

University of Tennessee

Caterpillar Control in Grain Sorghum - Gibson Co.

Location: Research and Education Center at Milan

Variety: Pioneer 84P80 (planted 5-25-16)

Application: Appl A 8-1-16 (small larvae subthreshold); Appl B 8-6-16 (larvae at threshold); High clearance sprayer (9.1 GPA, 40 PSI, 8001FF)

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

Investigators: Stewart, S. Steckel, Williams

CEW = Corn Earworm; FAW = Fall Armyworm; SWW = Sorghum Webworm

Description				CEW	CEW	CEW	FAW	CEW	CEW	FAW	SWW	Yield
Pest Stage Majority				Small	Large	Total	Total	Large	Total	Total	Total	Bu/A
Rating Date				8/11/2016	8/11/2016	8/11/2016	8/11/2016	8/16/2016	8/16/2016	8/16/2016	8/16/2016	11/3/2016
Sample Size, Unit				20 Heads	20 Heads	20 Heads	20 Heads	10 Heads	10 Heads	10 Heads	10 Heads	
Trt-Eval Interval				5 DA-B	5 DA-B	5 DA-B	5 DA-B	10 DA-B	10 DA-B	10 DA-B	10 DA-B	
Treatment	Formulation	Rate	Appl									
1 Untreated				8.0 a	7.5 a	15.5 a	6.5 a	3.5 a	5.3 a	2.0 a	1.8 a	68.2 a
2 Heligen	100 %	1 fl oz/a	A	2.0 b	2.3 c	4.3 bc	5.5 a	2.0 ab	3.5 a	0.8 a	0.3 a	80.2 a
3 Heligen	100 %	1.6 fl oz/a	B	2.3 b	4.8 b	7.0 b	11.3 a	1.0 b	2.8 a	1.5 a	0.3 a	78.6 a
4 Heligen	100 %	1 fl oz/a	B	2.0 b	1.5 c	3.5 c	4.5 a	2.3 ab	2.5 a	1.0 a	0.3 a	68.2 a
Karate Z	2.08 lb/gal	1.96 fl oz/a	B									
5 Karate Z	2.08 lb/gal	1.96 fl oz/a	B	1.0 b	1.5 c	2.5 c	8.0 a	0.5 b	1.3 a	0.3 a	0.3 a	81.0 a

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