Diamond™ 0.83EC Insecticide

Sugarcane Borer Efficacy in Sugarcane and Registration Update

Tim Ford - MANA ABM
Agricultural Technology & Management Conference
February 11-13, 2009
Diamond™ 0.83EC Insecticide
Physical Properties

- Common name is novaluron
- New chemistry – Chitin Inhibitor
  - Insect resistance management tool
- Residual Control
  - Product not degraded by UV light.
  - Product present on cotton and other crops for 14+ days.
  - Rainfast in a few hours
- IPM Friendly – easy on beneficial insects
- Low Mammalian toxicity
Diamond™ 0.83EC Insecticide
Mode of Action

Diamond inhibits chitin production resulting in the inability of the target insect to molt successfully to the next growth stage, thus causing death.
Applications were made on July 10 and August 9. All treatments were applied with Latron CS-7 @ 0.25% v/v.
Sugarcane Borer Control
St. Gabriel, LA - 2005

Application was made on July 26. All treatments were applied with Latron CS-7 @ 0.25% v/v.

Source: Dr. T.E. Reagan, LSU AgCenter.
Aerial applications (5 gal/A) were made on July 16 and August 13. All treatments were applied with Latron CS-7 @ 0.25% v/v. There were no treatment differences for any beneficial arthropod monitored.

Source: Dr. Grady Coburn, Pest Management Enterprises, Inc.
Sotile Sugarcane Borer Control - 2006
Farms - St. James Parish, LA

14 DAT

Treated 8-31-06 by air. Spray Volume = 2 GPA. NIS added @ 0.25% v/v.
10% live SCB larvae behind leaf sheaths @ time of application.
<1% live SCB larvae @ 7 DAT.

Source: Fred Posey - Calvin Viator and Associates, LLC
Diamond 0.83EC
Label Use Pattern - Sugarcane

- Use Rates: Sugarcane Borer - 9-12 fl oz/A
  Mexican Rice Borer – 12 fl oz/A
- Application Volume: Air – 2 to 5 gal/A
- Ground – 10 gal/A minimum
- Timing: At SCB / MRB economic thresholds determined by local authorities, e.g. 5% larval infestations.
- Do not apply more than 5 applications per season
- Do not apply more than 60 ounces per acre per season
- ‘Warning’ signal word - potential temporary eye injury
- PHI = 14 days, REI = of 12 hours.
Diamond™ 0.83EC for Sugarcane Registration Status

- Federal Sec. 3 registration has issued
- Applications for state registration is underway