

Project Code: N/A

Project Title: Steward Armyworm Large Block

GENERAL TRIAL INFORMATION

Study Director: Gus Lorenz
Investigators: Gus Lorenz, Kyle Colwell, Jarrod Hardke
Location: Lonoke Co., AR

CROP AND PEST DESCRIPTION

Pest: Armyworm
Crop: Soybeans
Plot Width, Unit: 30 ft.
Plot Length, Unit: 150 ft.
Replications: 4
Site Type: field
Study Design: RANDOMIZED COMPLETE BLOCK

APPLICATION DESCRIPTION

Application Date: June 30, 2006
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 30ft. by 150ft. arranged in a randomized complete block design with four replications. Insecticide treatments were applied on June 30, 2006 with a Mud Master. The boom was fitted with TX6 hollow cone nozzles at 29in nozzle spacing. Spray volume was 10 gal/a, at 40 psi. Data was collected on July 3, 2006 (3 DAT). Treatments are listed in the results section. Armyworm density was determined by counting adults and nymphs from 25 sweep net samples in each plot. Data was compared against each treatment and the check. Data was processed using Agriculture Research Manager Version 7. Analysis of variance was conducted and Duncan's New Multiple Range Test (P=0.10).

RESULTS

Table 1 Efficacy of Various Insecticides for Control of Armyworms (3 DAT)

Application Date: June 30, 2006

Evaluation Date: July 3, 2006

Treatment Name	Rate	Rate Unit	Seasonal Total Larvae
STEWARD	0.05	LB A/A	0 b
TRACER	0.067	LB A/A	2 b
Untreated Check			7 a
MUSTANG MAX	0.025	LB A/A	0 b

Means followed by same letter do not significantly differ (P=.10, Student-Newman-Keuls)

Chart 1 Efficacy of Various Insecticides for Control of Armyworms (3 DAT)

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