

# University of Tennessee

## Regional Study of Alternatives for Thrips Management in Cotton - Madison Co.

Location: West TN Research and Education Center - Jackson

Variety: (planted 5-11-16)

All seed treated with the same fungicide seed treatment

Application: Appl A (at plant) seed treatment; Appl B (at plant) In-furrow spray; (7.9 GPA, 15 PSI, 8001FF); Appl C (at plant) In-furrow granular

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

Investigators: Stewart, S.Steckel, Williams

| Description         |             |              |      | Thrips counts | Thrips counts | Thrips counts | Thrips Injury | Thrips counts | Thrips counts | Thrips Injury | Seed Cotton |
|---------------------|-------------|--------------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| Pest Stage Majority |             |              |      | Adult         | 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     | 6/1/2016      | 6/6/2016      | 6/6/2016      | 6/6/2016      | 9/15/2016   |
| Sample Size, Unit   |             |              |      | 5 plants      | 5 plants      | 5 plants      | 1 Plot        | 5 plants      | 5 plants      | 1 Plot        |             |
| Trt-Eval Interval   |             |              |      | 20 DP-1       | 20 DP-1       | 20 DP-1       | 21 DP-1       | 26 DP-1       | 26 DP-1       | 26 DP-1       |             |
| Treatment           | Formulation | Rate         | Appl |               |               |               |               |               |               |               |             |
| 1 Untreated         |             |              |      | 3.0 bc        | 40.0 a        | 43.0 a        | 2.8 a         | 16.3 a        | 19.0 a        | 2.7 a         | 3573.7 a    |
| 2 Orthene 97        | 97 %        | 15 oz ai/cwt | A    | 3.0 bc        | 34.5 abc      | 37.5 abc      | 1.9 b         | 24.5 a        | 28.0 a        | 2.3 ab        | 3520.2 a    |
| 3 Orthene           | 97 %        | 1 lb/a       | B    | 3.3 bc        | 24.8 bcd      | 28.0 bcd      | 1.7 bc        | 18.0 a        | 20.5 a        | 2.0 bcd       | 3722.6 a    |
| 4 Verimark          | 200 G/L     | 13 oz ai/cwt | A    | 1.8 c         | 26.8 a-d      | 28.5 bcd      | 1.9 b         | 23.0 a        | 25.8 a        | 1.9 cd        | 3474.0 a    |
| 5 Verimark          | 200 G/L     | 13 fl oz/a   | B    | 4.5 ab        | 18.8 d        | 23.3 cd       | 1.7 bc        | 28.5 a        | 33.3 a        | 2.0 bc        | 3275.5 a    |
| 6 AgLogic           | 15 %aw/w    | 3.5 lb/a     | C    | 2.5 bc        | 20.0 cd       | 22.5 d        | 1.7 bc        | 21.3 a        | 24.0 a        | 1.6 de        | 3388.0 a    |
| 7 AgLogic           | 15 %aw/w    | 5 lb/a       | C    | 2.8 bc        | 19.8 d        | 22.5 d        | 1.5 c         | 16.5 a        | 20.3 a        | 1.4 e         | 3249.5 a    |
| 8 Sivanto           | 1.67 lb/gal | 7 fl oz/a    | B    | 5.5 a         | 35.5 ab       | 41.0 ab       | 1.9 b         | 21.8 a        | 25.3 a        | 2.6 a         | 3361.0 a    |
| 9 Aeris             |             | 21.32 oz/cwt | A    | 4.0 ab        | 3.0 e         | 7.0 e         | 1.1 d         | 23.8 a        | 25.5 a        | 0.7 f         | 3352.2 a    |

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