

University of Tennessee

Bt Traits in Cotton for Caterpillar Pests - Late Planted - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: (planted: 5-26-16)

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

Investigators: Stewart, S.Steckel, Williams

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

Description	Dam. Sq.		Dam. Bolls		CEW		Dam. Sq.		Dam. Bolls		Dam. Flo.		CEW									
	Total		Total		Total		Total		Total		Total		Total									
Rating Date	8/9/2016		8/9/2016		8/9/2016		8/15/2016		8/15/2016		8/15/2016		8/19/2016		8/19/2016							
Sample Size, Unit	25 Square		25 Boll		50 Fruit		25 Square		25 Boll		25 Flower		75 Fruit		25 Square							
Plant-Eval Interval	75 DP-1		75 DP-1		75 DP-1		81 DP-1		81 DP-1		81 DP-1		85 DP-1		85 DP-1							
Treatment																						
1 PHY 496W3RF	0.0	a	0.0	b	0.0	a	0.3	b	0.0	b	0.3	b	0.0	b	0.8	b	0.0	b	0.3	b	0.000	b
2 PHY 499 WRF	0.5	a	0.0	b	0.0	a	0.8	b	0.5	b	1.3	b	0.8	b	1.3	b	1.0	b	0.3	b	0.750	b
3 PHY 425RF	2.0	a	1.5	a	1.8	a	7.8	a	6.0	a	5.8	a	6.3	a	6.0	a	6.8	a	5.0	a	8.250	a

Continued

Description	Dam. Sq.		Dam. Bolls		Dam. Flo.		CEW		Dam. Bolls		Seed cotton							
	Total		Total		Total		Total		Total		Total	lbs/acre						
Rating Date	8/24/2016		8/24/2016		8/24/2016		8/24/2016		8/29/2016		8/29/2016		9/6/2016	10/12/2016				
Sample Size, Unit	25 Square		25 Boll		25 Flower		75 Fruit		25 Square		25 Boll		75 Fruit	50 Boll				
Plant-Eval Interval	90 DP-1		90 DP-1		90 DP-1		90 DP-1		95 DP-1		95 DP-1		95 DP-1	103 DP-1				
Treatment																		
1 PHY 496W3RF	0.0	b	0.0	b	0.0	b	0.8	a	0.0	c	0.3	b	0.3	b	0.0	b	3624.1	a
2 PHY 499 WRF	1.8	b	1.3	b	0.3	b	0.8	a	1.3	b	0.3	b	0.0	b	1.5	b	3451.6	b
3 PHY 425	6.8	a	6.8	a	4.0	a	1.5	a	4.0	a	7.3	a	1.8	a	8.8	a	3151.2	c

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

Graph below

Seed Cotton Yield (lbs/acre)

