

University of Tennessee

Study Examining the Effect of Cover Crops and Insecticide Seed Treatment in Soybean - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: Armor 46R42 RR (planted 5-10-2017)

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

Application for cover crop termination: Early (4-13-17); Late (5-10-17)

Investigators: Stewart, S. Steckel, Williams

Cover crop consisted of blend of soft red winter wheat (60 lbs/acre) plus hairy vetch (20 lbs/acre) sowed 10-17-16.

| Description | | | Stand counts | Defoliation % | Vigor 0 - 5 scale | Defoliation % | Stand counts | Lodged plants | Yield |
|--------------------------------|-------------|-------------|--------------|---------------|-------------------|---------------|--------------|---------------|-----------|
| Rating Date | | | 5/19/2017 | 5/19/2017 | 5/19/2017 | 5/25/2017 | 6/1/2017 | 6/21/2017 | 9/25/2017 |
| Sample Size, Unit | | | 20 Rowft | 1 Plot | 1 Plot | 1 Plot | 20 Rowft | 2 meters | Bu/A |
| Trt-Eval Interval | | | 9 DAP | 9 DAP | 9 DAP | 15 DAP | 22 DAP | 42 DAP | 138 DAP |
| Treatment | Formulation | Rate | | | | | | | |
| 1 Late burndown Gaucho | 5 lb/gal | 2 fl oz/cwt | 111.0 a | 4.0 b | 4.4 a | 5.3 b | 119.8 a | 9.5 a | 55.2 a |
| 2 Late burndown No IST | | | 96.3 a | 17.0 a | 3.4 c | 22.5 a | 106.0 a | 6.3 b | 53.6 a |
| 3 Early burndown Gaucho 600 FS | 5 lb/gal | 2 fl oz/cwt | 94.8 a | 2.3 b | 4.1 ab | 3.5 b | 107.3 a | 10.3 a | 56.0 a |
| 4 Early burndown No IST | | | 84.5 a | 13.3 a | 3.8 bc | 14.8 a | 93.0 a | 10.3 a | 55.4 a |

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