

# Diamond™ 0.83EC Insecticide

## Sugarcane Borer Efficacy in Sugarcane and Registration Update

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# 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**



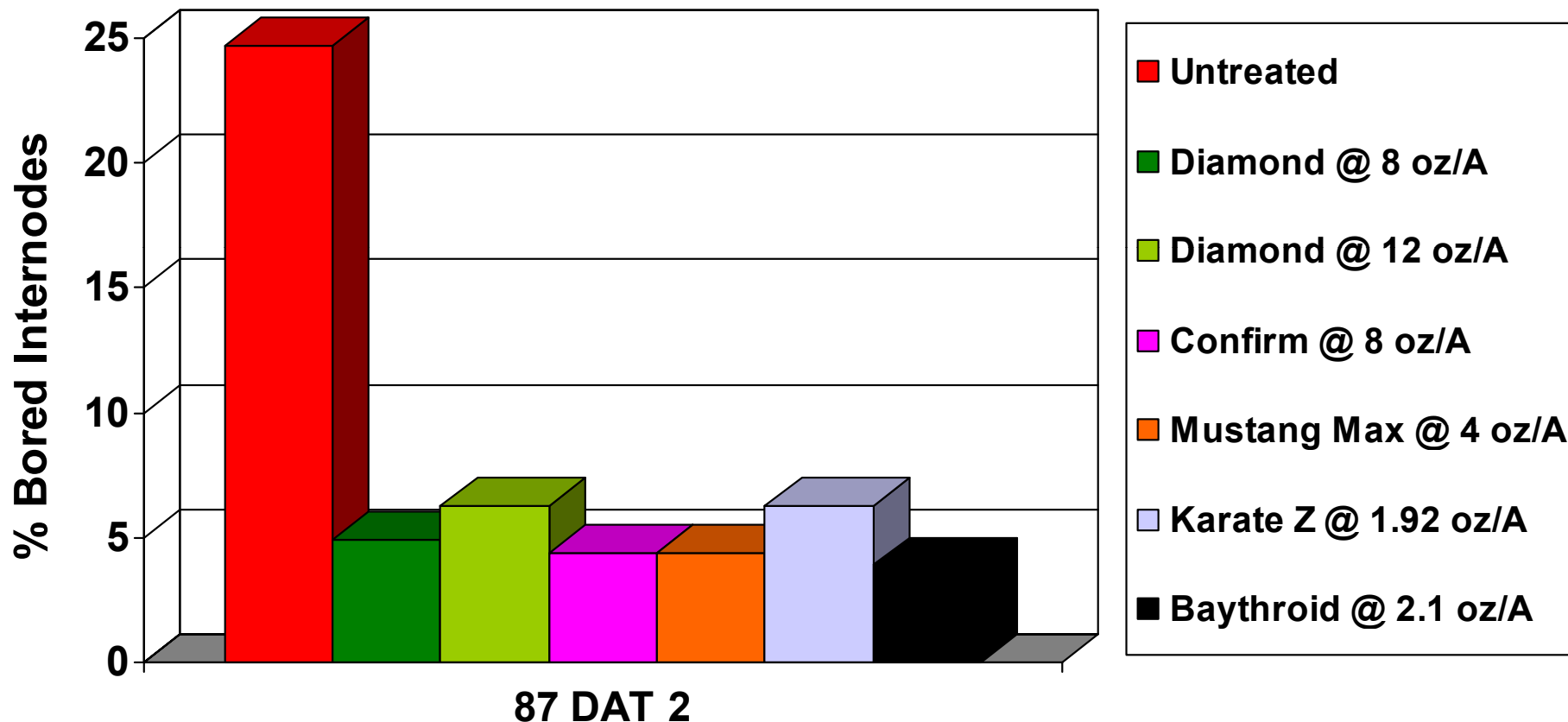
# **Diamond™ 0.83EC Insecticide**

## **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.**

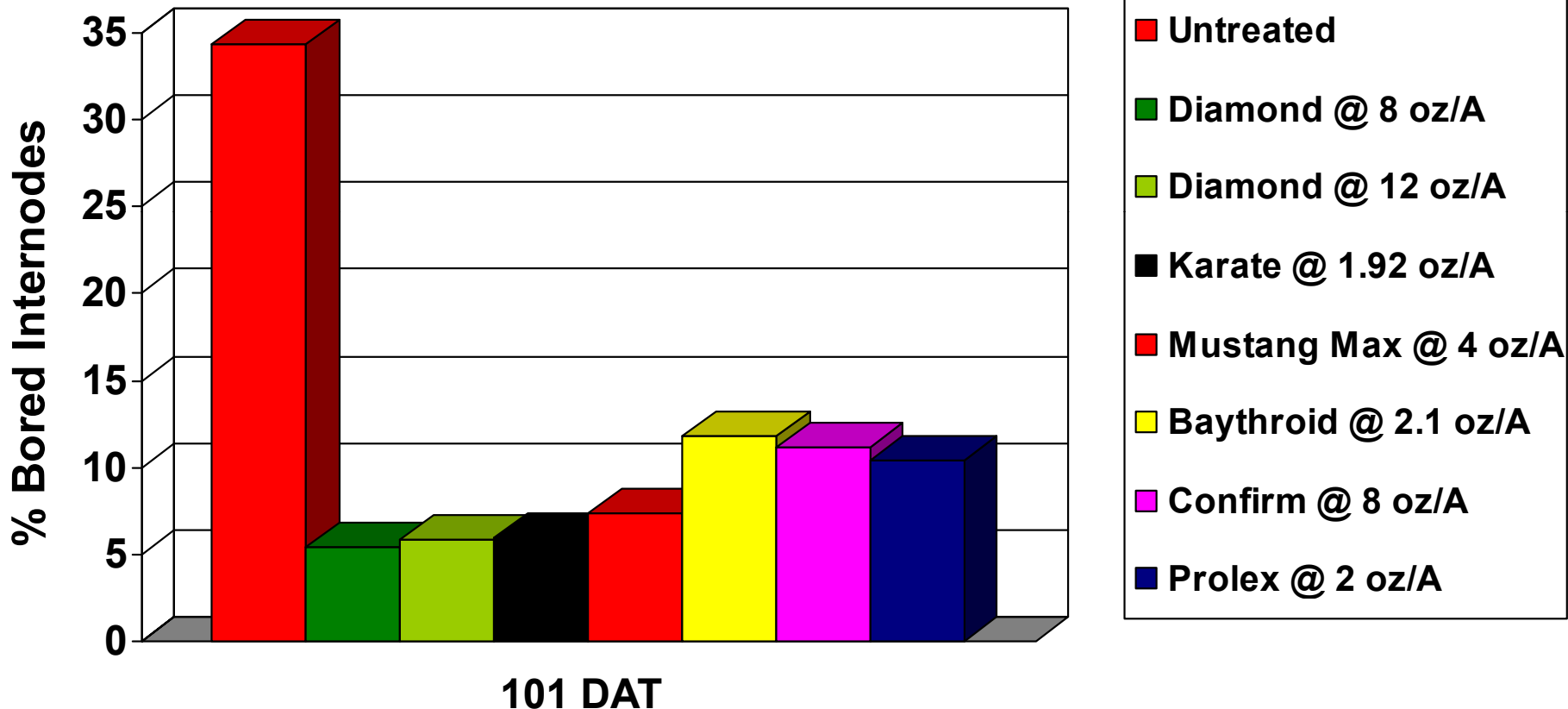


# Sugarcane Borer Control St. Gabriel, LA - 2004



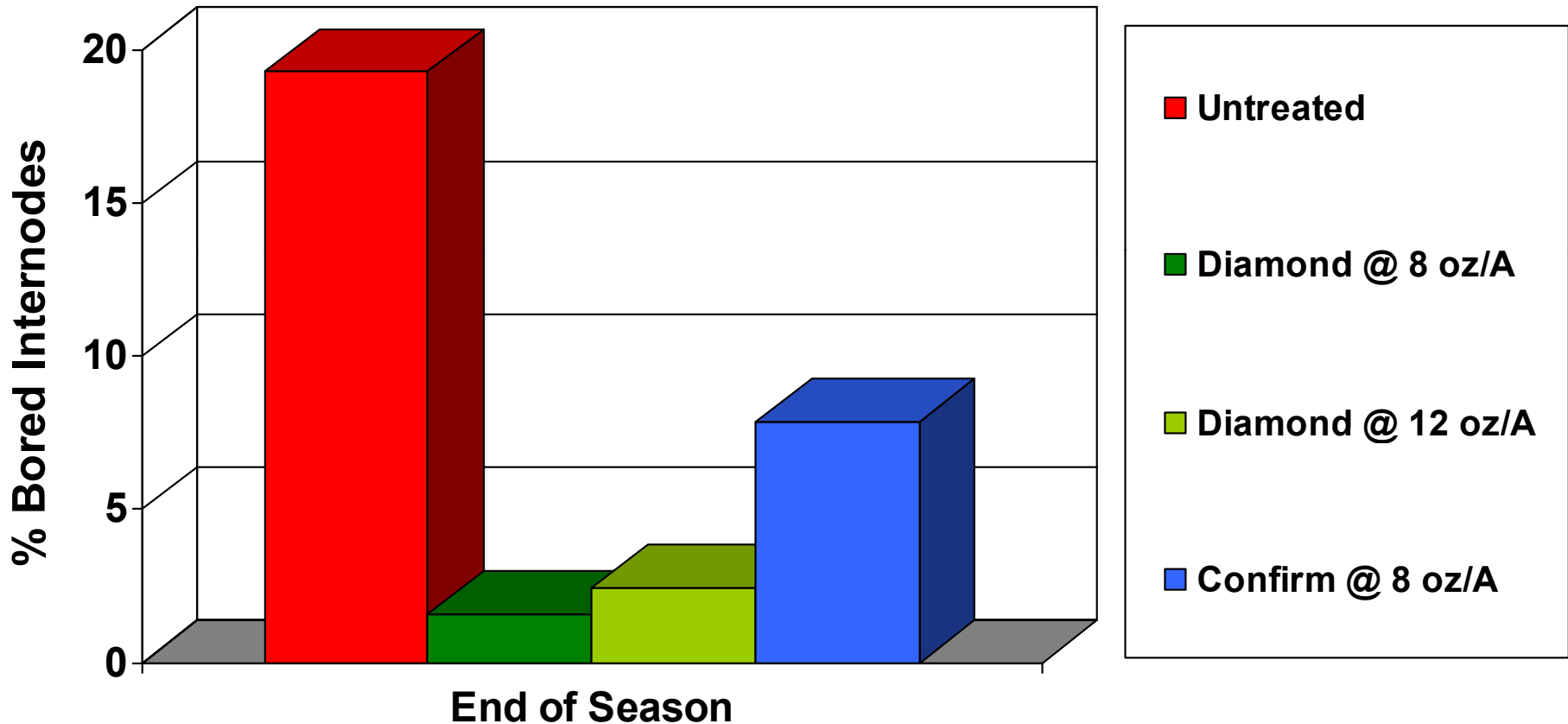
Applications were made on July 10 and August 9. All treatments were applied with Latron CS-7 @ 0.25% v/v.

# 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.

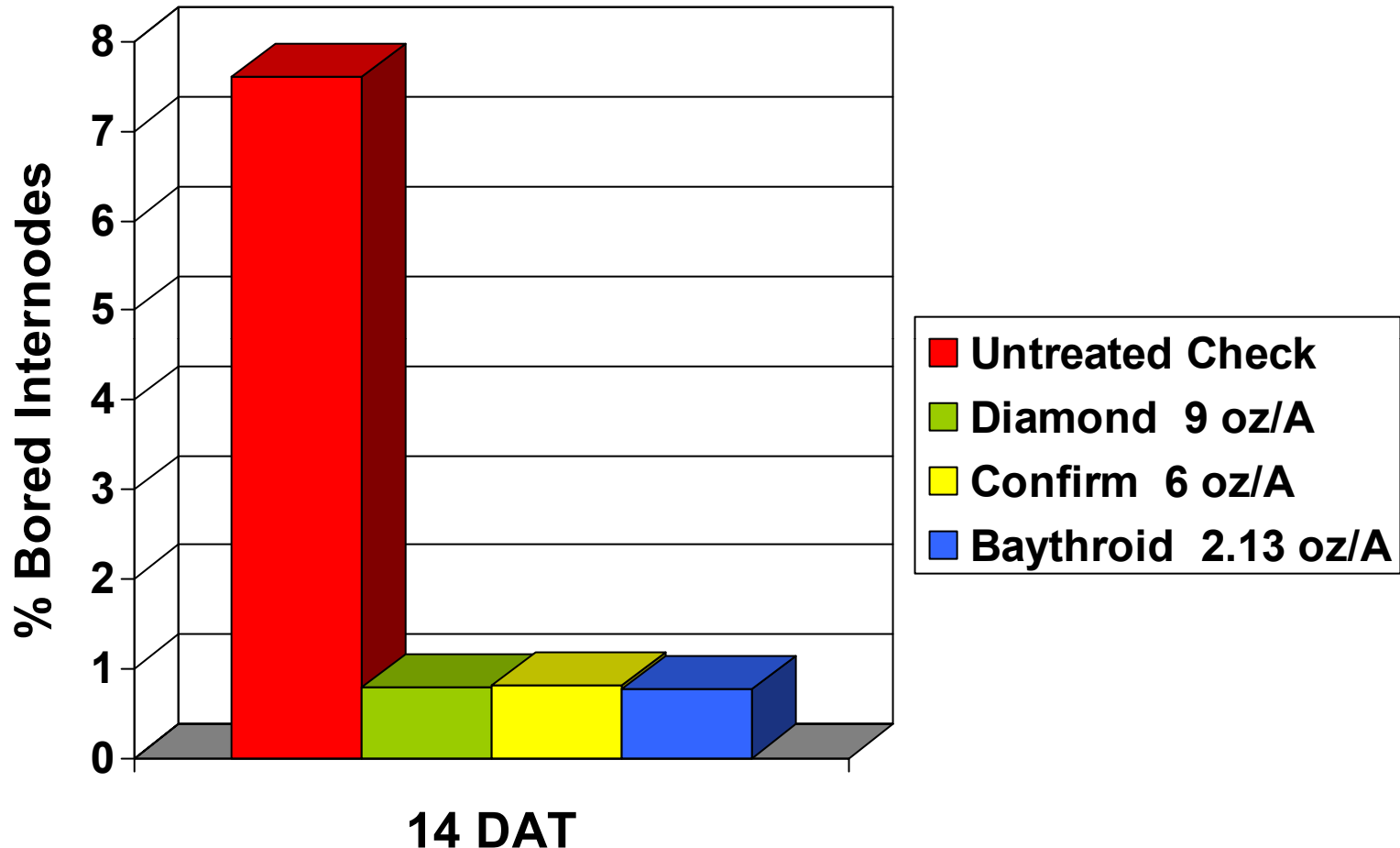
# Sugarcane Borer Control Cheneyville, LA – 2004



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.

# Sotile Sugarcane Borer Control - 2006

## Farms - St. James Parish, LA



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.

# 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**

