<table>
<thead>
<tr>
<th>Botrytis</th>
<th>Downy Mildew</th>
</tr>
</thead>
<tbody>
<tr>
<td>Botrytis sporulation on Geranium</td>
<td>Botrytis on Oregano</td>
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<table>
<thead>
<tr>
<th>Cercospora</th>
<th>Fusarium</th>
<th>Pythium</th>
<th>Bacterial Blight/Speck</th>
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<tr>
<td>Cercospora on Ligustrum</td>
<td>Fusarium on Mum</td>
<td>Pythium on Poinsettia</td>
<td>Bacterial Speck on tomato - Pseudomonas</td>
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<p>| Xanthomonas | |
|-------------||
| Xanthomonas on Geranium | Pythium on Pansy |</p>
<table>
<thead>
<tr>
<th>Entomosporium</th>
<th>Phytophthora</th>
<th>Leaf Spots</th>
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<tr>
<td><img src="image1" alt="Entomosporium" /></td>
<td><img src="image2" alt="Phytophthora" /></td>
<td><img src="image3" alt="Septoria" /></td>
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<tr>
<td>Entomosporium on Raphiolepis</td>
<td>Phytophthora on Lily</td>
<td>Septoria on Rudbeckia</td>
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<table>
<thead>
<tr>
<th>Alternaria</th>
<th>Powdery Mildew</th>
<th>Rust</th>
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<tr>
<td><img src="image4" alt="Alternaria" /></td>
<td><img src="image5" alt="Powdery Mildew" /></td>
<td><img src="image6" alt="Rust" /></td>
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<tr>
<td>Alternaria on Poinsettia</td>
<td>Powdery Mildew on Oregano</td>
<td>Rust on Daylily</td>
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<table>
<thead>
<tr>
<th>Anthracnose</th>
<th>Rhizoctonia</th>
<th>Hosta Virus X</th>
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<tr>
<td><img src="image7" alt="Anthracnose" /></td>
<td><img src="image8" alt="Rhizoctonia" /></td>
<td><img src="image9" alt="Hosta Virus X" /></td>
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<tr>
<td>Anthracnose on Hydrangea</td>
<td>Rhizoctonia on Fern</td>
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<table>
<thead>
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<tbody>
<tr>
<td><img src="image10" alt="Xanthomonas" /></td>
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<tr>
<td>Xanthomonas on Lavender</td>
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<table>
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<tr>
<th>Rust and Anthracnose on Rose</th>
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</table>
RESISTANCE MANAGEMENT: Use the following chart to develop a resistance management strategy. ✓ = labeled

As with other pesticides, fungicides must be used in a program to avoid or delay resistance. Do not rely on products with the same mode of action. Rotation of products with different modes of action, and using product combinations with different modes of action are parts of a resistance management strategy. Be especially careful when using products

| TRADE NAME | Areca® | Astun® | Kalmor™ | OHP Chipco® 26019 | OHP 6672® | Segway® | OHP 6672®
|------------|--------|--------|---------|-------------------|----------|---------|----------
| CLASS      | Phosphonate | SDHI | Inorganic | Dicarboximide | Benzimidazoles | Cyano-imidazole |
| MOA        | P 07 | 7 | M 01 | 2 | 1 | 21 |
| PATHOGEN   |        |        |        |        |        |        |        |
| Alternaria | ✓      | ✓      | ✓      | ✓      | ✓      | ✓      |
| Anthracose | ✓      | ✓      | ✓      | ✓      | ✓      | ✓      |
| Bacterial Blight/Speck | ✓ | ✓ |
| Black Spot | ✓      | ✓      | ✓      | ✓      | ✓      | ✓      |
| Botrytis   | ✓      | ✓      | ✓      | ✓      | ✓      | ✓      |
| Botrytis Storage Rot | ✓ |
| Bulb Rot / Crown Rot | ✓ |
| Cercospora Leaf Spot | ✓ |
| Cylindrocladium | ✓ | ✓ | ✓ |
| Downy Mildew | ✓ | ✓ | ✓ | ✓ |
| Entomosporium Leaf Spot | ✓ | ✓ |
| Fusarium | ✓ | ✓ | ✓ | ✓ |
| Leaf Spot | ✓ | ✓ | ✓ | ✓ |
| Myrothecium Leaf Spot | ✓ | ✓ |
| Ovulinia Flower Blight | ✓ |
| Phyllosticta Leaf Spot | ✓ |
| Phytophthora Root Rot | ✓ | ✓ | ✓ |
| Phytophthora Aerial | ✓ | ✓ | ✓ | ✓ |
| Powdery Mildew | ✓ | ✓ |
| Pythium | ✓ | ✓ | ✓ | ✓ |
| Rhizoctonia | ✓ | ✓ | ✓ | ✓ |
| Rust | ✓ |
| Scab | ✓ | ✓ |
| Sclerotinia | ✓ | ✓ |
| Septoria Leaf Spot | ✓ | ✓ |
| Thielaviopsis | ✓ | ✓ |
| Tip Blight | ✓ |

*Read label directions and cautions before use.*
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considered to be high risk for resistance development. Most fungicides work more effectively to prevent disease from becoming established, rather than eradicating disease that is already present. Constant monitoring – and modification where possible – of environmental conditions and scouting crops for signs of disease symptoms are vital parts of effective fungicide use and resistance management.

<table>
<thead>
<tr>
<th>TRADE NAME</th>
<th>CLASS</th>
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<tbody>
<tr>
<td>Areca</td>
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<td>OHP Chipco</td>
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<td>26019</td>
<td>Benzimidazoles</td>
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<tr>
<td>OHP 6672</td>
<td>Cyanoimidazole</td>
</tr>
<tr>
<td>Segway</td>
<td>Aromatic Hydrocarbons</td>
</tr>
<tr>
<td>Terraclor</td>
<td>Aromatic Hydrocarbons</td>
</tr>
<tr>
<td>Terrazole®</td>
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<td>Terrazole® 35% WP</td>
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<tr>
<td>Terrazole® L</td>
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<tr>
<td>Terrazole® LCA</td>
<td>Aromatic Hydrocarbons</td>
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<tr>
<td>Triact® 70</td>
<td>Oil</td>
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<tr>
<td>Triathlon® BA</td>
<td>Biopesticide</td>
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<th>Terradol® 400</th>
<th>Terraguard® SC</th>
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<th>Terrazole® LCA</th>
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<td>Septoria Leaf Spot</td>
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</table>

*Read label directions and cautions before use.*
Plant Disease Management

To keep plants healthy and minimize plant problems, production systems and cultural practices must be in place to minimize environmental stress by providing plants with their basic requirements for growth and development in terms of quality and quantity of space, light, air, water and nutrients. Under intense crop production systems and under unfavorable weather conditions, protecting crops from plant diseases may require the application of fungicides, bactericides and other agricultural chemicals. Not all products work against all plant diseases; problem identification is critical in the selection of the right chemical solution.

Plant diseases may cause symptoms in all plant parts. Foliar diseases including leaf spots and blights are the most common and affect leaves and shoots. Diseases may also affect the vascular tissues of the plant, those responsible for water and nutrient uptake or the crown and the roots of the plants. Avoid foliar diseases by restricting overhead irrigation to the morning hours to allow leaves and shoots to dry up; leaf wetness of 4 to 6 hours may be enough to allow infection by disease-causing microorganisms. Avoid crown and root diseases by allowing soil to dry between irrigation events and avoid over-fertilization. Preventive applications may be required when weather conditions are favorable for disease development in susceptible crops. Consult the table below for conditions that favor common plant diseases, when they typically occur during the year and what OHP products are effective against these diseases.

<table>
<thead>
<tr>
<th>Disease Pathogen</th>
<th>Seasonal timing</th>
<th>Conditions</th>
<th>OHP Product Controls</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bacterial Blight/Speck</td>
<td>summer</td>
<td>72-95 F high humidity over-irrigation</td>
<td>Areca®, Kalmor®, Triathlon® BA</td>
</tr>
<tr>
<td>Botrytis</td>
<td>winter-spring</td>
<td>38-77 F high humidity, cloudy poor air circulation</td>
<td>Astun®, Kalmor®, OHP 6672® OHP Chipco® 26019 Triathlon® BA</td>
</tr>
<tr>
<td>Bulb rot/crown rot</td>
<td>year-round</td>
<td>infected bulbs or liners stress</td>
<td>OHP 6672®, OHP Chipco® 26019 Terrador® 400 Terraguard®</td>
</tr>
<tr>
<td>Downy mildew</td>
<td>year-round depending on plant</td>
<td>high humidity cloudy poor air circulation</td>
<td>Areca®, Kalmor®, Segway® 0 Triathlon® BA</td>
</tr>
<tr>
<td>Fusarium wilt</td>
<td>summer, fall</td>
<td>80 F, stress including flowering</td>
<td>OHP 6672®, OHP Chipco® 26019 Triathlon® BA Terraguard® SC</td>
</tr>
<tr>
<td>Fungal leaf spots</td>
<td>spring through fall</td>
<td>wet leaves moderate temperatures</td>
<td>Kalmor®, OHP 6672®, OHP Chipco® 26019 Terraguard® SC Triathlon® BA</td>
</tr>
<tr>
<td>Powdery mildew</td>
<td>spring and fall</td>
<td>high humidity cool nights and warm days</td>
<td>Kalmor®, Terraguard® SC Triathlon® BA Triact® 70</td>
</tr>
<tr>
<td>Phyllosticta</td>
<td>spring to fall</td>
<td>moderate temperatures wounding stress</td>
<td>OHP 6672®, OHP Chipco® 26019 Terraguard® SC Triathlon® BA</td>
</tr>
<tr>
<td>Phytophthora</td>
<td>summer</td>
<td>wet soils high temperatures overgrown plants</td>
<td>Areca®, Segway® 0 Terrazole®</td>
</tr>
<tr>
<td>Pythium</td>
<td>year-round</td>
<td>wet soils cool temperatures excess soluble salts</td>
<td>Areca®, Segway® 0 Terrazole®</td>
</tr>
<tr>
<td>Rhizoctonia</td>
<td>summer</td>
<td>wet leaves high temperatures</td>
<td>OHP 6672®, OHP Chipco® 26019 Terraguard® SC Triathlon® BA</td>
</tr>
<tr>
<td>Rust</td>
<td>spring and fall</td>
<td>high humidity cool nights and warm days</td>
<td>Kalmor®, Terraguard® SC Triathlon® BA Triact® 70</td>
</tr>
<tr>
<td>Thielaviopsis (Black root rot)</td>
<td>year-round</td>
<td>temperature stress high pH</td>
<td>OHP 6672®, Terraguard® SC</td>
</tr>
<tr>
<td>DISEASE PROBLEM</td>
<td>CROP</td>
<td>OHP SOLUTIONS</td>
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OHP QUICK REFERENCE

**Fungicides** Product Rate Guide

<table>
<thead>
<tr>
<th>OHP Products</th>
<th>Rate per 100 gallons</th>
<th>Rate per 1 gallon</th>
</tr>
</thead>
<tbody>
<tr>
<td>Areca®</td>
<td>1.25, 2.5, 5.0 pounds (567.5, 1135, 2270 g)</td>
<td>1 1/4 tsp, 2 1/2 tsp, 5 tsp (5.7, 11.4, 22.7 g)</td>
</tr>
<tr>
<td>Astun®</td>
<td>10 to 17 fluid ounces (296 to 503 mL)</td>
<td>3 to 5 mL</td>
</tr>
<tr>
<td>Kalmor™</td>
<td>0.5, 1.0, 2.0 lbs. per acre</td>
<td>1 TBS to 1 1/2 TBS per 1,000 sq ft</td>
</tr>
<tr>
<td>Kopa™ Insecticidal Soap</td>
<td>1% (1 gallon) to 2% (2 gallons)</td>
<td>3 1/4 tsp to 7 1/2 tsp to 15 tsp (5 TBS) (19, 38, 76 mL)</td>
</tr>
<tr>
<td>OHP Chipco® 26019</td>
<td>1 to 2 pounds (454 to 908 g)</td>
<td>1 1/2 tsp to 2 1/4 tsp (4.5 to 9.1 g)</td>
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<tr>
<td>OHP 6672® 4.5 F</td>
<td>10.75 to 20 fluid ounces (319.1 to 593.8 mL)</td>
<td>1/2 tsp to 1 1/2 tsp (3.2 to 5.9 mL)</td>
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<tr>
<td>OHP 6672® 50 WP (WSP)</td>
<td>8 to 16 ounces</td>
<td>NA</td>
</tr>
<tr>
<td>Segway® 0</td>
<td>1.5 to 6.0 fluid ounces (44.5 to 178.1 mL)</td>
<td>1/8 tsp to 1/4 tsp (0.4 to 1.8 mL)</td>
</tr>
<tr>
<td>SoilGard® 12G</td>
<td>.5 pounds to 2 pounds (227 to 908 g)</td>
<td>1/8 tsp to 1/4 tsp (2.3 to 9.1 g)</td>
</tr>
<tr>
<td>Terraclor® 400</td>
<td>6 to 12 fluid ounces (178.1 to 356.3 mL)</td>
<td>1/8 tsp to 1/4 tsp (1.8 to 3.6 mL)</td>
</tr>
<tr>
<td>Terraguard® SC</td>
<td>2 to 8 to 16 fluid ounces (59.4, 237.5, 475 mL)</td>
<td>1/8 tsp, 1/4 tsp, 1 tsp (6, 2.4, 4.8 mL)</td>
</tr>
<tr>
<td>Terrazole® L</td>
<td>2.5 to 7 fluid ounces (74.2 to 207.8 mL)</td>
<td>1/8 tsp to 1/4 tsp (.7 to 2.1 mL)</td>
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<tr>
<td>Terrazole® 35% WP</td>
<td>3.5 to 10 ounces (99.3 to 283.8 g)</td>
<td>1/2 tsp to 1 1/2 tsp (1 to 2.8 g)</td>
</tr>
<tr>
<td>Terrazole® L CA</td>
<td>3 to 4 fluid ounces (89.1 to 118.8 mL)</td>
<td>1/8 tsp to 1/4 tsp (.9 to 1.2 mL)</td>
</tr>
<tr>
<td>Triact® 70</td>
<td>1/2 gallon, 1 gallon, 2 gallons (1900, 3800, 7600 mL)</td>
<td>3 1/4 tsp to 7 1/2 tsp to 15 tsp (5 TBS) (19, 38, 76 mL)</td>
</tr>
<tr>
<td>Triathlon® BA</td>
<td>0.5 quarts, 4 quarts, 6 quarts (475, 3800, 5700 mL)</td>
<td>1 tsp, 7 1/4 tsp, 11 1/4 tsp (4.8, 38, 57 mL)</td>
</tr>
</tbody>
</table>

Users should read the entire label for full information and application instructions. If you have any questions contact your local OHP representative.

TBS = tablespoon  tsp = teaspoon  mL = milliliter  g = grams  1 fl oz = 29.6 mL  1 tsp = 5 mL  1 TBS = 15 mL

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