

University of Tennessee

Regional Evaluation of Foliar Insecticides for Sugarcane Aphid in Sorghum - Gibson Co.

Location: Research and Education Center at Milan

Variety: Pioneer 84P80 (planted 6-16-16)

Application: 8-1-16; High clearance sprayer (9.1 GPA, 40 PSI, 8001FF)

Rating: Aphid counts on 5 leaves per plot

Plot: 5 rows x 35 ft (RCBD, 4 Reps)

Investigators: Stewart, S. Steckel, Williams

SCA = Sugarcane aphid

Description			SCA	SCA	SCA	SCA	SCA	SCA	SCA	SCA	SCA	Yield
Pest Stage Majority			Upper leaf	Lower leaf	Upper leaf	Lower leaf	Upper leaf	Lower leaf	Upper leaf	Upper leaf		Bu/A
Rating Date			8/4/2016	8/4/2016	8/8/2016	8/8/2016	8/12/2016	8/12/2016	8/16/2016	8/23/2016		11/3/2016
Trt-Eval Interval			3 DA-A	3 DA-A	7 DA-A	7 DA-A	11 DA-A	11 DA-A	15 DA-A	22 DA-A		94 DA-A
Treatment	Formulation	Rate										
1 Untreated			383.0 a	668.9 a	987.5 a	1895.0 a	1050.0 a	1520.0 a	750.0 a	9.8 de		8.8 c
2 Transform	50 %	1.5 oz wt/a	15.7 bcd	2.1 d	207.5 b	61.2 cde	443.8 ab	137.2 bc	1717.5 a	268.3 a		38.3 b
3 Transform	50 %	0.75 oz wt/a	14.6 bcd	6.8 bcd	208.5 b	40.3 bcd	517.5 ab	211.2 b	1565.0 a	104.8 bc		29.4 b
4 Sivanto	1.67 lb/gal	5 fl oz/a	7.8 d	14.4 bcd	6.2 cd	8.0 e	11.7 cd	34.1 c	2.3 c	0.5 e		82.8 a
5 Sivanto	1.67 lb/gal	2.5 fl oz/a	8.2 d	49.8 b	5.3 d	95.5 cde	13.2 c	118.9 bc	9.1 b	5.3 e		73.8 a
6 Transform	50 %	0.75 oz wt/a	13.0 bcd	5.9 cd	7.7 cd	7.1 de	11.6 cd	46.1 c	4.1 bc	1.5 e		85.8 a
Sivanto	1.67 lb/gal	2.5 fl oz/a										
7 Transform	50 %	0.75 oz wt/a	23.1 b	6.6 bcd	282.5 b	91.4 b	620.0 ab	191.3 bc	1015.0 a	58.5 cde		26.2 b
Lorsban Adv	3.755 lb/gal	16 fl oz/a										
8 Sivanto	1.67 lb/gal	2.5 fl oz/a	18.2 bc	21.9 bc	12.9 c	69.8 bc	8.0 cd	44.8 c	6.5 bc	6.7 e		77.9 a
Lorsban Adv	3.755 lb/gal	16 fl oz/a										
9 Transform	50 %	0.75 oz wt/a	15.5 bcd	4.3 cd	256.5 b	84.3 bc	418.8 b	607.0 ab	855.1 a	190.3 ab		29.5 b
Mustang Max	0.8 lb/gal	3.2 fl oz/a										
10 Sivanto	1.67 lb/gal	2.5 fl oz/a	10.1 cd	10.5 bcd	6.7 cd	20.3 cde	3.9 d	121.4 bc	8.0 bc	3.5 e		82.6 a
Mustang Max	0.8 lb/gal	3.2 fl oz/a										
11 Transform	50 %	0.75 oz wt/a	15.4 bcd	11.7 bcd	322.5 b	180.3 bc	516.3 ab	389.0 b	1277.5 a	97.7 cd		30.9 b
Dimethoate	4 lb/gal	16 fl oz/a										
12 Sivanto	1.67 lb/gal	2.5 fl oz/a	15.1 bcd	27.7 bc	9.2 cd	169.0 bc	4.9 d	313.7 bc	5.3 bc	7.6 e		79.1 a
Dimethoate	4 lb/gal	16 fl oz/a										

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

Graph Below

Yield (Bu/Acre)

