Diamond Insecticide Cotton

by James Whitehead MANA Development Manager



Diamond®



Diamond Insecticide

- Diamond registered in cotton in 2004
- Chemtura marketed Diamond in Cotton from 2004 – 2007
- In 2007 Chemtura made strategic changes in their Business Model and decided to exit the Diamond cotton market
- In late 2007-2008 Chemtura granted distribution rights for Diamond[™] to MANA



Diamond 0.83EC Use Pattern - Cotton

Target Pests	FI Oz/Acre
Plant Bugs, Stink Bugs	9-12
	6-9 with knockdown
Tobacco Budworm, Cotton	12-14
Bollworm	6-9 with knockdown
Armyworms, Loopers, and Other Foliage Feeding Caterpillars	6-12
Cotton Fleahoppers	6-9
Whiteflies (suppression)	6-12
Thrips (suppression)	9-14



Diamond Insecticide

Started a dialogue with University Research/Extension Entomologists in the Mid-South

- Quickly realized that Diamond had not been fully developed
- Unclear how to optimally position in a cotton insect control program

MANA MAKES SENSE.

- Use Rate
- Tank-mix partner(s)
- Timing
- Initiated a research program re-develop the product

 After 2 years of cooperative research with key entomologists in the mid-south we better understand how to position Diamond in cotton

Diamond's Unique Mode of Action

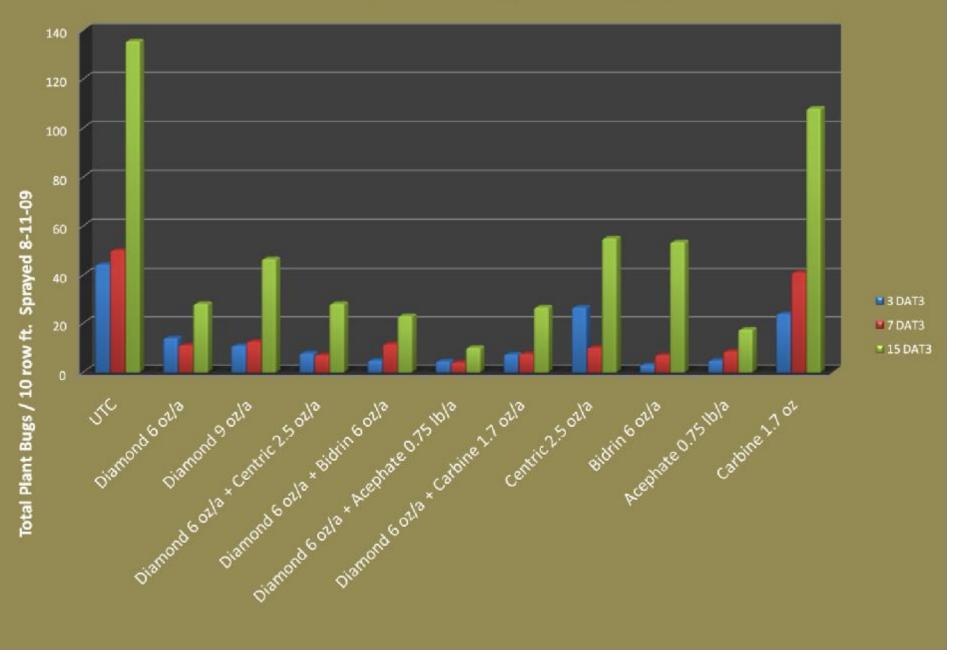
Diamond (novaluron) is a chitin synthesis inhibitor which effects the target insect in its ability to successfully molt to the next growth stage, thus causing death.

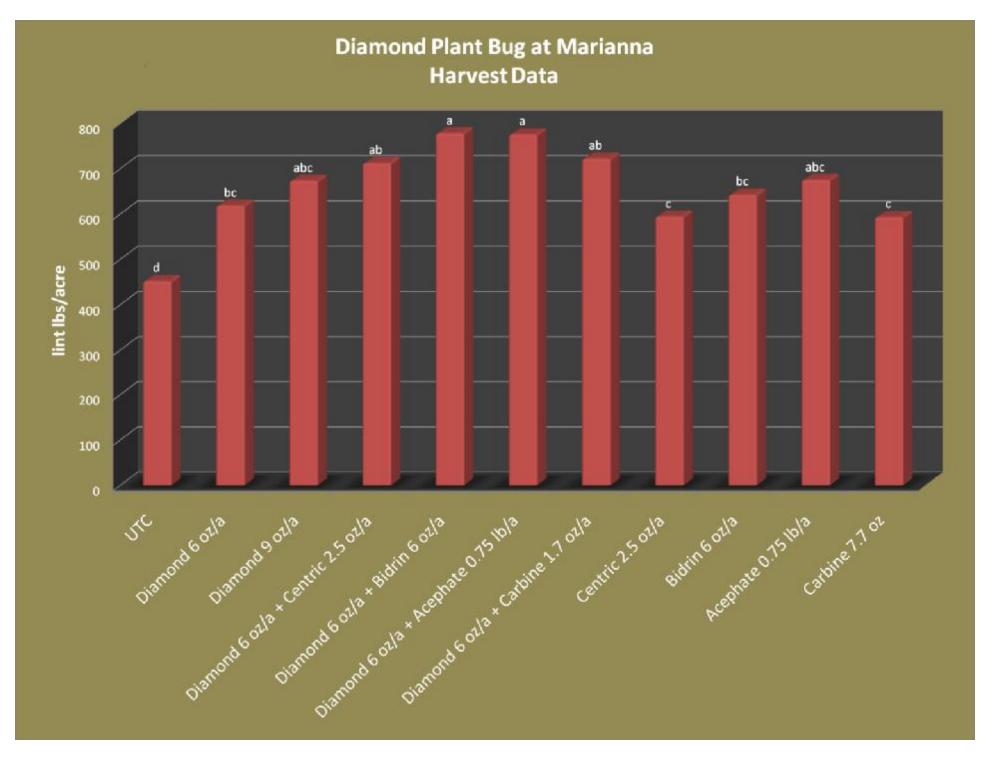


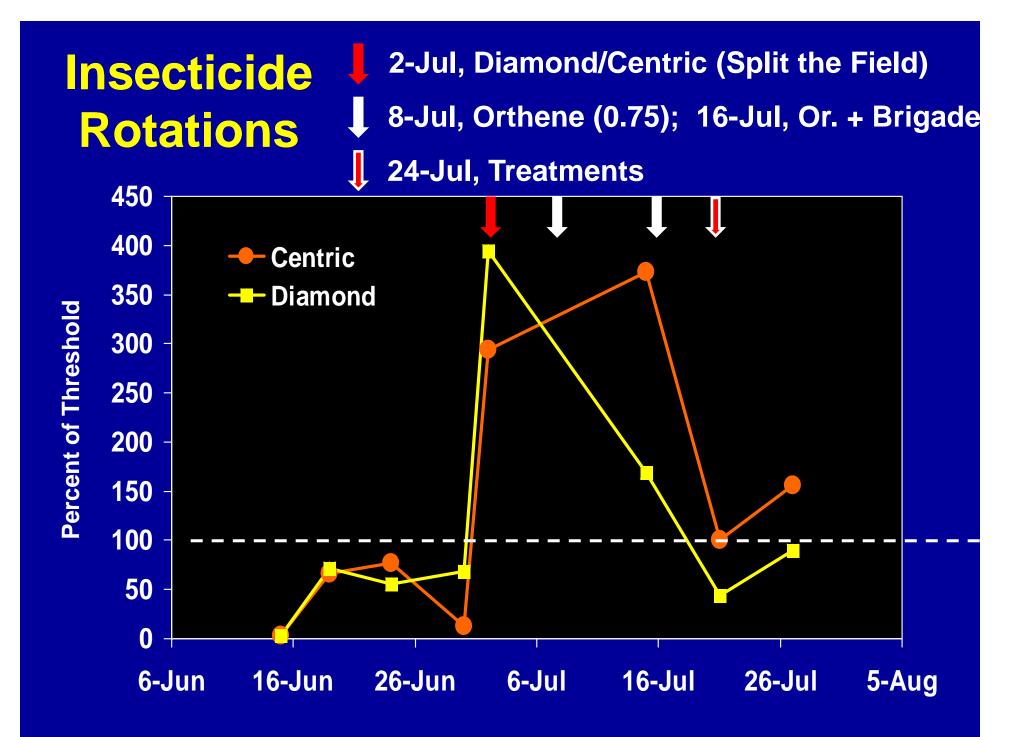




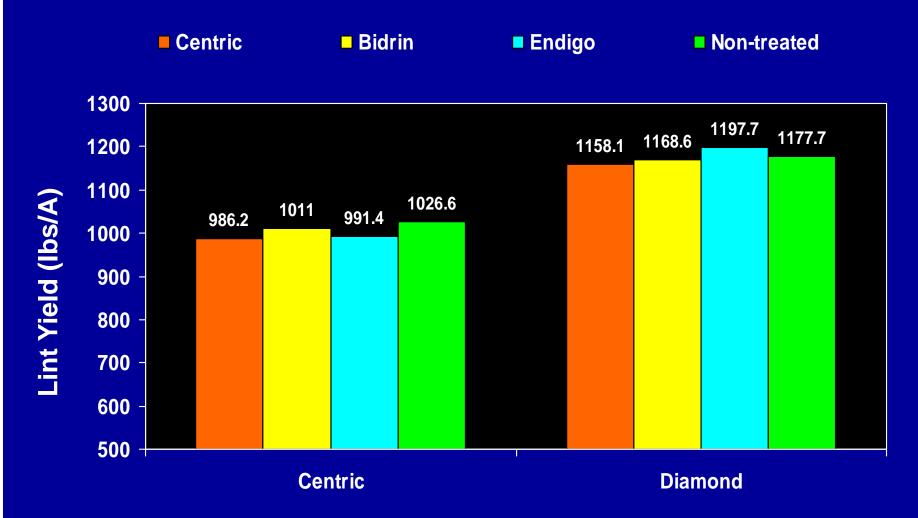
Diamond Plant Bug @ Marianna Total Plant Bugs After 3rd Application - 8/11/09



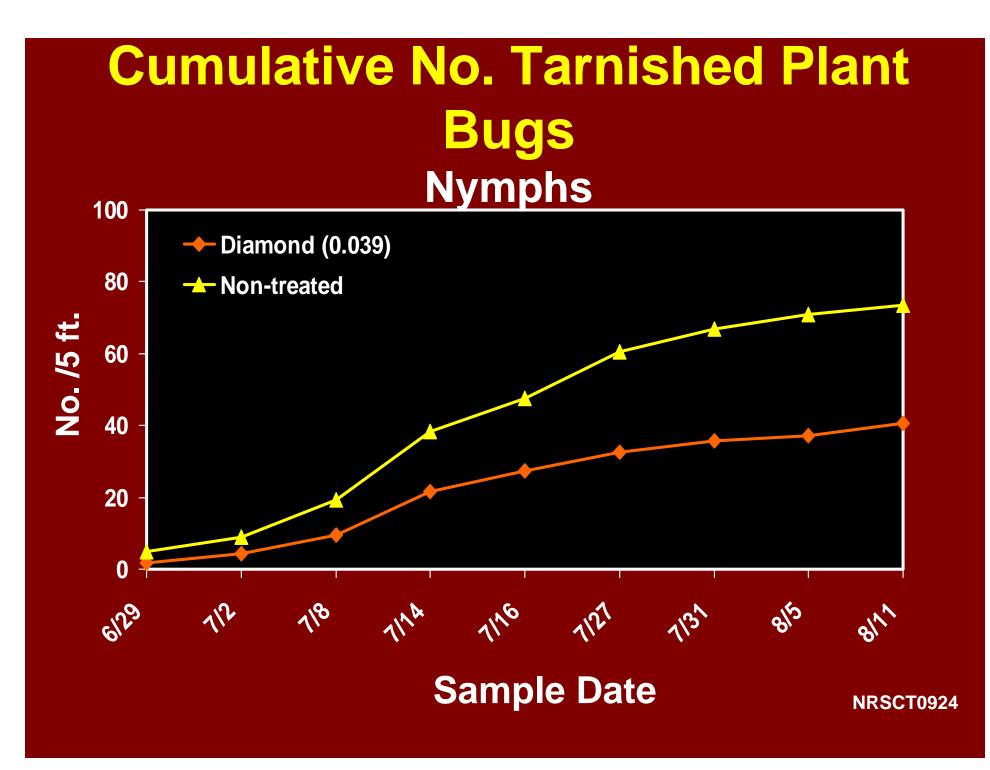




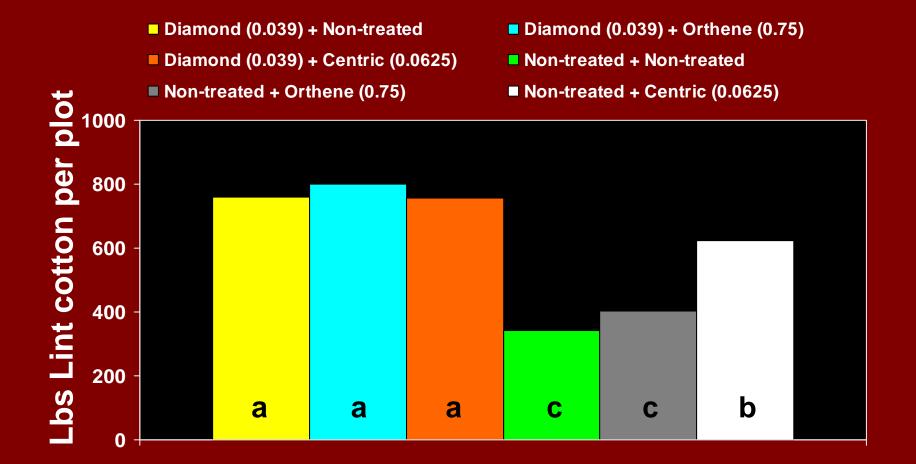
Early Diamond Applications



Diamond was applied alone at 9 oz./A during the third week of squaring to half of the field and Centric was applied to the other half of the field on the same date



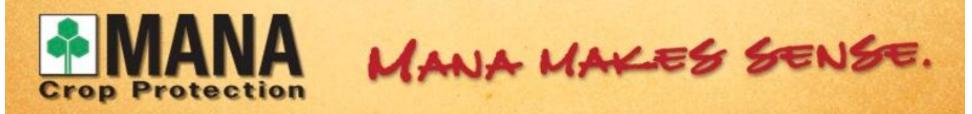
Plant Bug Control with Diamond Yield



NRSCT0924

Diamond Use on Cotton

- Best use rate is 6 to 9 oz/A
- If adults are present then a tankmix with an adulticide is needed
- Best tankmix partners are Bidrin and Acephate
- The incorporation of Diamond into a Lygus management program – starting with an early season application (~3rd week of squaring) with follow-up applications when immatures are present helps manage building Lygus populations
- The incorporation of Diamond into a Lygus management program as described above results in significant yield increases





Thank You for Your Interest and Thanks for Supporting MANA Products

