

# **Insecticidal Control of Stem Borers**

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# Stem Borer Insecticides

## Selective Chemistries



**Confirm<sup>®</sup> 2F**  
INSECTICIDE

**Tebufenozide: Juvenile hormone mimic, causes insects to molt prematurely**



**DuPont<sup>™</sup> Prevathon<sup>™</sup>**  
insect control  
with the active ingredient  
**RYNAXYPYR<sup>®</sup>**

**Rynaxypyr (chlorantraniliprole): Impedes smooth muscle function in larvae**



**GROUP 15 INSECTICIDE**

**Diamond<sup>®</sup>**  
**0.83EC**

ACTIVE INGREDIENT:	% BY WT.
Novaluron: 1-[3-chloro-4-(1,1,2-trifluoro-2-trifluoro-methoxyethoxy)phenyl]-3-(2,6-difluorobenzoyl)urea*	9.3%
OTHER INGREDIENTS:	90.7%
TOTAL:	100.0%

\*Contains 0.83 lbs. novaluron per gallon.  
EPA Reg. No. 66222-35

EPA Est. No. 37429-GA-001<sup>†</sup>; 37429-GA-002<sup>††</sup>  
Letter(s) in lot number correspond(s) to superscript in EPA Est. No.

**Novaluron: Prevents synthesis of chitin and disrupts molting**



**Besiege<sup>®</sup>**

**Chlorantraniliprole + lambda-cyhalothrin**

**All products kill worms (caterpillars) while preserving natural enemies (except Besiege).**

# **Percentage bored internodes**

**Directly related to yield losses in  
cane tonnage and sucrose content**

**≈\$8 lost/acre for each 1% bored**

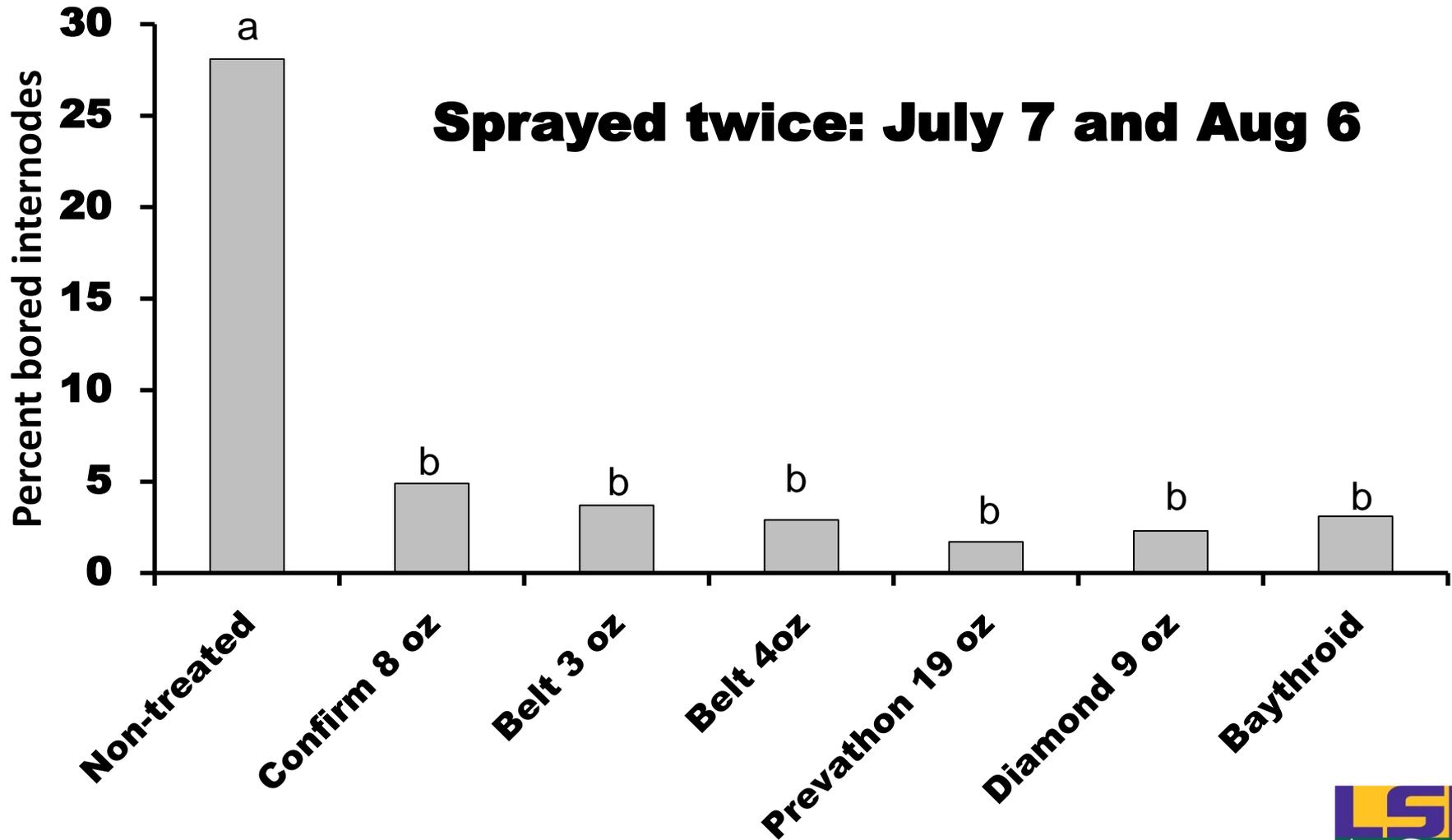
**15-30% bored in untreated fields is  
not uncommon**

**Check injury at harvest**

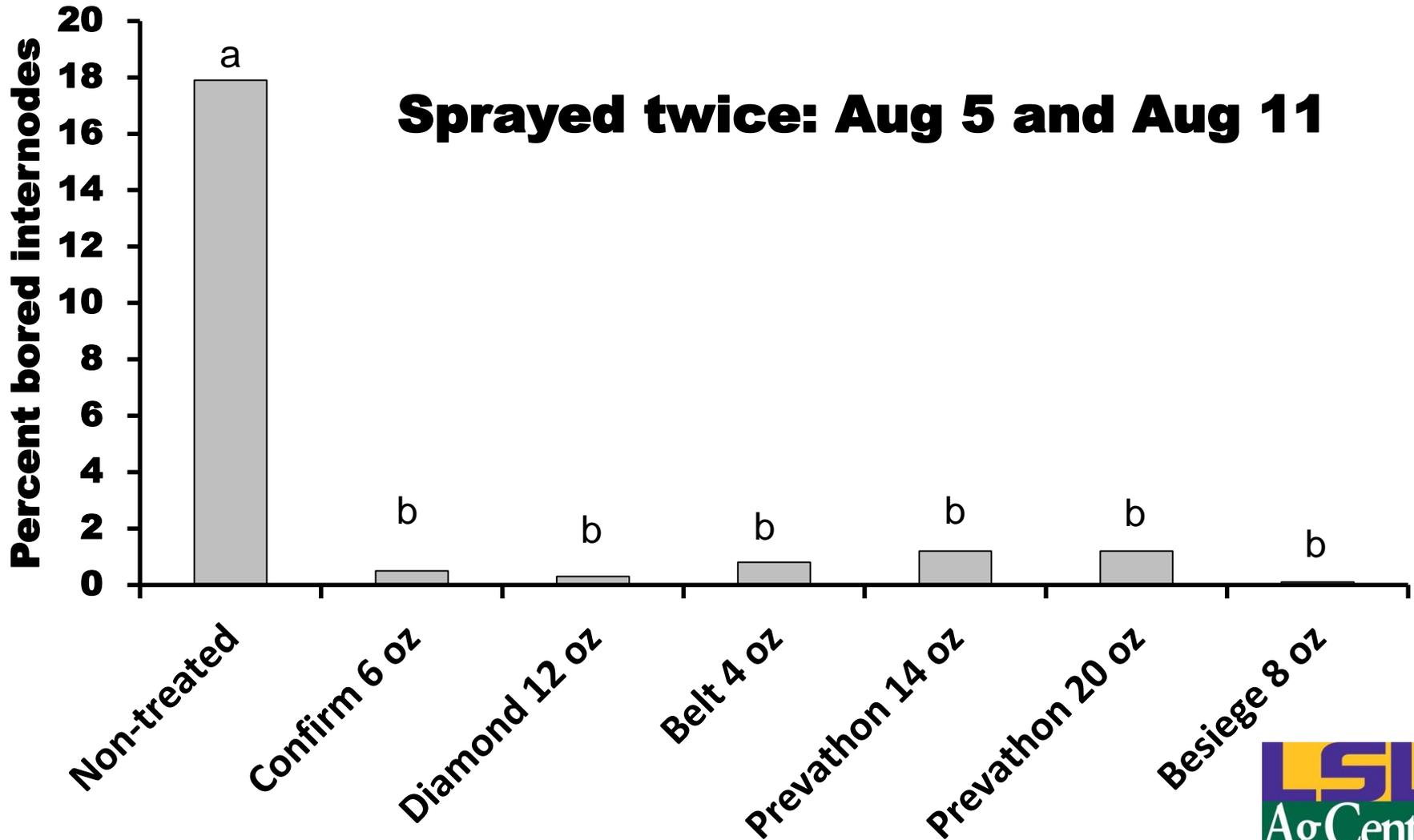
# Insecticides for SCB Control

## St. Mary Parish, 2009

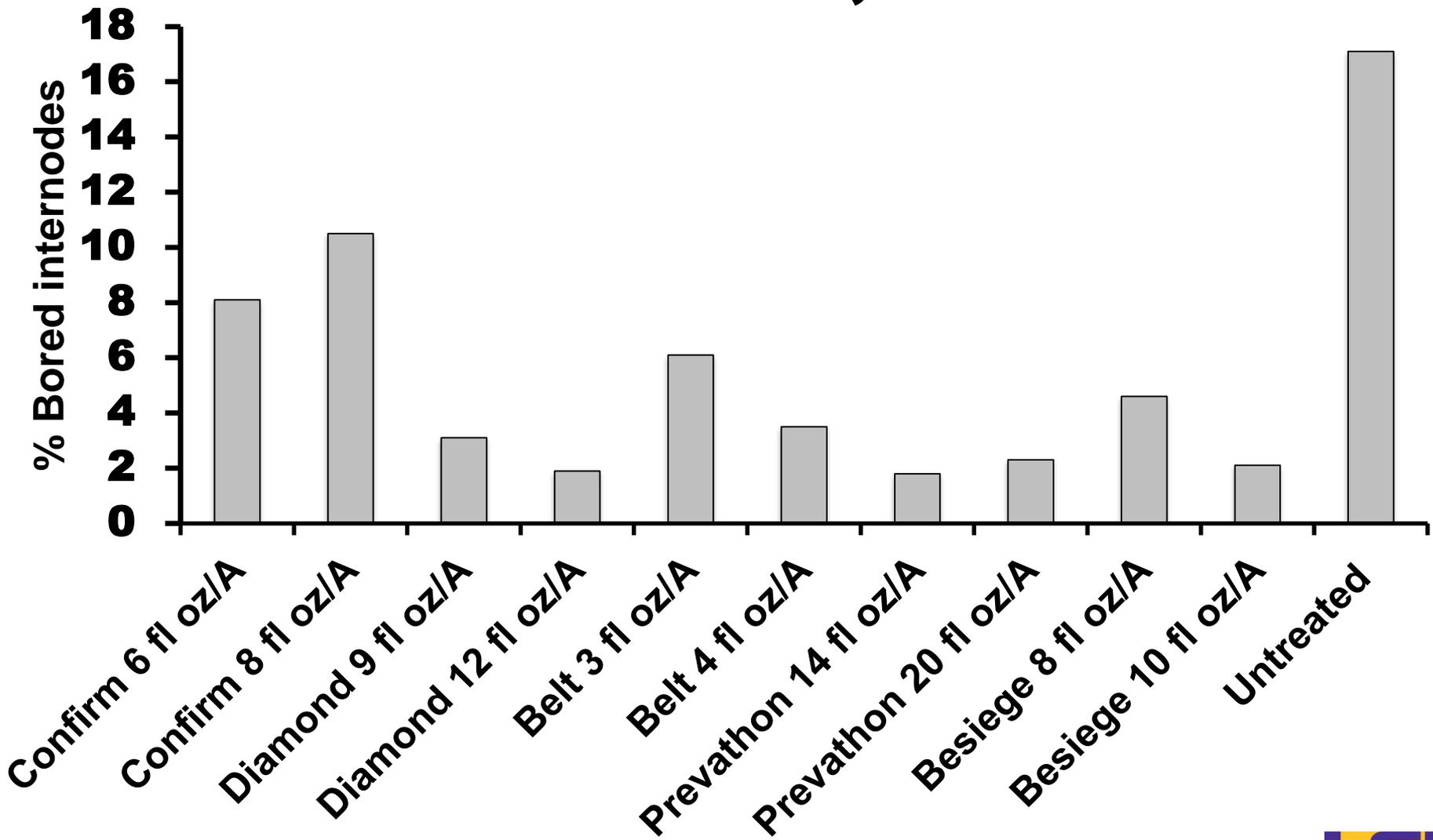
**Sprayed twice: July 7 and Aug 6**



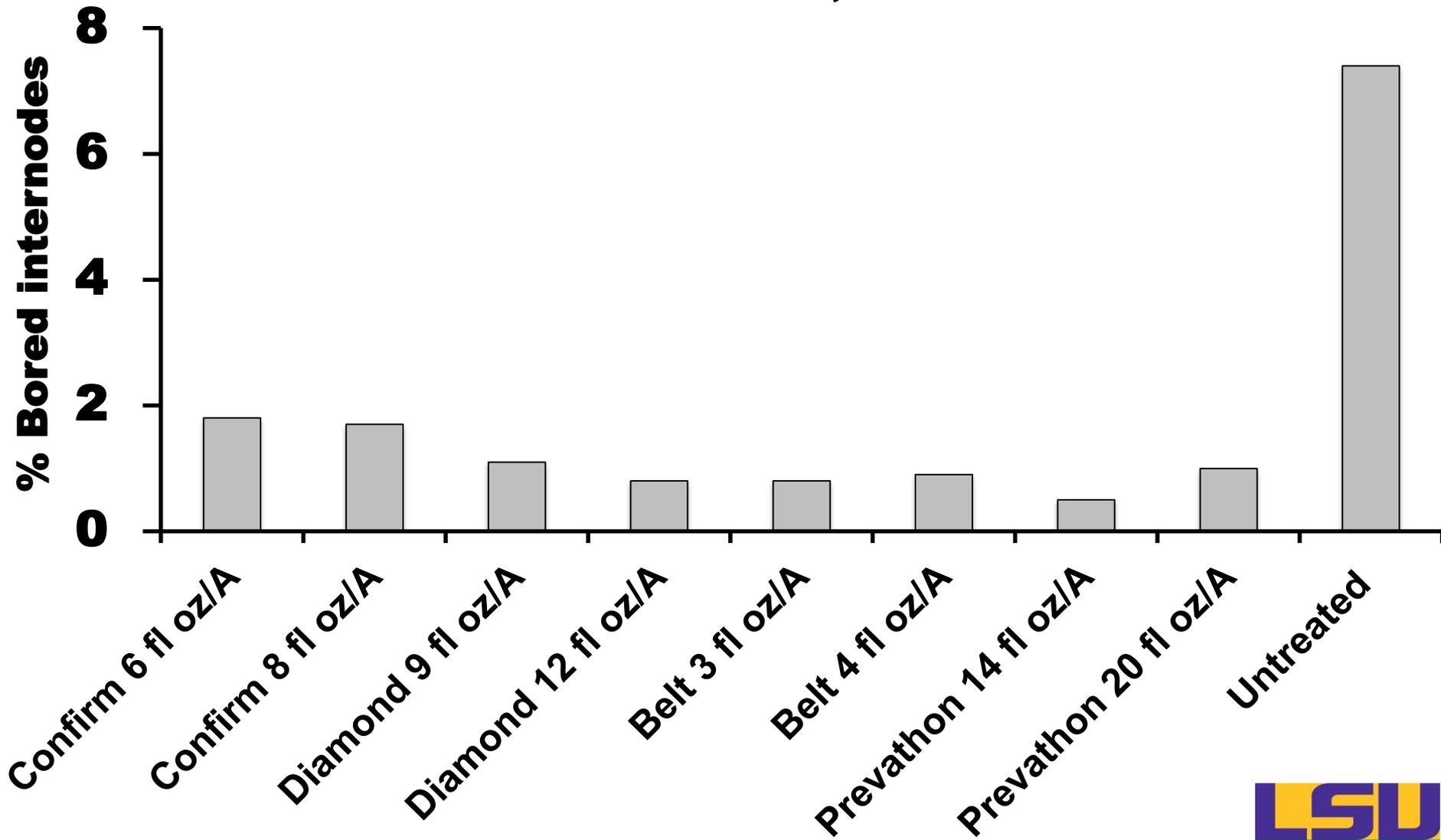
# Insecticides for SCB Control St. Mary Parish, 2011



# Insecticides for SCB Control Iberia Parish, 2013



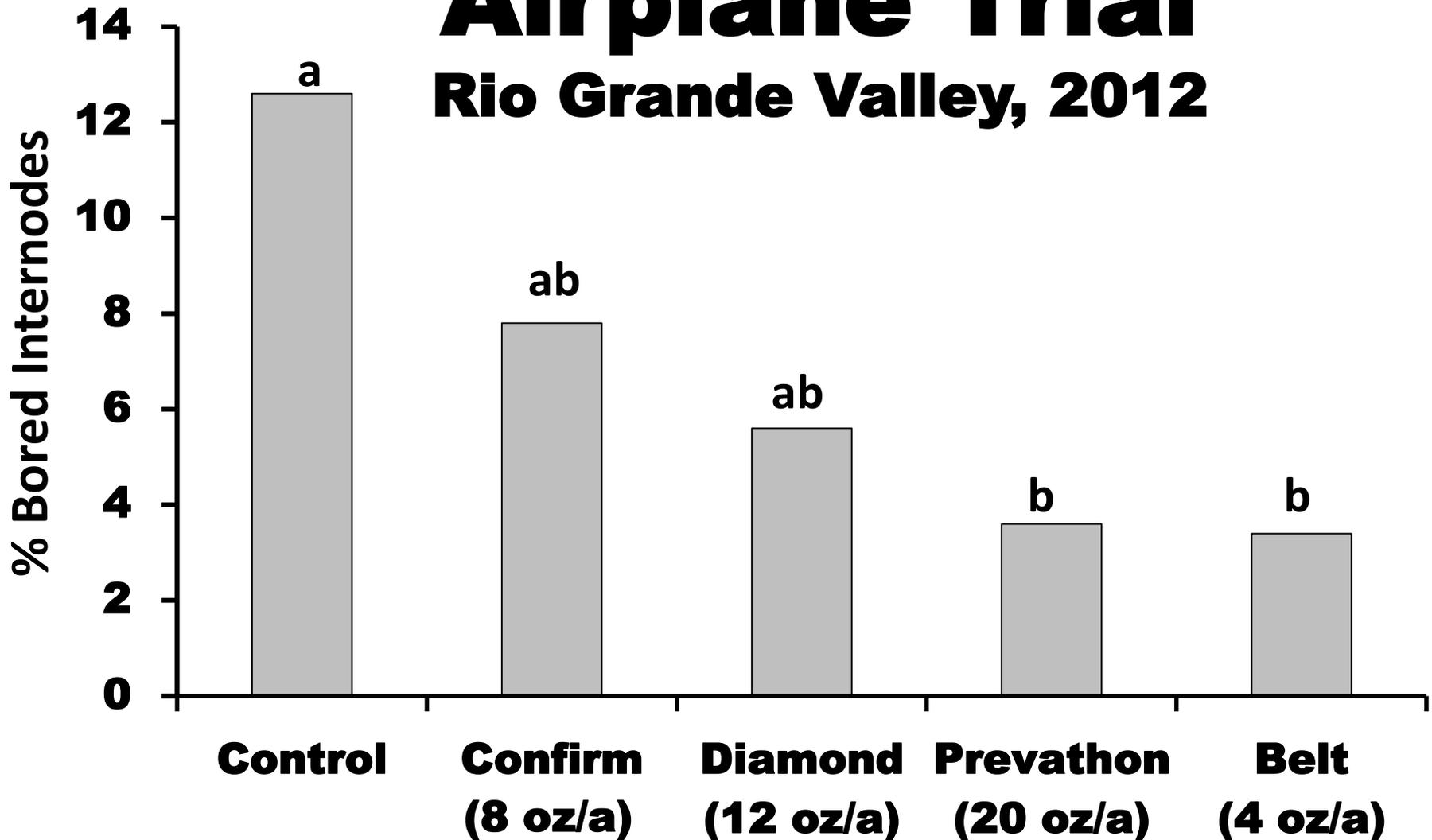
# Insecticides for SCB Control Iberia Parish, 2014



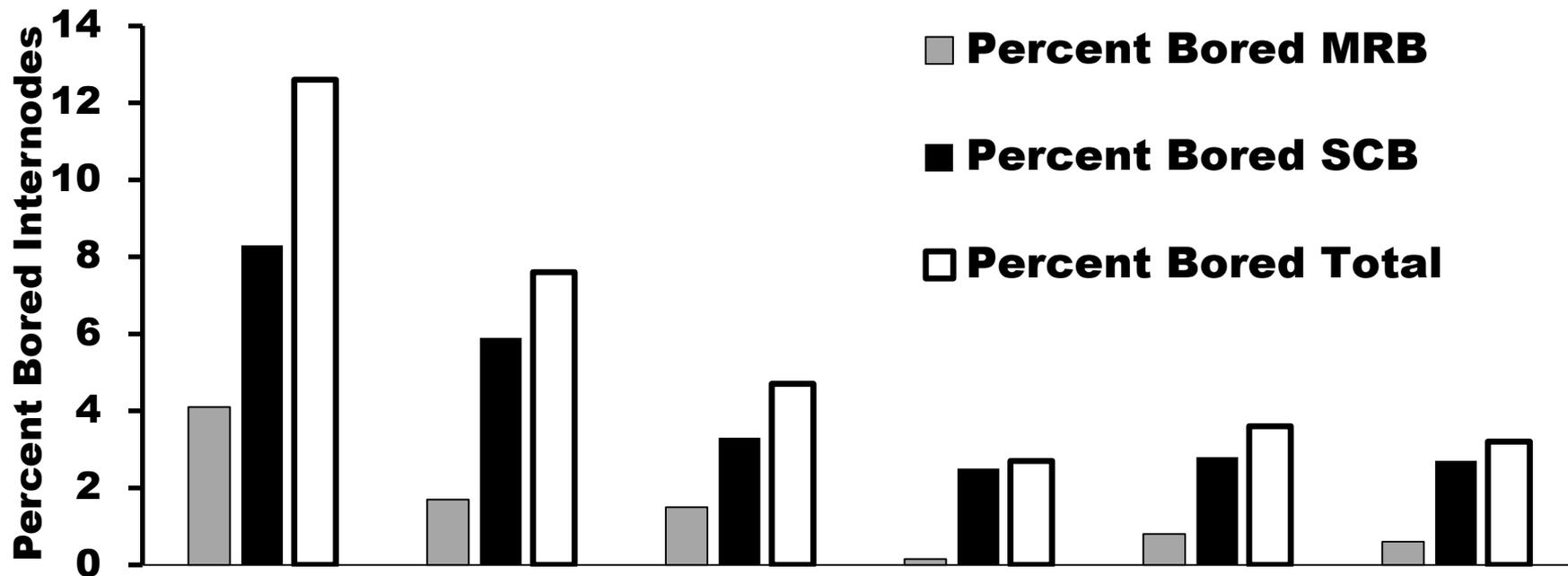
# Mexican Rice Borer

## Airplane Trial

Rio Grande Valley, 2012

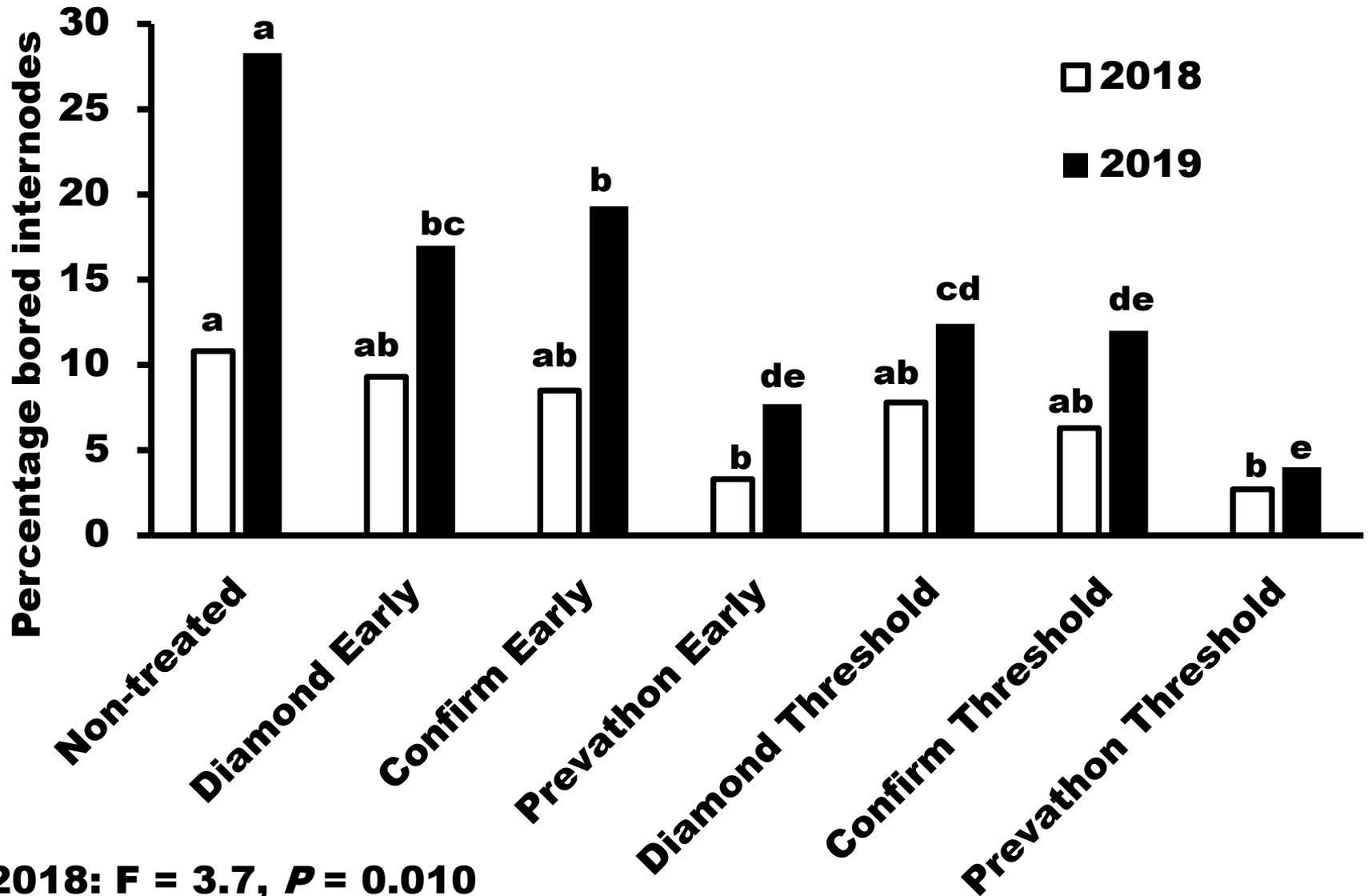


# Insecticides for SCB+MRB Control Vermilion Parish, 2017



**Sprayed July 8**

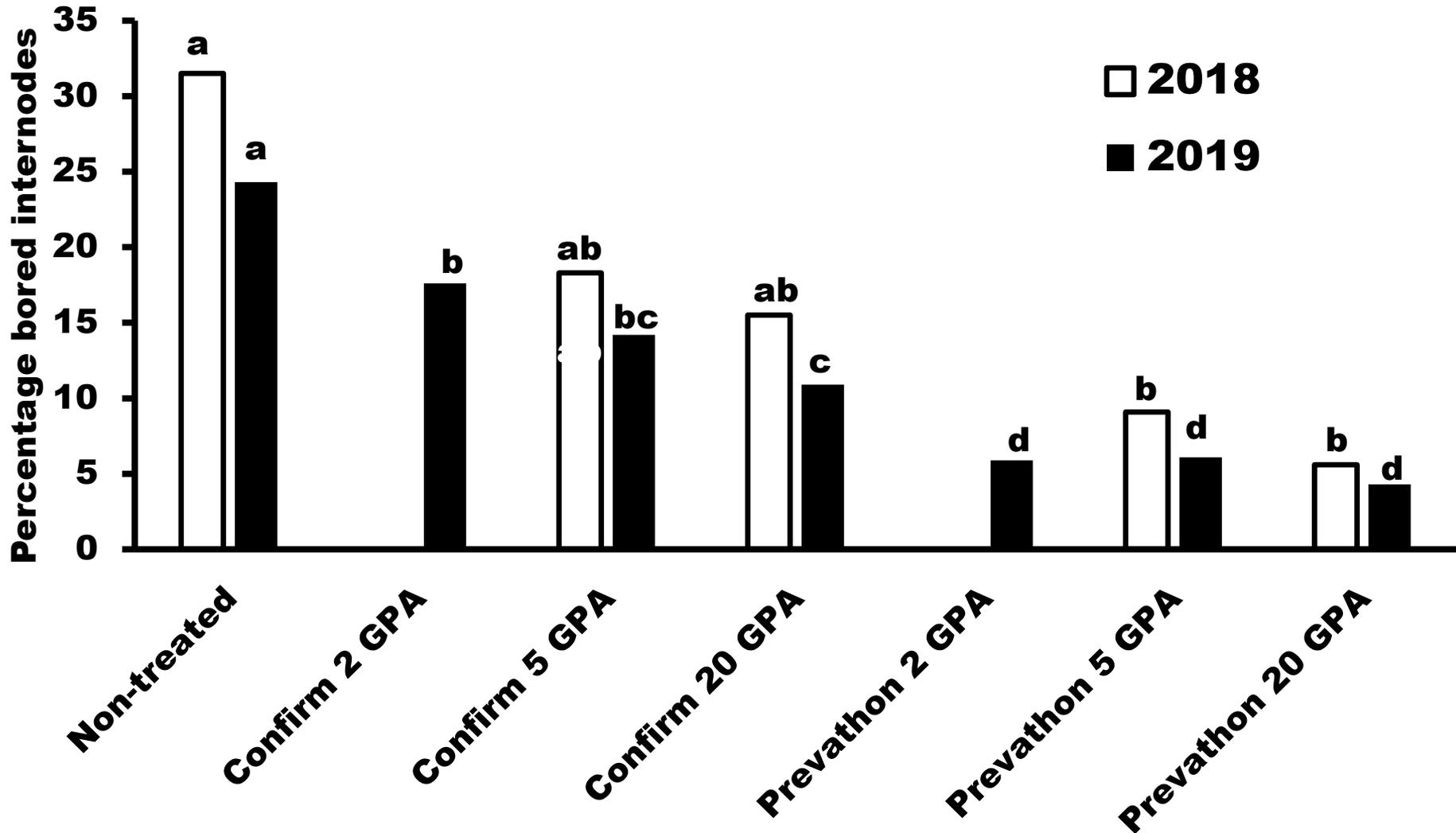
# Insecticide Timing St. Gabe 2018-2019



2018:  $F = 3.7$ ,  $P = 0.010$

2019  $F = 39.4$ ,  $P < 0.001$

# Water Volume, St. Gabe 2018-2019



2018:  $F = 15.3$ ,  $P < 0.001$

2019  $F = 40.9$ ,  $P < 0.001$

# **Conclusions and considerations**

## **Prevathon is most effective**

**Provides around 6 weeks of protection**

**Should reduce the need to treat fields twice**

**Confirm may no longer be available in 2020**