

# GET A HIGHER DEGREE OF DISEASE CONTROL IN TREE NUTS

PH-D<sup>®</sup> Fungicide protects tree nut orchards from a broad spectrum of deadly diseases, including Alternaria, rust, hull rot, scab and botrytis/blossom blight. An ideal addition to your resistance management program, PH-D features a unique mode of action (FRAC 19) that works by preventing cell wall construction via chitin inhibition by enzyme interference.

## ACTIVE INGREDIENT

*Polyoxin-D zinc salt*

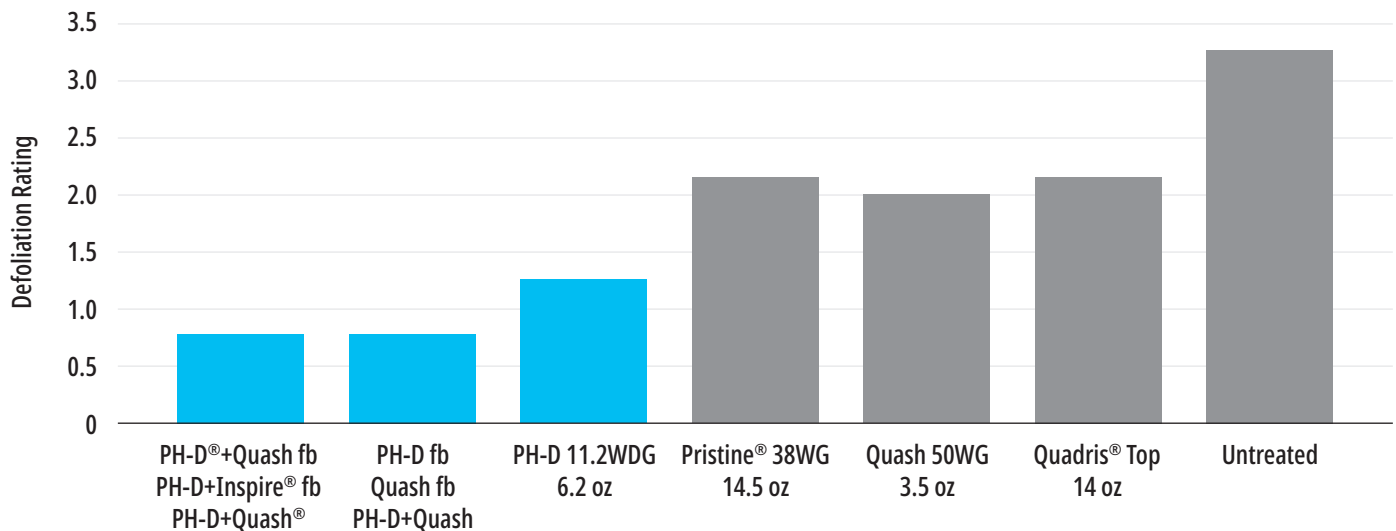
## FEATURES & BENEFITS

- Broad-spectrum, FRAC 19 fungicide
- Multiple diseases, single application
- Preventative application
- Better resistance management
- Smart addition to rotational management program
- 0-day PHI and 4-hour REI in tree nuts
- Rainfast when dry on leaf

## DISEASES CONTROLLED

Alternaria  
Botrytis/blossom blight  
Hull rot  
Leaf spots  
Powdery mildew  
Rust  
Scab

### Defoliation in Almond Trees by Alternaria Infection



Treated 5/19, 6/9 & 6/30, evaluated 8/20



## APPLICATION RATES AND OPTIMAL TIMING

DISEASES CONTROLLED	RATE	APPLICATION TIMING AND INFORMATION
<p><b>TREE NUTS</b></p> <p>Alternaria (<i>Alternaria alternata</i>)</p> <p>Leaf spots (<i>Alternaria</i> spp.)</p> <p>Blossom and shoot blight (<i>Botrytis cinerea</i>)</p> <p>Cylindrocarpon dieback* (<i>Cylindrocarpon destructans</i>)</p> <p>Powdery mildew* (<i>Oidium</i> spp.)</p> <p>Damping-off*</p> <p>Root rot*</p> <p>Seedling blight* (<i>Rhizoctonia solani</i>)</p> <p>Hull rot (<i>Rhizopus stolonifer</i>)</p> <p>Scab (<i>Cladosporium carpophilum</i>)</p> <p>Pecan scab* (<i>Fusicladium effusum</i>)</p> <p>Rust (<i>Tranzschelia discolor</i>)</p>	<p>Labeled Rate: 6.2 oz/A (0.7 oz a.i./A)</p>	<p>Mix in appropriate spray volume for sufficient coverage. (Spray every row to ensure coverage [avoid every other row applications]).</p> <p>Apply as a foliar spray every 7–10 days for foliar diseases.</p> <p>Apply prior to disease development and when conditions are conducive for disease.</p> <p>0-day pre-harvest interval.</p> <p>May be applied by air or ground, except pistachios. Do not apply to pistachios by air.</p> <p>Use of an adjuvant may enhance coverage.</p> <p>For control of hull rot caused by <i>Rhizopus stolonifer</i>, apply PH-D Fungicide at the rate of 6.2 oz/A in a dilute spray beginning at 10% hull split. Follow up with a second application at 20–40% hull split, if necessary. Begin sprays preventively and repeat on a 10- to 14-day interval.</p> <p>For control of almond and pecan scab, apply PH-D Fungicide at the rate of 6.2 oz/A in a dilute spray when infection periods begin. Retreatment with PH-D Fungicide or other effective fungicides should be made on 10- to 14-day intervals throughout the season as disease infection periods occur.</p> <p>For control of almond rust, apply PH-D Fungicide at the rate of 6.2 oz/A in a dilute spray when infection periods begin. Retreatment with PH-D Fungicide or other effective fungicides should be made on 14- to 21-day intervals throughout the season as disease infection periods occur.</p>
<p><b>DISEASE SUPPRESSION</b></p>	<p>Labeled Rate: 6.2 oz/A (0.7 oz a.i./A)</p>	
<p>Botryosphaeria blight (<i>Botryosphaeria</i> spp.)</p>		

**NOTES:**

Use in alternation with fungicides that have different modes of action.  
Do not apply more than 3 applications of PH-D Fungicide (2.1 oz a.i./A) per season.

\* Not for use in California.

For more information about PH-D, talk to your consultant, local UPL representative or retailer, call **1-866-761-9397** or visit [www.upl-ltd.com/us](http://www.upl-ltd.com/us).



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