



ORGANIC PEST MANAGEMENT PROGRAM  
**FRUITING VEGETABLES**



Enhance your fruiting vegetable integrated pest management program with the power of biologicals – proven solutions for problematic diseases & insects. This program guide explains when & how to use biologicals for the best control possible. Have questions? Contact a biological expert today. Contact info on back.

**PROTECT FRUITING VEGETABLES FROM:**

- ✓ *Phytophthora capsici*, *Verticillium*, *Fusarium*
- ✓ Armyworms & Tomato Fruitworm
- ✓ Bacterial Spot/Speck
- ✓ Early Blight, *Septoria* & *Cercospora* Leaf Spots
- ✓ Aphids, Mites, Thrips, Whiteflies
- ✓ Nematodes

**GREENHOUSE CLEANING**

Treat all surfaces (including floors, benches, ceilings, walls, plumbing, irrigation, drain areas, fans, heating vents, etc.) with Jet-Ag® 5% @ 7.8 oz./5 gal. of clean water (156 fl. oz. / 100 gal.) PLUS Jet-Wash @ 1.6 fl. oz./ 5 gal. (1 qt./100 gal.) of clean water. Coat surfaces thoroughly. No rinsing required. Make sure no heavy metal products (Copper, Zinc) are in tank.

**GREENHOUSE – PRE-TRANSPLANT**

**Disease Control:** (Damping-off, *Fusarium*, *Pythium*, etc.): Soil drench with Stargus® Biofungicide @ 1% v/v (1.28 fl. oz./gal. of water) prior to transplant. Can be applied weekly during the period in the greenhouse.

**Damping Off & Foliar Diseases:** Spray or “sprench” Jet-Ag 5% preventively @ 2 qts./100 gal. (3.2 fl. oz./5 gal.); curatively up to 4 qts./100 gal. (6.4 fl. oz./5 gal.).

**Soilborne Diseases:** Soilborne diseases can be treated with Stargus Biofungicide @ 1% v/v or 1.28 fl. oz./gal. of water. Apply drench solution at 2.3 gal./1,000 sqft.

**Plant Health:** Boost plant health via induced systemic resistance (ISR) & systemic acquired resistance (SAR) mechanisms with Regalia® Biofungicide. Treat by drenching or spraying with Regalia Biofungicide. Use at a rate of either 2 qts./A or 2 qts./100 gal. (3.2 fl. oz./5 gal.).

**TRANSPLANT**

Apply in transplant water, in-furrow or via drip irrigation for nematodes, wireworms and soilborne diseases. If in-furrow, apply in 5+ GPA.

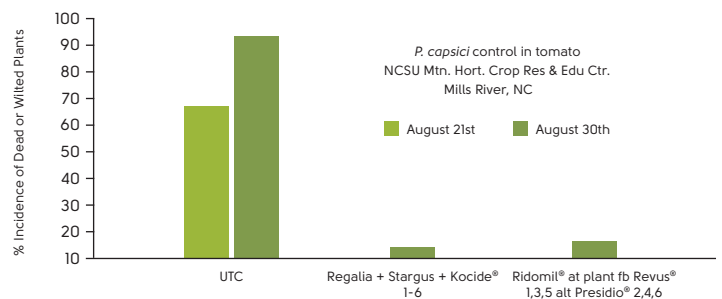
Transplant Water (75-100 GPA) or Drip

- Majestene® Bionematicide @ 1 gal./A
- Stargus Biogunficide @ 3-4 qts./A (for *Phytophthora capsici*, *Fusarium* spp., *Verticillium* spp.)

**CULTIVATION & LAYBY OR DRIP IRRIGATION**

Nematodes & Wireworms, & Soilborne Diseases (*P. capsici*, *Pythium*) - Majestene Bionematicide @ 1 gal./A & Stargus Biofungicide @ 1 gal./A. Spray & cultivate in with rolling cultivator & middle sweep if on bare-ground or inject via drip irrigation.

**Percent Incidence of Dead or Wilted Plants**



# ORGANIC PEST MANAGEMENT PROGRAM: FRUITING VEGETABLES

## FOLIAR INSECT & MITE CONTROL

### Armyworms, Tomato Fruitworm, European Corn Borer (ECB)\*

- Venerate® XC Bioinsecticide @ 1 qt./A + Bt @ 1-2 lb./A
- OR Entrust® SC @ 4-8 fl. oz./A

\*ECB control in peppers will be extremely difficult. Tighten spray schedule to 3-4 days during fruit set & sizing to achieve a reasonable level of control.

### Aphids & Whiteflies

- Venerate XC Bioinsecticide @ 1qt./A tank mixed with any of the following:
  - Azera 1-2 pt./A
  - PyGanic® 5.0 @ 0.5-1.0 pt./A
  - PyGanic® 1.4 @ 1 qt./A
  - Azadirachtin (varies, see label)
  - M-Pede® @ 1-2% v/v

### Twospotted Spider Mites

- Venerate XC Bioinsecticide @ 2 qt./A
- OR Grandevo® WDG Bioinsecticide @ 2 lb./A + any of the tank-mix partners listed for aphids & whiteflies

### Thrips

- Venerate XC Bioinsecticide @ 2 qt./A
- OR Grandevo WDG Bioinsecticide @ 2 lb./A ROTATED with Entrust SC @ 4-8 fl. oz./A

Grandevo WDG & Venerate XC performance is improved with the addition of a top-quality spreader-sticker.

### Bacterial Spot/Speck & Powdery Mildew

- Regalia Biofungicide @ 2 qt./A + Cu (see label)

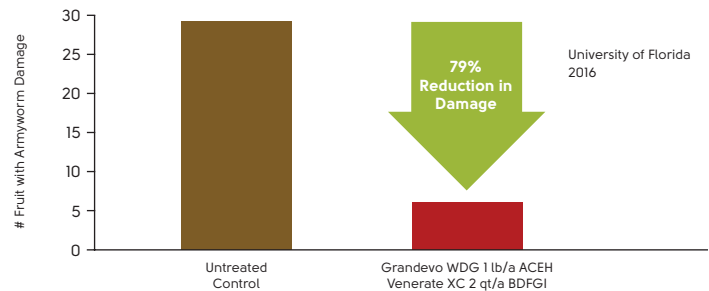
### Late Blight

- Stargus Biofungicide @ 4 qt./A + Cu

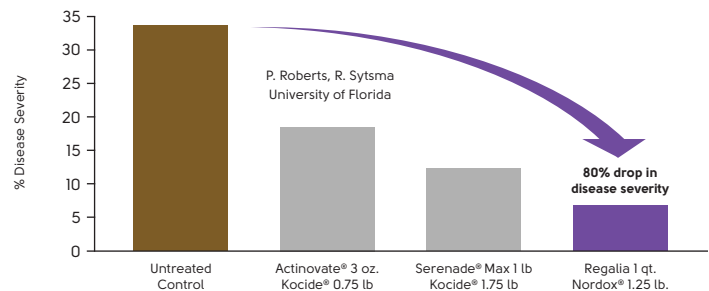
### Septoria & Cercospora Leaf Spots & Early Blight

- Regalia Biofungicide @ 2 qt./A + Cu (Optional)
- OR Stargus Biofungicide @ 2 qt./A

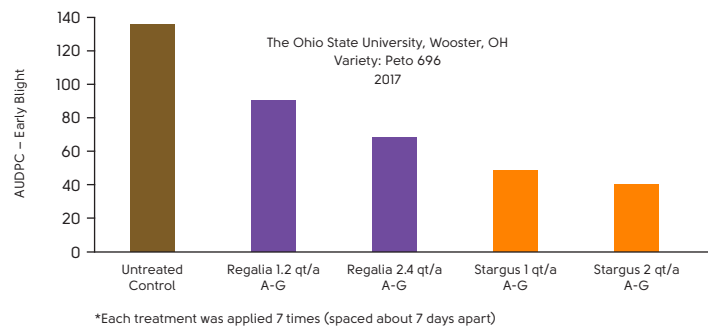
## Grandevo® and Venerate® Reduce Armyworm Damage in Tomato



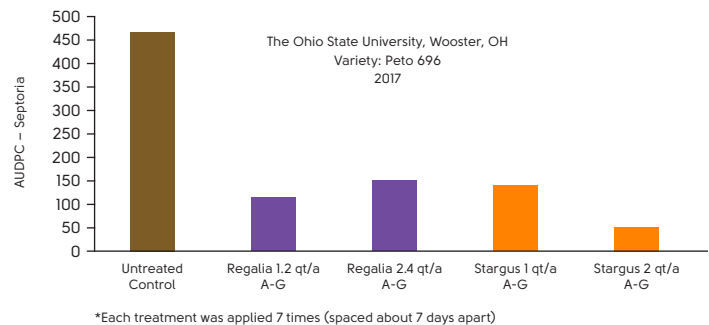
## Regalia® Plus Copper Provide Outstanding Control of Bacterial Spot in Tomatoes



## Stargus® and Regalia® Reduce Early Blight on Tomato



## Stargus® and Regalia® Reduce Septoria on Tomato



**TALK TO A BIOLOGICAL EXPERT**  
 Hal Blackmore  
 hblackmore@marronebio.com  
 Cell: 904-570-0041



[www.MarroneBio.com/FruitingVegetables](http://www.MarroneBio.com/FruitingVegetables)