









Defend Your Crops USING BIO WITH BITE.®



With data from over 1500 trials, Marrone develops biological pesticides that are safe for workers, consumers, and the environment. We have pioneered techniques to provide uniquely powerful crop protection. From field to greenhouse, our award-winning biopesticides control insects, mites and disease, safely and sustainably, with great return on investment.

PROTECT TREE NUTS FROM:

- | | |
|---|--|
|  Blossom Blight |  Walnut Husk Fly |
|  Brown Rot |  Peach Twig Borer |
|  Navel Orange Worm |  And many more... |



CAN BE USED IN ORGANIC PRODUCTION *

GRANDEVO®

Grandevo® Bioinsecticide is an advanced bioinsecticide that suppresses or controls early insect populations, protecting your crops and helping to prolong the lifespan of other pesticides.

BENEFITS:

- Broad spectrum protection against sucking and chewing insects
- Easy on pollinators and beneficial insects
- Multiple modes of action
 - Repellency
 - Ingestion
 - Reproduction Disruption
- No effect on pollination and nut development

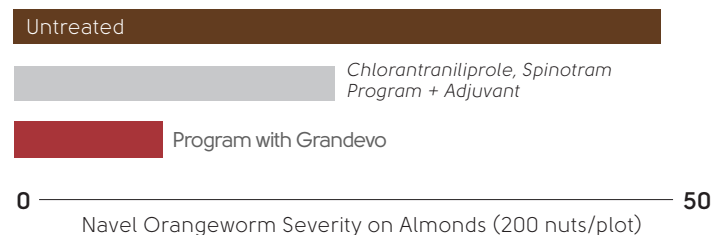
BASIC USE INSTRUCTIONS:

Apply 1-3 lbs per acre on 7-day interval. Begin applications early to reduce reproduction by adult sucking insects and mites and to target newly hatched or emerged larvae and nymphs. Under heavy populations, rotate Grandevo with other insecticides/miticides and tank mix with contact or systemic insecticides/miticides.

KEY TARGET PESTS:

- Navel Orange Worm
- Walnut Husk Fly
- Aphids
- Mites
- Walnut Scale
- San Jose Scale

71% REDUCTION IN NAVEL ORANGEWORMS WITH GRANDEVO



Grandevo is a good resistance management tool. This is where I see bioinsecticides having a real advantage. Grandevo and other bioinsecticides can definitely help with mode of action rotational programs.

–JEFF LEWIS, RIVERVIEW FLOWER FARM





Use Regalia® Biofungicide early for disease prevention and overall plant health, and through the season for continued disease control. Great resistant management tool in IPM programs.

BENEFITS:

- Better yield and harvest quality for conventional and organic tree nuts
- Apply early for late residue management
- Stimulates plant immunity and prevents disease
- Unique FRAC P5 Classification

BASIC USE INSTRUCTIONS:

Apply Regalia preventatively before disease gains a foothold. Use Regalia early and through the season for plant health, and even late in the season to avoid potential residue issues.

Tank Mix Program: 1 qt per acre of Regalia mixed with another fungicide, 10-14 day intervals

Rotational Program: 2 qt per acre of Regalia alternating with another fungicide, 7-10 day intervals

To avoid petal staining or burn do not exceed 1 quart in 50 – 100 gallons of water per acre during bloom.



Haven® helps defend crops from heat stress to boost yield and increase tree health.

BENEFITS:

- Protects trees from periods of high heat
- Increases marketable yield up to 19%
- Strong 8:1 return on investment*
- Easy to mix and no visible residue

BASIC USE INSTRUCTIONS:

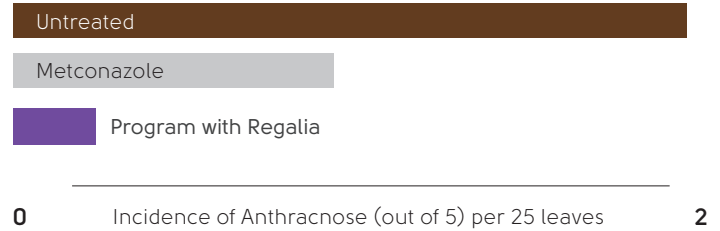
Apply 2.5 quarts per acre in 100 gallons of water (0.6% v/v) at petal fall, 2 weeks after petal fall and June drop.

* Based on multi-year trials on Almonds

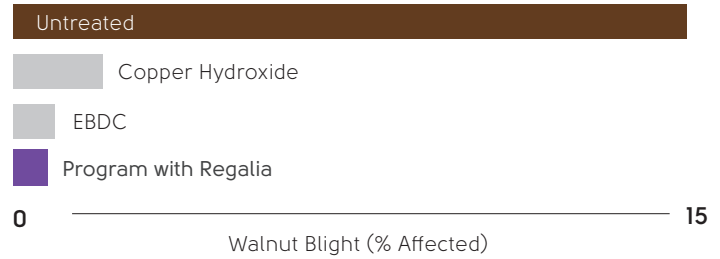
KEY TARGET PESTS:

- Blossom Blight
- Brown Rot
- Anthracnose
- Walnut Blight
- Shot Hole

85% LESS ALMOND ANTHRACNOSE WITH REGALIA

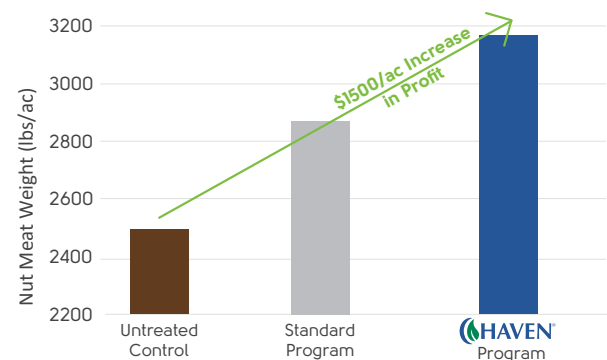
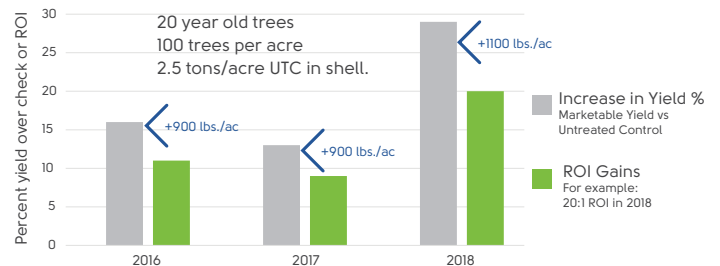


REGALIA REDUCES WALNUT BLIGHT BY 93%



ALMOND ROI

Reduce Stress, Increase Marketable Yield*



Venerate® Bioinsecticide is your go-to broad-spectrum in-season bioinsecticide. Venerate is an excellent addition to existing IPM and resistance management programs.

BENEFITS:

- Broad spectrum protection against sucking and chewing insects, mites and certain weevils
- Multiple modes of action
 - Exoskeleton degradation
 - Ingestion
 - Molting interference
- Non-toxic to fish, birds, and most beneficial insects, including honey bees

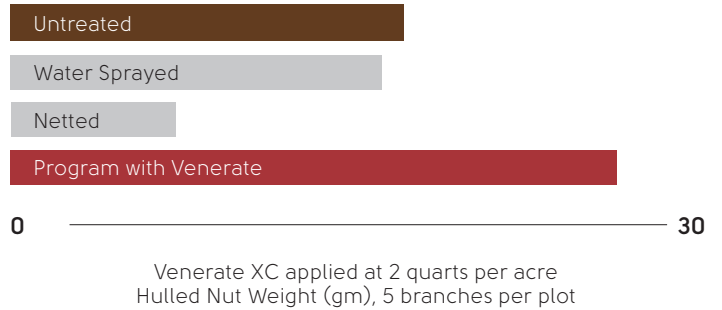
BASIC USE INSTRUCTIONS:

Apply 2-4 quarts per acre on a 7-day interval. No limit on number of applications per season. No spray buffer needed.

KEY TARGET PESTS:

- Navel Orange Worm
- Peach Twig Borer
- Aphids
- Mealybugs
- Peach Tree Borer
- Hickory Shuckworm

37% INCREASE IN ALMOND HULL WEIGHT WITH VENERATE



The biggest advantage for us is the reentry time and the pre-harvest times. The flexibility is huge for us. We grow a lot of acres so we've got to cover a lot of ground every single day, so it enables us to do that.

-KANE HANNAFORD, G&D FARMS



It's important to have relationships with companies like Marrone who look for alternative methods, chemistries and processes for safer products. Their people are experienced and know how best to use biologicals and on which target insects. Marrone helps us move forward to better meet consumer demand.

-JEFF LEWIS, RIVERVIEW FLOWER FARM

"MARRONE HELPS US MOVE FORWARD"

My spray regimen always has biologicals in it. Every time I spray, I've got biologicals in my spray. Every time the tank goes out, it's got it in there, and I'm keeping it on there. I've cut back my spray this year. I've done it three years in a row and I totally stand by it.

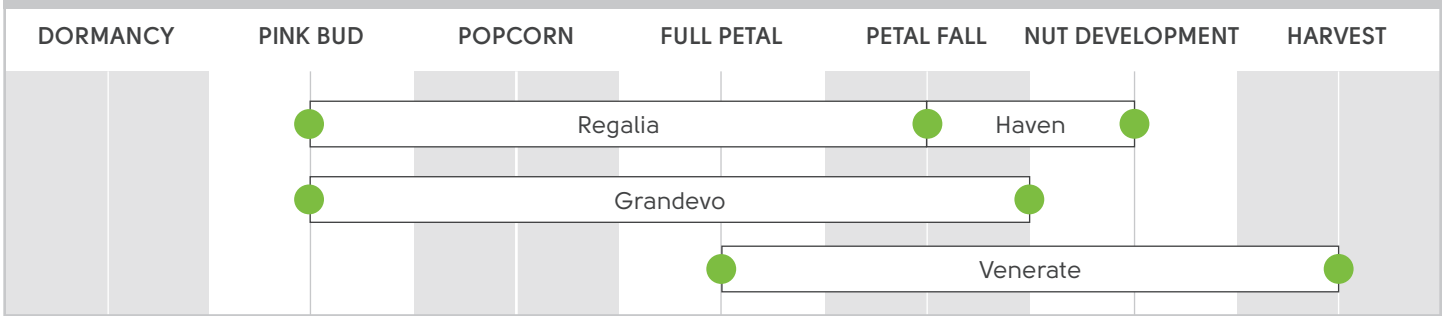
- MATT PARKE, PARKESDALE FARMS

"MY SPRAY REGIMEN ALWAYS HAS BIOLOGICALS IN IT"

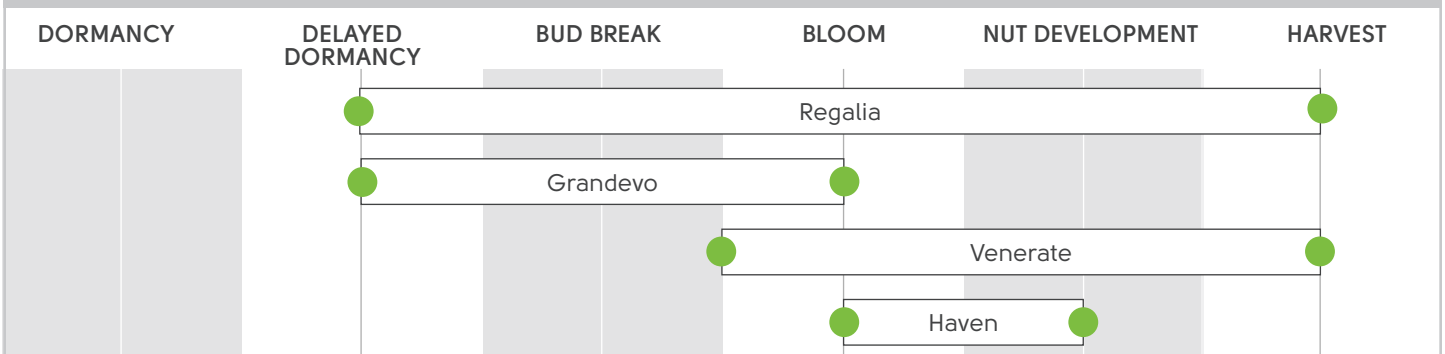




TIMING OF APPLICATION: ALMONDS



TIMING OF APPLICATION: WALNUTS



“A WHOLE NEW FRONTIER FOR TRADITIONAL GROWERS”

Biological solutions present a whole new frontier for traditional growers. They prevent the same problems traditional growers would be looking to prevent but in a way that is softer on the planet, the environment, the farmworkers, and the watershed.

- DAVID KNAUS, APICAL CROP SCIENCE



**If you haven't tried one of our products, we want to talk to you!
Give us a call at (530)750-2800 or visit us at marronebio.com**

