









Dr. Melissa O'Neal

Manager of Western US Field Development and Technical Services
805-234-5723 / moneal@marronebio.com

Safe Harbor Statement



This presentation may include forward-looking statements. These statements reflect the current views of the Company's senior management with respect to future events and financial performance. These statements include forward-looking statements with respect to the Company's business and industry in general, including statements regarding potential market size of Company products, anticipated product development costs, target geographic markets, and future goals. Statements that include the words "expect," "intend," "plan," "believe," "project," "forecast," "estimate," "may," "should," "anticipate", "target", "goals" and similar statements of a future or forward-looking nature identify forward-looking statements for purposes of the federal securities laws or otherwise. Forward-looking statements address matters that involve risks and uncertainties, such as the timing of and costs associated with the launch of products, the difficulty in predicting the timing or outcome of product research and development efforts and regulatory approvals. Accordingly, there are or will be important factors that could cause the Company's actual results to differ materially from those indicated in these statements. The statements made herein speak only as of the date of this presentation.





OVERVIEW

- Biopesticides in General
- MBI Company Mission& History
- MBI Portfolio Offerings
- MBI Product Briefings
- Stargus & Ennoble
 - Product Information
 - Datasets





Biopesticides & Sustainable Agriculture MBI Meets Demand



DEALER

Alternative Tank Mixes
(Biopesticides +
Conventional Crop
Protection Products)
Biologicals Address
Resistance Issues
Increased Efficacy

CONSUMER

Great Food Quality
Safety
Sustainability
(Reduce Impact)

GROWER

Higher Yields
Better Quality Than Using Conventional
Products Alone
Safe On Beneficials & Pollinators
Helps Harvest & Labor Management
Export Anywhere Without Restrictions
Reduce Chemical Load



Biopesticides Meet the Challenges of Sustainable Agriculture



Biopesticides are solutions for sustainable & ecofriendly IPM & crop production programs, often enhancing yield & quality:

- Alternatives to neonicitinoids, OPs, pyrethroids
- Low risk to pollinators & other beneficials
- Can reduce resistance risk & enhance programs with single site chemicals where resistance to strobilurins, DMIs, diamides, & other chemical products exists
- Make organic programs more durable, lowering resistance risk due to overuse
- Potentially replace toxic fumigants







New IPM Programs are Needed

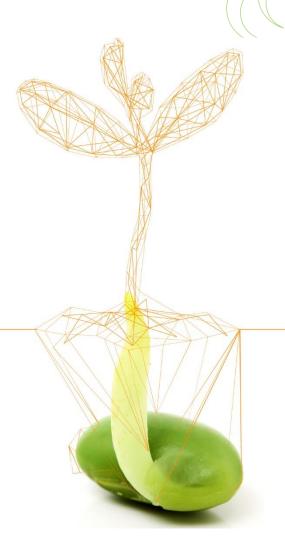


- Many existing IPM programs are outdated & do not reflect biopesticide products & modes of action available to today's growers
- Trials should be conducted as integrated programs rather than just stand alone to better reflect grower practices
- More work should be conducted integrating different classes of biopesticides & integrating biopesticides with synthetic chemicals

About the Company

Marrone Bio Innovations, Inc. strives to lead the movement to a more sustainable world through the discovery, development, & promotion of biological products for pest management & plant health.

Effective & environmentally responsible solutions help customers operate more sustainably.



Company Highlights

- Incorporated June 2006
- 7 commercially available MBI actives
- 1 awaiting approval; 3 EPA registered
- ~100 employees, 1/3 in R&D
- Library of 18,000+ proprietary microorganisms screened against multiple targets
- Wholly-owned fermentation facility in Bangor, MI
- Commercial sales in N. America, LATAM, Africa & Mideast
- Listed on NASDAQ as MBII in 2013





MBI and Biopesticides







Marrone Bio Innovations has been at the forefront of finding and developing new crop protection solutions since 2006. We target solutions for every problem on the acre with both our current product portfolio and products in development.



Boost yield and quality



Manage resistance



Harvest flexibility



Worker-friendly



Product Portfolio





























Family of OMRI Products





















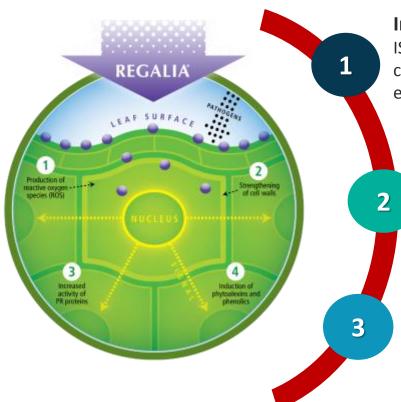
BIO WITH BITE.





REGALIA Multiple novel modes of action, collectively referred to as Induced Systemic Resistance (ISR)





Inhibits pathogen growth

ISR triggers the creation of several antimicrobial compounds, phenolics, phytoalexins, & PR proteins that enable treated plants to inhibit & restrain pathogen growth

Strengthens cell walls

ISR signals the plant to accumulate more lignin, which thickens & strengthens cell walls.
This added strength helps protect against penetration by pathogens & lends structural integrity to the plant

Promotes plant growth

In addition to disease control, Regalia also enhances plant health by stimulating production of phytohormones & chlorophyll

GROUP P5 FUNGICIDE





BIO WITH BITE.





Venerate® Bioinsecticide

- Liquid formulation containing 94.46% heat-killed *Burkholderia rinojensis* (strain A396) cells & spent fermentation media
- Targets: certain sucking & chewing insects & mites
- Also useful against certain soil pests
- 1-4 qt/Ac foliar, 2-4 qt/Ac in soil applications





VENERATE® XC Features Multiple Modes of Action





BIO WITH BITE.





Grandevo Bioinsecticide

- Water dispersible granule containing 30% dead Chromobacterium subtsugae (strain PRAA4-1^T) cells & spent fermentation media
- 1-3 lbs./acre use rate







GRANDEVO® WDG - General Overview









Naturally derived from Chromobacterium subtsugae

- Activity stems from the combination of multiple compounds produced by the bacteria
- Contains dead bacteria plus associated compounds produced in the cells
- Activity includes repellency, reduced fecundity, reduced egg hatch, & death via ingestion

Selective, broad spectrum protection

- Sucking & chewing insects
- o Flies
- o Mites

Easy on pollinators and beneficials

No effect on pollination & fruit set



Complex modes of action via multiple compounds





Mode of Action – Gut Disruption & Stops Feeding





Leaf-feeding Lepidoptera & select Chrysomelidae





BIO WITH BITE.





(CHAVEN) Sun Protectant



- Increases yield & quality of fruit, nut, & vegetable crops
- Contains 10% stearyl alcohol derived from coconut extract
- Rate: 0.6% v/v = roughly 5 pints
- Apply at full bloom to fruit/nut set
- Applications leave no visible residue/deposit

Target Crops

Tree nuts

Grapes

Fruiting vegetables (pepper/tomato)

Berries

Pome fruit

Citrus

Cucurbits



VS



Does not leave visible deposit or residue on the crop





BIO WITH BITE.





Bacillus amyloliquefaciens strain F727

California registration pending

STARGUS® Bio-fungicide. What is it?

- ➤ Liquid fungicide used at 1-4 qt/Acre
- ➤ Active ingredient: unique isolate of Bacillus amyloliquefaciens (strain F727)
- ➤ Broad spectrum biofungicide containing peptides produced during fermentation
- ➤ SAR activity & root colonization
- **≻**OMRI listed
- >FRAC code pending





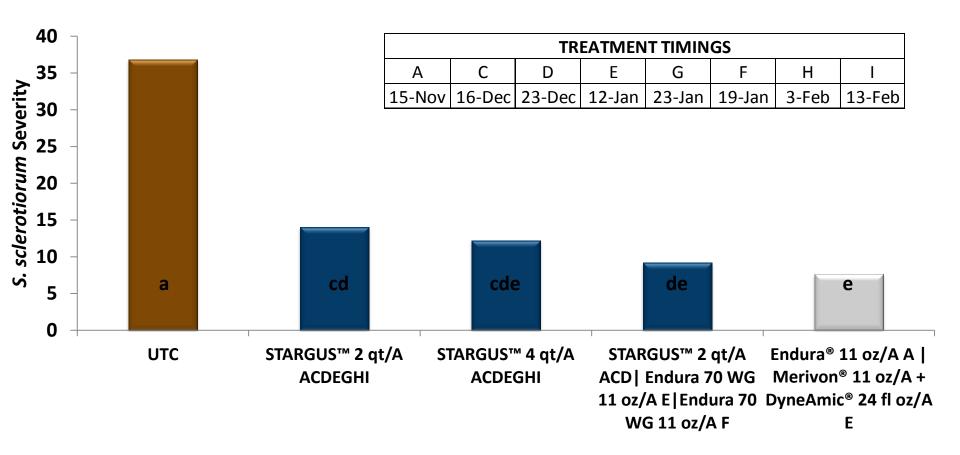
STARGUS® -Primary Labeled Crops & Diseases*

- Bushberries & cranberries: Botrytis, Phomopsis
- Bulb vegetables: Botrytis, Peronospora
- Brassica leafy vegetables: Peronospora
- Cucurbits: Peronospora, Phytophthora
- Fruiting vegetables: Xanthomonas, Phytophthora
- Grapes: Botrytis, Peronospora, Guignardia
- Leafy vegetables: Sclerotinia spp., Peronospora
- Legumes: Sclerotinia spp., Peronospora, Xanthomonas
- Oilseed crops: Sclerotinia spp., Xanthomonas
- Root & tuber vegetables: Sclerotinia spp., Phytophthora, Botrytis, Xanthomonas
- Strawberry: Botrytis
- *California registration is pending



Stargus[®] on *Sclerotinia sclerotiorum* in Lettuce

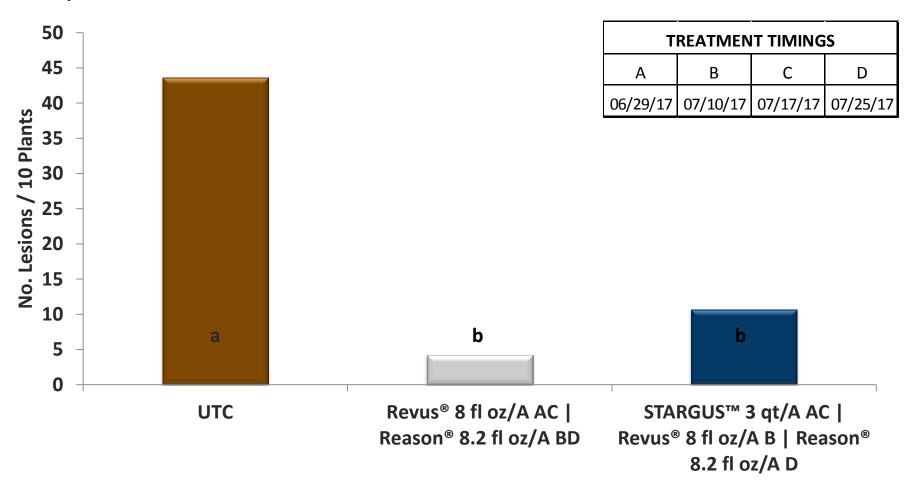
Dr. Matheron, University of Arizona, Yuma, AZ.





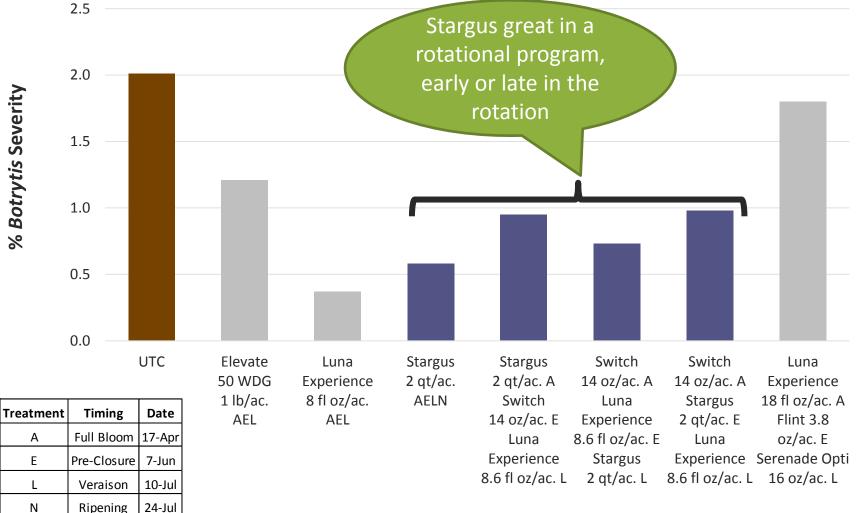
Stargus® on Downy Mildew in Lettuce

Crop Science Services, Aromas, CA.



Stargus[®] Against *Botrytis* on Grape W.D. Gubler, UC Davis





Stargus® Against Botrytis on Grape

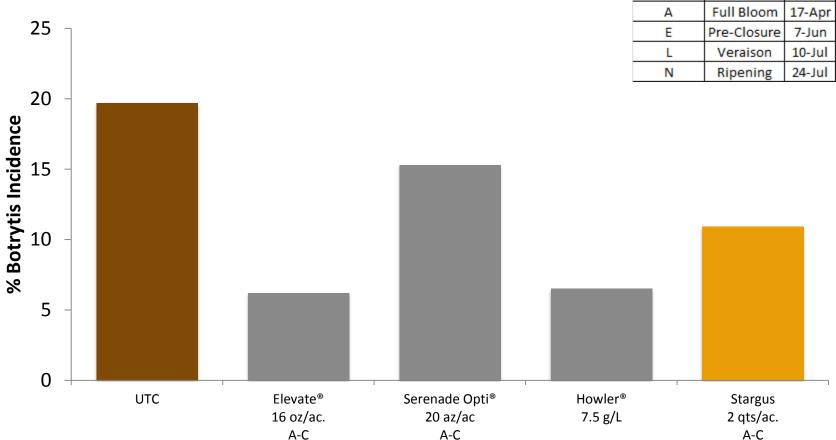


Date

Treatment

Timing





Elevate® is a registered trademark of Arysta LifeScience. Serenade Optimum ®is a registered trademark of Bayer CropScience. Howler® is a registered trademark of AgBiome.

















ENNOBLETM

Biofumigant What is it?

- Granular biological soil treatment for control of nematodes & soilborne diseases
- Active ingredient: Muscodor albus (strain SA 13)
- Broad-spectrum; active by releasing volatiles into soil rhizosphere
- OMRI listed
- FRAC code pending
- No affect on non-pathogenic soil microorganisms

ENNOBLE™

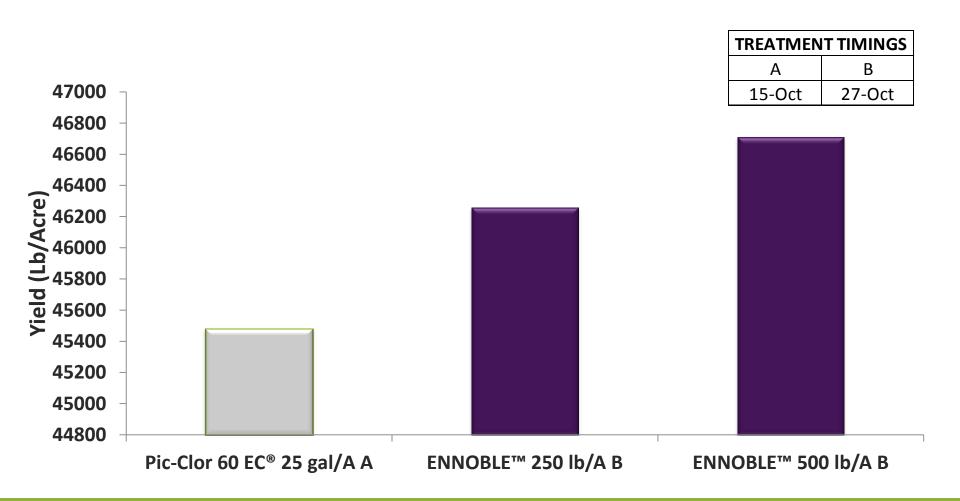
Primary Labeled* Crops & Diseases

- Strawberries: Macrophomina
- Leafy vegetables: Fusarium, Sclerotinia spp., Verticillium
- *California registration is pending
- Apply 5-7 days pre-plant



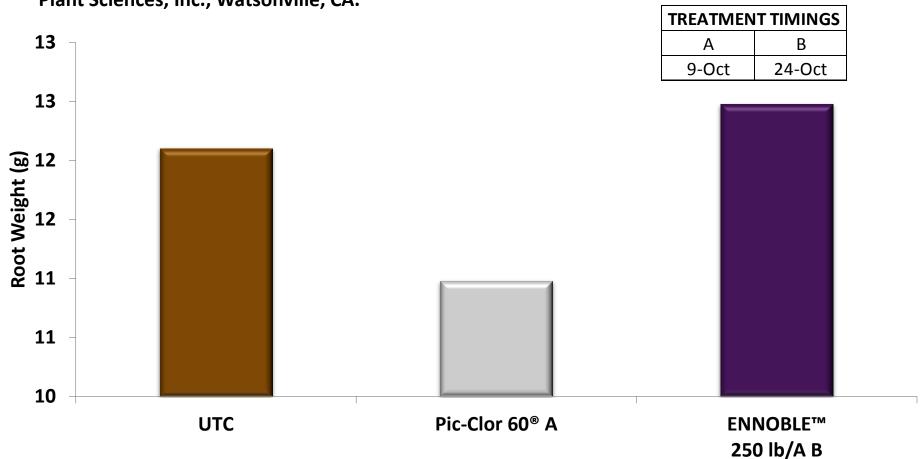
ENNOBLE™ on *Macrophomina / Verticillium* in Strawberry

Pacific Ag Research, San Luis Obispo, CA.



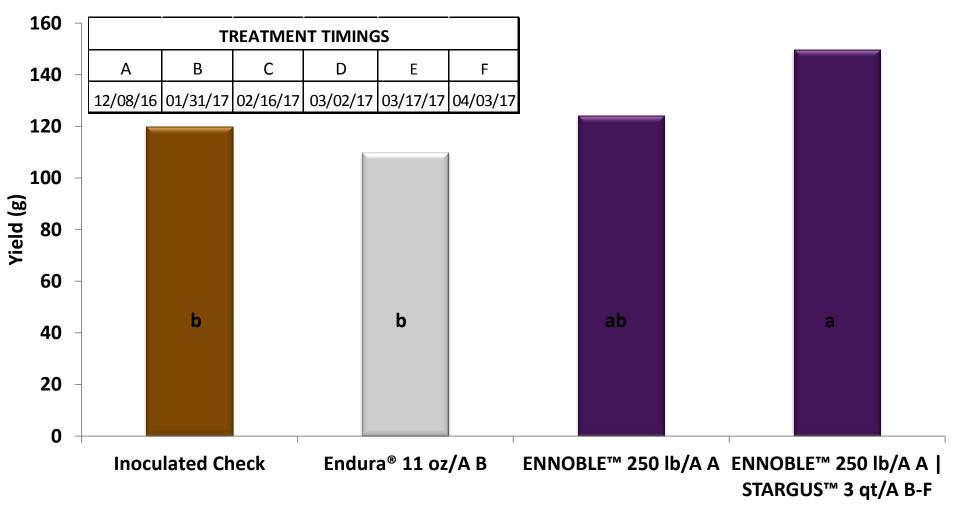
ENNOBLE™ on Rhizoctonia, Cylindrocarpon, &





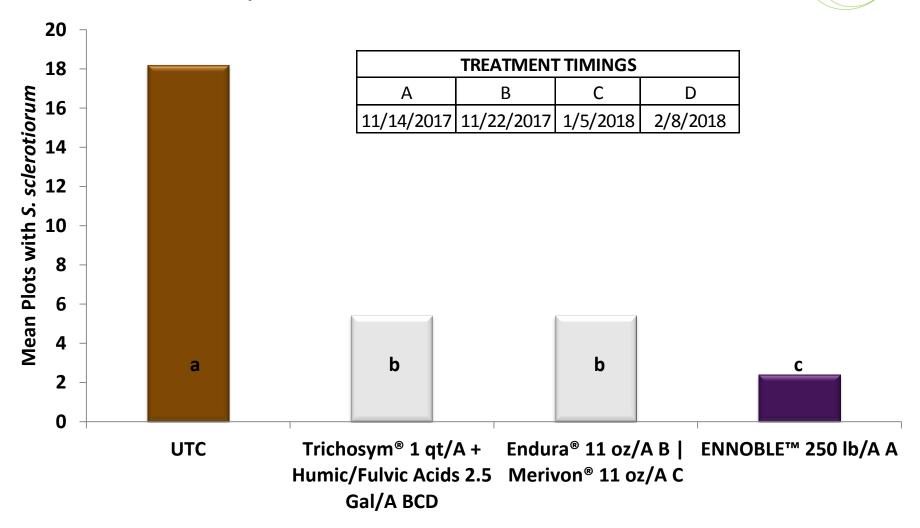
ENNOBLE™ & STARGUS® on *Sclerotinia minor* in Lettuce

Research Designed for Agriculture, Yuma, AZ



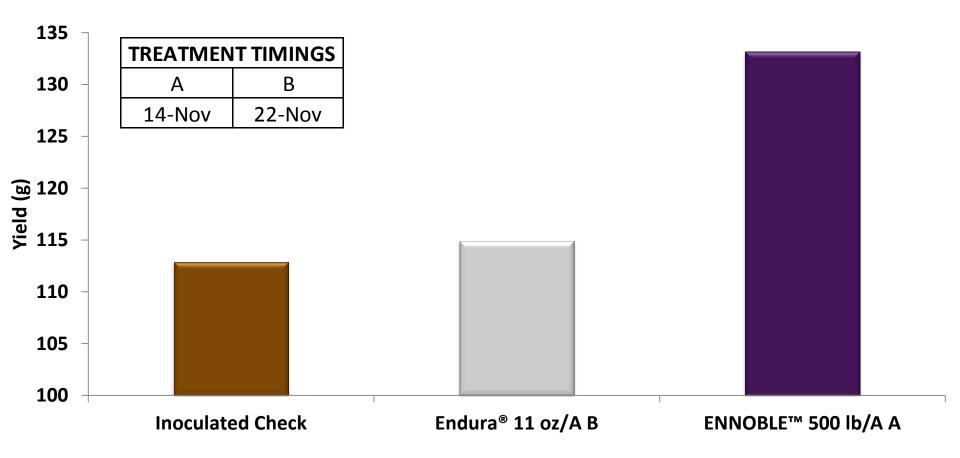
ENNOBLE™ on Sclerotinia sclerotiorum in Lettuce

Dr. Matheron, University of Arizona, Yuma, AZ.



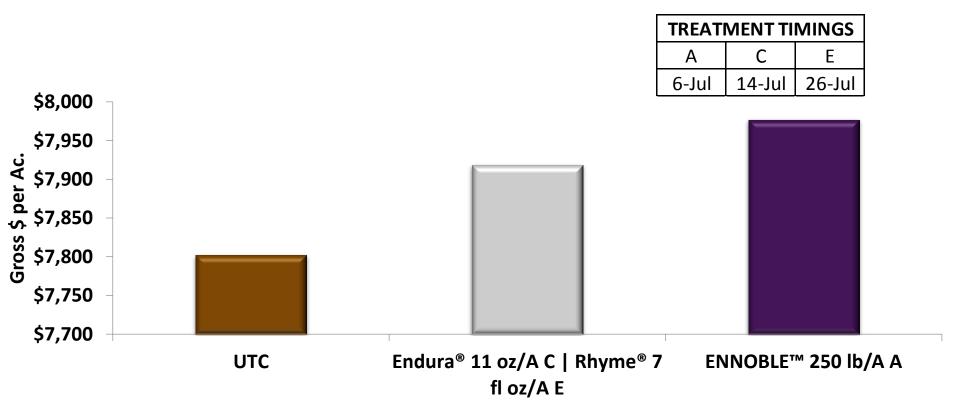
ENNOBLE™ on *Sclerotinia sclerotiorum* in Lettuce

Research Designed for Agriculture, Yuma, AZ



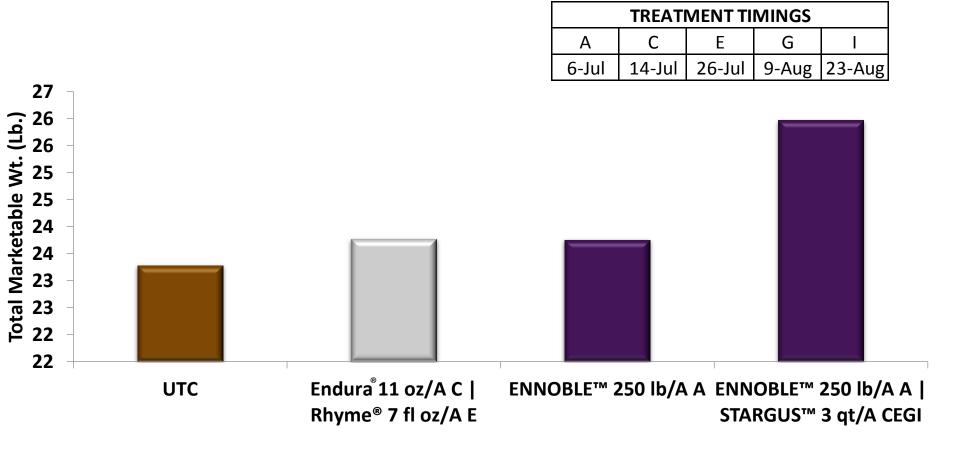
ENNOBLE™ on *Verticillium* in Lettuce



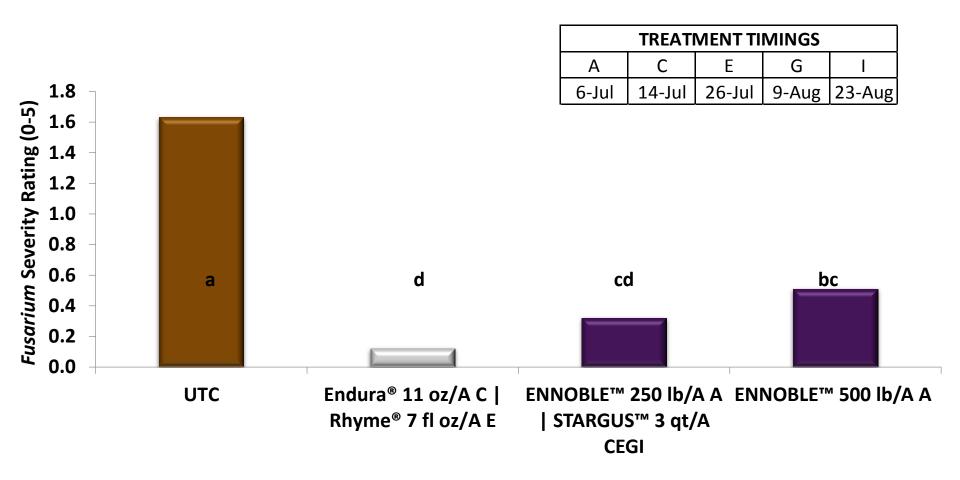


ENNOBLE™ & STARGUS® on *Verticillium* in Lettuce

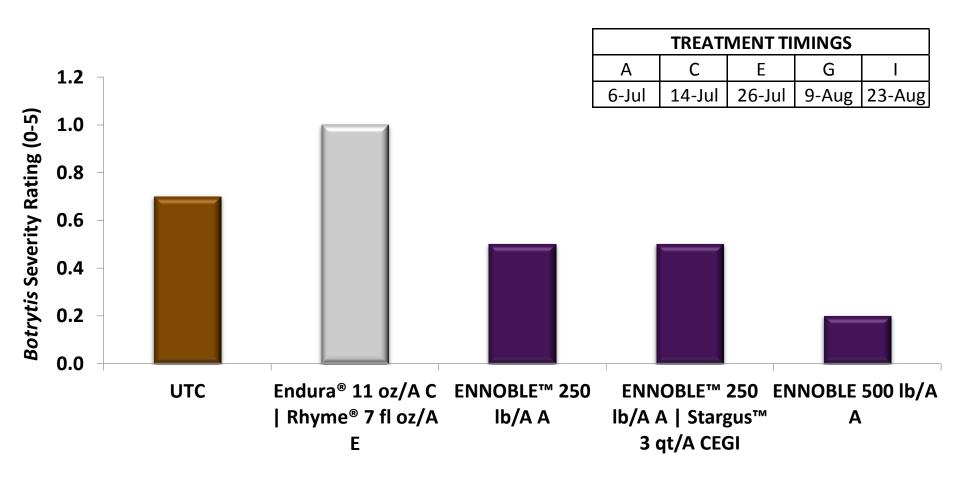




ENNOBLE™ & STARGUS® on Fusarium in Lettuce

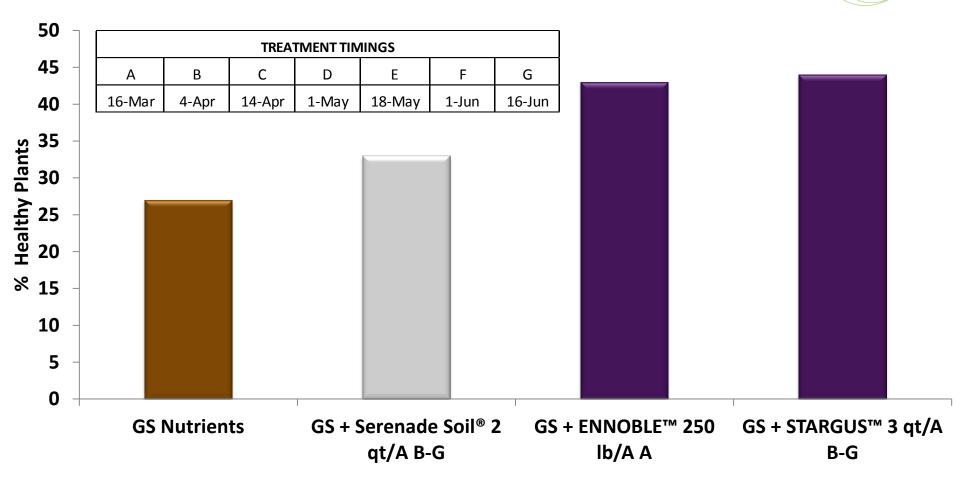


ENNOBLE™ & STARGUS® on Botrytis in Lettuce



ENNOBLE™ & STARGUS® on *Fusarium* in Celery

Holden Research, Camarillo, CA.









Thank you!

moneal@marronebio.com