



## A Powerful Fungicide for Disease Control on Hops

### DOWNY MILDEW AND POWDERY MILDEW

Downy Mildew and Powdery Mildew are two of the most damaging diseases of hops in the Pacific Northwest. Most fungicides are active against one disease or the other, but Regalia is active on both Downy Mildew and Powdery Mildew, so growers get a broad spectrum of disease control with one powerful product (see chart on back).

University field trials conducted on hops in Washington, show that tank mixing Regalia with Flint® or Quintec® is more effective than Flint or Quintec alone on Powdery Mildew. In the trial, the Regalia/Quintec/Flint program had the least amount of diseased cones, even under very high pressure (>90% Powdery Mildew on untreated hops).

Other university field trials conducted in Washington, prove that tank mixing or rotating Regalia with Aliette® is more effective than Aliette alone on Downy Mildew. The Regalia/Aliette program provided better control even under very high pressure (~100% Downy Mildew on untreated hops).

### RESISTANCE MANAGEMENT

Downy Mildew can quickly develop resistance to many commonly used fungicides. Strobilurin fungicides (such as Pristine and Flint) are known to have a high risk of resistance, but this risk is extremely low with Regalia (see chart on back). Regalia has a unique mode of action that reduces the development of fungicide resistance.

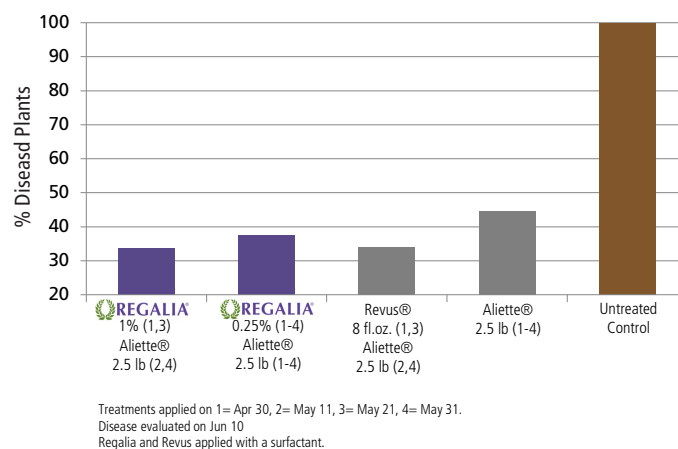
### FEATURES

- Broad-spectrum fungal and bacterial disease control
- Complex mode of action
- Rainfast in 1 hour
- 4-hour REI / 0-day PHI
- Tolerance exempt
- NOP compliant and OMRI approved
- For ground and aerial applications
- Approved for foliar and soil applications



### Downy Mildew on Hops (*Pseudoperonospora humuli*)

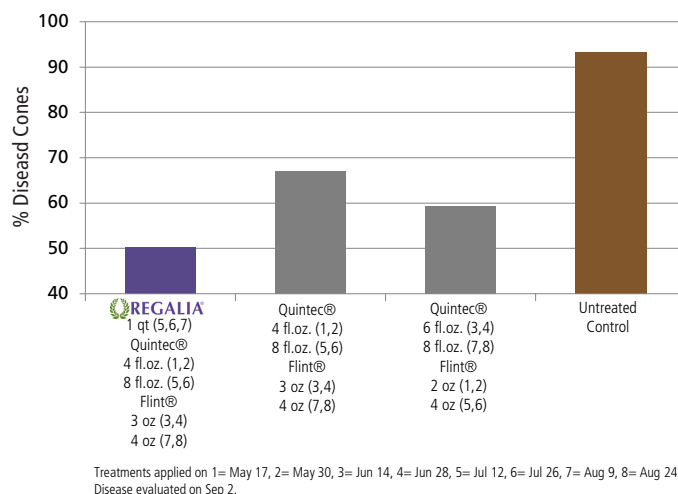
University Field Trial, Prosser, WA



## Regalia is active against Downy Mildew and Powdery Mildew on Hops

### Powdery Mildew on Hops (*Podosphaera macularis*)

University Field Trial, Prosser, WA



**LABELED DISEASES**

- Downy Mildew
- Powdery Mildew

**COMPATIBILITY CHART- COMMON REGALIA TANK MIX PARTNERS**


Regalia® is compatible with strobilurins (such as Pristine® and Flint®), quinoxyfen (such as Quintec®), DMI fungicides (such as Procure® and Rally®), and many other classes of pesticide chemistry. If compatibility with another product is unknown, a jar test should be conducted.

**BEST USE RECOMMENDATIONS**

For best results, apply 1–2 quarts of Regalia per acre in sufficient volume of water to ensure adequate coverage as part of a preventative disease control program. For Powdery Mildew and Downy Mildew, application intervals should be 7–10 days with the shorter interval used when pressure is higher.

**Powdery Mildew-** To control low levels of Powdery Mildew, Regalia can be rotated with other fungicides including quinoxyfen, triazoles and strobilurin products. Under moderate to severe Powdery Mildew pressure Regalia should be tank mixed with the previously mentioned chemistries.

**Downy Mildew-** Apply Regalia in a tank mix with other fungicides labeled to control Downy Mildew such as Aliette® or Pristine®.

Product	Active Ingredient	Downy Mildew	Powdery Mildew	REI (hours)	PHI (days)	Resistance Risk
 <b>REGALIA</b>	Extract of <i>Reynoutria Sachalinensis</i>	◆	◆	4	4	Low
PRISTINE®	Boscalid + Pyraclostrobin	◆	◆	12	14	High
TANOS®	Cymoxanil + Famoxadone	◆		12	7	High
REVUS®	Mandipropamid	◆		4	7	Low-Med
FORUM®	Dimethomorph	◆		12	7	Low-Med
ALIETTE®	Fosetyl-Al	◆		12	24	Low
PROCURE®	Triflumizole		◆	12	7	Medium
FLINT®	Trifloxystrobin		◆	12	14	High
RALLY®	Myclobutinal		◆	24	14	Medium
QUINTEC®	Quinoxyfen		◆	12	21	Medium

\* Chart reflects applications in the state of Oregon.



CAN BE USED IN ORGANIC PRODUCTION



Always read and follow label directions.

FOR ADDITIONAL INFORMATION, CONTACT YOUR LOCAL RETAILER OR CONTACT MARRONE BIO INNOVATIONS:  
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