

University of Tennessee

Seed Treatments and In-furrow Products for Thrips Control in Cotton - Madison Co.

Location: West TN Research and Education Center - Jackson

Variety: PHY 333 WRF (planted 5-9-16)

All seed treated with a fungicide seed treatment

Application: Appl A 5-9-16; (at plant) seed treatment; Appl B (at plant) In-furrow; (7.9 GPA, 15 PSI, 8001FF)

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

Investigators: Stewart, S.Steckel, Williams

| Description | | | | Thrips Injury | Thrips Counts | Thrips Counts | Thrips Injury | Thrips Counts | Thrips Counts | Seed Cotton |
|-----------------------------|-------------|------------------|-----|---------------|---------------|---------------|---------------|---------------|---------------|-------------|
| Pest Stage Majority | | | | 0-5 scale | Immature | Ad + Imm. | 0-5 scale | Immature | Ad + Imm. | lbs/acre |
| Rating Date | | | | 5/31/2016 | 5/31/2016 | 5/31/2016 | 6/6/2016 | 6/6/2016 | 6/6/2016 | 9/15/2016 |
| Sample Size, Unit | | | | 1 Plot | 5 Plants | 5 Plants | 1 Plot | 5 Plants | 5 Plants | |
| Plant-Eval Interval | | | | 22 DP-1 | 22 DP-1 | 22 DP-1 | 28 DP-1 | 28 DP-1 | 28 DP-1 | |
| Treatment | Formulation | Rate | App | | | | | | | |
| 1 Untreated | | | | 3.5 a | 89.5 a | 97.5 a | 3.1 a | 30.5 a | 35.5 a | 3568.8 a |
| 2 Orthene 97 | 97 % | 6.4 oz ai/cwt | A | 3.2 a | 75.0 ab | 81.3 ab | 2.9 ab | 46.5 a | 51.3 a | 3396.9 a |
| 3 Orthene 97 | 97 % | 15 oz ai/cwt | A | 2.8 b | 50.0 bcd | 54.8 bc | 2.7 b | 26.5 a | 31.3 a | 3498.1 a |
| 4 Orthene 97 | 97 % | 24 oz ai/cwt | A | 2.6 b | 41.3 cde | 46.8 cd | 2.6 b | 29.8 a | 33.0 a | 3553.6 a |
| 5 Cruiser | 5 lb/gal | 0.375 mg ai/seed | A | 3.3 a | 75.0 ab | 80.3 ab | 3.0 a | 41.3 a | 45.8 a | 3699.0 a |
| 6 Gaucho 600 FS | 5 lba/gal | 0.375 mg ai/seed | A | 1.6 c | 53.3 bc | 61.3 bc | 2.1 c | 38.3 a | 44.0 a | 3687.7 a |
| 7 Aeris Seed Applied System | | 0.75 mg ai/seed | A | 0.9 e | 25.0 de | 35.0 cd | 1.3 e | 21.8 a | 26.0 a | 3914.2 a |
| 8 Avicta Duo | | 0.525 mg ai/seed | A | 1.7 c | 30.5 cde | 41.8 cd | 1.6 d | 34.8 a | 39.8 a | 3611.1 a |
| 9 AgLogic | | 5 lb/a | B | 1.3 d | 17.8 e | 22.8 d | 1.5 de | 19.0 a | 23.5 a | 3689.7 a |

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