

# BotaniGard®

## Mycoinsecticide

BotaniGard is a unique biological insecticide that is effective against a broad range of insects. It contains the highly successful *Beauveria bassiana* strain GHA, a naturally occurring soil fungus that attacks and kills hard-to-control turf pests.

BotaniGard's mode of action is unlike any conventional insecticide: Spores adhere to the host, germinate and produce enzymes that attack and dissolve the cuticle. The germinated spore then penetrates the cuticle and the fungus then grows rapidly within the insect, causing mortality.

### BotaniGard Benefits

- Unique mode of action – Spores infect and compromise insect's cuticle
- University proven as an excellent tool for resistance management
- Compatible for tank-mixes with many pesticides
- 4-hour REI

### Controls Many Pests Such As:

- Weevils
- Mole Crickets
- Ataenius
- Fall Armyworm
- Chinch Bugs
- Other Surface Feeders

### Application

- BotaniGard ES or BotaniGard 22 WP is a treatment to be applied at the first sign of insect infestation.
- Apply in sufficient volume to ensure thorough coverage of treated area. Refer to label.
- Reapply as necessary under a pest management program that includes close scouting.
- Intense pest outbreaks may require combination of BotaniGard with a compatible insecticide.

### BotaniGard & Molt-X®, a Combination Insects can't Resist

- Molt-X has been tested and shown to be an effective tank-mix and rotational partner with BotaniGard.
- Use Molt-X in combination with BotaniGard for an effective defense against resistant insect populations.
- Molt-X allows BotaniGard more time to work by disrupting the molting process.



It is recommended to store BotaniGard at temperatures below 85°F.

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To find out more about the BioWorks family of products, please contact us at 800-877-9443 or visit [www.bioworksinc.com](http://www.bioworksinc.com).



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How You Grow Matters™



# BotaniGard® ES Trial Data Summary

## BotaniGard ES / Bifenthrin Synergies vs ABW

### BotaniGard ES and Bifenthrin Benefits

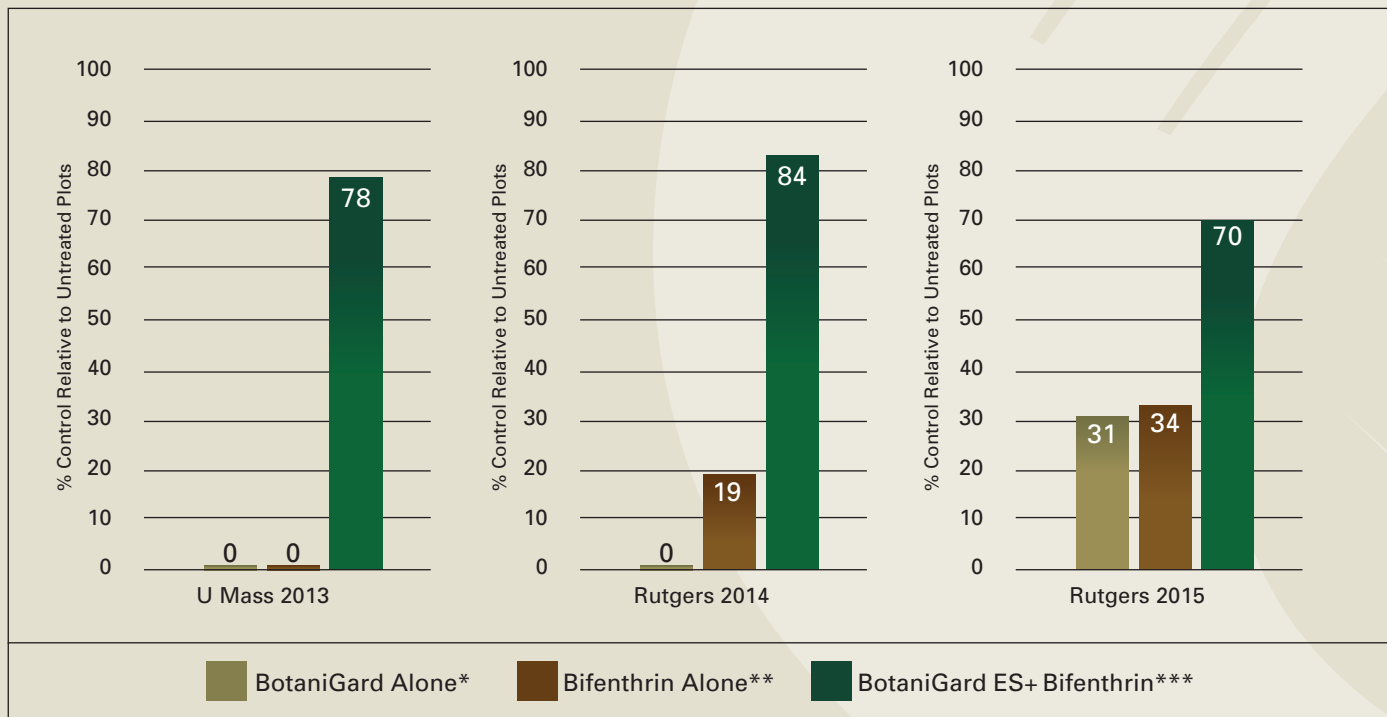
Three independent university trials have shown how Bifenthrin and BotaniGard ES act in a synergistic fashion to suppress annual bluegrass weevil populations on golf course fairways.

On pyrethroid-resistant populations, efficacy from either product is low to none when applied alone against adults. Applied together, however, efficacy jumps to >70%.

Adding BotaniGard ES to your pyrethroid application is a viable new approach for limiting resistance development:

- In populations that are still pyrethroid susceptible, the combination will delay or eliminate resistance development.
- In populations that are already pyrethroid resistant, the combination allows for the continued use of pyrethroids for adult control.

### BotaniGard ES/Bifenthrin Synergies vs ABW



Both products are biologically and physically compatible for tank-mixing based on studies with Talstar.

\*BotaniGard ES applied twice at the rate of 2 fl oz/1000 ft<sup>2</sup>.

\*\*Bifenthrin applied once at the rate of 0.1 lb AI/acre.

\*\*\*BotaniGard ES + Bifenthrin combinations had Bifenthrin applied once at the rate of 0.1 lb AI/acre and BotaniGard ES applied once at the rate of 4 fl oz/1000 ft<sup>2</sup> for U Mass or twice at the rate of 2 fl oz/1000 ft<sup>2</sup> for Rutgers.



## BioWorks®

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