

# Monterey Garden Phos™

## Systemic Fungicide

- Soil Drench, Foliar Spray or Basal Bark Application
- Ornamentals, Trees, Vegetables, Fruits, and Bedding Plants
- Control of Root Rot, Downy Mildew, Fire Blight, Sudden Oak Death, Phytophthora and Pythium Diseases & Other Listed Diseases



### Active Ingredients:

Mono- and di-potassium salts of Phosphorous Acid\* ..... 45.8%  
 Other Ingredients: ..... 54.2%  
 Total: ..... 100.0%

\*Contains 5.17 lbs./gallon of the active ingredients, mono- and di-potassium salts of Phosphorous Acid.  
 Equivalent to 3.35 lbs. Phosphorous Acid/gallon.

EPA Reg. No. 83416-1-54705

EPA Est. No. 48498-CA-1

Garden Phos™ is a trademark of Lawn and Garden Products, Inc.  
 Pentra-Bark™ is a trademark of Quest Products Corporation

**NET CONTENTS:** 1 Pint / 1 Quart / 1 Gallon /  
 2.5 Gallons / 250 Gallons

Manufactured For:  
**LAWN AND GARDEN PRODUCTS, INC.**  
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## KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If Swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If In Eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If On Skin Or Clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If Inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
Have the product container or label with you when calling a poison control center or doctor or going for treatment. Hotline Number: National Poison Control, 1-800-222-1222.	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed, absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Avoid breathing spray mist or vapors. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse. Wear the appropriate Personal Protective Equipment (PPE).

### Applicators must wear:

Protective eye wear, long pants, long sleeved shirt, waterproof gloves, shoes and socks.

## ENVIRONMENTAL HAZARDS

For Terrestrial Use: To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters to surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

## DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Read entire label before using this product. For use only in home gardens, on home lawns, and on home ornamentals and related home plants.

### Residential Use

When using Monterey Garden Phos with Pentra-Bark™ adhere to all applicable label directions. Only use Pentra-Bark™ with basal bark or tree injection applications.

## GENERAL APPLICATION INSTRUCTIONS

Apply Monterey Garden Phos by various application methods, including foliar spray, soil drench, soil incorporation, basal bark application and bare root dip. For foliar sprays, apply Monterey Garden Phos with sufficient water volumes for adequate coverage of foliage, according to plant type and growth stage. To ensure good coverage, spray to wetness, but avoid run-off. Harvest when dry.

When applying Monterey Garden Phos to plant species for the first time, spray a limited number of plants first and wait for 3-7 days. Then check for leaf burn (phytotoxicity).

## MIXING INSTRUCTIONS

1. Fill the spray tank with 1/4 to 1/2 of the volume of water required before adding Monterey Garden Phos.
2. Add Monterey Garden Phos slowly to the tank and agitate.
3. Fill tank with balance of water to the desired volume.
4. Agitate during application.

Conversion Table			
1/8 fl. oz.	=	3/4 teaspoon (tsp.)	
1/4 fl. oz.	=	1 1/2 tsp.	
1/3 fl. oz.	=	2 tsp.	
1/2 fl. oz.	=	3 tsp.	
2/3 fl. oz.	=	4 tsp.	
3/4 fl. oz.	=	4 1/2 tsp.	
1 fl. oz.	=	2 tablespoons (Tbs.)	= 6 tsp.

## CITRUS, FRUIT, NUT AND VEGETABLE APPLICATIONS

### APPLES, CRAB APPLES, LOQUATS, PEARS & QUINCE

Use Monterey Garden Phos for effective control of black spot, root and collar rot and fire blight in apples, crab apples, loquats, pears, and quinces.

Disease	Application Method	Rate	Application Program
Apple black spot and scab ( <i>Venturia inaequalis</i> )	Foliar spray	3-4 tsp. Monterey Garden Phos per gallon of water	Apply at 1/4 – 1/2 inch green tip through first cover at 7 to 10 day intervals or according to forecasted infection events. Continue with Monterey Garden Phos and Captan in the remaining applications.  First application at open cluster. Last application at fifth cover or fruit at 2" to 2 1/2" diameter. Total of 10 applications at 10 to 12 day intervals. When conditions are conducive to a black spot outbreak, apply Monterey Garden Phos immediately. <b>Note:</b> After 4 or 5 consecutive applications some yellowing of extension growth may be observed. If yellowing occurs use another fungicide until yellowing of leaves disappears.
	Basal bark spray. Apply	16 fl. oz. Monterey	Spray a combination of Monterey Garden Phos and Pentra-Bark™

	early spring at bud swell or at silver tip stage of growth.	Garden Phos + 16 fl. oz. of water + 1 fl. oz. Penra-Bark™ Bark Penetrating Surfactant	around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present (treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control). Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices.
Root and collar rot ( <i>Phytophthora cactorum</i> )  Fire Blight ( <i>Erwinia amylovora</i> )	Foliar spray	2 1/2 - 5 tsp. Monterey Garden Phos per gallon of water	Thorough spray coverage of plant is required. Start applications when conditions favor disease development.  Apply at one to two month intervals between treatments. Use the low rate on the shorter interval and the high rate on the longer interval. Under high disease pressure use higher application rate and shorter spray interval. Ensure thorough coverage.
	Basal bark spray. Apply spring and fall for best results.	16 fl. oz. Monterey Garden Phos + 16 fl. oz. of water + 1 fl. oz. Penra-Bark™ Bark Penetrating Surfactant	Spray a combination of Monterey Garden Phos and Penra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control).

			months. Do not cut back the canopy of injected trees. Do not add any other material, other than water, to Monterey Garden Phos by trunk injection. Do not inject more liquid in a lesser number of syringes than directed.
	Foliar spray	1/3 fl. oz. Monterey Garden Phos per gallon of water	Spray to runoff at 2 – 2 1/2 gallons of spray solution per adult tree. Start applications in spring, up to 4 applications a year at two-month intervals. Ensure thorough coverage.
Canker ( <i>Phytophthora citricola</i> )	Trunk spray	8 to 16 fl. oz. Monterey Garden Phos with one gallon of water + 1.2 fl. oz. of Penra-Bark™ Bark Penetrating Surfactant	Apply to trunk lesions using sufficient spray volume to completely wet the trunk and lesions. If lesions absent, apply to trunk from soil level to two feet up trunk. If lesions present use higher rate.
Downy mildew	Foliar spray	3/4 tsp. per gallon of water	Spray to runoff, as required for disease control.

## BERRIES

Use Monterey Garden Phos for effective control of root rot, general leaf and berry diseases such as those caused by *Septoria* spp., and downy mildew, and for suppression of *Anthraco* spp., in bush and cane berries such as, but not limited to, bingleberries, blackberries, black satin berries, blueberries, boysenberries, Cherokee blackberries, Chesterberries, Cheyenne blackberries, coryberries, cranberries, darrowberries, dewberries, Dirksen thornless berries, elderberries, Himalayaberries, huckleberries, hullberries, Lavacaberries, loganberries, lowberries, lucretiaberries, mammoth blackberries, marionberries, mulberries, nectarberries, ollallieberries, Oregon evergreen berries, raspberries (red, black, hybrids/cultivars), and youngberries.

Disease	Application Method	Rate	Application Program
Root rot ( <i>Phytophthora</i> spp)	Foliar spray	2 – 6 tsp. Monterey Garden Phos per gallon of water. Ensure foliage is completely wet	New plantings: start application when new growth is 2 to 3 inches long. Established plantings: start applications when cool wet conditions occur which favor disease.  West of Rocky Mountains: Autumn applications, apply when conditions favor disease, repeat in 4 weeks. Spring applications, first application after bud break and repeat in 4 weeks.  East of Rocky Mountains: First application spring post bud break (2 to 3 inches new growth) and repeat at 50 to 60 day intervals. Do not exceed 4 applications per growing season.  For blueberries: First application in spring at pink bud and then on a regular schedule of application at two to three week intervals.
General leaf and berry diseases such as those caused by <i>Septoria</i> spp., and <i>Anthraco</i> spp.	Root dip	Mix a 2.50% v/v solution (3 fl. oz. Monterey Garden Phos / 1 gallon of water)	Apply as pre-plant dip to the roots for 2-3 minutes. Plant within 48 hours after dipping. Mix a fresh solution daily.
Downy mildew	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 3 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.  Monterey Garden Phos is best when used in combination with conventional registered fungicides to increase the performance of the disease control program.

## ASPARAGUS

Use Monterey Garden Phos for effective control of crown rot & asparagus spear slime disease in asparagus crops.

Disease	Application Method	Rate	Application Program
Crown rot & Asparagus spear slime ( <i>Phytophthora</i> spp)	Foliar	1/3 fl. oz. Monterey Garden Phos per gallon of water	Apply to ferns that have 2 to 3 inches of new growth. Do not apply to ferns that are starting to die down (senesce). Established plantings, start applications when conditions are favorable to disease (cool wet conditions). Ensure thorough coverage.

## AVOCADOS

Use Monterey Garden Phos for effective control of root rot, trunk cankers and downy mildew disease in Avocado.

Disease	Application Method	Rate	Application Program
Root rot ( <i>Phytophthora cinnamomi</i> )	Tree injection	Skeletal trees 1 <sup>st</sup> year: 1/4 fl. oz. Monterey Garden Phos undiluted per yard of canopy diameter  Other situations: 1/8 fl. oz. Monterey Garden Phos diluted with 1/2 fl. oz. of water per yard of canopy diameter	Inject trees at spring flush maturity. Repeat treatment in February or March. Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murf gun, Smart Shot injector or hydraulic tree injection. Do not prune back trees before injection process as burning of new growth may occur. Do not inject trees in winter

## BRASSICAS

Use Monterey Garden Phos for effective control of downy mildew, damping-off, root rot, bacterial and fungal diseases in brassicas such as, but not limited to, broccoli, Brussels sprouts, cabbage, cauliflower, cavalo broccolo, collards, Chinese cabbage, Chinese mustard cabbage, kale, kohlrabi, mizuna, mustard greens, mustard spinach and rape greens.

Disease	Application Method	Rate	Application Program
Root rot and damping off ( <i>Phytophthora spp</i> and <i>Pythium spp.</i> )	Foliar spray  Pre-plant seedling treatment	1 to 2 fl. oz. Monterey Garden Phos per gallon of water  2 tsp. Monterey Garden Phos in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Downy mildew ( <i>Peronospora parasitica</i> )	Foliar spray	2 tsp. to 2 fl. oz. Monterey Garden Phos per gallon of water.  California: 1/3 to 1/2 fl. oz. per gallon of water	1 to 3 week intervals between applications when conditions favor disease development (cool, moist weather). Use higher rates and shorter intervals when disease pressure increases.
Diseases caused by <i>Septoria</i> , <i>Collectotrichum</i> , <i>Alternaria</i> , and Powdery mildew	Foliar spray	1 to 2 fl. oz. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

## CITRUS – Mature trees

Use Monterey Garden Phos for effective control of root rot and collar rot diseases in citrus.

Disease	Application Method	Rate	Application Program
Brown rot and root rot <i>Phytophthora spp.</i>	Foliar spray	1 tsp. Monterey Garden Phos per gallon of water	When conditions favor disease, spray trees to runoff. Ensure even coverage. Do not apply at high temperatures (above 95°F) particularly if humidity is low or to moisture-stressed trees
Root rot and collar rot ( <i>Phytophthora spp.</i> , <i>Nicotianae</i> and <i>Phytophthora citrophthora</i> )	Trunk spray	8 to 16 fl. oz. Monterey Garden Phos per gallon of water with ¼ to ½ fl. oz. Penra-Bark™ Bark Penetrating Surfactant	Spray trunk lesions with enough spray volume to ensure lesions are completely wet. When disease levels are high, use higher rate.
Pre-harvest blue and green mold and brown rot ( <i>Phytophthora citricola</i> )	Foliar spray	4 tsp. Monterey Garden Phos per gallon of water	Apply 2-4 weeks prior to harvest. Ensure fruit is thoroughly covered by the spray application.

## COCONUTS

Use Monterey Garden Phos for effective control of bud rot and nut fall in coconuts.

Disease	Application Method	Rate	Application Program
Bud rot – Nut fall ( <i>Phytophthora</i> )	Injection	1/3 to 1 fl. oz. Monterey	Dilute Monterey Garden Phos with water to give final injection

<i>palmivora</i> )		Garden Phos per tree	volume of 1 fl. oz. to 2 fl. oz. of water and Monterey Garden Phos. Inject into the trunk or root system.
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## CUCURBITS

Use Monterey Garden Phos for effective control of sudden wilt, gummy stem blight, downy mildew, powdery mildew, *Alternaria* leaf blight, and bottom soft rot complex, and for suppression of *Anthraco* in cucurbits such as, but not limited to, cucumber, Chinese waxgourd, citron melon, gherkin rock melon, honeydew melon, pumpkin, zucchini, watermelon, squash (summer and winter), momordica spp. balsam apple, balsam pear, bitter melon, and Chinese cucumber.

Disease	Application Method	Rate	Application Program
Sudden wilt – root and fruit rot ( <i>Phytophthora spp</i> ) Gummy stem blight ( <i>Mycosphaerella melonis</i> )	Foliar spray	2 to 6 tsp. Monterey Garden Phos per gallon of water  Apply 1 fl. oz. per gallon of water (CA only)	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.  Apply when disease is evident. Continue applications at 21 day intervals until cure is apparent. Do not exceed 6 applications per growing season.
Downy mildew ( <i>Pseudoperonospora cubensis</i> )			Apply within 7 to 10 days of infection. Repeat as necessary. Do not exceed a total of 6 applications per growing season.
Powdery mildew and other leaf diseases such as <i>Anthraco</i> and <i>Alternaria</i> leaf blight	Foliar spray	2 to 6 tsp. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Bottom soft rot complex	Foliar spray	4 to 5 tsp. Monterey Garden Phos per gallon of water	Apply after fruit set and during bulking 3 times during the growing season.

## FRUITING VEGETABLES

Use Monterey Garden Phos for effective control of damping-off, root rot, and gummy stem blight diseases, bacterial diseases, downy mildew, powdery mildew, and *Alternaria* leaf blight, and for suppression of *Anthraco* in eggplant, tomatoes, tomatillos, and peppers such as, but not limited to, bell, chili, cooking, pimento, and sweet.

Disease	Application Method	Rate	Application Program
Eggplant: <i>Pythium</i> and <i>Phytophthora spp.</i> , and gummy stem blight ( <i>Mycosphaerella melonis</i> )	Foliar spray	Apply 1 fl. oz. Monterey Garden Phos per gallon of water	Entire spray coverage of plant is required. Do not exceed a total of 6 applications per season.  Apply when disease is evident. Continue applications at 21-day intervals until cure is apparent. Do not exceed a total of 6 applications per growing season.
Peppers: Late blight and root rot ( <i>Phytophthora infestans</i> and <i>Phytophthora spp.</i> )		2 tsp. to 2 fl. oz. Monterey Garden Phos per gallon of water	First application at transplant or when direct seeded crops are at 2-4 true leaf, then at one to two week intervals as required to control disease. In high disease situations, use higher rates and shorter spray intervals.
Tomatoes/Tomatillos: Late blight and root rot ( <i>Phytophthora infestans</i> and <i>Phytophthora spp.</i> )		2 tsp. to 2 fl. oz. Monterey Garden Phos per gallon of water  California: 3 tsp. Monterey Garden Phos per gallon of water	First application at transplant or when direct seeded crops are at 2-4 true leaf, then at one to two week intervals as required to control disease. In high disease situations, use higher rates and shorter spray intervals.
Root rot and	Foliar spray	2 to 6 tsp.	Begin application after plants are

damping off ( <i>Phytophthora spp</i> and <i>Pythium spp</i> )	Pre-plant seedling treatment	Monterey Garden Phos per gallon of water 1 tsp. Monterey Garden Phos in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	established and conditions favor disease development. Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Bacterial diseases	Transplant and furrow application	2 to 6 tsp. Monterey Garden Phos at planting or to newly planted seedlings by side dressing	For control of bacterial leaf spot of tomatoes, apply the high rate of Monterey Garden Phos with registered bactericides.
Downy mildew	Foliar spray	2 to 6 tsp. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Powdery mildew	Foliar Spray	2 to 6 tsp. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. High Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Black spot roses		2 to 6 tsp. per gallon or 0.5% solution concentration	Apply when disease present. Spray to runoff.

			applications at 1 to 2 week intervals until flowering. Resume applications in the Fall after harvest. Do not apply more than 4 times per growing season. Wine and Raisin Grapes: Begin applications in the Spring at the 4 to 6 inch shoot stage. Continue applications at 1 to 2 week intervals through flowering. Do not apply more than 4 times per growing season.
Downy mildew	Foliar spray	1/2 to 1 fl. oz. Monterey Garden Phos per gallon of water Monterey Garden Phos is most effectively applied to control downy mildew with mixed with other registered fungicides.	Apply at bud break with additional applications at 7 to 10 day intervals in a rotational program with other registered fungicides. Use the higher rate and volume based on disease severity and density of canopy. Do not apply more than 6 times per growing season.
Powdery mildew	Foliar Spray	2 to 6 tsp. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season. Higher Disease Pressure: Apply higher rate at first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

## HERBS AND SPICES

Use Monterey Garden Phos for effective control of downy mildew, *Phytophthora spp* and *Pythium spp.* diseases of herbs and spices. Apply Monterey Garden Phos to plants such as, but not limited to, anise, balm, basil, chamomile, caraway, catnip, celery, chives, coriander, cumin, curry leaf, dill, fennel, marjoram, mint, nasturtium, rosemary, sage, savory, sweet bay, tarragon, thyme, and wintergreen.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed.

## GRAPES

Use Monterey Garden Phos for effective control of root rot, downy mildew and powdery mildew diseases in grapes.

Disease	Application Method	Rate	Application Program
Downy mildew ( <i>Plasmopara viticola</i> )	Foliar spray	1/2 fl. oz. Monterey Garden Phos per gallon of water	It is essential that the rate of Monterey Garden Phos be adjusted to the vine-row volume, i.e., the volume of vine foliage per acre. Spray timing is critical. Apply Monterey Garden Phos at times of high disease risk, especially between the time that conditions are conducive to downy mildew infection and the appearance of oil spots. Ensure spray coverage is adequate and that the appropriate rate of Monterey Garden Phos is applied to match vine growth, particularly from mid-season onwards, and especially where grapes are grown on root stock.
Phytophthora and Pythium root rots	Foliar spray	1/2 fl. oz. Monterey Garden Phos per gallon of water.	Apply to vines that have stressed root system that can lead to root rots. Mitigating factors such as nematode pressure, water logging, and compaction contribute to vine declines. Table Grapes: Begin application in the Spring at the 4 to 6 inch shoot stage. Continue

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray	1/2 to 1 1/8 fl. oz. Monterey Garden Phos per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora spp.</i> and <i>Pythium spp.</i>	Foliar	2-4 tsp. Monterey Garden Phos per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	1/8 tsp. Monterey Garden Phos per gallon of water	Apply each gallon of solution to an area of 4 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.

## HOPS

Use Monterey Garden Phos for effective control of downy mildew in hops.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray by ground equipment only	2 to 6 tsp. Monterey Garden Phos per gallon of water	When conditions favor disease, apply when A. Shoots are 1/2 to 1 foot long. B. Post-training when vines are 6 feet high.

			C. 21 days post-application (B). D. During bloom.
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## LEAFY VEGETABLES

Use Monterey Garden Phos for effective control of root rot, damping-off, downy mildew, powdery mildew, and other fungal leaf diseases, and for suppression of Anthracnose in leafy vegetables such as, but not limited to, amaranth, arugula, cardoon, celery, chervil, chrysanthemum, corn salad, cress, dandelion, dock, endive, fennel, lettuce, orach, parsley, purslane, radicchio, radish, rhubarb, spinach, and Swiss chard. Excludes Brassica vegetables.

Disease	Application Method	Rate	Application Program
Downy mildew ( <i>Bremia lactucae</i> )	Foliar spray	1 2/3 fl. oz. Monterey Garden Phos per gallon of water	Ensure spray coverage is adequate to wet the whole plant. During warm, wet conditions repeat application at 7 to 10 day intervals, if needed.
Root rots and damping-off ( <i>Phytophthora</i> and <i>Pythium</i> spp)	Foliar spray  Pre-plant application	1 to 1 1/2 fl. oz. Monterey Garden Phos per gallon of water  2 tsp. Monterey Garden Phos in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Powdery mildew and leaf diseases such as Anthracnose ( <i>Collectotrichum</i> spp.), leaf blights ( <i>Septoria</i> and <i>Cercospora</i> spp.), and bacterial rots ( <i>Erwinia</i> spp.)	Foliar spray	1 1/2 to 2 fl. oz. Monterey Garden Phos per gallon of water	

## LEGUMES

Use Monterey Garden Phos for effective control of damping-off, root rot, *Fusarium*, *Rhizoctonia*, downy mildew, powdery mildew, and other fungal diseases, and for suppression of Anthracnose in legumes (succulent and dried) such as, but not limited to, green beans, soybeans, wax beans, field beans, navy beans, lima beans, fava beans, kidney beans, pinto beans, mung beans, broad beans, lentils, chickpeas, English peas, snow peas, sugar snap peas, black-eyed peas, cow peas, and pigeon peas.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar spray	2 tsp. to 2 fl. oz. Monterey Garden Phos per gallon of water.	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
<i>Phytophthora</i> and <i>Pythium</i> spp.  <i>Fusarium</i> and <i>Rhizoctonia</i>	Foliar spray  Pre-plant application	2 to 6 tsp. Monterey Garden Phos per gallon of water  2 tsp. Monterey Garden Phos in 1 gallon of water to plants in seedling trays 1 to 7 days prior to out planting	Apply at crop emergence or during periods of crop stress caused by Summer Stress Syndrome or wet conditions that favor disease development.  Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Downy mildew	Foliar spray	1 to 2 fl. oz. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of the disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per growing

			season.  High Disease Pressure: Apply higher rate at the first onset of disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per growing season.
Powdery mildew and leaf diseases such as Anthracnose ( <i>Collectotrichum</i> spp.), leaf blights ( <i>Septoria</i> and <i>Cercospora</i> spp.), and bacterial rots ( <i>Erwinia</i> spp)	Foliar spray	2 tsp. to 6 tsp. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1-2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at the first onset of disease. Repeat applications at 7-10 day intervals. Do not apply more than 6 times per growing season.

## MANGOS

Use Monterey Garden Phos for effective control of anthracnose in mangos.

Disease	Application Method	Rate	Application Program
Anthracnose ( <i>Colletotrichum gloeosporoides</i> )	Foliar spray	2 tsp. Monterey Garden Phos per gallon of water	Spray tree every 14 days during blossom period, then monthly until harvest. Spray to the point of runoff.

## MISCELLANEOUS CROPS

Use Monterey Garden Phos for effective control of damping-off, root rot, downy mildew, powdery mildew, and other bacterial diseases in coffee, okra, papaya, and persimmon.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp.  Bacterial leaf diseases such as coffee berry disease ( <i>Collectotrichum</i> spp.), Anthracnose ( <i>Colletotrichum</i> spp.), and various leaf spots ( <i>Septoria</i> and <i>Cercospora</i> spp.)	Foliar spray  Root dip	2 to 4 tsp. Monterey Garden Phos per gallon of water  Mix a 0.25% v/v solution (1/3 fl. oz. Monterey Garden Phos with 1 gallon of water)	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.  Apply as pre-plant dip to transplants immediately prior to planting. Dip plants momentarily and plant within 48 hours. Mix a fresh solution daily.
Downy mildew	Foliar spray	2 to 6 tsp. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at the first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Powdery mildew	Foliar spray	2 to 6 tsp. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply lower rate at first onset of disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at the first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

<i>Pseudomonas garcae</i>	Foliar spray Ground	Mix a 0.50% v/v solution (4 tsp. Monterey Garden Phos per gallon of water)	Apply prior to onset of disease. Apply spray to saturation or runoff.
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## OKRA

Use Monterey Garden Phos for effective control of damping-off and root rot diseases in okra.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar spray	2 tsp. to 2 fl. oz. Monterey Garden Phos per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.

## ONIONS

Use Monterey Garden Phos for effective control of downy mildew disease in onions, garlic, shallots, and leeks. Use as a preventative control program for best results.

Disease	Application Method	Rate	Application Program
Downy mildew ( <i>Peronospora destructor</i> )	Foliar spray	4 tsp. Monterey Garden Phos per gallon of water	As a regular preventative control program or when disease first appears.

## PEANUTS

Use Monterey Garden Phos for effective control of damping-off and root rot disease and for suppression of Anthracnose in peanuts.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp.	Foliar spray	2 tsp. to 2 fl. oz. Monterey Garden Phos per gallon of water	Apply at 14-day intervals, as necessary. Ensure thorough coverage.
Root rots, pod rots, damping-off, wilt ( <i>Phytophthora</i> and <i>Pythium</i> spp.)	Foliar spray	4 to 5 tsp. Monterey Garden Phos per gallon of water	Begin application after plants are established and conditions favor disease development. Low Disease Pressure: Apply lower rate at 1 to 2 week intervals. Do not apply more than 6 times per growing season.
Leaf and crown diseases, Anthracnose ( <i>Collectothricum</i> )	Transplant and furrow application	3 to 6 tsp. Monterey Garden Phos at planting or to newly planted seedlings by side dressing	High Disease Pressure: Apply higher rate at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

## PINEAPPLES

Use Monterey Garden Phos for effective control of *Phytophthora* root and heart rot diseases in pineapples.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> root and heart rot ( <i>Phytophthora cinnamomi</i> and <i>parasitica</i> spp.)	Foliar spray	1 2/3 to 3 1/3 fl. oz. Monterey Garden Phos per gallon of water	Apply to tops, 14 days prior to harvest of planting material.  Established plantings when conditions favor disease. Apply at 90 day intervals.
	Pre-plant dip	2 tsp. Monterey Garden Phos per gallon of water	Ensure thorough coverage of plants.
	Foliar spray	2/3 fl. oz. Monterey Garden Phos per gallon of water	

## ROOT AND TUBER VEGETABLES

Use Monterey Garden Phos for effective control of foliar and root rot in ginseng, damping-off and root rot diseases in carrots, and late blight disease and storage diseases such as pink rot and *Pythium* leak, and downy mildew in potatoes, sweet potatoes, and yams.

Disease	Application Method	Rate	Application Program
<i>Ginseng: Foliar and root rot (Phytophthora cactorum)</i>	Foliar spray	4 1/2 tsp. Monterey Garden Phos per gallon of water	In cool wet conditions that favor <i>Phytophthora</i> , apply at 7 day intervals.  Do not exceed a total of 8 applications per season.
<i>Carrots: Phytophthora and Pythium</i> spp.	Foliar spray	2 tsp. to 2 fl. oz. Monterey Garden Phos per gallon of water	Apply at 14-day intervals after plant emergence, as needed. Assure good coverage.
<i>Potatoes, Sweet Potatoes, Yams: Pink rot and Pythium leak (Phytophthora erythrospica and Pythium spp.)</i>	In-furrow spray	2 tsp. to 6 tsp. Monterey Garden Phos per gallon of water	Apply in a band spray directly over top of potato seed just before row is closed.
<i>Potatoes, Sweet Potatoes, Yams: Late blight, Pink rot and Pythium leak (Phytophthora infestans, Phytophthora erythrospica and Pythium spp)</i>	Foliar spray	2/3 to 3 tsp. Monterey Garden Phos per gallon of water	Apply at 5 to 14 day intervals subject to disease incidence.
<i>Downy mildew</i>	Foliar spray	1 to 2 fl. oz. Monterey Garden Phos per gallon of water	Low Disease Pressure: Apply the lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at the first onset of the disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.

## STONE FRUIT

Use Monterey Garden Phos for effective control of root, collar rot and almond pruning wound, and various canker disease in stone fruit such as, but not limited to, apricots, sweet and tart cherries, nectarines, peaches, plums and fresh prunes.

Disease	Application Method	Rate	Application Program
Root and collar rot ( <i>Phytophthora</i> spp.)	Foliar spray	1/3 fl. oz. Monterey Garden Phos per gallon of water	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post harvest
	Basal bark spray. Apply spring and fall for best results.	16 fl. oz. Monterey Garden Phos + 16 fl. oz. of water + 1 fl. oz. Penetra-Bark™ Bark Penetrating Surfactant	Spray a combination of Monterey Garden Phos and Penetra-Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)
Almond pruning – wound cankers ( <i>Phytophthora syringae</i> )	Paint or spray	1/3 to 3/4 fl. oz. Monterey Garden Phos per gallon of water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet. In high disease situations use higher rate.

## STRAWBERRIES

Use Monterey Garden Phos for effective control of leather rot, red stele and Phytophthora, foliar and bacterial disease in strawberries and suppression of powdery mildew.

Disease	Application Method	Rate	Application Program
Phytophthora and Pythium spp. (red stele, leather rot, and root rot)  Suppression of Rhizoctonia	Pre-planting dip	1/3 fl. oz. Monterey Garden Phos per gallon of water	Dip planting material in this solution for 30 minutes, then plant within one day. Use program for annual and perennial varieties.
	Foliar spray	2 to 6 tsp. Monterey Garden Phos per gallon of water	Annual crops, first treatment 14 to 21 days post planting, repeat at 1-2 month intervals when disease is evident.  Perennial crops, first treatment during spring growth flush, repeat at 1-2 month intervals when disease is evident. For susceptible varieties, use higher rates and shorter spray intervals.
	Transplant and furrow application	3 tsp. Monterey Garden Phos at planting or to newly planted seedlings by side dressing	For leather rot, apply at 10% bloom and early fruit set, then 1 to 2 week intervals as required for disease control. In high disease situations, use higher rate and shorter spray intervals.  Gray mold and Anthracnose suppression using Monterey Garden Phos requires use of high application rates and is most effective when tank mixed with other registered fungicides.
Phytophthora spp.	Dip	Mix a 0.25% v/v solution (1/3 fl. oz. Monterey Garden Phos with 1 gallon of water)	Dip runners in the solution for 1 to 2 minutes. Plant within 48 hours. Mix a fresh solution daily.
Suppression of powdery mildew	Foliar spray	1 to 1 1/2 fl. oz. Monterey Garden Phos per 1 gallon of water	Low Disease Pressure: Apply lower rate at the first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at the first onset of the disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
Red stele (Phytophthora fragariae)	Pre-planting dip	1/3 fl. oz. Monterey Garden Phos per gallon of water	Dip planting material in this solution for 30 minutes, then plant within one day. Use program for annual and perennial varieties.
	Foliar spray	2 to 6 tsp. Monterey Garden Phos per gallon of water  2 to 3 tsp. Monterey Garden Phos per gallon of water (CA only)	Annual crops, first treatment 14 to 21 days post planting, repeat at 1-2 month intervals when disease is evident.  Perennial crops, first treatment during spring growth flush, repeat at 1-2 month intervals when disease is evident. For susceptible varieties use higher rates and shorter spray intervals.
Leather rot (Phytophthora cactorum)	Foliar spray	2 to 6 tsp. Monterey Garden Phos per gallon of water  2 to 3 tsp. Monterey Garden Phos per gallon of water (CA only)	Apply at 10% bloom and early fruit set, then at one to two week intervals as required for disease control. In high disease situations use higher rates and shorter spray intervals.

## TREE NUTS

Use Monterey Garden Phos for effective control of root and collar rot, and almond pruning-wound canker disease in tree nuts such as, but not limited to, almonds, beech nuts, Brazil nuts, butternuts, cashews, chestnuts, chinquapin, hazelnuts, hickory nuts, macadamia nuts, pecans, pistachios, and walnuts.

Disease	Application Method	Rate	Application Program
Other than macadamia nuts: Root and collar rot (Phytophthora spp.)	Foliar	2 tsp. Monterey Garden Phos per gallon of water	Three treatments are required 1. Spring 2. Mid summer 3. Fall, post harvest
Other than macadamia nuts: Almond pruning – wound canker (Phytophthora syringae)	Paint or spray	4 1/2 tsp. Monterey Garden Phos per gallon of water	Apply to pruning wound and surrounding area, ensure area is thoroughly wet.
Macadamia nuts: Raceme blight (Phytophthora spp.)	Foliar spray	3 tsp. Monterey Garden Phos per gallon of water	Apply when disease is first seen and reapply at 3 week intervals. Spray to the point of run-off.
Root rot, crown rot, trunk cankers, foliar blights (Phytophthora and Pythium spp.)	Foliar spray	4 to 5 tsp. Monterey Garden Phos per gallon of water	Begin application after plants are established and conditions favor disease development.  Low Disease Pressure: Apply lower rate at 3 month intervals. Do not apply more than 4 times per growing season.  High Disease Pressure: Apply higher rate at monthly intervals. Do not apply more than 4 times per growing season.
Foliar bacterial and fungal disease, Anthracnose (Collectotrichum), hull rot (Monilia spp.), flower diseases (Cladosporium spp.), Alternaria leaf spots (Alternaria spp.), and raceme blight (Phytophthora) in Macadamia	Root dip	Mix a 0.5% v/v solution (4 tsp. Monterey Garden Phos in 1 gallon of water)	Dip roots in the solution for 30 seconds. Plant within 48 hours. Mix a fresh solution daily.
Pecan scab	Foliar spray	1 1/2 fl. oz. Monterey Garden Phos per gallon of water	Apply preventatively at 21 to 30 day intervals.
Downy mildew (Phytophthora and Peronospora spp)  Powdery mildew	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon water	Low Disease Pressure: Apply lower rate at first onset of the disease. Repeat applications at 1 to 2 week intervals. Do not apply more than 6 times per growing season.  High Disease Pressure: Apply higher rate at the first onset of disease. Repeat applications at 7 to 10 day intervals. Do not apply more than 6 times per growing season.
1000 Cankers of Walnut, Geosmithia morbida on both Black and English Walnut	Foliar spray	2 to 4 tsp. per gallon of water until run-off	Spray every 60 days from spring through fall. Use in combination with an insecticide that controls Walnut Twig Beetle, Pityophthorus juglandis: maximum treatment 6 times per year.

## LANDSCAPE APPLICATIONS

Use Monterey Garden Phos for effective control of Phytophthora and Pythium spp. and other diseases associated with Sudden Oak Death, Beech Decline, and general tree decline syndromes, and for suppression of Anthracnose and Verticillium wilt. Apply Monterey Garden Phos to trees such as, but not limited to, Ash, Azalea, Beech, Black Locust, Buckeye, Catalpa, Cedar, Cherry-Stonefruits, Chestnut, Coffee Tree, Crab Apple, Cork Tree, Dogwood-All, Elm, Fir, Hawthorne, Honey Locust, Juniper, Lilac, Linden, Magnolia, Maples-All, Pine,

Oaks-All (Coastal, Live, Shreve, Black, Canyon), Olives, Ornamental Pear, Plum, Pyracantha, Redbud, Smoke Tree, Sumac, Sweet Birch, Sweet Gum, Sycamore, Viburnum, White Pine, White Cedar, and Willow.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label or tree injury may occur. Do not apply to trees that are heat or moisture stressed. Do not apply to trees that are in a state of dormancy. Do not exceed indicated spray intervals or label rates in order to avoid tree injury.

Disease	Application Method	Rate	Application Program
<i>Phytophthora</i> and <i>Pythium</i> spp., and <i>Phytophthora ramorum</i>	Injection	11 fl. oz. Monterey Garden Phos per 21 fl. oz. of water or ½ tsp. Monterey Garden Phos per tsp. of water	Drill holes 3/16 inch (5 mm) in diameter <u>into live sapwood</u> (depth dependent upon age of tree) with downward angle into trunk uniformly around the tree circumference, using a slow drill. Do not inject into areas of obvious decay, canker or mechanical injury that appear on the tree trunk. Calculate the amount of product required by measuring the trees by one of the following 3 methods, and use the highest calculated number of injections. 1) 1 injection per square yard of canopy; 2) 1 injection per yard of diameter of canopy measured at the dripline; 3) 1 injection per 6 inches of tree circumference measured 4 feet above soil level. Make injections with applicators that maintain positive pressure differential such as ChemJet®, Sidewinder®, Ag-murph Gun®, Marley® Injector, Smart Shot Injector, or hydraulic applicator type equipment that forces solution into the sapwood of the tree.
	Basal bark spray (all other tree species). Apply Spring and Fall for best results or anytime active growth occurs. Best for thin bark trees such as maples, lindens, sycamores, and dogwoods.	16 fl. oz. Monterey Garden Phos + 16 fl. oz. of water + 1.6 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used, such as hydraulic sprayers, handheld pump-type sprayers, and backpack sprayers.
<i>Fusarium subglutinans</i> (Pine pitch canker)	Basal bark spray (Pine)	16 fl. oz. Monterey Garden Phos + 32 fl. oz. water + 0.5 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant	Spray a combination of Monterey Garden Phos and Pentra Bark™ around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. (Treatment generally lasts 8-12 weeks depending on pathogen levels. Higher disease pressure will shorten the length of control.)
<i>Fusarium subglutinans</i> (Pine pitch canker) and <i>Gnomonia platani</i> (Sycamore Anthracnose)	Injection	20 ml per tree of a 16 fl. oz. Monterey Garden Phos + 32 fl. oz. of water + 0.5 fl. oz. of Pentra-Bark™ Bark Penetrating Surfactant solution	Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murph gun, Smart Shot or hydraulic tree injection. Trees should be at least 10" diameter at breast height.

Apple black spot and scab ( <i>Venturia inaequalis</i> ) and suppression of Anthracnose	Basal bark spray; apply in early Spring at bud swell or silver tip stage of growth	16 fl. oz. Monterey Garden Phos + 16 fl. oz. of water + 1 fl. oz. Pentra-Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Can be used as a preventative or curative application for trees listed. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, backpack sprayers, hose-end applicators with backflow prevention devices, and other similar application devices. For severe infestation of Anthracnose, make a Fall (at leaf senescence) and Spring (bud swell to green tip) application for large trees.
Fire blight	Foliar spray	Use 2-3 tsp. per gallon of water	
Suppression of Anthracnose	Foliar spray	3-4 tsp. Monterey Garden Phos per gallon of water	Apply at pre-bloom (bud swell or green tip stage) with a supplemental application 14 days later with Monterey Garden Phos or other fungicide compound with efficacy on Anthracnose.
Suppression of Anthracnose	Basal bark spray, apply early spring at bud swell until green tip stage of growth	16 fl. oz. Monterey Garden Phos + 16 fl. oz. of water + 1 fl. oz. Pentra-Bark Bark Penetrating Surfactant	Spray a combination of Monterey Garden Phos and Pentra-Bark around the complete circumference of the tree trunk until saturation/runoff. Spray from ground level up to 5 feet above the soil line, including the base of the first scaffolding limbs, if present. For large trees larger than 18 inches DBH (Diameter at Breast Height, 4.5 feet above ground) that have been previously attacked by Anthracnose, make a Fall application prior to leaf senescence and a Spring application for best results. For trees less than 18 inches DBH, make an early Spring application.
Suppression of Verticillium wilt	Foliar spray	3-4 tsp. Monterey Garden Phos per gallon of water	For trees previously identified with infections apply first application pre-bloom. Repeat applications between 21 to 30 days.

## ORNAMENTAL APPLICATIONS

Use Monterey Garden Phos for effective control of Bacterial blight, Downy mildew, Powdery mildew *Phytophthora* spp. (root rot) and *Pythium* spp. (damping-off) diseases, and Sudden Oak Death and for suppression of Anthracnose of ornamentals in landscapes and interiorscapes. Apply Monterey Garden Phos to plants such as, but not limited to, Aglaonema, Aphelandra, Arbovitae, Azaleas, Bougainvillea, Boxwood, Cattelya skinneri, Ceanothus, Cotoneaster, Cissus, Diffenbachia, English ivy, Eucalyptus, Ficus, Hibiscus, Japanese andromeda, Japanese Holly, Leather Leaf Fern, Peperomia, Photinia, Pittosporum, Philodendron, Pieris, Pothos, Rhododendron, Roses (container, landscape, mini varieties), Schefflera, Sedum, Sempervivum, Syngonium, Spathiphyllum, Taxus media, and Zygocactus.

Make applications before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. Do not apply to plants that are in a state of dormancy. When applying to indoor plants do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bring back indoors.

Disease	Application Method	Rate	Application Program
Bacterial blight ( <i>Xanthomonas campestris</i> ) pothovars: <i>diffenbachiae</i> , <i>fici hederiae</i> and <i>syngonli</i>	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 7 to 14 days. Repeat as required.



Black spot ( <i>Dioplocarpon spp.</i> )	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon of water	Apply uniformly to foliage preventatively or at first sign of disease.
Downy mildew	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon of water	Apply uniformly to foliage at disease onset and repeat applications every 14 days. Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora spp.</i> (root rot), <i>Phytophthora ramorum</i> , and <i>Pythium spp.</i> (damping-off)	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon of water	Apply uniformly to foliage to point of runoff. Apply spray to thoroughly wet all foliage. Application intervals: 14-21 days. Repeat as required.
	Soil drench	Mix a 0.5% to 1.0% v/v solution  (1/2 to 6 1/2 fl. oz. Monterey Garden Phos in 1 to 5 gallons of water) 1/8 tsp. per gallon of water	Apply uniformly to soil at base of plant and surrounding soil. Apply each 25 gallons of solution to an area of 100 sq. feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
	Soil incorporation	1 pint Monterey Garden Phos per cubic yard of soil	Just prior to potting mix 1 pint of Monterey Garden Phos into each cubic yard of growing media. If disease pressure is high, make application by foliar spray or soil drench.
	Bare rooted dipping of transplants	2 tsp. Monterey Garden Phos per gallon of water	Immediately before transplanting, dip transplants for two minutes. Keep roots submerged, ensure root mass is thoroughly wet.
Powdery mildew	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon of water	Apply uniformly to foliage at disease onset and repeat applications every 14 days.
Suppression of Anthracnose	Foliar spray	1 1/2 fl. oz. Monterey Garden Phos per gallon of water	Apply prior to onset of disease. Apply spray to saturation or runoff.

## RESIDENTIAL NURSERY, GREENHOUSE, AND BEDDING PLANTS

Use Monterey Garden Phos for effective control of Downy mildew, Phytophthora spp. (root rot) and Pythium spp. (damping-off) diseases of bedding plants outdoors and in interiorscapes. Apply Monterey Garden Phos to plants such as, but not limited to, Ageratum, Aglaonema, Algerian Ivy, Anthurium, Aphelandra, Arborvitae, Artemesia, Aster, Azaleas, Begonia, Baby's Breath, Bougainvillea, Boxwood, Caladium, Carnation, Cattelya Skinneri, Ceanothus, Cissys, Chrysanthemum, Columbine, Coleus, Cotoneaster, Daisy, Delphinium, Dffenbachia, Dogwood, Easter Lily, English Ivy, Ficus, Foxglove, Gaillardia, Geranium, Gloxinia, Hibiscus, Impatiens, Japanese Holly, Juniper, Lavender, Leather Leaf Fern, Marigold, Monterey Pink, Pieris, Peperomia, Petunia, Pansy, Philodendrum, Phlox, Pinks, Pittosporum, Poinsettia, Pothos, Primrose, Prostrate Rosemary, Rosemary, Salvia, Schefflera, Sedum, Sempervivum, Snapdragon, Spathiphyllum, Taxus Media, Verbena, Vinca, White Cedar, White Pine, Zinnia, and Zygocactus. Monterey Garden Phos may also be used for Vegetable Transplants grown in Greenhouse, Lathouse, or Shade house sites.

Make applications to outdoor or indoor plants before disease development and in conjunction with good cultural management practices. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to plants that are heat or moisture stressed. When applying to indoor plants do not overspray and use care to apply only to target plants. If meeting these conditions is not possible, remove plants to an outdoor location for treatment and drying before bringing back indoors.

Disease	Application Method	Rate	Application Program
Downy mildew	Foliar spray	1/2 to 1 1/8 fl. oz. Monterey Garden Phos per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
<i>Phytophthora spp.</i> (root rot) and <i>Pythium spp.</i> (damping-off)	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required. Note: Do not apply more than 11.5 gals. of spray solution per 1,000 sq. ft.
	Soil drench	1/8 tsp. Monterey Garden Phos per gallon of water	Apply each gallon of solution to an area of 4 square feet. Follow application with irrigation. Repeat as required. Limit of one application per month.
<i>Phytophthora spp.*</i> (root rot)	Foliar spray	1/4 tsp. Monterey Garden Phos per 100 sq. ft.	Apply spray in 20-60 gallons. 1 pint of water per 100 sq. ft.

\*Lavender applications.

## CONIFERS

Apply Monterey Garden Phos in conjunction with good cultural management practices for effective control of root rot (*Phytophthora spp.*) in conifers including, but not limited to, Pines, Spruce, and Douglas Fir. Use higher rate of application when disease pressure is severe. Do not exceed indicated application rates or apply more frequently than stated on label in order to avoid plant injury. Do not apply to conifers that are moisture or heat stressed.

Disease	Application Method	Rate	Application Program
<i>Phytophthora spp.</i>	Foliar spray	2 to 4 tsp. Monterey Garden Phos per gallon of water	Apply spray to thoroughly wet all foliage. Application intervals: 14 to 21 days. Repeat as required.
	Soil drench	2 to 4 tsp. Monterey Garden Phos per gallon of water	Apply one gallon of solution per sq. yd. Follow application with irrigation. Application intervals: 14 to 21 days. Repeat as required.
	Bare root dipping at transplanting	2 tsp. Monterey Garden Phos per gallon of water	Immediately before transplanting, dip transplants for two minutes; keep roots submerged and ensure root mass is thoroughly wet.
<i>Fusarium subglutinans</i> (pine pitch canker)	Basal bark spray. Apply any time active growth occurs	16 fl. oz. Monterey Garden Phos + 32 fl. oz. of water + 0.5 fl. oz. of Pentra- Bark™ Bark Penetrating Surfactant	Apply uniformly to 6-9 feet of trunk circumference. Spray from top down to ground level from either first branch or from as high as possible without exposing applicator to drift. Spray to saturation/runoff. Various types of application equipment can be used such as hydraulic sprayers, handheld pump-type sprayers, and backpack sprayers.
<i>Fusarium subglutinans</i> (pine pitch canker)	Injection	20 ml per tree of a 16 fl. oz. Monterey Garden Phos + 32 fl. oz. of water + 0.5 fl. oz. of Pentra- Bark™ Bark Penetrating Surfactant solution	Drill holes 3/16 inch (5 mm) in diameter and 1 inch (25 mm) to 2 inches (50 mm) deep with slight downward angle in trunk. Place syringes in the main trunk of the tree and space evenly around the circumference of the trunk. Suitable for use with Chemjet tree injectors, Ag-murf gun, or hydraulic tree injection. Trees should be at least 10" diameter at breast height.

## HOME LAWNS

Use Monterey Garden Phos for effective control of Rhizoctonia, Pythium and damping-off diseases and for suppression of Anthracnose of lawn grasses. When conditions favor disease, begin preventative applications and repeat at indicated intervals. Use higher rate of application when disease pressure is severe.

Disease	Application Method	Rate	Application Program
Pythium	Foliar spray	5 to 10 fl. oz. Monterey Garden Phos per 1,000 sq. ft.	Apply indicated quantity of product in 1 to 5 gallons of water per 1,000 sq. ft. Ensure foliage is thoroughly wet. Application intervals: 14 to 21 days. Repeat as required. Do not irrigate or mow treated areas until spray has completely dried.
Suppression of Anthracnose	Foliar spray	5 to 10 fl. oz. Monterey Garden Phos per 1,000 sq. ft.	Apply indicated quantity of product in 5 gallons of water per 1,000 sq. ft. Ensure foliage is thoroughly wet. Apply prior to onset of disease. Apply every 7 to 14 days in a fungicide rotational program. Do not irrigate or mow treated areas until spray has completely dried.
Rhizoctonia	Foliar spray	5 to 10 fl. oz. Monterey Garden Phos per 1,000 sq. ft.	Apply prior to onset of disease. Apply every 7 to 14 days.

Do not graze animals on treated areas of lawn. Do not feed treated lawn clippings to poultry or livestock.

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

### PESTICIDE STORAGE:

Keep this product in containers stored upright and secured with the original closure. Do not store this product near any heat source. Do not store near strong oxidants. If transfer to another container becomes necessary, ensure that the container is clearly labeled, the container is a type suitable for the product, and is clean and free of other materials.

### CONTAINER DISPOSAL:

Nonrefillable container. Do not reuse or refill this container. Offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

## WARRANTY AND DISCLAIMER

To the extent permitted by applicable law, all conditions and warranties and statutory or other rights of action which buyer or any other user may have against Lawn and Garden Products, Inc. are hereby excluded. To the extent permitted by applicable law, Lawn and Garden Products, Inc. hereby gives notice to buyer and other users that it will not accept responsibility for any indirect or consequential loss arising from reliance on product information provided by Lawn and Garden Products, Inc. or on its behalf unless it is established that such information or advice was provided negligently and that the product has been used strictly as directed. To the extent permitted by applicable law, Lawn and Garden Products, Inc.'s liability shall in all circumstances be limited to replacement of product or a refund of the purchase price thereof.

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