

# University of Tennessee

## Foliar Applications for Control of Kudzu Bug and Caterpillar Pests in Soybeans - Madison Co.

Location: West TN Research and Education Center - Jackson

Variety: HBK 4653 LL (planted 5-24-16)

Application: 8-18-16; High clearance sprayer (9.1 GPA, 40 PSI, 8001FF)

Rating: 25 sweeps per plot

Plot: 4 rows x 35 ft (RCBD, 4 Reps)

Investigators: Stewart, S. Steckel, Williams

GCW = Green Cloverworm; Looper = Soybean + Cabbage

| Description         |             |              | Kudzu Bug | GCW       | Looper    | Kudzu Bug | GCW       | Looper    | Yield     |
|---------------------|-------------|--------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Pest Stage Majority |             |              | Total     | Total     | Total     | Total     | Total     | Total     | Bu/A      |
| Rating Date         |             |              | 8/22/2016 | 8/22/2016 | 8/22/2016 | 8/26/2016 | 8/26/2016 | 8/26/2016 | 9/28/2016 |
| Trt-Eval Interval   |             |              | 4 DA-A    | 4 DA-A    | 4 DA-A    | 8 DA-A    | 8 DA-A    | 8 DA-A    |           |
| Treatment           | Formulation | Rate         |           |           |           |           |           |           |           |
| 1 Karate Z          | 2.08 Lb/gal | 1.96 fl oz/a | 3.3 c     | 7.3 b     | 9.3 a     | 4.8 c     | 3.0 b     | 5.8 a     | 67.4 a    |
| 2 Besiege           | 1.25 Lb/gal | 7 fl oz/a    | 4.5 c     | 0.3 c     | 2.3 cd    | 9.5 c     | 0.0 b     | 2.5 bc    | 70.3 a    |
| 3 Prevathon         | 0.43 Lb/gal | 10 fl oz/a   | 42.5 ab   | 0.0 c     | 2.0 cd    | 58.8 a    | 0.0 b     | 1.5 c     | 65.8 a    |
| 4 Intrepid          | 2 Lb/gal    | 4 fl oz/a    | 48.0 a    | 2.5 bc    | 3.3 bcd   | 61.3 a    | 1.0 b     | 2.0 bc    | 70.8 a    |
| 5 Intrepid Edge     | 3 Lb/gal    | 4 fl oz/a    | 46.3 ab   | 0.3 c     | 0.8 d     | 60.8 a    | 0.0 b     | 1.0 c     | 68.4 a    |
| 6 Orthene           | 97 %        | 16 oz wt/a   | 31.3 b    | 0.0 c     | 6.5 ab    | 32.5 b    | 0.0 b     | 2.5 bc    | 68.2 a    |
| 7 BlackHawk         | 36 %        | 1.5 oz wt/a  | 46.8 a    | 0.0 c     | 4.8 bc    | 62.5 a    | 0.0 b     | 1.5 c     | 64.2 a    |
| 8 Steward           | 1.25 Lb/gal | 8 fl oz/a    | 38.8 ab   | 0.0 c     | 2.3 cd    | 41.3 b    | 0.0 b     | 2.3 bc    | 66.3 a    |
| 9 Untreated         |             |              | 53.8 a    | 20.0 a    | 8.8 a     | 66.3 a    | 8.0 a     | 3.5 b     | 66.6 a    |

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