

BIO Insecticide



PLANTPRODUCTS



grubTERMINATOR![®] This bio-insecticide available from **Plant Products** helps to protect the quality and value of landscape, recreational turf grasses and ornamental plants with the novel active ingredient; *Bacillus thuringiensis ssp. galleriae* (BTG).

Key benefits

Granular formulation makes it as easy as spreading fertilizer

- Protects the value of turf landscapes and ornamental plants by effectively controlling susceptible white grubs in the season of application
- Wide application window, can be used curatively and preventively
- Helps manage resistance to chemistries with a new mode of action for IPM programs
- No label restrictions for bees or flowering plants
- grubGONE! bio-insecticide provides a positive public perception
- Shelf life is greater than 17 months when stored as directed

Targets all important
grub species and
annual blue grass weevil

Grubs controlled by grubTERMINATOR!

Common Name	Latin Name
Japanese beetle	<i>Popillia japonica</i>
Oriental beetle	<i>Anomala orientalis</i>
Asiatic Garden Beetle	<i>Maladera castenea</i>
European Chafer	<i>Rhizotrogus majalis</i>
Black turfgrass ataenius	<i>Ataenius spretulus</i>
N. Masked Chafer	<i>Cyclocephala borealis</i>
S. Masked Chafer	<i>Cyclocephala lurida</i>
Annual bluegrass weevil larvae	<i>Listronotus maculicollis</i>
Green June beetle	<i>Cotinis nitida</i>



How grubTERMINATOR! works:

Bacillus thuringiensis ssp. galleriae (BTG)

Susceptible beetle/weevil eats powerful BTG protein crystal drenched into crown/root zone



Crystal dissolves & toxins activate in insect gut

Insect gut Receptor binding



Pore/Lesion Formation

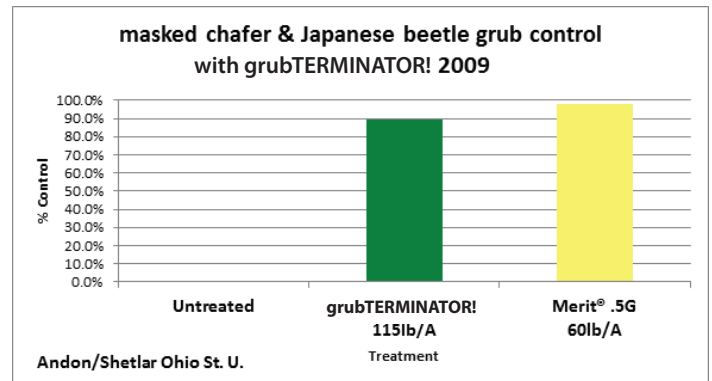
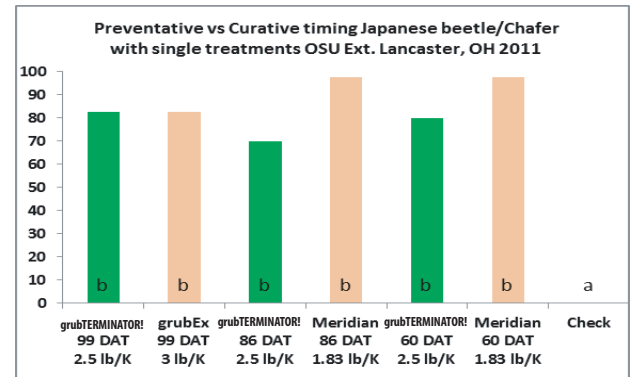
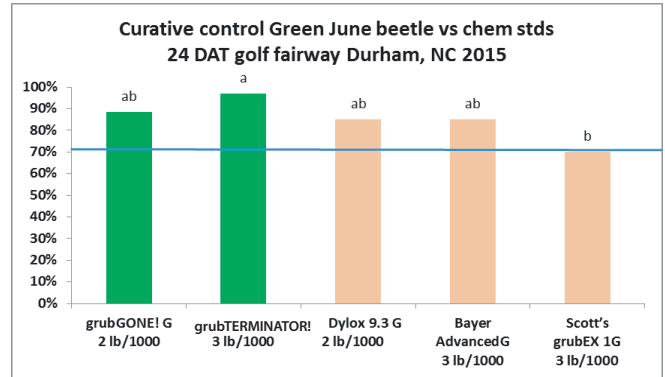
Disruption of Grub mid gut lining

Grub Stops Feeding



Septicemia /Infection

DEATH OF THE GRUB



manufactured by
Phyllom BioProducts
Protecting Forests, Farms and Landscapes®

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