

# University of Tennessee

## Selected Foliar Insecticides for Control of Caterpillar Pests in Cotton - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: FM 2322 non-Bt (planted: 6-5-18)

Appl A 8-21-18; High clearance sprayer (9.4 GPA, 40 PSI, 8001FF)

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

Investigators: Stewart, S.Steckel, Williams

Note: Application was several days later than the optimal timing.

Dam. Sq.= Damaged Squares; Dam. Bolls = Damaged bolls; Dam. Fruit = Damaged Squares + Bolls; CEW = bollworm larvae

| Description                 |                      |                            |  | Dam Sq     | Dam Bolls | CEW       | Dam Fruit | CEW       | Dam Sq    | Dam Bolls | Dam Fruit |
|-----------------------------|----------------------|----------------------------|--|------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Pest Stage Majority         |                      |                            |  | Total      | Total     | Total     | Total     | Total     | Total     | Total     | Total     |
| Rating Date                 |                      |                            |  | 8/27/2018  | 8/27/2018 | 8/27/2018 | 8/27/2018 | 8/29/2018 | 8/29/2018 | 8/29/2018 | 8/29/2018 |
| Sample Size, Unit           |                      |                            |  | 25 Squares | 25 Bolls  | 50 Fruit  | 50 Fruit  | 20 Plants | 20 Plants | 20 Plants | 20 Plants |
| Trt-Eval Interval           |                      |                            |  | 6 DA-A     | 6 DA-A    | 6 DA-A    | 6 DA-A    | 8 DA-A    | 8 DA-A    | 8 DA-A    | 8 DA-A    |
| Treatment                   | Formulation          | Rate                       |  |            |           |           |           |           |           |           |           |
| 1 Denim<br>NIS              | 0.16 lb/gal<br>100 % | 8 fl oz/a<br>0.25 % v/v    |  | 2.50 a     | 2.75 a    | 2.50 a    | 5.25 a    | 5.00 b    | 4.25 c    | 10.25 bc  | 14.50 bc  |
| 2 Denim<br>NIS              | 0.16 lb/gal<br>100 % | 10 fl oz/a<br>0.25 % v/v   |  | 1.25 a     | 2.50 a    | 1.50 a    | 3.75 a    | 3.50 b    | 4.50 bc   | 5.50 cd   | 10.00 c   |
| 3 Intrepid Edge             | 3 lb/gal             | 7 fl oz/a                  |  | 2.50 a     | 2.75 a    | 2.00 a    | 5.25 a    | 3.25 b    | 6.50 bc   | 7.50 bcd  | 14.00 bc  |
| 4 Besiege                   | 1.252 lb/gal         | 8 fl oz/a                  |  | 0.25 a     | 0.75 a    | 0.50 a    | 1.00 a    | 3.25 b    | 3.25 c    | 4.25 d    | 7.50 c    |
| 5 Experimental<br>Dyne-Amic | 400 ga/l             | 2.05 fl oz/a<br>0.25 % v/v |  | 2.50 a     | 3.00 a    | 3.50 a    | 5.50 a    | 6.25 b    | 9.75 ab   | 10.50 b   | 20.25 b   |
| 6 Untreated                 |                      |                            |  | 3.50 a     | 4.75 a    | 5.00 a    | 8.25 a    | 12.50 a   | 13.50 a   | 16.75 a   | 30.25 a   |
| Treatment Prob(F)           |                      |                            |  | 0.0993     | 0.0956    | 0.0540    | 0.0617    | 0.0062    | 0.0062    | 0.0009    | 0.0001    |

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