

University of Tennessee

Foliar Insecticides for Control of Caterpillar Pests in Cotton - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: PHY 425 RF (planted: 6-5-18)

Appl A 8-21-18; High clearance sprayer (9.4 GPA, 40 PSI, 8001FF)

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

Investigators: Stewart, S.Steckel, Williams

Note: Application timing was several days later than optimal.

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

Description				Dam Sq	Dam Bolls	CEW	Dam Fruit	Dam Bolls	CEW	CEW	Seed cotton	
Pest Stage Majority				Total	Total	Total	Total	Total	Large	Total		
Rating Date				8/27/2018	8/27/2018	8/27/2018	8/27/2018	8/31/2018	8/31/2018	8/31/2018	10/8/2018	
Sample Size, Unit				25 Square	25 Boll	75 Fruit	75 Fruit	50 Boll	50 Boll	50 Boll	lbs/acre	
Trt-Eval Interval				6 DA-A	6 DA-A	6 DA-A	6 DA-A	10 DA-A	10 DA-A	10 DA-A	48 DA-A	
Treatment	Formulation	Rate	Appl									
1	Prevathon	0.43 lb/gal	14 fl oz/a	AB	2.50 b	4.75 bc	3.75 b	9.75 bc	4.25 bc	1.75 bc	1.75 b	3259.9 a
2	Prevathon	0.43 lb/gal	20 fl oz/a	AB	4.00 b	3.00 cd	2.75 bc	8.00 b-e	6.75 bc	1.75 bc	2.00 b	3192.0 a
3	Besiege	1.252 lb/gal	7.2 fl oz/a	AB	3.25 b	1.50 d	1.25 cd	5.25 de	4.75 bc	1.25 bc	1.25 b	3322.8 a
4	Besiege	1.252 lb/gal	10.2 fl oz/a	AB	2.25 b	2.25 cd	0.50 d	5.00 e	5.25 bc	1.25 bc	1.50 b	3235.3 a
5	Prevathon	0.43 lb/gal	14 fl oz/a	AB	3.25 b	3.25 bcd	2.00 cd	7.25 b-e	3.50 c	0.25 c	0.75 b	3337.5 a
	Brigade	2 lb/gal	4.5 fl oz/a	AB								
6	Prevathon	0.43 lb/gal	20 fl oz/a	AB	2.25 b	2.00 d	1.50 cd	4.25 e	4.50 bc	0.75 bc	1.25 b	3364.1 a
	Brigade	2 lb/gal	6.4 fl oz/a	AB								
7	Intrepid Edge	3 lb/gal	6 fl oz/a	AB	3.50 b	3.75 bcd	3.75 b	9.25 bcd	7.50 bc	2.50 ab	2.50 b	3429.0 a
8	Intrepid Edge	3 lb/gal	8 fl oz/a	AB	3.75 b	5.75 ab	2.75 bc	11.00 b	8.25 b	1.75 bc	2.25 b	3170.4 a
9	Brigade	2 lb/gal	6.4 fl oz/a	AB	3.00 b	2.50 cd	2.00 cd	6.25 cde	6.75 bc	2.25 b	2.25 b	3405.4 a
	Acephate	97 %w/w	0.75 lb ai/a	AB								
10	Untreated				7.25 a	7.50 a	7.25 a	17.50 a	17.50 a	4.25 a	5.00 a	2811.6 b
Treatment Prob(F)					0.0018	0.0008	0.0001	0.0001	0.0001	0.0115	0.0115	0.0291

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