

# University of Tennessee

## Bollworm Trial in Non-Bt and Bt Cotton - Factorial

Location: West TN Research and Education Center (Jackson)  
 Variety: PHY 315 (Non-Bt) and DP 444 (Bollgard), planted 5-19-08  
 Application: 8-4-08 and 8-11-08, High-clearance sprayer (8 GPA, 46 PSI, FF 8001)  
 Rating: 8-8-08, 8-14-08, and 8-20-08, 20 Plants per plot  
 Plots: 4 Rows x 30 ft (Factorial, 4 Reps)  
 Investigators: Stewart, Willis, S. Steckel

Description		Square Damage	Terminal Damage	Boll Damage	Total Fruit Damage	Bollworm Counts	Bollworm counts
Rating Data Type		Season Total	Season Total	Season Total	Season Total	Season Total	Season Total
Sample Size		60	60	60	60	60	60
Sample Size Unit		Plants	Plants	Plants	Plants	Plants	Plants
Pest Stage						Small	Large
Treatment	Rate						
1 DP444 BR		2.25 b	1.75 bc	4.25 b	6.50 b	0.75 bc	0.50 c
Coragen	1.67 SC 3.07 fl oz/a						
2 DP444 BR		1.25 b	0.50 c	1.75 b	3.00 b	0.50 c	0.00 c
Coragen	1.67 SC 3.07 fl oz/a						
Asana XL	0.67 EC 5.73 fl oz/a						
3 DP444 BR		2.00 b	2.00 bc	2.50 b	4.50 b	0.50 c	0.50 c
Asana XL	0.67 EC 7.64 fl oz/a						
4 DP444 BR		6.25 b	3.50 b	11.75 b	18.00 b	3.00 b	3.75 b
Untreated Check							
5 PHY315 RF		6.25 b	3.75 b	3.75 b	10.00 b	1.75 bc	1.25 c
Coragen	1.67 SC 3.07 fl oz/a						
6 PHY315 RF		4.25 b	3.00 bc	6.75 b	11.00 b	1.25 bc	0.75 c
Coragen	1.67 SC 3.07 fl oz/a						
Asana XL	0.67 EC 5.73 fl oz/a						
7 PHY315 RF		4.75 b	3.00 bc	7.00 b	11.75 b	1.25 bc	1.50 bc
Asana XL	0.67 EC 7.64 fl oz/a						
8 PHY315 RF		23.25 a	12.00 a	36.25 a	59.50 a	6.00 a	11.25 a
Untreated Check							

Description		Bollworm Counts	Seedcotton
Rating Data Type		Season Total	Yield
Sample Size		60	1
Sample Size Unit		Plants	A
Pest Stage		Total	
Treatment	Rate		
1 DP444 BR		1.25 c	3716.14 a
Coragen	1.67 SC 3.07 fl oz/a		
2 DP444 BR		0.50 c	3404.36 a
Coragen	1.67 SC 3.07 fl oz/a		
Asana XL	0.67 EC 5.73 fl oz/a		
3 DP444 BR		1.00 c	3385.45 a
Asana XL	0.67 EC 7.64 fl oz/a		
4 DP444 BR		6.75 b	3661.12 a
Untreated Check			
5 PHY315 RF		3.00 c	3537.33 a
Coragen	1.67 SC 3.07 fl oz/a		
6 PHY315 RF		2.00 c	3372.84 a
Coragen	1.67 SC 3.07 fl oz/a		
Asana XL	0.67 EC 5.73 fl oz/a		
7 PHY315 RF		2.75 c	2896.00 a
Asana XL	0.67 EC 7.64 fl oz/a		
8 PHY315 RF		17.25 a	3356.79 a
Untreated Check			

Means followed by same letter do not significantly differ (P=.05, LSD)

# Bollworm/Budworm Trial - Cotton

(Madison Co., TN - 2008)

