

**Project Code: N/A**

**Project Title: Plant Bug 1 - 2008**

**GENERAL TRIAL INFORMATION**

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

**CROP AND PEST DESCRIPTION**

Pest: Tarnished Plant Bugs  
Crop: Cotton  
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 29, 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 Lee 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 2 drop cloth samples per plot with a standard 2.5 ft. drop cloth (10 Row Ft. total per plot). Samples were taken on September 2 and 11, 2008. Data was processed using Agriculture Research Manager Version 8, AOV, and Duncan's New Multiple Range Test (P=0.10).

**RESULT**

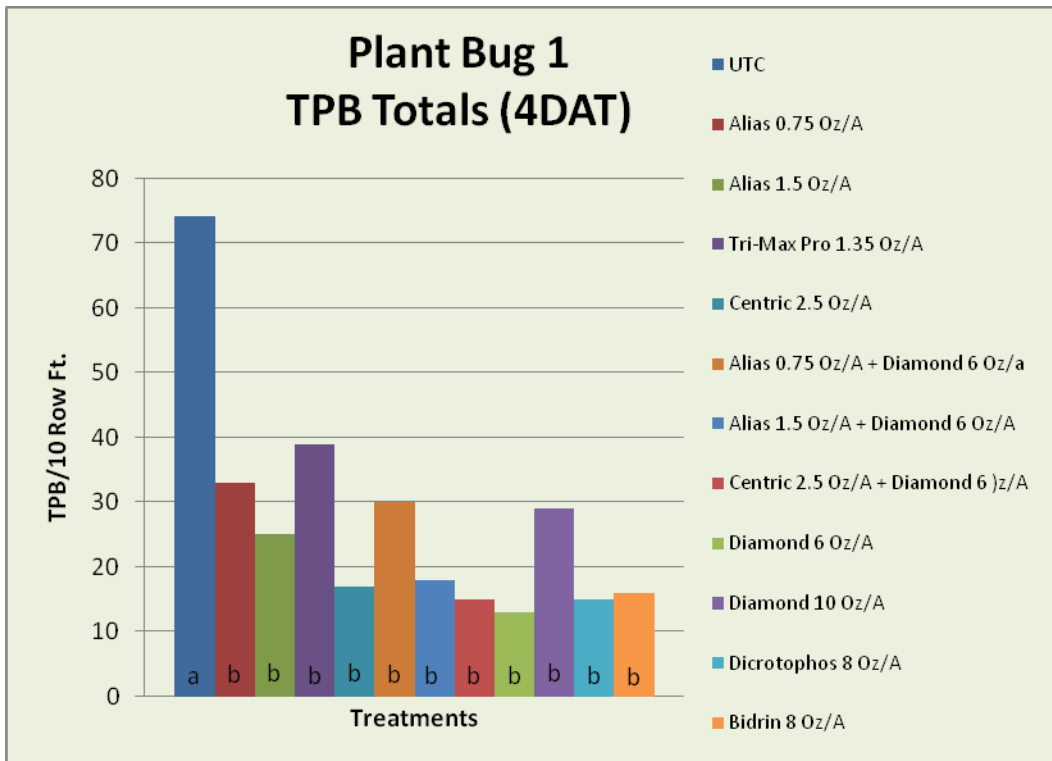
**Chart 1. Rainfall Totals for Plant Bug 1 Location**

Rainfall Amount for Plant Bug 1	
Date	Rain Fall in Inches
8-Aug	0.46
9-Aug	0
10-Aug	0.44
11-Aug	0.18
12-Aug	0.04
13-Aug	0.07
14-Aug	0
15-Aug	0
17-Aug	2.41

**Chart 1. Efficacy of Various Insecticides for Plant Bug Control (4 DAT)**

Application Date: August 29, 2008

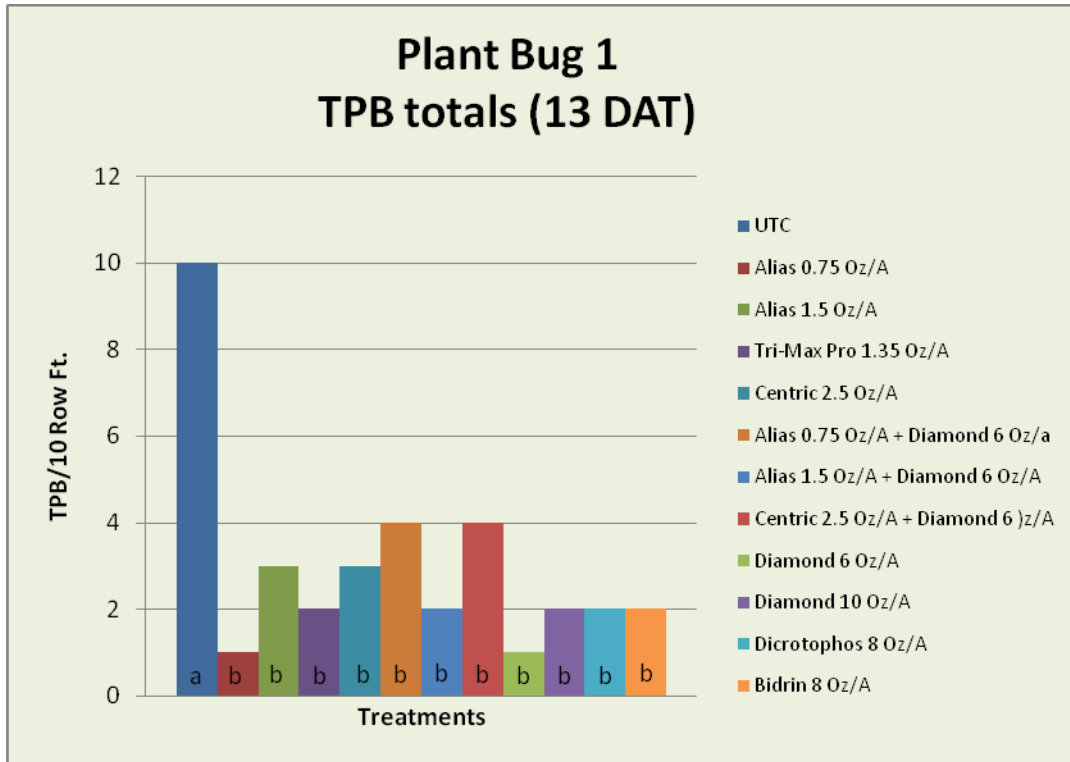
Rating Date: September 2, 2008



**Chart 2. Efficacy of Various Insecticides for Plant Bug Control (13 DAT)**

Application Date: August 29, 2008

Rating Date: September 11, 2008

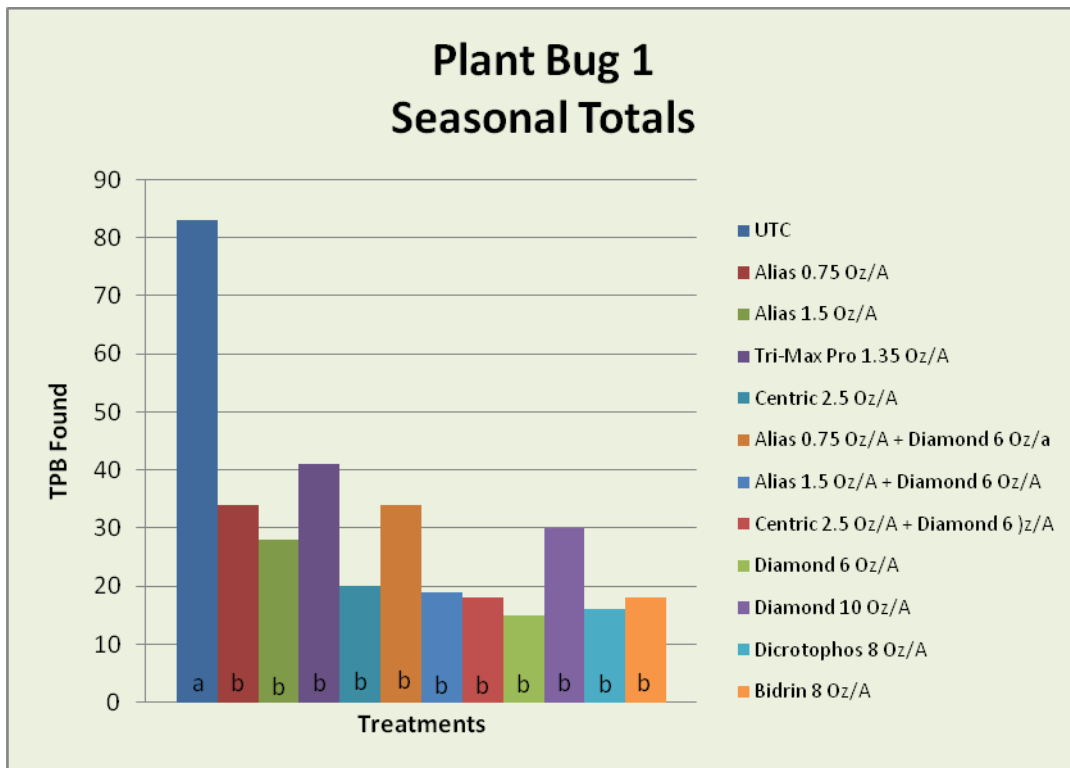


\*Means followed by same letter do not significantly differ (P=.10)

**Chart 3. Efficacy of Various Insecticides for Plant Bug Control (Seasonal Totals)**

Application Date: August 29, 2008

Rating Date: September 2 and 11, 2008



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