

University of Tennessee

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

Location: Research and Education Center at Milan

Variety: Pioneer 84P80 (planted 6-7-17)

Application: 8-8-17; High clearance sprayer (9.2 GPA, 40 PSI, 8001FF)

Sample size: Aphid counts on 10 leaves per plot

Plot: 5 rows x 30 ft (RCBD, 4 Reps)

Investigators: Stewart, S. Steckel, Williams

SCA = Sugarcane aphid

| Description | | | SCA | SCA | SCA | SCA | Yield |
|--------------------|-------------|--------------|------------|------------|------------|------------|------------|
| Rating Date | | | Upper leaf | Lower leaf | Upper leaf | Lower leaf | Bu/A |
| Trit-Eval Interval | | | 8/15/2017 | 8/15/2017 | 8/22/2017 | 8/22/2017 | 11/17/2017 |
| | | | 7 DA-A | 7 DA-A | 14 DA-A | 14 DA-A | 101 DA-A |
| Treatment | Formulation | Rate | | | | | |
| 1 Transform | 50 % | 1.5 oz wt/a | 0.0 b | 0.0 b | 0.5 b | 0.0 a | 94.8 a |
| 2 Sivanto | 1.67 lb/gal | 2 fl oz/a | 0.0 b | 0.0 b | 0.0 b | 0.0 a | 99.3 a |
| 3 Sivanto | 1.67 lb/gal | 4 fl oz/a | 0.0 b | 0.0 b | 0.0 b | 0.0 a | 94.5 a |
| 4 Transform | 50 % | 0.75 oz wt/a | 0.0 b | 0.0 b | 0.0 b | 0.0 a | 92.0 a |
| Sivanto | 1.67 lb/gal | 2 fl oz/a | | | | | |
| 5 Untreated | | | 10.4 a | 105.3 a | 3.9 a | 135.9 a | 85.0 a |

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