

University of Tennessee

Timing of Applications for Thrips Control - Madison Co.

Location: West TN Research and Education Center - Jackson

Variety: PHY 339 (planted 5-9-16)

All seed treated with the same fungicide seed treatment

Application: Appl A (at plant) seed treatment; Appl B - I Backpack Sprayer (10.8 GPA, 40 PSI, 8001FF)

Foliar Application Timing: Appl B 5-23-16; Appl C 5-31-16; Appl D 6-7-16; Appl E 5-23-16; Appl F 5-31-16; Appl G 5-27-16; Appl H 5-31-16; Appl I 6-7-16

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

Investigators: Stewart, S.Steckel, Williams

Description				Thrips Injury	Thrips counts	Thrips counts	Thrips Injury	Thrips counts	Thrips counts	Thrips Injury	Seed Cotton
Pest Stage Majority				0 - 5 Scale	Immature	Adult + Imm.	0 - 5 Scale	Immature	Adult + Imm	0 - 5 Scale	lbs/acre
Rating Date				5/31/2016	5/31/2016	5/31/2016	6/3/2016	6/3/2016	6/3/2016	6/6/2016	9/15/2016
Sample Size, Unit				1 Plot	5 Plants	5 Plants	1 Plot	5 Plants	5 Plants	1 Plot	
Plant-Eval Interval				22 DP-1	22 DP-1	22 DP-1	25 DP-1	25 DP-1	25 DP-1	28 DP-1	129 DP-1
Treatment	Formulation	Rate	Application								
1 Untreated				2.3 a	73.3 a	88.8 a	3.0 a	29.8 ab	43.3 ab	2.9 a	3451.1 a
2 Aeris	600 g/l		A	1.2 c	40.5 b	54.8 b	1.6 d	33.3 a	56.5 a	2.0 d	3536.1 a
3 Orthene	97 %aw/w	0.25 lb ai/a	B Auto Cotyledon	1.7 b	40.5 b	48.8 bc	2.4 bc	13.5 cd	25.5 c	2.6 bc	3569.5 a
4 Orthene	97 %aw/w	0.25 lb ai/a	BC Auto Cotyledon Fb. Wk. 2	1.6 b	38.3 b	49.8 bc	2.2 bc	9.0 cd	12.3 c	2.3 cd	3574.0 a
5 Orthene	97 %aw/w	0.25 lb ai/a	BCD Auto Cotyledon Fb. Wk. 2, 3	1.7 b	36.3 b	44.3 bc	2.1 c	8.5 cd	16.5 c	2.3 cd	3541.0 a
6 Orthene	97 %aw/w	0.25 lb ai/a	CD No Cotyledon Fb. Wk. 2, 3	2.2 a			2.3 bc	18.0 bcd	27.0 bc	2.6 bc	3551.4 a
7 Orthene	97 %aw/w	0.25 lb ai/a	EH 1 Thrips per plant threshold	1.7 b	29.3 b	39.5 bc	2.1 c	8.3 d	14.3 c	2.3 c	3476.2 a
8 Orthene	97 %aw/w	0.25 lb ai/a	F 5 Thrips per plant threshold	2.4 a			2.5 b	20.5 bc	26.8 c	2.7 ab	3419.1 a
9 Orthene	97 %aw/w	0.25 lb ai/a	GHI Avg. Injury Rating of 2	2.3 a	20.0 b	24.0 c	2.3 bc	16.8 cd	23.8 c	2.3 c	3499.7 a

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