus Insect & Disease Control	see product label †		
		Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2 fl oz		
				neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2		
		Bonide Rose Rx 3 in 1 RTU	spray to runoff		
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff		
		Ferti-lome Rose, Flower & Vegetable Spray	2		
		Ferti-lome Triple Action Plus (neem oil)	2		
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet		
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2		
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff		
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff		
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2		
		Schultz Garden Safe Fungicide 3	spray to runoff		
		Schultz Garden Safe Fungicide 3 Concentrate	2		
				sulfur	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	2 oz ^b		
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label †,b		
				thiophanate-methyl	
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	1⅔ tsp		
				tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5/4		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †		
Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †				
Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †				
Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½				
		triforine			
		Ortho RosePride Disease Control Concentrate	1		
		Ortho RosePride Insect, Disease & Mite Control	see product label †		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Begonia CONTINUED	Botrytis blight	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		mancozeb	
		Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
Schultz Garden Safe Fungicide 3 Concentrate	2		
thiophanate-methyl			
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ tsp		
Begonia, tuberous	Rot of tuberous root	captan	
		Bonide Captan 50% WP Fruit & Ornamental	1 ½
		Hi-Yield Captan Fungicide 50% WP	9 tsp
		thiophanate-methyl	
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ – 3 tsp		
Chrysanthemum	Powdery mildew	neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{t,b}		
Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b		
Ferti-lome Dusting Sulfur	4 ^b		
Hi-Yield Dusting Wetable Sulfur	4 ^b		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Chrysanthemum CONTINUED	Powdery mildew CONTINUED	tebuconazole Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use Bayer Advanced All-in-One Rose & Flower Care Concentrate Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	5¼ see product label † see product label † see product label † 1½
		triforine Ortho RosePride Disease Control Concentrate Ortho RosePride Insect, Disease & Mite Control	1 see product label †
	Botrytis petal blight	captan Bonide Captan 50% WP Fruit & Ornamental Bonide A Complete Fruit Tree Spray Concentrate Bonide Fruit Tree Spray Wettable Powder Bonide Rose Rx Insect & Disease Control Gordon's Liquid Fruit Tree Spray Hi-Yield Captan Fungicide 50% WP	¾ 1½ 5 5 1½ 5 tsp
		chlorothalonil Bonide Fung-onil Multi-Purpose Fungicide Concentrate Ferti-lome Broad Spectrum Landscape & Garden Fungicide	2¼ tsp 6 tsp
		copper 🌿 Bonide Copper Dust Ready To Use Bonide Garden Dust Ready To Use Dexol Bordeaux Powder Hi-Yield Bordeaux Mix Fungicide	9 see product label † 6 – 9 8 – 9
		mancozeb Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp
		neem oil* 🌿 Bonide Rose Rx 3 in 1 Concentrate Bonide Rose Rx 3 in 1 RTU Bonide Tomato Vegetable Rx 3 in 1 RTU Ferti-lome Rose, Flower & Vegetable Spray Ferti-lome Triple Action Plus (neem oil) Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide) Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer Gardener's Choice Rose & Flower 3-in-1 Spray Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate Schultz Garden Safe Fungicide 3 Schultz Garden Safe Fungicide 3 Concentrate	2 spray to runoff spray to runoff 2 2 spray until all of the plant's surfaces are wet 2 spray to runoff spray to runoff 2 spray to runoff 2
		thiophanate-methyl Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ tsp

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Chrysanthemum CONTINUED	Rust	mancozeb	
		Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp
		myclobutanil	
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label †
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		Spectracide Immunox Plus Insect & Disease Control	see product label †
		Spectracide Immunox Plus Insect & Disease Control- Multi-Purpose Concentrate	2 fl oz
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label †
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label †, ^b
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2½ ^b
		Ferti-lome Dusting Sulfur	4 ^b
		Hi-Yield Dusting Wettable Sulfur	4 ^b
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †
Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †		
Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †		
Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½		
triforine			
Ortho RosePride Disease Control Concentrate	1		
Ortho RosePride Insect, Disease & Mite Control	see product label †		
Crabapple, ornamental Some of these products can only be used on ornamental or non-bearing apples.	Frogeye leaf spot	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		Gordon's Multi-Purpose Fungicide	1½
		Ortho Max Garden Disease Control Concentrate	2 tsp
	Powdery mildew	myclobutanil	
		Schultz Fungicide Plus Concentrate	4
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		Spectracide Immunox Plus Insect & Disease Multi-Purpose Concentrate	2 fl oz

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Crabapple, ornamental CONTINUED	Powdery mildew CONTINUED	neem oil* 🌿	
	Bonide Rose Rx 3 in 1 Concentrate Bonide Rose Rx 3 in 1 RTU Bonide Tomato Vegetable Rx 3 in 1 RTU Ferti-lome Rose, Flower & Vegetable Spray Ferti-lome Triple Action Plus (neem oil) Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide) Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer Gardener's Choice Rose & Flower 3-in-1 Spray Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate Schultz Garden Safe Fungicide 3 Schultz Garden Safe Fungicide 3 Concentrate propiconazole Bonide Infuse Systemic Disease Control Ferti-lome Liquid Systemic Fungicide Ferti-lome Liquid Systemic Fungicide Ready To Spray sulfur 🌿 Bonide Citrus, Fruit & Nut Orchard Spray Concentrate Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray Bonide Sulfur Plant Fungicide Ready To Use tebuconazole Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use Bayer Advanced Garden All-in-One Rose & Flower Care Concentrate Bayer Advanced Garden Disease Control for Roses, Flowers & Shrubs Concentrate triforine Ortho RosePride Disease Control Concentrate Ortho RosePride Insect, Disease & Mite Control	2 spray to runoff spray to runoff 2 2 spray until all of the plant's surfaces are wet 2 spray to runoff spray to runoff 2 spray to runoff 2 1 ½ 1 ½ see product label † 5 oz ^b see product label ^{t,b} 2 – 2¼ ^b 5 ¼ see product label † see product label † see product label † 1½ 1 see product label †	
	Rust	chlorothalonil Bonide Fung-onil Multi-Purpose Fungicide Concentrate Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use Ferti-lome Broad Spectrum Landscape & Garden Fungicide Ortho Max Garden Disease Control Concentrate myclobutanil Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2¼ spray to runoff 6 tsp 1 1 fl oz 2 fl oz

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Crabapple, ornamental CONTINUED	Rust CONTINUED	neem oil* 🌿		
		Bonide Rose Rx 3 in 1 Concentrate	2	
		Bonide Rose Rx 3 in 1 RTU	spray to runoff	
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff	
		Ferti-lome Rose, Flower & Vegetable Spray	2	
		Ferti-lome Triple Action Plus (neem oil)	2	
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2	
		Schultz Garden Safe Fungicide 3	spray to runoff	
		Schultz Garden Safe Fungicide 3 Concentrate	2	
		propiconazole		
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label †	
		Bonide Infuse Systemic Disease Control	½	
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †	
		Ferti-lome Liquid Systemic Fungicide	½	
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label †	
		Gordon's Systemic Fungicide	½	
		sulfur 🌿		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b	
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{t,b}	
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b	
		tebuconazole		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †	
		Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1 ½	
		Bayer Advanced Garden All-In-One Rose & Flower Care Concentrate	2 tbs in 1 qt of water per foot of plant height as a root drench	
		triforine		
		Ortho RosePride Disease Control Concentrate	1	
		Ortho RosePride Insect, Disease & Mite Control Concentrate	see product label †	
		thiophanate-methyl		
		Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½	
		Mancozeb products are still available for commercial orchards, with significant restrictions, but are not labeled for homeowner use on apple or crabapple.	Begin applications at bud break and continue through second cover spray.	

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Crabapple, ornamental CONTINUED	Scab	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		Ortho Max Garden Disease Control Concentrate	1
		myclobutanil	
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2 fl ozs
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		propiconazole	
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †
		Bonide Infuse Systemic Disease Control	½
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready To Spray	see product label †
		Ferti-lome Liquid Systemic Fungicide	½
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label †
		Gordon's Systemic Fungicide	½
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †		
Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †		
Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½		
Dahlia	Powdery mildew	myclobutanil	
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label †

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Dahlia CONTINUED	Powdery mildew CONTINUED	<p>neem oil* 🌿</p> <p>Bonide Rose Rx 3 in 1 Concentrate</p> <p>Bonide Rose Rx 3 in 1 RTU</p> <p>Bonide Tomato Vegetable Rx 3 in 1 RTU</p> <p>Ferti-lome Rose, Flower & Vegetable Spray</p> <p>Ferti-lome Triple Action Plus (neem oil)</p> <p>Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)</p> <p>Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate</p> <p>Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer</p> <p>Gardener's Choice Rose & Flower 3-in-1 Spray</p> <p>Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate</p> <p>Schultz Garden Safe Fungicide 3</p> <p>Schultz Garden Safe Fungicide 3 Concentrate</p> <p>sulfur 🌿</p> <p>Bonide Sulfur Plant Fungicide Ready To Use</p> <p>Bonide Citrus, Fruit & Nut Orchard Spray Concentrate</p> <p>Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray</p> <p>Ferti-lome Dusting Sulfur</p> <p>Hi-Yield Dusting Sulfur</p> <p>tebuconazole</p> <p>Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate</p> <p>Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray</p> <p>Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use</p> <p>Bayer Advanced All-in-One Rose & Flower Care Concentrate</p> <p>Bayer Advanced Garden Disease Control for Roses, Flowers & Shrubs Concentrate</p> <p>thiophanate-methyl</p> <p>Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide</p> <p>triforine</p> <p>Ortho RosePride Disease Control Concentrate</p> <p>Ortho RosePride Insect, Disease & Mite Control</p>	<p>2</p> <p>spray to runoff</p> <p>spray to runoff</p> <p>2</p> <p>2</p> <p>spray until all of the plant's surfaces are wet</p> <p>2</p> <p>spray to runoff</p> <p>spray to runoff</p> <p>2</p> <p>spray to runoff</p> <p>2</p> <p>2 – 2½^b</p> <p>5 oz^b</p> <p>see product label ^{†,b}</p> <p>4^b</p> <p>4^b</p> <p>5 ¼</p> <p>see product label [†]</p> <p>see product label [†]</p> <p>see product label [†]</p> <p>1½</p> <p>1½ tsp</p> <p>1</p> <p>see product label [†]</p>
Delphinium	Powdery mildew	<p>neem oil* 🌿</p> <p>Bonide Rose Rx 3 in 1 Concentrate</p> <p>Bonide Rose Rx 3 in 1 RTU</p> <p>Bonide Tomato Vegetable Rx 3 in 1 RTU</p> <p>Ferti-lome Rose, Flower & Vegetable Spray</p> <p>Ferti-lome Triple Action Plus (neem oil)</p> <p>Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)</p> <p>Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate</p> <p>Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer</p> <p>Gardener's Choice Rose & Flower 3-in-1 Spray</p> <p>Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate</p> <p>Schultz Garden Safe Fungicide 3</p> <p>Schultz Garden Safe Fungicide 3 Concentrate</p>	<p>2</p> <p>spray to runoff</p> <p>spray to runoff</p> <p>2</p> <p>2</p> <p>spray until all of the plant's surfaces are wet</p> <p>2</p> <p>spray to runoff</p> <p>spray to runoff</p> <p>2</p> <p>spray to runoff</p> <p>2</p>

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Delphinium CONTINUED	Powdery mildew CONTINUED	propiconazole	
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †
		Bonide Infuse Systemic Disease Control	1
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label †
		Ferti-lome Liquid Systemic Fungicide	1
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label †
		Gordon's Systemic Fungicide	1
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label †, ^b
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b
		Ferti-lome Dusting Sulfur	4 ^b
		Hi-Yield Dusting Wettable Sulfur	4 ^b
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †
		Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½
		thiophanate-methyl	
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	1⅓ tsp		
triforine			
Ortho RosePride Disease Control Concentrate	1		
Ortho RosePride Insect, Disease & Mite Control	see product label †		
Geranium (Pelargonium)	Gray mold blight (Botrytis)	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		Ortho Max Garden Disease Control Concentrate	2 tsp
		copper 🌿	
		Hi-Yield Bordeaux Mix Fungicide	4 – 4½
		maneb	
		Hi-Yield Maneb Garden Fungicide	1½
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff		
Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff		
Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2		
Schultz Garden Safe Fungicide 3	spray to runoff		
Schultz Garden Safe Fungicide 3 Concentrate	2		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)		
Geranium (Pelargonium)	Gray mold blight (Botrytis)	thiophanate-methyl			
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ tsp		
CONTINUED	Rust	chlorothalonil			
		Bonide Fung-onil Multi-Purpose Fungicide	2¼ tsp		
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff		
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp		
		Ortho Max Garden Disease Control Concentrate	2 tsp		
		mancozeb			
		Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp		
		myclobutanil			
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz		
		neem oil* 🌿			
		Bonide Rose Rx 3 in 1 Concentrate	2		
		Bonide Rose Rx 3 in 1 RTU	spray to runoff		
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff		
		Ferti-lome Rose, Flower & Vegetable Spray	2		
		Ferti-lome Triple Action Plus (neem oil)	2		
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet		
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2		
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff		
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff		
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2		
		Schultz Garden Safe Fungicide 3 Concentrate	spray to runoff		
		Schultz Garden Safe Fungicide 3 Concentrate	2		
		sulfur			
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b		
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{t,b}		
		tebuconazole			
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label [†]		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label [†]		
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label [†]		
		Bayer Advanced Garden Disease Control for Roses, Flowers & Shrubs Concentrate	1½		
		Gladiolus	Leaf and flower spot (Botrytis)	captan	
				Bonide Rose Rx Insect & Disease Control	5
chlorothalonil					
Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp				
Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff				
Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp				
Ortho Max Garden Disease Control Concentrate	2 tsp				

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Gladiolus CONTINUED	Leaf and flower spot (Botrytis) CONTINUED	copper 🌿	
		Dexol Bordeaux Powder	6 – 9
		Hi-Yield Bordeaux Mix Fungicide	8 – 9
		neem oil * 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †
	Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †	
	Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †	
	Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½	
	thiophanate-methyl		
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ tsp		
Corm rot	captan		
	Bonide Captan 50% WP Fruit & Ornamental	3	
	Hi-Yield Captan Fungicide 50% WP	9 – 36 tsp	
	PCNB		
	Hi-Yield Turf & Ornamental Fungicide Containing 10% PCNB	see product label †	
	thiophanate-methyl		
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ – 3 tsp		
Hawthorn	Rust	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2 ¼ tsp
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		neem oil * 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Hawthorn CONTINUED	Rust CONTINUED	propiconazole	
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †
		Bonide Infuse Systemic Disease Control	½
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label †
		Ferti-lome Liquid Systemic Fungicide	½
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label †
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label †,b
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †
		Bayer Advanced Garden Disease Control for Roses, Flowers & Shrubs Concentrate	1½
		triforine	
		Ortho RosePride Disease Control Concentrate	1
Ortho RosePride Insect, Disease & Mite Control	see product label †		
Hollyhock	Rust	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		Ortho Max Garden Disease Control Concentrate	2 tsp
		myclobutanil	
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
Schultz Garden Safe Fungicide 3	spray to runoff		
Schultz Garden Safe Fungicide 3 Concentrate	2		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Hollyhock CONTINUED	Rust CONTINUED	sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{†,b}
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2½ ^b
		Ferti-lome Dusting Sulfur	4 ^b
		Hi-Yield Dusting Wettable Sulfur	4 ^b
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label [†]
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label [†]
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label [†]
		Bayer Advanced Garden Disease Control for Roses, Flowers & Shrubs Concentrate	1 ½
triforine			
Ortho RosePride Disease Control Concentrate	1		
Ortho RosePride Insect, Disease & Mite Control	see product label [†]		
Horse Chestnut, Buckeye	Leaf blight, Leaf blotch	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		Ortho Max Garden Disease Control Concentrate	2 tsp
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		thiophanate-methyl	
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ tsp		
Iris	Leaf spot	captan	
		Bonide Rose Rx Insect & Disease Control	5
		chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
Ortho Max Garden Disease Control Concentrate	2 tsp		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Iris CONTINUED	Leaf spot CONTINUED	copper 🌿	
		Dexol Bordeaux Powder	6 – 9
		Hi-Yield Bordeaux Mix Fungicide	8 – 9
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{†,b}
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label [†]
Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label [†]		
Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label [†]		
Bayer Advanced Garden Disease Control for Roses, Flowers & Shrubs Concentrate	1½		
thiophanate-methyl			
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½		
Lilac	Powdery mildew	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2 ¼ tsp
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		myclobutanil	
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label [†]
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
Spectracide Immunox Plus Insect & Disease Control	see product label [†]		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Lilac CONTINUED	Powdery mildew	neem oil* 🌿	
	CONTINUED	Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		propiconazole	
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †
		Bonide Infuse Systemic Disease Control	3
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label †
		Ferti-lome Liquid Systemic Fungicide	3
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label †
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label †,b
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b
		Ferti-lome Dusting Sulfur	4 ^b
		Hi-Yield Dusting Wettable Sulfur	4 ^b
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray		see product label †	
Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †		
Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †		
Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½		
thiophanate-methyl			
Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	1⅔ tsp		
triforine			
Ortho RosePride Disease Control Concentrate	1		
Ortho RosePride Insect, Disease & Mite Control	see product label †		
Lily	Gray mold blight (Botrytis)	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		Ortho Max Garden Disease Control Concentrate	2 tsp

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Lily CONTINUED	Gray mold blight (<u>Botrytis</u>) CONTINUED	copper 🌿	
		Dexol Bordeaux Powder	6 – 9
		Hi-Yield Bordeaux Mix Fungicide	8 – 9
		mancozeb	
		Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp
		maneb	
		Hi-Yield Maneb Garden Fungicide	1½
		thiophanate-methyl	
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ tsp
Oak	Anthracnose	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate (red group only)	2¼ ^a
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use (red group only)	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide (red group only)	6 tsp
		Ortho Max Garden Disease Control Concentrate (red group only)	2 tsp
		copper 🌿	
		Dexol Bordeaux Powder	5 – 7
		Hi-Yield Bordeaux Mix Fungicide	8 – 9
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2½ ^a
Peony	Gray mold blight (<u>Botrytis</u>) and Phytophthora blight	copper 🌿	
		Hi-Yield Bordeaux Mix Fungicide	4 – 4½
		mancozeb	
		Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp
Petunia	Gray mold blight (<u>Botrytis</u>) and Phytophthora blight	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp ^c
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff ^c
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp ^c
		Ortho Max Garden Disease Control Concentrate	2 tsp ^c
Phlox	Powdery mildew	propiconazole	
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †
		Bonide Infuse Systemic Disease Control	1
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label †
		Ferti-lome Liquid Systemic Fungicide	1
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label †,b
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †
		Bayer Advanced Garden All-in-One Rose & Flower Care Concentrate	see product label †
Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)		
Phlox CONTINUED	Powdery mildew CONTINUED	thiophanate-methyl			
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	1 2/3 tsp		
		triforine			
		Ortho RosePride Disease Control Concentrate Ortho RosePride Insect, Disease & Mite Control	1 see product label †		
Poplar	Marssonina leaf spot	chlorothalonil			
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2 1/4 tsp		
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff		
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp		
		Ortho Max Garden Disease Control Concentrate	2 tsp		
		tebuconazole			
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 1/4		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †		
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †		
	Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1 1/2			
	Rust		propiconazole		
			Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †	
			Bonide Infuse Systemic Disease Control	1/2	
			Ferti-lome Liquid Systemic Fungicide	1/2	
			Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label †	
			tebuconazole		
			Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 1/4	
			Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †	
			Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †	
Bayer Advanced All-in-One Rose & Flower Care Concentrate			see product label †		
Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1 1/2				
		triforine			
		Ortho RosePride Disease Control Concentrate	1		
		Ortho RosePride Insect, Disease & Mite Control	see product label †		
		Rose	Black spot	captan	
				Bonide A Complete Fruit Tree Spray Concentrate	1 1/2
				Bonide Captan 50% WP Fruit & Ornamental	3/4
				Bonide Fruit Tree Spray Wettable Powder	5
				Bonide Rose Rx Insect & Disease Control	5
				Gordon's Liquid Fruit Tree Spray	1 1/2
				Hi-Yield Captan Fungicide 50% WP	5 tsp
chlorothalonil					
Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2 1/4 tsp				
Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff				
Ferti-lome Broad Spectrum Landscape & Garden Fungicide	see product label †				
Ortho Max Garden Disease Control Concentrate	see product label †				

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Rose	Black spot	copper 🌿	
CONTINUED	CONTINUED	Bonide Copper Dust Ready To Use	9
		Bonide Garden Dust Ready To Use	see product label †
		Bonide Liquid Copper Fungicide Concentrate	see product label †
		Bonide Liquid Copper Fungicide Ready To Use	spray all plant surfaces thoroughly
		Natural Guard Copper Soap Liquid Fungicide	see product label †
		Natural Guard Copper Soap Liquid Fungicide Ready To Use	spray all plant surfaces thoroughly
		lime sulfur/calcium polysulfides 🌿	
		Bonide Lime Sulfur Spray	1 ^b
		Bonide Oil and Lime Sulfur Spray Concentrate	see product label †, ^b
		Hi-Yield Improved Lime Sulfur Spray	1 ^b
		mancozeb	
		Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp
		maneb	
		Hi-Yield Maneb Garden Fungicide	1½
		myclobutanil	
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label †
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		Spectracide Immunox Plus Insect & Disease	see product label †
		Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2 fl oz
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
Schultz Garden Safe Fungicide 3	spray to runoff		
Schultz Garden Safe Fungicide 3 Concentrate	2		
propiconazole			
Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †		
Bonide Infuse Systemic Disease Control	2		
Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label †		
Ferti-lome Liquid Systemic Fungicide	2		
Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label †		
Gordon's Systemic Fungicide	2		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Rose	Black spot	sulfur 🌿		
CONTINUED	CONTINUED	Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b	
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{†,b}	
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2½ ^b	
		Ferti-lome Dusting Sulfur	4 ^b	
		Hi-Yield Dusting Wettable Sulfur	4 ^b	
		tebuconazole		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label [†]	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label [†]	
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label [†]	
		Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½	
		thiophanate-methyl		
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	2 ½	
		triforine		
		Ortho RosePride Disease Control Concentrate	1	
		Ortho RosePride Insect, Disease & Mite Control	see product label [†]	
		Powdery mildew	chlorothalonil	
		CONTINUED	CONTINUED	Ferti-lome Rose Spray
Gordon's Multi-Purpose Fungicide	1			
copper 🌿				
Bonide Copper Dust Ready To Use	9 ^c			
Bonide Garden Dust Ready To Use	see product label ^{†,c}			
Bonide Liquid Copper Fungicide Concentrate	see product label ^{†,c}			
Bonide Liquid Copper Fungicide Ready To Use	spray all plant surfaces thoroughly ^c			
Natural Guard Copper Soap Liquid Fungicide	see product label ^{†,c}			
Natural Guard Copper Soap Liquid Fungicide Ready To Use	spray all plant surfaces thoroughly ^c			
lime sulfur/calcium polysulfides 🌿				
Bonide Lime Sulfur Spray	1			
Hi-Yield Improved Lime Sulfur Spray	1			
myclobutanil				
Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label [†]			
Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz			
Spectracide Immunox Plus Insect & Disease Control	see product label [†]			
Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2 fl oz			

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)	
Rose CONTINUED	Powdery mildew CONTINUED	neem oil* 🌿		
		Bonide Rose Rx 3 in 1 Concentrate	2	
		Bonide Rose Rx 3 in 1 RTU	spray to runoff	
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff	
		Ferti-lome Rose, Flower & Vegetable Spray	2	
		Ferti-lome Triple Action Plus (neem oil)	2	
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2	
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff	
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2	
		Schultz Garden Safe Fungicide 3	spray to runoff	
		Schultz Garden Safe Fungicide 3 Concentrate	2	
		propiconazole		
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †	
		Bonide Infuse Systemic Disease Control	1	
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label †	
		Ferti-lome Liquid Systemic Fungicide	1	
		Gordon's Systemic Fungicide	1	
		sulfur 🌿		
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b	
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{†,b}	
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b	
		Ferti-lome Dusting Sulfur	4 ^b	
		Hi-Yield Dusting Wettable Sulfur	4 ^b	
		tebuconazole		
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †	
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †	
		Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½	
		thiophanate-methyl		
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	1⅔	
triforine				
Ortho RosePride Disease Control Concentrate	1			
Ortho RosePride Insect, Disease & Mite Control	see product label †			
Rust		lime sulfur/calcium polysulfides		
		Bonide Lime Sulfur Spray	1	
		Bonide Oil and Lime Sulfur Spray Concentrate	see product label †	
		Hi-Yield Improved Lime Sulfur Spray	1 ^b	
		mancozeb		
		Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp	

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Rose CONTINUED	Rust CONTINUED	myclobutanil	
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label †
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		Spectracide Immunox Plus Insect & Disease Control	see product label †
		Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2 fl oz
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		propiconazole	
		Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label †
		Bonide Infuse Systemic Disease Control	2
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label †
		Ferti-lome Liquid Systemic Fungicide	2
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label †
		Gordon's Systemic Fungicide	2
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{t,b}
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label †
Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label †		
Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label †		
Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½		
triforine			
Ortho RosePride Disease Control Concentrate	1		
Ortho RosePride Insect, Disease & Mite Control	see product label †		
Snapdragon	Powdery mildew	myclobutanil	
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label †
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		Spectracide Immunox Plus Insect & Disease Control	see product label †
		Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2 fl oz


TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Snapdragon	Powdery mildew	neem oil* 🌿	
CONTINUED	CONTINUED	Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
		sulfur 🌿	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{t,b}
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label [†]
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label [†]
		Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½
		thiophanate-methyl	
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	1⅔ tsp
		triforine	
		Ortho RosePride Disease Control Concentrate	1
		Ortho RosePride Insect, Disease & Mite Control	see product label [†]
Spruce	Rhizosphaera needle cast	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	see product label ^{t,d}
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	see product label ^{t,d}
		Gordon's Multi-Purpose Fungicide	4 ^d
		Ortho Max Garden Disease Control Concentrate	see product label ^{t,d}
Tulip	Botrytis blight ("fire")	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2 ¼ tsp
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		copper 🌿	
		Hi-Yield Bordeaux Mix Fungicide	8–9

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Tulip CONTINUED	Botrytis blight ("fire") CONTINUED	neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
		Ferti-lome Rose, Flower & Vegetable Spray	2
		Ferti-lome Triple Action Plus (neem oil)	2
		Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2
		Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff
		Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2
		Schultz Garden Safe Fungicide 3	spray to runoff
		Schultz Garden Safe Fungicide 3 Concentrate	2
Zinnia	Alternaria leaf blight	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6 tsp
		mancozeb	
		Bonide Mancozeb Flowable with Zinc Concentrate	3 tsp
	Powdery mildew	chlorothalonil	
		Bonide Fung-onil Multi-Purpose Fungicide Concentrate	2¼ tsp
		Bonide Fung-onil Multi-Purpose Fungicide Ready-To-Use	spray to runoff
		Ferti-lome Broad Spectrum Landscape & Garden Fungicide	6
		Ortho Max Garden Disease Control Concentrate	2 tsp
		myclobutanil	
		Spectracide Immunox 3-in-1 Insect & Disease Control Plus Fertilizer	see product label †
		Spectracide Immunox Multi-Purpose Fungicide Spray Concentrate	1 fl oz
		Spectracide Immunox Plus Insect & Disease Control	see product label †
		Spectracide Immunox Plus Insect & Disease Control - Multi-Purpose Concentrate	2 fl oz
		neem oil* 🌿	
		Bonide Rose Rx 3 in 1 Concentrate	2
		Bonide Rose Rx 3 in 1 RTU	spray to runoff
		Bonide Tomato Vegetable Rx 3 in 1 RTU	spray to runoff
Ferti-lome Rose, Flower & Vegetable Spray	2		
Ferti-lome Triple Action Plus (neem oil)	2		
Ferti-lome Triple Action Plus RTU (neem oil, pyrethins, and Piperonyl Butoxide)	spray until all of the plant's surfaces are wet		
Gardener's Choice Fruit & Vegetable 3-in-1 Spray Concentrate	2		
Gardener's Choice Fruit & Vegetable 3-in-1 Spray Insect Killer	spray to runoff		
Gardener's Choice Rose & Flower 3-in-1 Spray	spray to runoff		
Gardener's Choice Rose & Flower 3-in-1 Spray Concentrate	2		
Schultz Garden Safe Fungicide 3	spray to runoff		
Schultz Garden Safe Fungicide 3 Concentrate	2		

TABLE 3: FUNGICIDES LABELED FOR ORNAMENTAL DISEASE CONTROL IN HOME GARDENS

Crop	Disease	Fungicide	Rate (Tablespoons / gallon of water, unless otherwise noted)
Zinnia	Powdery mildew	propiconazole	
CONTINUED	CONTINUED	Bonide Fung-onil Lawn & Garden Disease Control Ready-To-Spray	see product label [†]
		Bonide Infuse Systemic Disease Control	1
		Bonide Infuse Systemic Disease Control Lawn & Landscape Ready-To-Spray	see product label [†]
		Ferti-lome Liquid Systemic Fungicide	1
		Ferti-lome Liquid Systemic Fungicide Ready To Spray	see product label [†]
		sulfur 	
		Bonide Citrus, Fruit & Nut Orchard Spray Concentrate	5 oz ^b
		Bonide Citrus, Fruit & Nut Orchard Spray Ready to Spray	see product label ^{†,b}
		Bonide Sulfur Plant Fungicide Ready To Use	2 – 2¼ ^b
		tebuconazole	
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Concentrate	5 ¼
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Spray	see product label [†]
		Bayer Advanced 3-in-1 Insect, Disease & Mite Control Ready-To-Use	see product label [†]
		Bayer Advanced All-in-One Rose & Flower Care Concentrate	see product label ^{†,b}
		Bayer Advanced Disease Control for Roses, Flowers & Shrubs Concentrate	1½
		thiophanate-methyl	
		Ferti-lome Halt Systemic Rose, Flower, Lawn, Ornamental Fungicide	1⅔ tsp
		triforine	
Ortho RosePride Disease Control Concentrate	1		
Ortho RosePride Insect, Disease & Mite Control	see product label [†]		

^a Dormant spray. Apply before bud break.

^b Risk of plant injury is much greater when the temperature is above 85°F.

^c May cause discoloration of blooms in some varieties.

^d Apply when shoots are ½ – 2 inches long; make a second application 3 – 4 weeks later.

* Efficacy unknown. Neem oil has variable efficacy against plant pathogens. Little data is available.

[†] Rates vary for specific situations.

TABLE 4: AMOUNT OF SPRAY NEEDED TO COVER TREES OF VARIOUS SIZES

Approximate Age of Tree	Height (feet)	Spread (feet)	Gallons to Apply
1 – 4 years	5 – 8	3 – 6	½ – 1
5 – 10 years	8 – 12	4 – 9	1 – 3
10 – 15 years	12 – 18	8 – 15	4 – 8
Over 15 years	> 18	> 15	8 – 10

Areas with perennial disease problems or where fruit is being grown intensively may respond to fungicide treatments applied on a schedule over the entire season. Most home gardeners will find that by removing and destroying fallen leaves and fruit in the fall will delay the first occurrence of disease the following spring. Treatments can begin when diseases are first observed in the spring.

TABLE 5: SPRAY SCHEDULE FOR APPLES AND PEARS (FRUIT BEARING)

Plant stage for application	Approximate calendar date	Materials to spray	What pests to control?
Silver-tip bud stage	April 10 – 20	captan	Scab
Green-tip bud stage	April 20 – 30	captan	Scab
Tight cluster bud stage	April 25 – May 10	captan	Scab
Pink to full bloom stage	May 1 – 15	captan	Scab
Bloom stage	May 10 – 20	captan thiophanate-methyl*	Scab, powdery mildew, (do not use insecticides during the bloom stage)
Petal-fall	May 15 – 30	All purpose mixture with captan thiophanate-methyl*	Scab, powdery mildew, codling moth, curculio, tent caterpillars, mites, aphids
First cover spray	May 28 – June 1	All purpose mixture with captan thiophanate-methyl*	Same as above
Note: Additional cover sprays can be applied every 10 – 14 days to give season long protection up until harvest limits of the pesticide being used. In drier weather, use longer spray intervals. Espenvalerate and permethrin provide residual control up to 21 days.	July	All purpose mixture with captan thiophanate-methyl*	Apple maggot
		Continue with this treatment for later cover sprays.	
		Continue with this treatment for later cover sprays.	

All purpose sprays contain both insecticide and fungicide. Commercial blends are available or homeowners may mix their own in the spray tank using espenvalerate, malathion, permethrin or carbaryl insecticides with captan fungicide. Do not apply insecticides during the bloom period since insecticides are highly toxic to bees. If apple scab is a problem on the site, captan alone will provide only moderate disease control.

*Use only in alternation with captan alone to reduce the chance of fungicide resistant scab fungi.

