

New Tool Against Walnut Blight

Regalia® is a powerful, new tool to control Walnut Blight. In the past, many growers relied solely on copper and maneb to control Walnut Blight, but there is known resistance to copper and maneb availability is uncertain. Regalia is proven, effective, and readily available for walnut growers this season.

Regalia offers growers a new, unique mode of action. When treated with Regalia, the defense system of walnut trees is switched on to protect against attacking diseases. The active ingredient in Regalia, *Reynoutria sachalinensis*, has been extensively tested at the University of California (UC). Research conducted at UC has shown that Regalia performed as well as copper hydroxide and manzate at controlling Walnut Blight.

Additionally, Regalia is OMRI listed, and NOP compliant for use in organic production. Organic growers now have access to the same powerful Regalia used by conventional growers.



How Regalia Works

When treated with Regalia, the defense systems of walnuts 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.

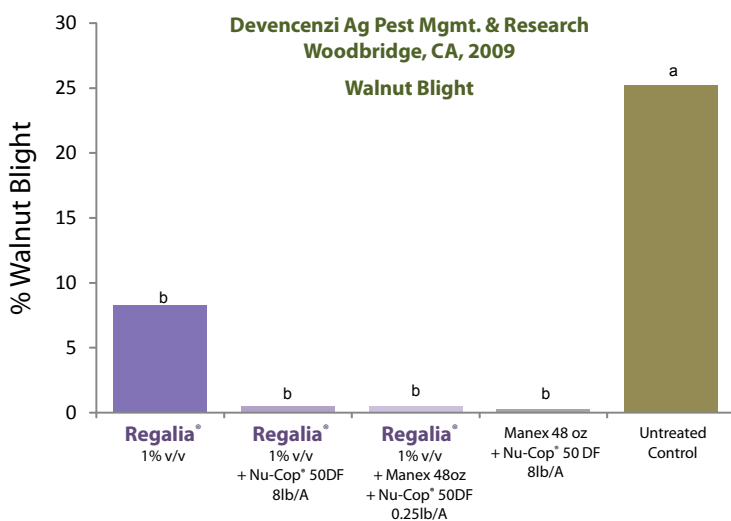
Combat Copper-Resistant Strains

Copper resistance has been found in walnut orchards in the Sacramento Valley and San Joaquin Valley. Adding Regalia to copper improves control of Walnut Blight. Independent research performed in Woodland, California has confirmed that Regalia plus copper has effectively controlled Walnut Blight.

Rainfast in One Hour

There can be frequent rainfall during the early-Spring Walnut Blight infection period in Northern California. Regalia is rainfast in only one hour, so growers can get important sprays out even in tough weather.

Regalia® controls Walnut Blight and is readily available this season.



- 100 gallons of water per acre.

Compatibility- Common Regalia Compatible Tank Mix Partners

Regalia is shown to be compatible with multi-site, contact coppers such as Kocide® and Nordox®, multi-site dithiocarbamates such as Maneb and

Mancozeb, and several other classes of pesticide chemistry. If compatibility with another product is unknown, a jar test should be conducted.

Common Regalia Compatible Tank Mix Partners:

Brand Name	Active Ingredient	Family Group	FRAC
Regalia®	Extract of <i>Reynoutria sachalinensis</i>	Plant Host Inducers	P
Manex®	Maneb (Manganese Ethylenebisdithiocarbamate)	Dithiocarbamates	M3
Champion®	Copper Hydroxide	Inorganics- copper	M1
Champ Formula 2®	Copper Hydroxide	Inorganics- copper	M1
Kocide®2000	Copper Hydroxide	Inorganics- copper	M1
Kocide® 3000	Copper Hydroxide	Inorganics- copper	M1
Kocide® DF	Copper Hydroxide	Inorganics- copper	M1
Nu-Cop®50DF	Cupric Hydroxide	Inorganics- copper	M1
Nordox®	Cuprous Oxide	Inorganics- copper	M1
Nordox® 75 WG	Cuprous Oxide	Inorganics- copper	M1
Serenade®	<i>Bacillus subtilis</i>	Microbial	44

Best Use Recommendations

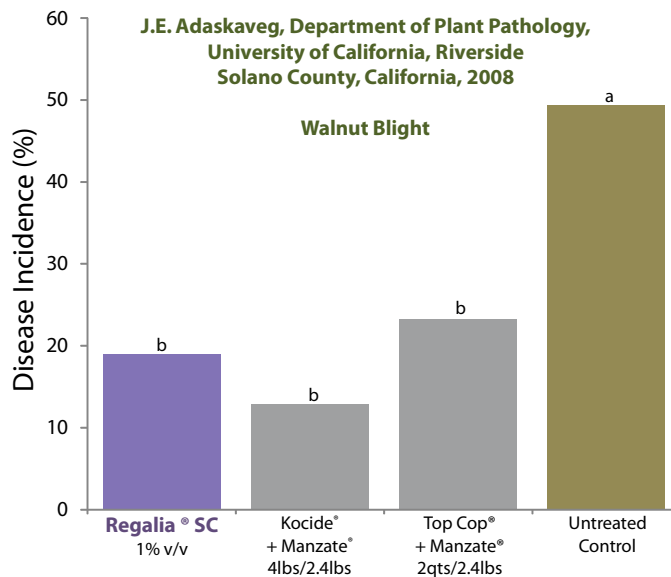
For best results, use Regalia as a preventative treatment. For maximum Walnut Blight control, begin applications as soon as susceptible leaf tissue is present. Apply when 40% of the buds are at the "prayer" stage, and then at 7 – 10 day intervals to protect new shoots. Additional treatments are recommended depending on weather and disease pressure.

Apply 1-4 quarts of Regalia per acre with a labeled rate of copper fungicide, or apply 2-4 quarts of Regalia if used stand alone. Spray with sufficient water and pressure to obtain thorough coverage.



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- 100 gallons of water per acre.

Regalia® is as effective as copper and manzate at controlling Walnut Blight.

Always read and follow label directions. Regalia is a registered trademark of Marrone Bio Innovations, Inc. Kocide, Manex, and Manzate Pro-Stick are registered trademarks of DuPont Crop Protection. Top Cop is a registered trademark of Stoller, USA. Nu-Cop is a registered trademark of Albaugh, Inc. Champ Formula 2 and Champion are registered trademarks of Nufarm Agriculture Products. Serenade is a registered trademark of AgraQuest, Inc. Nordox is a registered trademark of Monterey AgResources.
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