

Project Code: N/A

Project Title: Foliar Soybean Trial, Phillips County, 2008

GENERAL TRIAL INFORMATION

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

CROP AND PEST DESCRIPTION

Pest: Bean Leaf Beetle, Three Corner Alfalfa Hopper
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: August 15, 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 Phillips County Arkansas, 2008. 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 (15 in. diameter) sweep net. Samples were taken on August 19, 2008. Data was processed using Agriculture Research Manager Version 8, AOV and Duncan's New Multiple Range Test (P=0.10).

RESULT

Table 1. Efficacy of Various Insecticides for Control of Bean Leaf Beetles and Three Corner Alfalfa Hoppers. (4 DAT)

Application Date: August 15, 2008

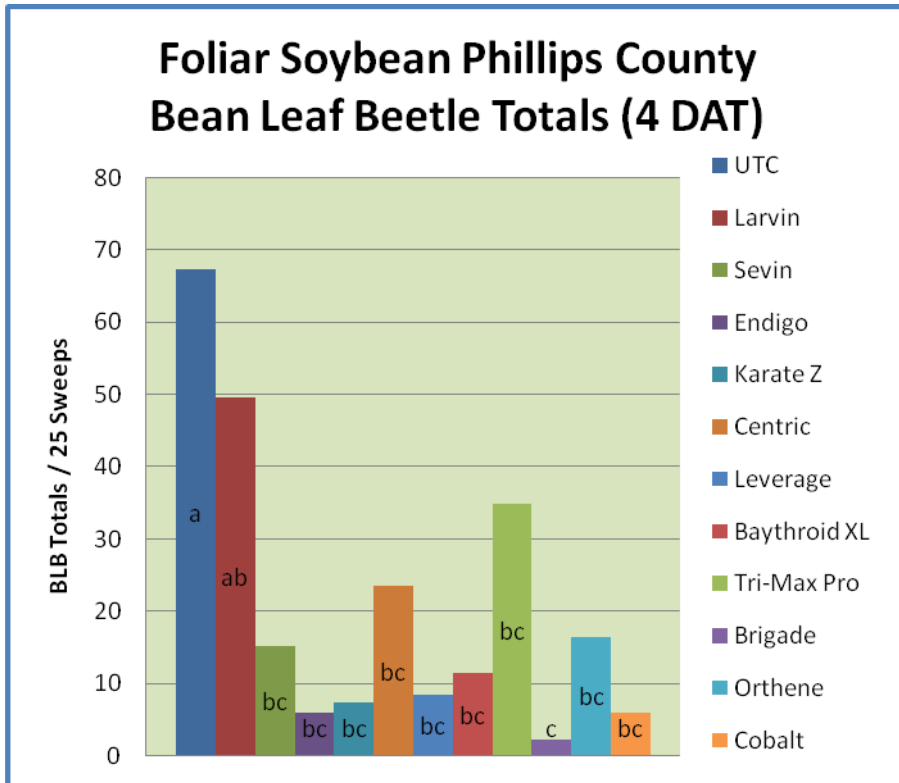
Rating Date: August 19, 2008

BLB and TCAH Totals 4 DAT						
Treatment	Rate		BLB		TCAH	
Name	Rate	Unit	4 DAT		4 DAT	
UTC			67.3	a	8.3	a
Larvin	24	oz/a	49.5	ab	9.5	a
Sevin	24	oz/a	15.3	bc	4.8	ab
Endigo	4.5	oz/a	6	bc	1.8	b
Karate Z	1.8	oz/a	7.5	bc	1.5	b
Centric	1.67	oz/a	23.5	bc	5.8	ab
Leverage	3.8	oz/a	8.5	bc	2.3	b
Baythroid XL	2.1	oz/a	11.5	bc	2.3	b
Tri-Max Pro	1.35	oz/a	34.8	bc	5.5	ab
Brigade	4.2	oz/a	2.3	c	0.5	b
Orthene	0.75	lb/a	16.5	bc	4.8	ab
Cobalt	24	oz/a	6	bc	4.8	ab

Chart 1. Efficacy of Various Insecticides for Control of Bean Leaf Beetles. (4 DAT)

Application Date: August 15, 2008

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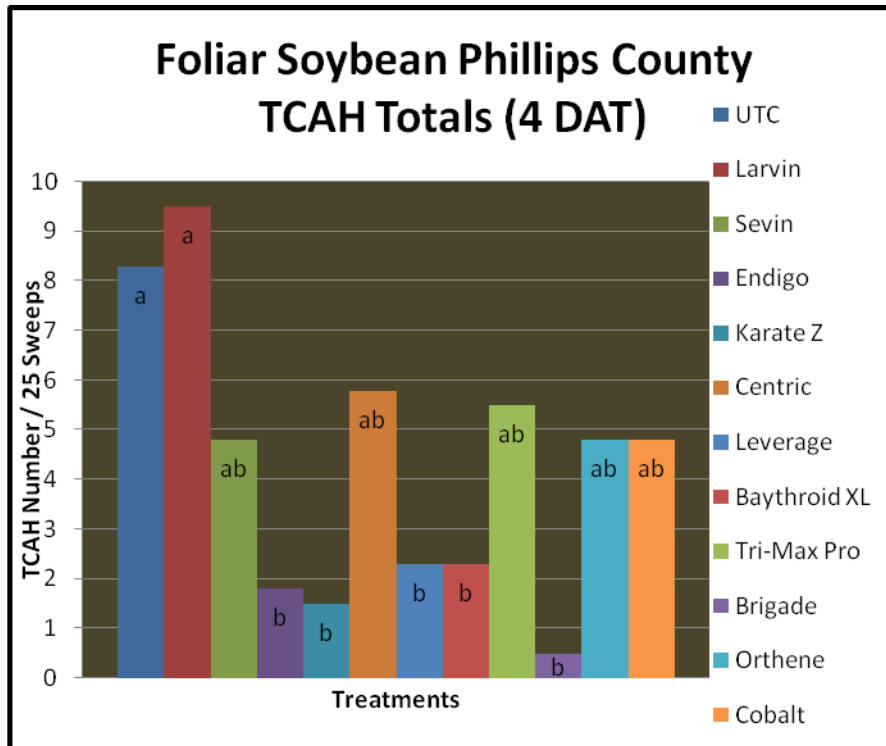


*Means followed by same letter do not significantly differ (P=.10)

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

Application Date: August 15, 2008

Rating Date: August 19, 2008



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

