



A Powerful Fungicide for Disease Control on Walnuts

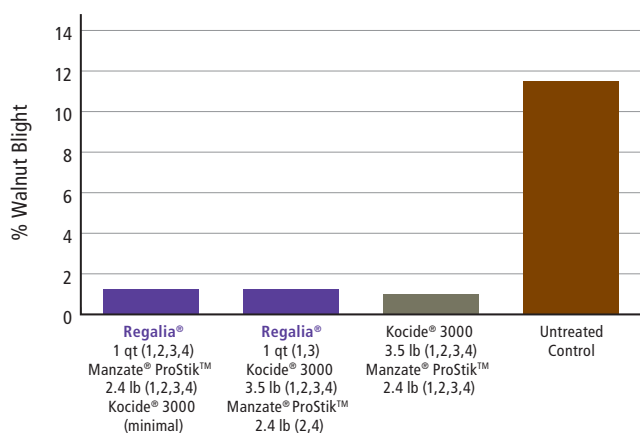
REGALIA CONTROLS WALNUT BLIGHT

Add Regalia® to the mix for better Walnut Blight control, better yield, and a better bottom line. Regalia induces the plant's defenses, provides bacterial disease control, delays the development of resistance, and helps minimize chemical residues in harvested walnuts.

Historically, many growers relied on copper, but there is known resistance to copper throughout the Sacramento and San Joaquin Valleys. Adding Regalia to copper improves control. In short, Regalia is proven to make your Walnut Blight protection program better.

Walnut Blight

Devenenzi Ag Pest Mgmt. & Research, Woodbridge, CA
cv. Vina



Treatments applied on 1= Apr 12 (1% pistillate bloom), 2= Apr 19 (early bloom),
3= May 2 (nutlets), 4= May 12 (~3/8 in nut size)
Treatments applied at 100 gals of water per acre
Disease evaluated on Jun 27

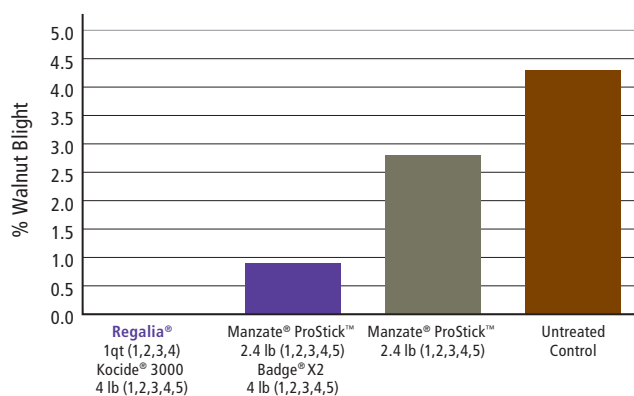
FEATURES

- Broad-spectrum fungal and bacterial disease control
- Complex mode of action
- Rainfast in 1 hour
- 4-hour REI / 0-day PHI
- Tolerance exempt



Walnut Blight

J.E. Adaskaveg, University of California, Fresno County, CA
cv. Chico



Treatments applied on 1= Apr 18, 2= Apr 24, 3= May 2, 4= May 8, 5= May 16
Disease evaluated in early June
Disease incidence based on 100 fruit from each treatment
Partial treatment list
Walnut Blight: *Xanthomonas campestris*

Use Regalia® plus copper for superior control of Walnut Blight

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.

- Approved for field and greenhouse applications
- NOP compliant and OMRI approved
- For ground and aerial applications
- Approved for foliar and soil applications

LABELED DISEASES

- Walnut Blight

RAINFAST IN ONE HOUR

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

TOLERANCE EXEMPTION

Regalia is exempt from tolerance requirements in or on all food commodities in accordance with the United States EPA federal regulation 40CFR180.1259.

GROUND OR AERIAL APPLICATION

Wet weather conditions can make it difficult or impossible to pull air blast sprayers through orchards. Regalia is approved for both ground and aerial applications in California, so growers can protect walnuts with aerial applications when the orchard is too wet for ground applications.

CAN BE USED FOR CONVENTIONAL AND ORGANIC PRODUCTION


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.



CAN BE USED IN ORGANIC PRODUCTION



Always read and follow label directions.

Product	Active Ingredient	Family Group	FRAC
 REGALIA	Extract of <i>Reynoutria Sachalinensis</i>	Plant Host Inducers	P5
Manzate®	Mancozeb	Dithiocarbamates	M3
KOCIDE® 3000	Copper Hydroxide	Inorganics-copper	M1
NU-COP® 50DF	Cupric Hydroxide	Inorganics-copper	M1
NORDOX®	Cuprous Oxide	Inorganics-copper	M1

BEST USE RECOMMENDATIONS

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

For best results, use Regalia as a preventive 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.

COMPATIBILITY AND RESISTANCE MANAGEMENT

Regalia® is compatible with copper fungicides such as Kocide®, Nu-Cop®, and Nordox®, mancozeb fungicides such as Manzate®, and other classes of pesticide chemistry. If compatibility with another product is unknown, a jar test should be conducted. Copper and mancozeb are both class M fungicides (multi-site contact mode of action), but Regalia is a class P5 fungicide and provides a unique mode of action that helps manage the development of resistance.

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

Phone 530-750-2800 • Toll Free 877-664-4476 • Email regalia@marronebio.com

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