

INSECTICIDE



**MANA**  
Crop Protection

*MAKES SENSE.*

**Diamond<sup>®</sup>**

**NOVALURON**

**0.83EC INSECTICIDE**



**Plant bug and early  
season insect control  
plus better yields.**

**Cotton**

**IMPROVED TARNISHED PLANT BUG CONTROL:** The addition of Diamond<sup>®</sup> (novaluron) at 6 - 9 oz per acre in addition to an adulticide product has dramatically improved the control of tarnished plant bug immatures.

**INCREASED YIELDS:** New research has shown improved yields by incorporating Diamond into the Lygus control system earlier than normal.

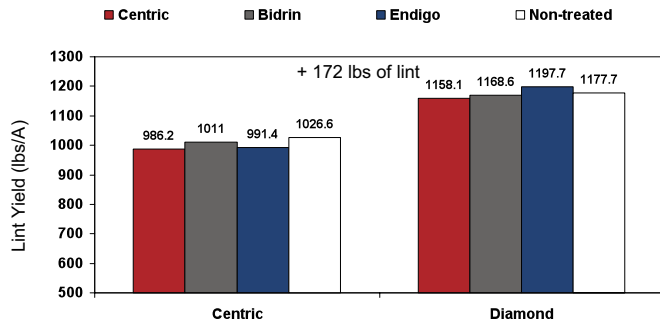
**EXCELLENT IPM MATERIAL:** Safe to beneficial insects, use pattern and unique mode of action reduce potential for environmental and ecological exposure compared to many current standard materials. Diamond is an excellent resistance management tool since it has a unique mode of action versus other plant bug insecticides.

**REDUCED RISK TO HUMANS:** Excellent mammalian toxicity profile and low use rates compared to current standard materials.



# Diamond® demonstrates increased yields\*.

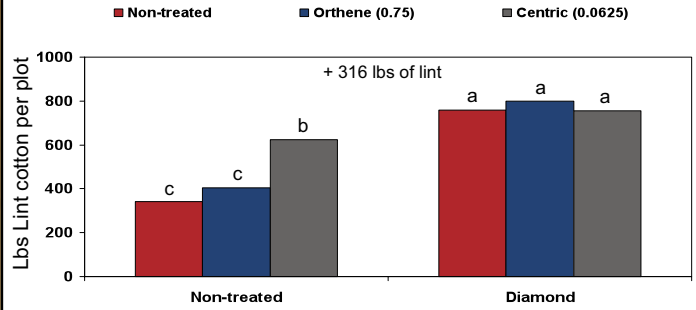
**Yield response of cotton following an early application of novaluron for tarnished plant bug in MS.**



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.

\*Published in June 25th edition of Mississippi Crop Situation 2010.

**Yield response of cotton following an early application of novaluron for tarnished plant bug in LA.**



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.

Target Pests	Application Rates Fl. Oz. Per Acre	Application Timing
Plant bugs (Tarnished, clouded, and Western tarnished)	9 to 12	Begin application when plant bugs, stink bugs or fleahoppers appear and oviposition is initiated. Repeat at 7 to 14 day intervals as needed to maintain control. Rimon will not control adults. For adult control, tankmix with an adulticide. <ul style="list-style-type: none"> <li>Do not apply more than four applications per season.</li> <li>Do not apply more than 42 oz. per acre per season.</li> <li>Do not apply within 30 days of harvest.</li> </ul>
Stink bugs (Green, Brown, Southern green)	6 to 9 (If used with a knockdown insecticide)	
Cotton Fleahopper	6 to 9	
Tobacco budworm Cotton bollworm	12 to 14  6 to 9 (If used with a knockdown insecticide)	Application should be made when the majority of eggs are in the blackhead stage and up to 1/8-inch larval length. Use higher rates and higher spray volumes when larvae are more than 1/4 inch long, the target pest population is 2X or more above state threshold level or foliage canopy is tall or dense and larvae are present in the lower part of the canopy. Reapplication on a 7 to 14 day interval will be required to protect new growth.  For the most effective control, fields should be scouted twice weekly. <ul style="list-style-type: none"> <li>Do not apply more than four applications against budworm and bollworm per season.</li> <li>Do not apply more than 42 oz. per acre per season.</li> <li>Do not apply within 30 days of harvest.</li> </ul>
Beet armyworm Fall armyworm Other foliage feeding caterpillars such as loopers, cotton leaf perforator and saltmarsh caterpillar	6 to 12	Application should be made at egg hatch or when first signs of feeding occur. Use higher rates and higher spray volumes when larvae are more than 1/4 inch long, the target pest population is 2X or more above state threshold level or foliage canopy is tall or dense and larvae are present in the lower part of the canopy. Under heavy infestations or continuous oviposition, reapplication on a 7 to 14 day interval will be required to protect new growth.  For the most effective control, fields should be scouted twice weekly. <ul style="list-style-type: none"> <li>Do not apply more than four applications against armyworm or other foliage feeding caterpillars per season.</li> <li>Do not apply more than 42 oz. per acre per season.</li> <li>Do not apply within 30 days of harvest.</li> </ul>
Whiteflies (Suppression)	6 to 12	Begin application when whitefly adults appear and once oviposition is initiated. A second application at 14 days may be necessary to achieve acceptable suppression. <ul style="list-style-type: none"> <li>Do not apply more than two applications against whiteflies per season.</li> <li>Do not apply within 30 days of harvest.</li> </ul>
Thrips (Suppression)	9 to 14	Begin application when thrips adults appear and once oviposition is initiated. Repeat at 14 days later if needed. Rimon will not control adult thrips. For adult control, tankmix with an adulticide. <ul style="list-style-type: none"> <li>Do not apply more than two applications against thrips per season.</li> <li>Do not apply within 30 days of harvest.</li> </ul>

## QUALITY PRODUCTS. COMPETITIVE PRICES.

MANA makes sense for growers, for channel partners, for agriculture. MANA offers the most comprehensive and diversified portfolio in the crop protection industry with over 60 formulations of insecticides, fungicides, herbicides, PGRs and harvest aids from more than 50 active ingredients. These proven products are efficiently manufactured to the highest standards and value priced to optimize the farm's profitability potential. As the North American arm of the world's seventh largest agrochemical company, MANA provides best-in-class formulations, regulatory capabilities, field research, and a science-based approach to defend and maintain vital active ingredients that other companies have abandoned. Our area business management team throughout the U.S. supports the distributors, retailers, crop consultants and agronomists who are part of the supply chain that farmers and farm managers rely on for localized expertise.



[manainc.com](http://manainc.com)

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