

University of Tennessee

Trial to Determine the Termination Timing for Control of Plant Bugs in Cotton - 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; Appl C 8-2-16; Appl D 8-9-16; Appl E 8-18-16; High clearance sprayer (10.0 GPA, 40 PSI, 80015FF)

Insecticide chemistries were rotated with every application following UT recommended standards

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	Total PB	TPB	Total PB	TPB	Total PB	Seed Cotton
Pest Stage Majority		Immature	Adult + Imm.	Immature	Adult + Imm.	Immature	Adult + Imm.	lbs/acre
Rating Date		7/25/2016	7/25/2016	8/1/2016	8/1/2016	8/8/2016	8/8/2016	9/29/2016
Trt-Eval Interval		6 DA-A	6 DA-A	6 DA-B	6 DA-B	6 DA-C	6 DA-C	
Treatment	Appl							
1 Untreated		65.8 a	65.8 a	95.5 a	95.5 a	29.8 a	33.3 a	2828.3 b
2 Spray for 2 wks	AB	18.0 b	18.3 b	7.5 b	8.0 b	12.5 bc	12.8 b	3292.3 ab
3 Spray for 3 wks	ABC	17.3 b	17.3 b	8.0 b	8.5 b	4.8 e	5.0 d	3321.3 ab
4 Spray for 4 wks	ABCD	11.8 b	11.8 b	8.5 b	9.0 b	6.3 cde	6.3 cd	3651.1 a
5 Spray for 5 wks	ABCDE	15.0 b	15.3 b	8.8 b	8.8 b	9.8 bcd	10.0 bc	3770.6 a
6 Spray for 5 wks	ABCDE	14.0 b	14.0 b	6.0 b	6.5 b	5.5 de	5.8 cd	3786.3 a
7 Spray by current thresholds	ABD	14.5 b	15.0 b	5.0 b	5.0 b	15.5 b	15.8 b	3642.3 a

See graph below

Seed Cotton Yield

