

University of Tennessee

Insecticide Seed Treatment/In-furrow Options for Sugarcane Aphid in Grain Sorghum - Madison Co.

Location: West TN Research and Education Center - Jackson

Variety: Dyna-Gro M75GB39 (planted 7-8-16)

Application: 7-8-16; Appl A Insecticide seed treatment; Appl B in-furrow (7.9 GPA, 15 PSI, 80015FF)

Plot: 4 rows x 35 ft (RCBD, 4 Reps)

Investigators: Stewart, S. Steckel, Williams

Note: two heavily infested leaves from older sorghum were weaved into two spots in center two rows of plots on 7-18-16

Ratings on 7-22-16 and 8-4-16 were done in these spots. All other ratings were randomly taken in center two rows of plots.

SCA = Sugarcane aphid

Description				SCA	SCA	SCA	SCA	SCA	SCA	SCA	SCA	SCA	SCA	SCA	Yield
Rating date				Total	Total	Total	Total	Total	Upper leaf	Upper leaf	Upper leaf	Upper leaf	Upper leaf	Bu/A	
Sample Size, Unit				7/22/2016	8/4/2016	8/11/2016	8/15/2016	8/22/2016	9/6/2016	9/12/2016	9/19/2016	9/19/2016	10/19/2016		
Plant-Eval Interval				2 Rowft	2 Rowft	2.5 Rowft	2.5 Rowft	2.5 Rowft	10 leaves	10 leaves	5 leaves	5 leaves			
				14 DAP	27 DAP	34 DAP	38 DAP	45 DAP	60 DAP	66 DAP	73 DAP	103 DAP			
Treatment	Formulation	Rate	Appl												
1 Poncho	600 ga/l	6.4 fl oz/cwt	A	0.0 b	0.0 b	18.0 a	6.0 a	4.5 b	1.7 b	5.6 b	1.8 bc	89.1 a			
2 Cruiser	5 lb/gal	7.6 fl oz/cwt	A	0.0 b	0.0 b	8.8 a	3.8 a	13.5 b	2.9 b	1.5 b	1.6 bc	86.5 a			
3 Gaucho	5 lb/gal	6.4 fl oz/cwt	A	4.3 b	0.0 b	23.0 a	21.5 a	10.5 b	8.1 a	8.0 a	8.7 b	95.3 a			
4 Untreated				261.5 a	25.5 a	9.8 a	5.0 a	36.5 a	8.1 a	11.7 a	20.2 a	84.5 a			
5 Sivanto (in-furrow)	1.67 lb/gal	4 fl oz/a	B	0.0 b	0.0 b	0.8 b	0.3 a	11.3 b	1.9 b	1.1 b	0.2 c	94.7 a			
6 Sivanto (in-furrow)	1.67 lb/gal	7 fl oz/a	B	0.0 b	0.0 b	1.0 b	1.3 a	6.0 b	0.6 b	1.2 b	1.6 bc	100.6 a			

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