

University of Tennessee

Foliar Applications for Tarnished Plant Bug - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: PHY 333 WRF (planted: 5-15-16)

Application: Appl A 7-19-16; Appl B 7-26-16; High clearance sprayer (9.1 GPA, 40 PSI, 8001FF)

Rating: 2 drop cloths per plot (10 row ft)

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

Investigators: Stewart, S.Steckel, Williams

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

| Description | | | | TPB Adult | TPB Immature | Total PB Adult + Imm. | TPB Adult | TPB Immature | Total PB Adult + Imm. | Seed Cotton lbs/acre |
|-------------------|-------------|--------------|------|--------------|-----------------|--------------------------|--------------|-----------------|--------------------------|-------------------------|
| Rating Date | | | | 7/25/2016 | 7/25/2016 | 7/25/2016 | 8/1/2016 | 8/1/2016 | 8/1/2016 | 10/3/2016 |
| Trt-Eval Interval | | | | 6 DA-A | 6 DA-A | 6 DA-A | 6 DA-B | 6 DA-B | 6 DA-B | |
| Treatment | Formulation | Rate | Appl | | | | | | | |
| 1 Untreated | | | | 0.3 a | 98.0 a | 98.3 a | 0.0 a | 94.5 a | 95.0 a | 3283.5 b |
| 2 Strafer | 70 % | 3.0 oz wt/a | AB | 0.0 a | 21.3 b | 21.3 bc | 0.0 a | 9.3 b | 9.3 b | 3870.4 a |
| 3 Strafer | 70 % | 3.5 oz wt/a | AB | 0.3 a | 25.0 b | 25.3 b | 0.0 a | 10.8 b | 10.8 b | 3952.4 a |
| 4 Strafer | 70 % | 3.0 oz wt/a | AB | 0.0 a | 16.8 bc | 16.8 bc | 0.3 a | 4.5 b | 4.8 b | 3829.6 a |
| Diamond | 0.83 lb/gal | 6.0 oz/a | AB | | | | | | | |
| 5 Transform | 50 % | 1.75 oz wt/a | AB | 0.0 a | 17.5 bc | 17.5 bc | 0.0 a | 16.8 b | 16.8 b | 4009.0 a |
| 6 Transform | 50 % | 1.75 oz wt/a | AB | 0.8 a | 11.5 c | 12.3 c | 0.0 a | 2.3 b | 2.3 b | 3819.7 a |
| Diamond | 0.83 lb/gal | 6.0 oz/a | AB | | | | | | | |
| 7 Orthene | 97.4 % | 0.75 lb/a | AB | 0.3 a | 23.8 b | 24.0 b | 0.0 a | 11.8 b | 11.8 b | 3779.9 a |
| 8 Orthene | 97.4 % | 0.75 lb/a | AB | 0.3 a | 19.5 bc | 19.8 bc | 0.0 a | 0.8 b | 0.8 b | 3838.9 a |
| Diamond | 0.83 lb/gal | 6.0 oz/a | AB | | | | | | | |

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

Graph below

Total Plant Bugs (10 row ft)

