



# Prevathon™ for Control of Key Pests in Sugarcane



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4/18/2012

# Rynaxypyr<sup>®</sup> Technical Info and Formulations

## § Chemical name – Chlorantraniliprole

§ Group 28 Insecticide - Ryanodine receptor modulators

## § Rynaxypyr<sup>®</sup> is labeled on more than 400 crops

## § Currently sold as:

§ Coragen<sup>®</sup>: 1.67 lb ai/gal suspension concentrate      Primarily vegetables and row crops

§ Prevathon<sup>®</sup>: 0.43 lb ai/gal suspension concentrate      Primarily row crops – corn, sugarcane, cotton  
Soybeans, sorghum and wheat expected in 2013

§ Altacor<sup>®</sup>: 35 % water-dispersible granules      Primarily fruit

§ Dermacor<sup>®</sup> X-100 : 5.21 lb ai/gal suspension concentrate      Seed treatment formulation

## § Excellent Toxicology – No Signal Word required

## § Applicator PPE :

§ Long-sleeved shirt and long pants.

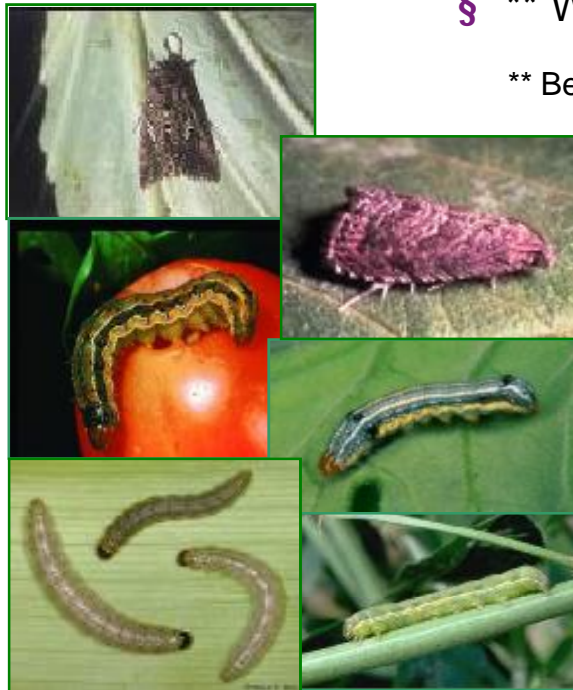
§ Shoes plus socks.



# Effective and Uniquely Broad Spectrum

## Lepidoptera

- § Sugarcane Borer
- § Armyworms (beet, southern, fall, western yellowstriped)
- § Tobacco budworm
- § Cotton Bollworm
- § Saltmarsh caterpillar
- § Cabbage looper
- § Soybean looper\*
- § Tomato fruitworm & pinworm
- § Hornworms
- § Webworms
- § Potato tuberworm
- § Diamondback moth
- § Imported cabbageworm
- § European corn borer
- § Melonworm, Pickleworm
- § Cutworms
- § Rice stem borers



## Others

- § Colorado potato beetle
- § Rice water weevil
- § \*\* Pepper weevil
- § \*\* Serpentine vegetable leafminer
- § \*\* Whiteflies

\*\* Best Performance with applied via soil



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§ \* Suppression

# Insect Poisoning Symptoms

## Primary route of exposure - Ingestion

- § Rapid feeding cessation
- § General lethargy
- § Regurgitation
- § Muscle paralysis
- § Death within 72 hrs



**INTOXICATED LARVAE**



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Photos: R. Armstrong, Delaware, USA



# Biological Features

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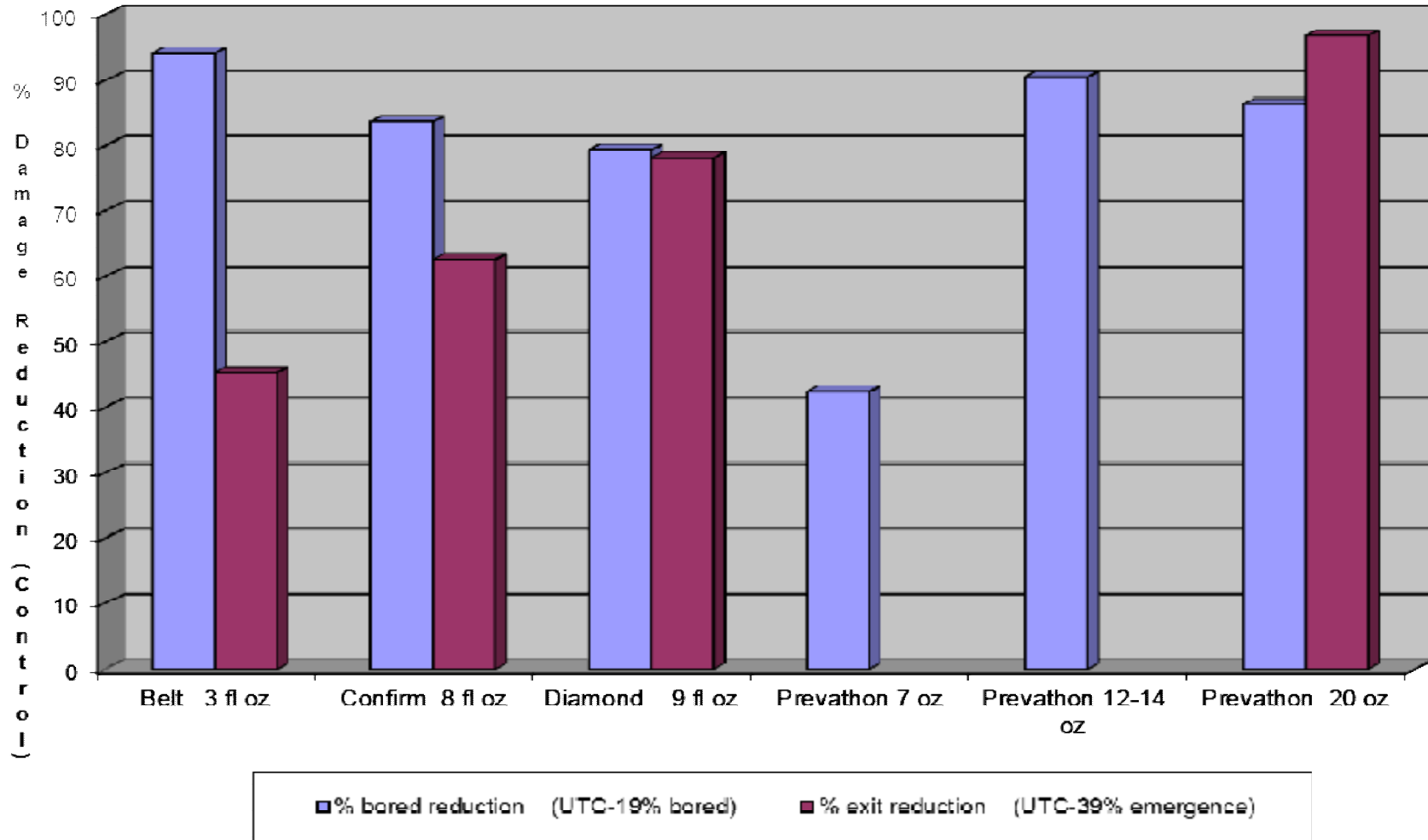
# Materials and Methods

- 7 trials from 2008 – 2011
- 2 States = Louisiana, Texas
- Majority of trials 3 - 4 replicates
- Majority 15 – 60 PSI and 20-40 GPA
- Tractor Mounted Sprayers



# Performance against *Borers in Sugarcane*

## *Combined Sugarcane and Mexican Rice borer data*



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*Data: DuPont and University trials 2002 - 2011*



# Label DFU

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<b>Crop</b>	<b>Application Method</b>	<b>Target Pest</b>	<b>DUPONT™ PREVATHON™ RATE</b>		<b>Last Application (Days to Harvest)</b>	<b>REI (Hours)</b>
			<b>Lb. ai per acre</b>	<b>fluid ounces product per acre</b>		
Sugarcane	FOLIAR	Sugarcane borer	0.047 - 0.067	14.0 - 20.0	14	4
<b>USE RESTRICTIONS</b> Make no more than 4 applications per acre per crop. Minimum interval between treatments is 7 days. Do not apply more than 59.7 fl oz PREVATHON™ or 0.2 lbs a.i. of chlorantraniliprole containing products per acre per crop.						



# DuPont Prevathon™

*In a nutshell ....*

- Ø New mode of action
- Ø Favorable Toxicological and Eco-toxicological profile
- Ø Long-lasting
- Ø Broad Spectrum
- Ø Excellent crop safety
- Ø Soft on beneficial arthropods
- Ø Excellent fit into IPM and IRM Programs



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# Questions ?



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