2022 PEST MANAGEMENT GUIDE: DISEASE

Chemical Disease Management

NOTE: THIS CHART IS NOT A SUBSTITUTE FOR READING AND FOLLOWING THE LABEL. It is useless to apply any pesticide for the first time, or in sub-standard applications on plants that are injured or stressed due to poor growing conditions. If a pest or disease is not well controlled, re-examine the basic inputs to the production system and consider making any necessary changes to improve pest management. A pest or disease may be present, but not visible due to the plant's ability to withstand stress. The ultimate goal is good disease and pest management, not a disease or pest-free environment.

The mode of action for Group 3 fungicides is Demethylation Inhibition = DMI. Mixing multiple fungicides from different chemical classes is beneficial. Mixing multiple classes of fungicides in a single spray can provide broader spectrum coverage and increased yield. The mixture of fungicides can reduce the risk of resistance development.

Some fungicide products move locally through leaves and are therefore locally systemic. LOS = Locally Systemic, NS = Not Systemic, S= Systemic.

Fungicides

<table>
<thead>
<tr>
<th>Group*</th>
<th>US* &amp; Toxicity</th>
<th>Fungicide &amp; Brand Name</th>
<th>Mode of Action</th>
<th>Rate</th>
<th>Application</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>S</td>
<td>Boscalid (Sicko); Equus 720 (WeatherStik); Proline 480</td>
<td>DMI, LOS</td>
<td>2-4 qt</td>
<td>Pre-bloom</td>
<td>Apply at green tip when &gt;30% stems have blossoms at crown</td>
</tr>
<tr>
<td>5</td>
<td>A</td>
<td>Quash</td>
<td>DMI, LOS</td>
<td>2-4 qt</td>
<td>Pre-bloom</td>
<td>Apply at green tip when &gt;30% stems have blossoms at crown</td>
</tr>
<tr>
<td>6</td>
<td>A</td>
<td>Prohexadione-Ca (Auron); Bladex (Rev.)</td>
<td>DMI, LOS</td>
<td>2-4 qt</td>
<td>Pre-bloom</td>
<td>Apply at green tip when &gt;30% stems have blossoms at crown</td>
</tr>
<tr>
<td>7</td>
<td>A</td>
<td>Aprovia</td>
<td>DMI, LOS</td>
<td>2-4 qt</td>
<td>Pre-bloom</td>
<td>Apply at green tip when &gt;30% stems have blossoms at crown</td>
</tr>
<tr>
<td>9</td>
<td>A</td>
<td>Propiconazole (Folicur)</td>
<td>DMI, LOS</td>
<td>2-4 qt</td>
<td>Pre-bloom</td>
<td>Apply at green tip when &gt;30% stems have blossoms at crown</td>
</tr>
</tbody>
</table>

*Please note: This revised version replaces any previous charts.

*To reduce the likelihood of fungicide resistance development and yield loss for the grower, it is recommended not to rotate to a fungicide with the same mode of action for 2 applications.

Fungicide application recommendations are based on the grower's needs and the grower's system. Growers should review the label and application rates for each fungicide before use. Fungicide selection should be based on the pest or disease control needs, the grower's system, and the grower's financial situation.

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Mummy Berry, Alternaria vaccinii-corymbae

Matching with material in a depth of 2 to 3" before crop emergence is required. Avoid the use of any fungicides containing propiconazole, which is highly toxic to fish. If no rain is forecasted, then irrigation is needed.

Non-chemical Management

1. Covering the soil with mulch or plastic can help reduce the occurrence of fungal diseases.
2. Good growing conditions and proper plant nutrition can help improve yield and lower disease risk.
3. Irrigation and proper drainage can help reduce disease risk.

References:

- California Blueberry Grower's Guide 2022 (California Blueberry Growers Association)
- Blueberry Production Manual (University of Maine Extension)
- Blueberry Disease Management (University of Maine Extension)

For more information, contact your local Cooperative Extension Service office.