

Project Code: N/A

Project Title: Foliar Soybean Trial Lonoke Co.

GENERAL TRIAL INFORMATION

Study Director: Gus Lorenz
Investigators: Gus Lorenz, Kyle Colwell, Heather Wilf, Nichole Taillon
Location: Prairie Co., AR

CROP AND PEST DESCRIPTION

Pest: Bollworm, Looper, Three Corner Alfalfa Hopper, Stink Bug
Crop: Soybeans
Plot Width, Unit: 12.5 ft.
Plot Length, Unit: 50 ft.
Replications: 4
Site Type: field
Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

Application Date: September 18, 2008
Application Method: Spray
Application Placement: Foliar

APPLICATION EQUIPMENT

Appl. Equipment: Mud Master
Operating Pressure: 40 psi
Nozzle Type: conejet
Nozzle Size: Tee-Jet TXVS 6
Nozzle Spacing, Unit: 19in
Ground Speed, Unit: 3 mph
Carrier: water
Spray Volume, Unit: 10
Propellant: air pressure

MATERIALS AND METHODS

The trial was located in Lonoke Co., AR. Plot size was 12.5ft. by 50ft. Insecticide treatments were applied with a Mud Master. The boom was fitted with TX6 hollow cone nozzles at 19in nozzle spacing. Spray volume was 10 gal/a, at 40 psi. Insect density was determined by taking 25 sweeps per plot with a standard sweep net 15 in. diameter. Samples were taken on September 22, 2008. Data was processed using Agriculture Research Manager Version 8, AOV and Duncan's New Multiple Range Test (P=0.10).

RESULTS

Table 1. Efficacy of Various Insecticides for Control of Stink Bugs. (4 DAT)

Application Date: September 18, 2008

Rating Date: September 22, 2008

Soybean Stink Bug Totals 4 DAT					
Treatment		Rate	TOTAL BSB	TOTAL GSB	TOTAL SB
Name	Rate	Unit	4 DAT	4 DAT	4 DAT
UTC			3 a	3 a	6 a
Belt	1.5	oz/a	2 a	1 a	3 a
Belt	2	oz/a	1 a	4 a	5 a
Belt	2.5	oz/a	1 a	3 a	4 a
Belt	3	oz/a	1 a	3 a	4 a
Intrepid	4	oz/a	1 a	1 a	2 a
Brigade	5.12	oz/a	0 a	1 a	1 a
Brigade + Intrepid	5.12	oz/a	0 a	1 a	1 a
Brigade + Intrepid	4.26	oz/a	0 a	0 a	0 a
Brigade + Intrepid	5.12	oz/a	1 a	0 a	1 a
Brigade + Intrepid	6	oz/a			

*Means followed by same letter do not significantly differ

Chart 1. Efficacy of Various Insecticides for Control of Loopers and TCAH. (4 DAT)

Application Date: September 18, 2008

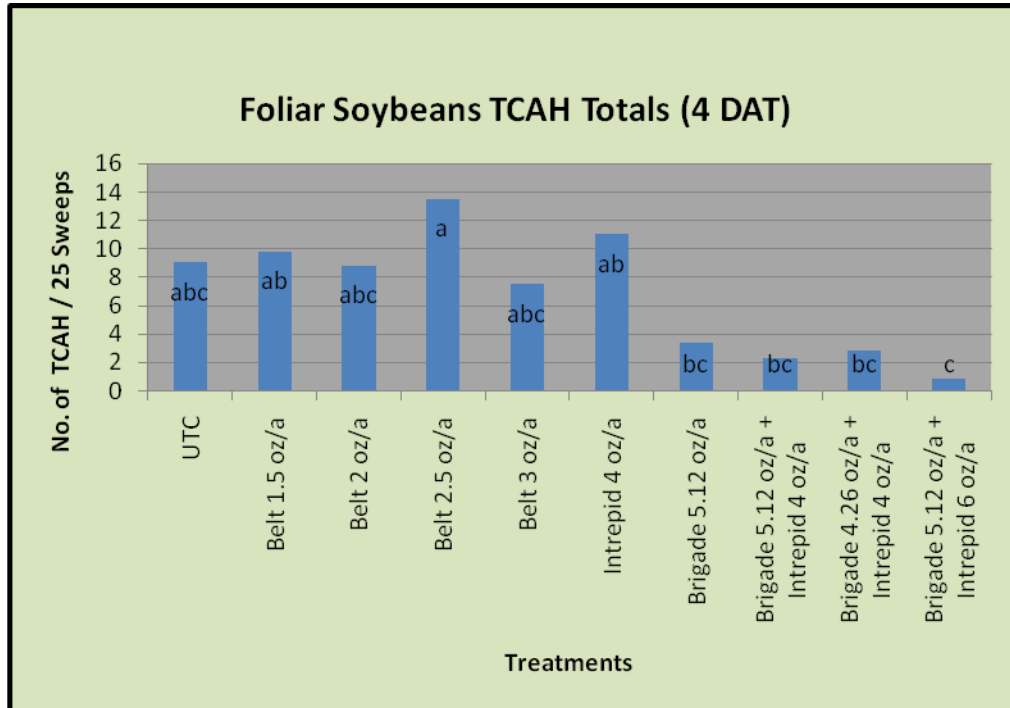
Rating Date: September 22, 2008

Soybean Looper and TCAH Totals (4 DAT)				
Treatment	Rate		TCAH	LOOPER
Name	Rate	Unit	4 DAT	4 DAT
UTC			9 abc	10.3 a
Belt	1.5	oz/a	9.8 ab	3.3 b
Belt	2	oz/a	8.8 abc	1 b
Belt	2.5	oz/a	13.5 a	5.8 b
Belt	3	oz/a	7.5 abc	5 b
Intrepid	4	oz/a	11 ab	2.5 b
Brigade	5.12	oz/a	3.3 bc	2.8 b
Brigade +	5.12	oz/a	2.3 bc	1.3 b
Intrepid	4	oz/a		
Brigade +	4.26	oz/a	2.8 bc	1.3 b
Intrepid	4	oz/a		
Brigade +	5.12	oz/a	0.8 c	1.8 b
Intrepid	6	oz/a		
*Means followed by same letter do not significantly differ				

Chart 2. Efficacy of Various Insecticides for Control of Three Cornered Alfalfa Hoppers (4 DAT)

Application Date: September 18, 2008

Rating Date: September 22, 2008



* Means followed by same letter do not significantly differ (P=.10)