

**Project Code: N/A**

**Project Title: Plant Bug 2 - 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 7, 2008(rain 20 min. later)  
August 8, 2008(rain 6 hours later)  
August 14, 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). Application dates were August 7, 8, and 14, 2008. One half inch of rain fell 30 minutes after application on August 7. Rain fall chart included in results section. Samples were taken on August 13, and 18, 2008. Data was processed using Agriculture Research Manager Version 8, AOV, and Duncan's New Multiple Range Test (P=0.10).

**RESULTS**

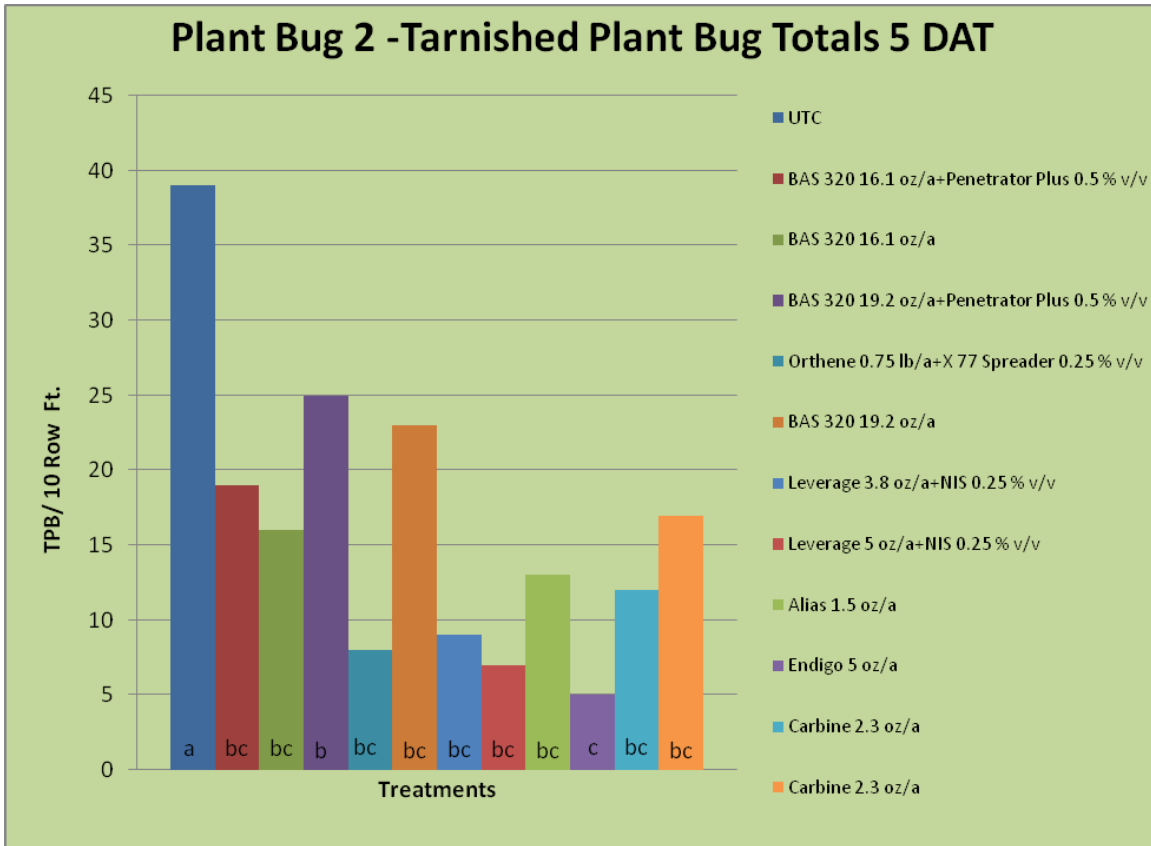
**Chart 1. Rainfall Totals for Plant Bug 2 Location**

Rainfall Amount for Plant Bug 2	
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

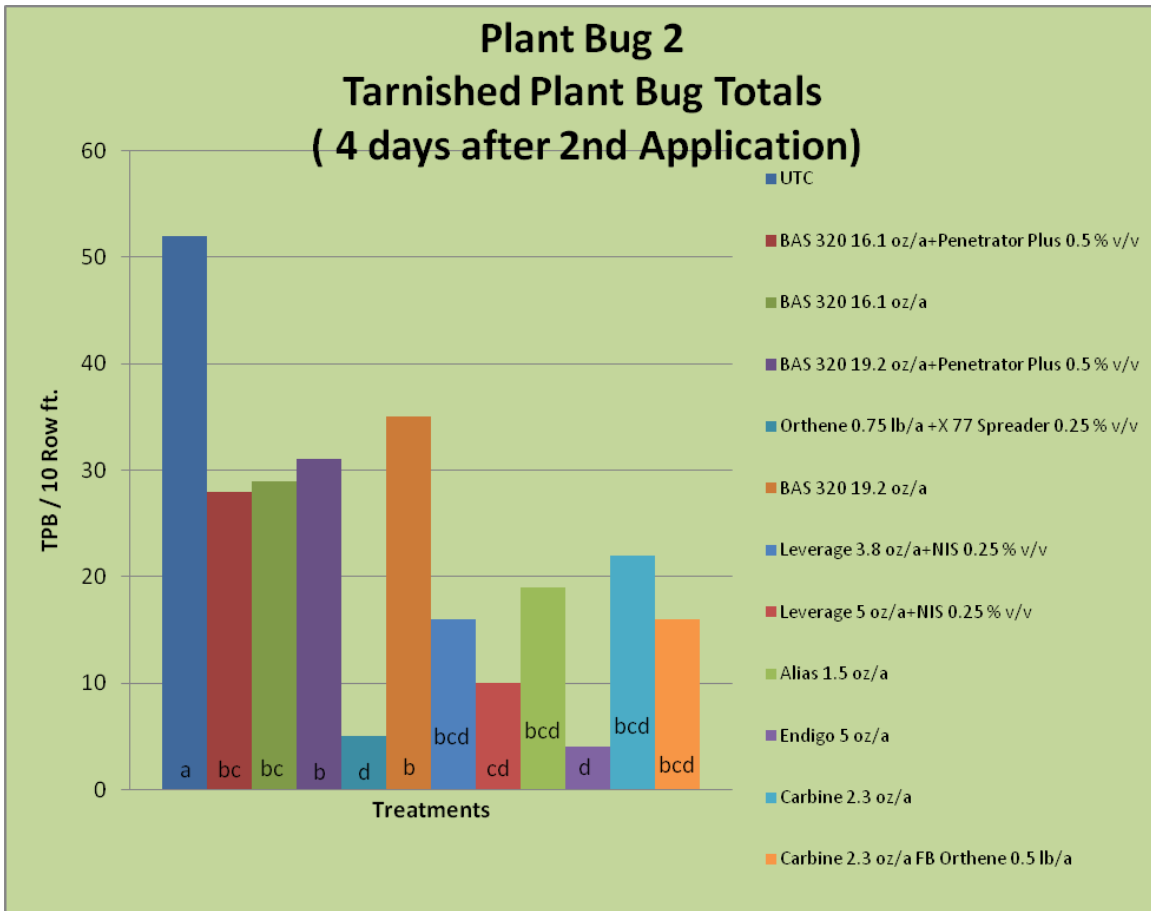
**Chart 2. Efficacy of Various Insecticides for Plant Bug Control (13 DAT)**

Application Date: August 7, 8, 2008

Rating Date: August 13, 2008



**Chart 3. Efficacy of Various Insecticides for Plant Bug Control (4 days after second application)**  
 Application Date: August 14, 2008  
 Rating Date: August 18, 2008

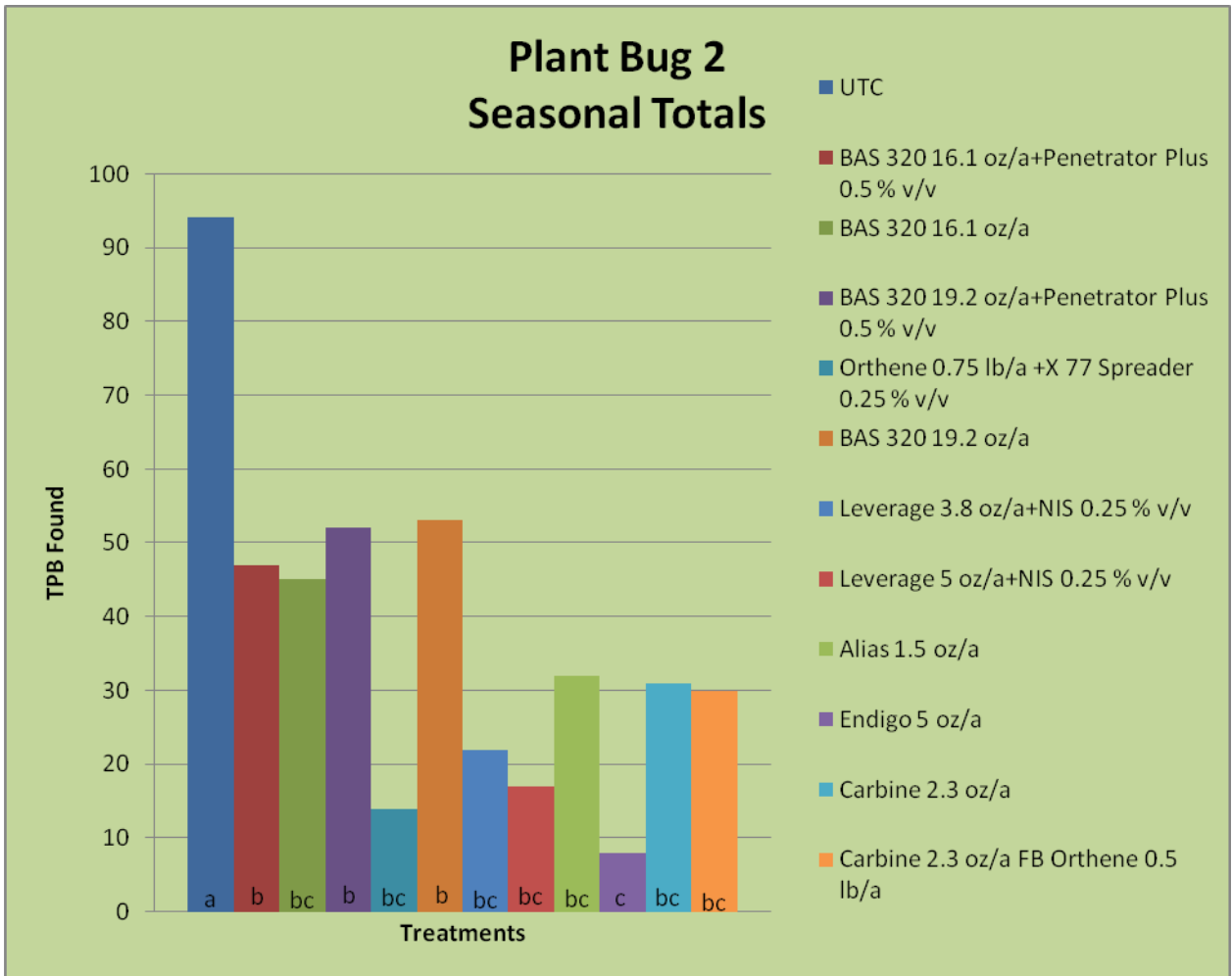


\*Means followed by same letter do not significantly differ (P=.10)

**Chart 4. Efficacy of Various Insecticides for Plant Bug Control (Seasonal Totals)**

Application Date: August 7, 8, and 14, 2008

Rating Date: August 13, and 18, 2008



\*Means followed by same letter do not significantly differ (P=0.10)