

University of Tennessee

Evaluation of Foliar Insecticides for Tarnished Plant Bugs in Preflowering Cotton

TRIAL 1

Location: West TN Research and Education Center (Jackson)

Variety: PHY 330 W3FE (planted: 5-8-18)

Application: Appl A 6-12-18; High clearance sprayer (10.0 GPA, 40 PSI, 80015FF)

Rating: 50 sweeps/plot

Plots: 16 Rows x 200 ft (RCBD, 2 Reps)

Investigators: Stewart, S.Steckel, Williams

TPB= Tarnished Plant Bug; CPB = Clouded Plant Bug; Total PB = Tarnished + Clouded

| Description | | | | TPB | TPB | CPB | CPB | Total PB | |
|---------------------|-------------|------|--------------|-----------|-----------|-----------|-----------|--------------|---------|
| Pest Stage Majority | | | | Adult | Immature | Adult | Immature | Adult + Imm. | |
| Rating Date | | | | 6/15/2018 | 6/15/2018 | 6/15/2018 | 6/15/2018 | 6/15/2018 | |
| Trt-Eval Interval | | | | 3 DA-A | 3 DA-A | 3 DA-A | 3 DA-A | 3 DA-A | |
| Treatment | Formulation | Rate | Appl | | | | | | |
| 1 | Orthene | 97 % | 0.67 lb/a | A | 7.500 a | 0.000 a | 0.500 a | 0.000 a | 8.000 a |
| 2 | Centric | 40 % | 1.75 oz wt/a | A | 0.000 b | 0.000 a | 0.000 a | 0.000 a | 0.000 a |
| Treatment Prob(F) | | | | 0.0424 | 1.0000 | 0.5000 | 1.0000 | 0.0792 | |

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

TRIAL 2

Location: West TN Research and Education Center (Jackson)

Variety: PHY 330 W3FE & DP 1522 B2XF (planted: 5-8-18)

Application: Appl A 6-15-18; High clearance sprayer (10.0 GPA, 40 PSI, 80015FF)

Rating: 50 sweeps/plot

Plots: 16 Rows x 330 ft (RCBD, 2 Reps)

Investigators: Stewart, S.Steckel, Williams

TPB= Tarnished Plant Bug; CPB = Clouded Plant Bug; Total PB = Tarnished + Clouded

| Description | | | | TPB | TPB | CPB | CPB | Total PB | |
|---------------------|-------------|------|--------------|-----------|-----------|-----------|-----------|--------------|--------|
| Pest Stage Majority | | | | Adult | Immature | Adult | Immature | Adult + Imm. | |
| Rating Date | | | | 6/19/2018 | 6/19/2018 | 6/19/2018 | 6/19/2018 | 6/19/2018 | |
| Trt-Eval Interval | | | | 4 DA-A | 4 DA-A | 4 DA-A | 4 DA-A | 4 DA-A | |
| Treatment | Formulation | Rate | Appl | | | | | | |
| 1 | Orthene | 97 % | 0.67 lb/a | A | 2.00 a | 0.00 a | 0.00 a | 0.00 a | 2.00 a |
| 2 | Centric | 40 % | 1.75 oz wt/a | A | 1.00 a | 0.00 a | 0.00 a | 0.00 a | 1.00 a |
| Treatment Prob(F) | | | | 0.5000 | 1.0000 | 1.0000 | 1.0000 | 0.5000 | |

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