

University of Tennessee

Three Cornered Alfalfa Hopper Threshold in Soybean - Madison Co.

Location: West TN Research and Education Center (Jackson)

Variety: Asgrow 5301 RR (planted 5-19-08)

Application: 7-29-08, 8-12-08, 9-9-08, and 9-16-08

Application: High clearance sprayer (10.1 GPA, 40 PSI, FF 8002)

Rating: 25 sweeps per plot

Plots: 8 Rows x 50 ft (RCBD, 4 Reps)

Investigators: Stewart, Willis, S. Steckel

TCAH = Three Cornered Alfalfa Hopper, GSB + BSB = Green + Brown Stink Bug

Trts 2, 3 -- triggered when TCAH reached 40/100 sweeps (Trt 3 -- two applications: 1 lb Orthene, 2 oz Karate)

Trt 4 was applied at the R5 growth stage.

Trt 5 was Treat As Needed (TAN) for stink bugs according to UT thresholds.

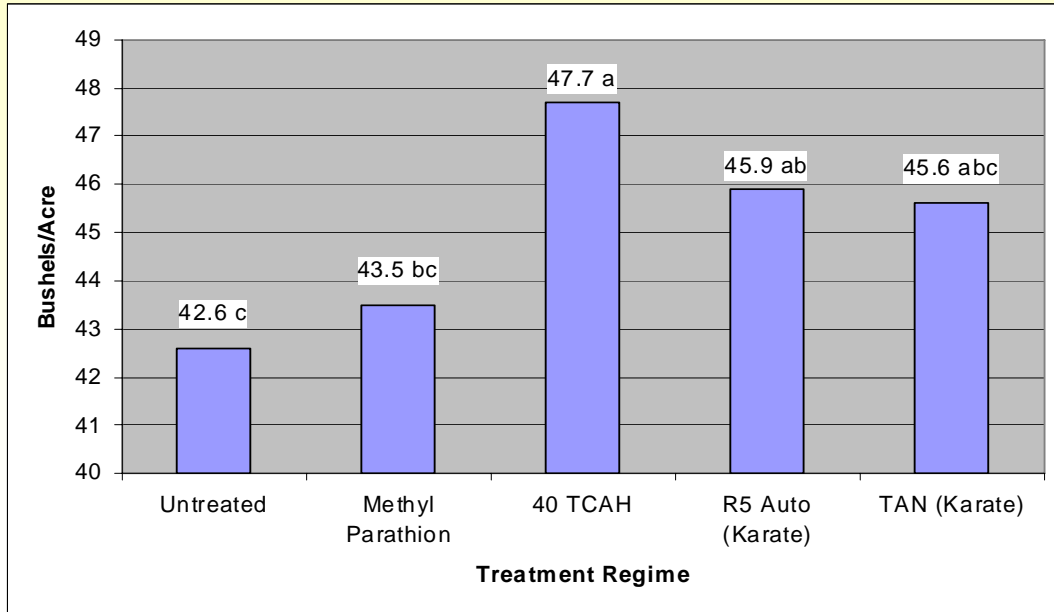
Description	TCAH	GSB+BSB	TCAH	GSB+BSB	TCAH	GSB+BSB	TCAH	GSB+BSB
Rating Date	7/28/2008	7/28/2008	8/4/2008	8/4/2008	8/11/2008	8/11/2008	8/18/2008	8/18/2008
Pest Stage	Total	Total	Total	Total	Total	Total	Total	Total
Trt-Eval Interval	-1 DA-A	-1 DA-A	6 DA-A	6 DA-A	13 DA-A	13 DA-A	6 DA-B	6 DA-B
Treatment								
1 Untreated Check	8.75 a	2.25 a	13.75 a	1.75 a	12.00 a	1.75 a	7.50 a	0.00 a
2 Methyl Parathion 4 EC (8 oz)	9.25 a	3.00 a	8.75 ab	0.25 a	14.00 a	2.50 a	8.50 a	0.50 a
3 40 TCAH/100 sweeps	9.25 a	3.00 a	5.00 b	0.25 a	15.75 a	1.50 a	2.25 a	0.25 a
4 R5 Automatic (Karate 2 oz)	6.50 a	1.50 a	10.25 ab	1.00 a	11.50 a	1.75 a	8.25 a	1.25 a
5 TAN (Karate 2 oz)	8.25 a	1.50 a	15.00 a	2.25 a	14.00 a	1.00 a	11.00 a	0.50 a

Description	TCAH	GSB+BSB	TCAH	GSB+BSB	TCAH	GSB+BSB	TCAH	GSB+BSB
Rating Date	8/26/2008	8/26/2008	9/2/2008	9/2/2008	9/8/2008	9/8/2008	9/16/2008	9/16/2008
Pest Stage	Total	Total	Total	Total	Total	Total	Total	Total
Trt-Eval Interval	14 DA-B	14 DA-B	21 DA-B	21 DA-B	27 DA-B	27 DA-B	7 DA-C	7 DA-C
Treatment								
1 Untreated Check	9.25 a	4.50 a	4.50 a	5.50 a	13.50 a	11.75 a	3.25 bc	9.50 ab
2 Methyl Parathion 4 EC (8 oz)	8.50 a	2.50 ab	8.75 a	4.50 a	14.75 a	7.00 a	8.75 a	10.00 ab
3 40 TCAH/100 sweeps	6.50 a	0.25 b	4.75 a	0.25 a	6.75 a	3.50 a	3.25 bc	4.00 b
4 R5 Automatic (Karate 2 oz)	7.50 a	5.75 a	2.25 a	3.00 a	6.75 a	7.50 a	0.75 c	2.50 b
5 TAN (Karate 2 oz)	8.00 a	3.75 ab	5.25 a	3.75 a	6.75 a	7.25 a	4.25 b	16.50 a

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

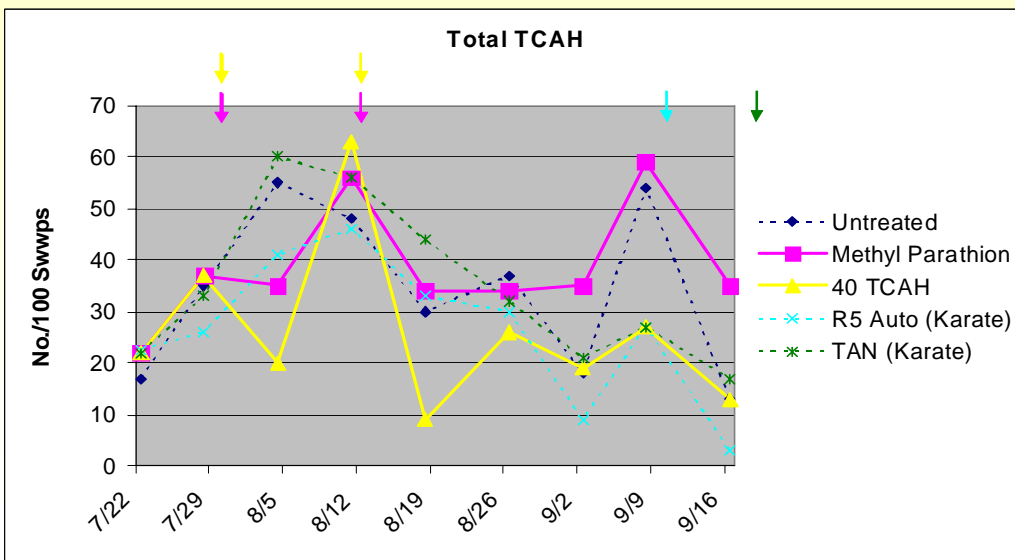
Evaluation of TCAH Treatment Thresholds

Yield Data (WTREC, 2008)



Evaluation of TCAH Treatment Thresholds

Hopper Numbers (WTREC, 2008)



Evaluation of TCAH Treatment Thresholds

Stink Bug Numbers (WTREC, 2008)

