

# University of Tennessee

## BT Traits vs Prevathon for Catepillar Pests in Cotton - Late Planted - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: (planted: 6-6-17)

Appl A 6-6-17 (at planting); Appl B 8-3-17; High clearance sprayer (9.2 GPA, 40 PSI, 8001FF)

Plots: 4 Rows x 35 ft (RCBD, 4 Reps)

Investigators: Stewart, S.Steckel, Williams

Dam. Sq.= Damaged Squares; Dam. Bolls = Damaged bolls; Dam. Flo. = Damaged Flowers; Total Dam. = Total Damage; CEW = bollworm larvae

Description				Dam. Sq.		Dam. Bolls		Dam Flo.		Total Dam.		CEW		Dam. Sq.		Dam. Bolls		Dam. Flo.		Total Dam.		CEW		Dam. Sq.	
Pest Stage Majority				Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total	
Rating Date				8/9/2017		8/9/2017		8/9/2017		8/9/2017		8/9/2017		8/14/2017		8/14/2017		8/14/2017		8/14/2017		8/14/2017		8/21/2017	
Sample Size, Unit				25 Square		25 Boll		25 Flower		75 Fruit		75 Fruit		25 Square		25 Boll		25 Flower		75 Fruit		75 Fruit		25 Square	
Trt-Eval Interval				6 DA-B		6 DA-B		6 DA-B		6 DA-B		6 DA-B		11 DA-B		11 DA-B		11 DA-B		11 DA-B		11 DA-B		18 DA-B	
Treatment	Formulation	Rate	Appl																						
1	PHY425RF		A	3.3	a	2.0	a	0.8	a	6.0	a	2.5	a	14.3	a	2.5	a	6.5	a	23.3	a	6.8	a	10.8	a
2	PHY499WRF		A	0.0	b	0.5	b	0.0	a	0.5	b	0.3	b	1.3	b	2.3	a	0.5	b	4.0	b	1.8	b	1.3	b
3	PHY490W3FE		A	0.0	b	0.0	b	0.0	a	0.0	b	0.0	b	0.0	c	0.0	b	0.0	b	0.0	c	0.0	b	0.0	b
4	PHY425RF		A	0.3	b	0.0	b	0.3	a	0.5	b	0.3	b	0.5	bc	0.0	b	0.0	b	0.5	c	0.0	b	0.0	b
	Prevathon	0.43 lb/gal	20 fl oz/a	B																					

continued

Description				Dam. Bolls		Dam. Flo.		Total Dam.		CEW		Dam. Sq.		Dam. Bolls		Dam. Flo.		Total Dam.		CEW		Dam. Sq.		Dam. Bolls	
Pest Stage Majority				Total		Total		Total		Total		Total		Total		Total		Total		Total		Total		Total	
Rating Date				8/21/2017		8/21/2017		8/21/2017		8/21/2017		8/25/2017		8/25/2017		8/25/2017		8/25/2017		8/25/2017		8/29/2017		8/29/2017	
Sample Size, Unit				25 Boll		25 Flower		75 Fruit		75 Fruit		25 Square		25 Boll		25 Flower		75 Fruit		75 Fruit		25 Square		25 Boll	
Trt-Eval Interval				18 DA-B		18 DA-B		18 DA-B		18 DA-B		22 DA-B		22 DA-B		22 DA-B		22 DA-B		22 DA-B		26 DA-B		26 DA-B	
Treatment	Formulation	Rate	Appl																						
1	PHY425RF		A	11.5	a	6.5	a	28.8	a	6.5	a	5.3	a	7.0	a	2.3	a	14.5	a	3.0	a	4.0	a	6.8	a
2	PHY499WRF		A	1.8	b	2.0	b	5.0	b	2.3	b	2.3	a	2.3	a	0.3	a	4.8	a	0.8	a	1.5	a	1.3	b
3	PHY490W3FE		A	0.0	b	0.0	c	0.0	c	0.0	c	0.0	a	0.0	a	0.0	a	0.0	a	0.0	a	0.3	a	0.0	c
4	PHY425RF		A	0.3	b	0.8	bc	1.0	c	0.5	c	2.3	a	1.5	a	0.5	a	4.3	a	0.5	a	0.5	a	0.3	bc
	Prevathon	0.43 lb/gal	20 fl oz/a	B																					

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

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Description				Dam. Flo.		Total Dam.		CEW		Dam. Sq.		Dam. Bolls		Dam. Flo.		Total Dam.		CEW		Dam. Bolls		Seed Cotton	
Pest Stage Majority				Total		Total		Total		Total		Total		Total		Total		Total		Total		lbs/acre	
Rating Date				8/29/2017		8/29/2017		8/29/2017		9/5/2017		9/5/2017		9/5/2017		9/5/2017		9/5/2017		9/8/2017		10/24/2017	
Sample Size, Unit				25 Flower		75 Fruit		75 Fruit		25 Square		25 Boll		25 Flower		75 Fruit		75 Fruit		50 Boll			
Trt-Eval Interval				26 DA-B		26 DA-B		26 DA-B		33 DA-B		33 DA-B		33 DA-B		33 DA-B		33 DA-B		36 DA-B			
Treatment	Formulation	Rate	Appl																				
1	PHY425RF		A	2.5	a	13.3	a	2.8	a	7.0	a	5.3	a	2.3	a	14.5	a	4.0	a	15.3	a	1498.7	c
2	PHY499WRF		A	1.5	ab	4.3	b	1.5	ab	2.0	b	3.3	ab	0.3	b	5.5	b	0.5	b	6.8	b	2638.6	b
3	PHY490W3FE		A	0.0	b	0.3	c	0.0	c	0.3	b	0.0	b	0.0	b	0.3	c	0.0	b	0.0	c	2622.8	b
4	PHY425RF		A	0.3	b	1.0	c	0.3	bc	0.5	b	0.5	b	0.3	b	1.3	bc	0.5	b	1.5	c	3285.4	a
	Prevathon	0.43 lb/gal	20 fl oz/a	B																			

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