

NEW



# Regalia®

## Control Powdery Mildew on Apples

### Control Powdery Mildew

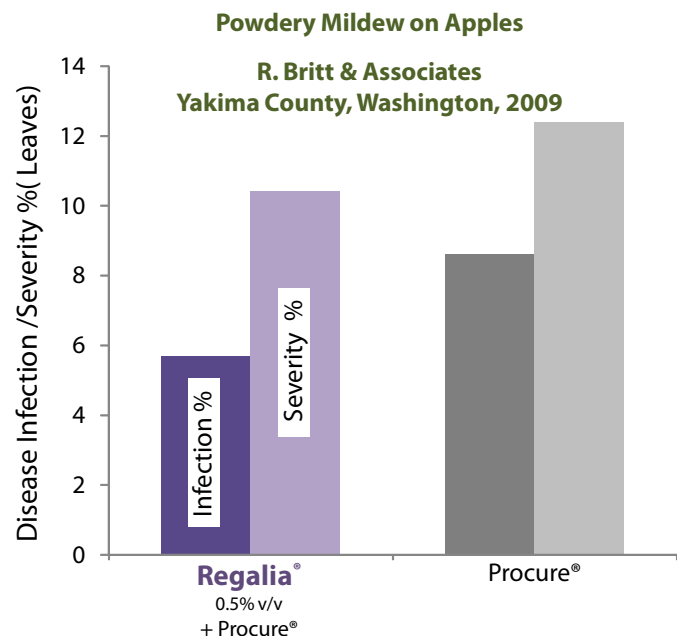
Powdery Mildew is a persistent problem on apples throughout the Pacific Northwest and California. Field trials prove that programs containing Regalia® provide superior control of Powdery Mildew. New independent research in Yakima County, Washington proves that Regalia plus triflumizole (DMI fungicide) provides greater control than triflumizole alone.

### How Regalia Works

When treated with Regalia, the defense systems of apple trees are 'switched on' to protect against attacking diseases. Research proves that plants treated with Regalia produce and accumulate elevated levels of specialized proteins and other compounds known to inhibit fungal and bacterial diseases. Regalia induces a plant to produce phytoalexins, cell strengtheners, antioxidants, phenolics, and PR proteins, which are all known inhibitors of plant pathogens.



**Regalia synergizes DMIs for superior control of Powdery Mildew on Apples.**



- Treatments applied on Apr 24 (pink), May 9 (petal fall), May 17 (fruitlets), May 30 (green fruit), Jun 10 (green fruit).
- Disease evaluated on Jun 8, Jun 26, Jun 21, 2009.
- Triflumizole is the active ingredient in Procure.

### Resistance Management

There is known resistance to many commonly used fungicides including DMIs and strobilurins, but there is very low risk for resistance with Regalia (see Compatibility Chart). Incorporate Regalia into your existing fungicide program to provide a novel mode of action, and to manage resistance. Regalia can be tank mixed or used in rotation with most commercially available fungicides providing the ultimate in flexibility.

### Can Be Used in Both Conventional and Organic Production

Regalia is recognized as fully compliant for use on organic crops by the National Organic Program (NOP) and is listed by OMRI. Organic growers can now access the same powerful Regalia used by conventional growers.



CAN BE USED IN ORGANIC PRODUCTION


### Rainfast in One Hour

Regalia is rainfast in only 1 hour, so growers can get important sprays out and protect crops even in tough weather, or when moisture conditions are conducive to disease development.

## Compatibility Chart - Common Regalia Tank Mix Partners

Regalia is compatible with DMIs such as Procure<sup>®</sup> and Rally<sup>®</sup>, strobilurins such as Pristine<sup>®</sup>, Flint<sup>®</sup>, and many other classes of pesticide chemistry

including sulfur. If compatibility with another product is unknown, a jar test should be conducted.

Brand Name	Active Ingredient	Family Group	FRAC	Resistance
Regalia <sup>®</sup>	Extract of <i>Reynoutria sachalinensis</i>	Plant Host Inducers	P	Low 
Topsin-M <sup>®</sup>	Thiophanate-Methyl	MBC	1	High
Inspire™ Super	Difenoconazole	Demethylation Inhibitor	3	Medium
Procure <sup>®</sup>	Triflumizole	Demethylation Inhibitor	3	Medium
Rally <sup>®</sup>	Myclobutanil	Demethylation Inhibitor	3	Medium
Rubigan <sup>®</sup>	Fenarimol	Demethylation Inhibitor	3	Medium
Flint <sup>®</sup>	Trifloxystrobin	Strobilurin (QoI)	11	High
Sovran <sup>®</sup>	Kresoxim-Methyl	QoI	11	High
Pristine <sup>®</sup>	Boscalid + Pyraclostrobin	SDHI + Strobilurin (QoI)	7 11	Medium High
Sulfur	Sulfur	Multi-Site Contact - Inorganic	M2	Low

## Best Use Recommendations

For best results, use Regalia as a preventative treatment. Begin applications at first pink stage, followed by petal fall, and then at 10-14 day intervals to protect new shoots. Additional treatments are recommended depending on weather and disease pressure.

Apply 1-2 quarts of Regalia per acre when tank mixed with a DMI or 2 quarts of Regalia when applied alone in alternation with a DMI for control of powdery mildew. For maximum control, reduce spray intervals to 7-10 days.

For organic production, Regalia can be applied beginning at petal fall in programs that include sulfur and lime-sulfur for broad spectrum disease control. Early season applications of sulfur and lime-sulfur can be followed by Regalia applied alone in rotation with sulfur or tank-mixed with sulfur for control of summer diseases such as powdery mildew, flyspeck and sooty blotch.



To control disease with powerful Regalia contact your local retailer, or call:

Jesse Rosales, Coastal CA, 530-304-2030  
 Mark Allen, Northern CA and Pac NW, 530-304-9091  
 Mike Martinez, Southern CA and AZ, 559-288-3422  
 Jay Osborne, Eastern Reg. Sales Rep., 239-207-7168  
 Brian Anderson, Midwest Sales Rep., 616-299-8155  
 David Warman, Director of Sales, 336-202-3433

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