

**Project Code: N/A**

**Project Title: BG II Overspray 2008**

**GENERAL TRIAL INFORMATION**

Study Director: Gus Lorenz  
Investigators: Gus Lorenz, Kyle Colwell, Heather Wilf, Nichole Taillon  
Location: Jefferson Co., AR

**CROP AND PEST DESCRIPTION**

Pest: Bollworms  
Crop: Cotton  
Variety: Stoneville 4554 B2RF  
Plot Width, Unit: 12.5 ft.  
Plot Length, Unit: 50 ft.  
Replications: 4  
Site Type: field  
Study Design: Randomized Complete Block

**APPLICATION DESCRIPTION**

Application Date: July 28, 2008  
Application Method: Spray  
Application Placement: Foliar

**APPLICATION EQUIPMENT**

Appl. Equipment: Hi-Cycle (John Deere 6500)  
Operating Pressure: 40 psi  
Nozzle Type: conejet  
Nozzle Size: Tee-Jet TXVS 6  
Nozzle Spacing, Unit: 19in  
Ground Speed, Unit: 3 mph  
Carrier: water  
Spray Volume, Unit: 10  
Propellant: air pressure

**MATERIALS AND METHODS**

The trial was located in Jefferson County, Arkansas, 2008. Plot size was 12.5ft. by 50ft. Insecticide treatments were applied with a John Deere 6500 Hi-Cycle. The boom was fitted with TX6 hollow cone nozzles at 19 in. nozzle spacing. Spray volume was 10 gal/a, 40 psi. Insect density was determined by sampling 25 terminals, squares, blooms, and bolls per plot. Samples were taken on July 24, 31, and August 5, 13, 2008. Data was processed using Agriculture Research Manager Version 8, AOV, and Duncan's New Multiple Range Test (P=0.10).

## RESULT

**Table 1. BG II Overspray Damage at Each Sampling Date**

Application Date: July 28, 2008

Rating Date: July 24, 31, and August 5, 13, 2008

BG II Overspray Damage Found/25 Terminals, Squares, Bolls, and Blooms				
Treatments	Sampling Date			
	7/24/2008	7/31/2008	8/5/2008	8/13/2008
UTC	1 a	19 a	1 a	3 ab
Coragen .033 ai/a	0 a	18 a	0 a	1 b
Coragen .044 lb ai/a	1 a	18 a	1 a	0 b
Coragen .022 lb ai/a + ASANA XL .03 lb ai/a	2 a	19 a	0 a	1 b
ASANA XL .036 lb ai/a	2 a	19 a	1 a	6 a
TRACER 2.5 oz/a	0 a	19 a	1 a	1 b

**Chart 1. BG II Overspray Seasonal Total Damage**

Application Date: July 28, 2008

Rating Date: July 24, 31, and August 5, 13, 2008



**Table 2. BG II Overspray Damage at Each Sampling Date**

Application Date: July 28, 2008

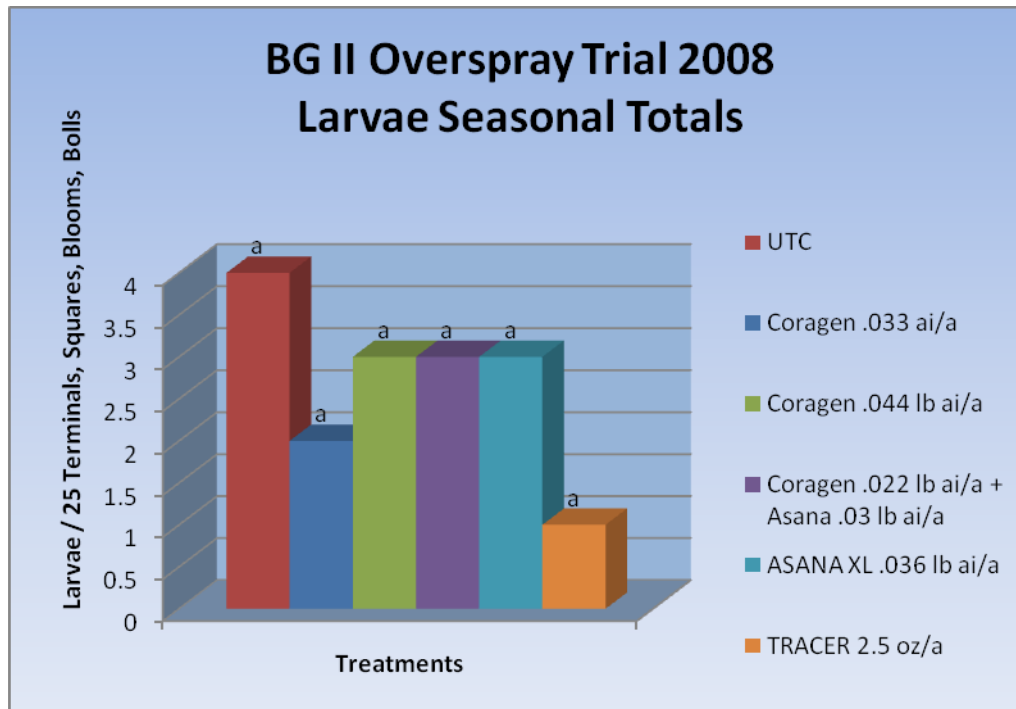
Rating Date: July 24, 31, and August 5, 13, 2008

BG II Overspray Larvae Found/25 Terminals, Squares, Bolls, and Blooms				
Treatments	Sampling Date			
	7/24/2008	7/31/2008	8/5/2008	8/13/2008
UTC	2 a	1 a	1 a	1 a
Coragen .033 ai/a	0 a	0 a	1 a	0 a
Coragen .044 lb ai/a	1 a	0 a	2 a	0 a
Coragen .022 lb ai/a + ASANA XL .03 lb ai/a	2 a	0 a	1 a	1 a
ASANA XL .036 lb ai/a	2 a	0 a	0 a	1 a
TRACER 2.5 oz/a	0 a	0 a	1 a	0 a

**Chart 2. BG II Overspray Seasonal Total Larvae**

Application Date: July 28, 2008

Rating Date: July 24, 31, and August 5, 13, 2008



\*Means followed by same letter do not significantly differ (P=.10)

### Chart 3. BG II Overspray Harvest Data

Planting Date: May 13, 2008

Harvest Date: October 15, 2008

