



# ***FMC North America Crop***



**LACA  
Technical Update  
February 10, 2011**

***Don Johnson  
Sr. Technical Support***

# ***FMC Soybean Portfolio***



# AUTHORITY<sup>®</sup> XL

HERBICIDE

- Soil applied herbicide for soybeans.
- Unique combination of 2 trusted and valuable weed control tools.
  - Sulfentrazone (Authority, Spartan,)
  - Chlorimuron ethyl (Classic)
- Sulfentrazone/chlorimuron premix
  - 8 to 1 ratio; 70% DF formulation
- Crop Rotation
  - Cotton is 12 Mos. at Reduced rates

**Authority XL**  
**Reduced Rate Program – RR & LL**  
**Soybeans**  
*Fall, Early Pre-plant, PPI, Preemerge*



Authority XL 4 oz/A + Dual Magnum 16 oz  
 25 Days after treatment

Broadcast Rate (Oz/Acre)	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
0.5-2%	3.0-4.0	3.2-4.0	4.0-5.0
2-4%	3.2-4.0	3.2-4.8	4.0-5.0

Adverse crop response can occur on soils of 7.5 pH or higher. Do not use on soils with pH greater than 7.6.



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# **Monsanto's Roundup Ready PLUS™**

## ***Residual Rewards with Authority® Brands***

<b><i>Authority® Brands</i></b>	<b><i>Roundup® Brand</i></b>	<b><i>Rebate</i></b>
Authority XL, Authority First, Authority Assist, Authority MTZ	Roundup PowerMAX®	\$1.00/A
Authority XL, Authority First, Authority Assist, Authority MTZ	Roundup WeatherMAX®	\$1.50/A



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**New For 2011**

- **Preplant burndown**
- **Aerial label**



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**Brigadier® is The Dual-Action Insecticide for Cotton, Soybeans and Vegetable Crops That Outranks The Competition With Its Broad-Spectrum, Quick Knockdown and Long Residual Control of Foliar Insect Pests**



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# Soybean Insect Control



## Insects Controlled

- **2 lb EC Formulation**
- **Active Ingredient :**
  - ✓ bifenthrin & imidacloprid
- **Signal Word – WARNING**
- **REI 12 hours**
- **Application rates:**
  - ✓ **Soybean: 3.8 - 6.1 oz/A (0.06 – 0.095 lb ai/A)**
- **Restrictions:**
  - ✓ Do not apply more than 0.4 lb ai/A per season, or 41 oz/A.
  - ✓ Do not make applications less than 30 days apart
  - ✓ Use a minimum of 2 gallons of finished spray per acre by air or 10 gallons of finished spray per acre by ground.

### • **3.8 – 6.1 oz**

- ✓ Aphid spp., grasshoppers, leafhopper spp., Lugus spp., thrips

### • **5.1 – 6.1 oz**

- ✓ Bean leaf beetle, flea beetle spp., corn earworm, blister beetle, corn rootworm (adults), dectes stem borer, Japanese beetle (adults), leafhoppers, three-cornered alfalfa hopper, loopers, Mexican bean beetle, stink bug spp., yellowstriped armyworm, salt-marsh caterpillar



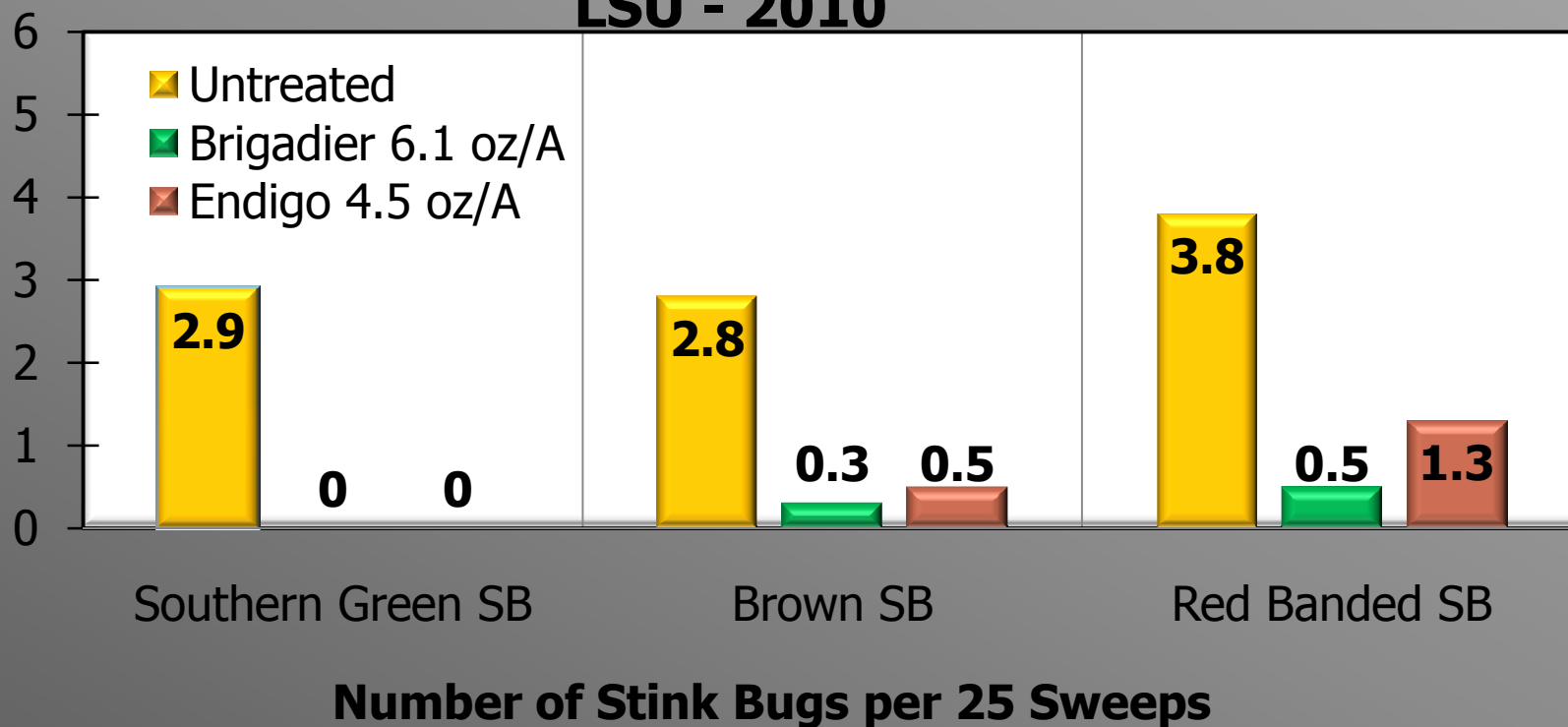
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# Soybean Insect Control



## Soybean Stink Bug Control – 2 DAT LSU - 2010



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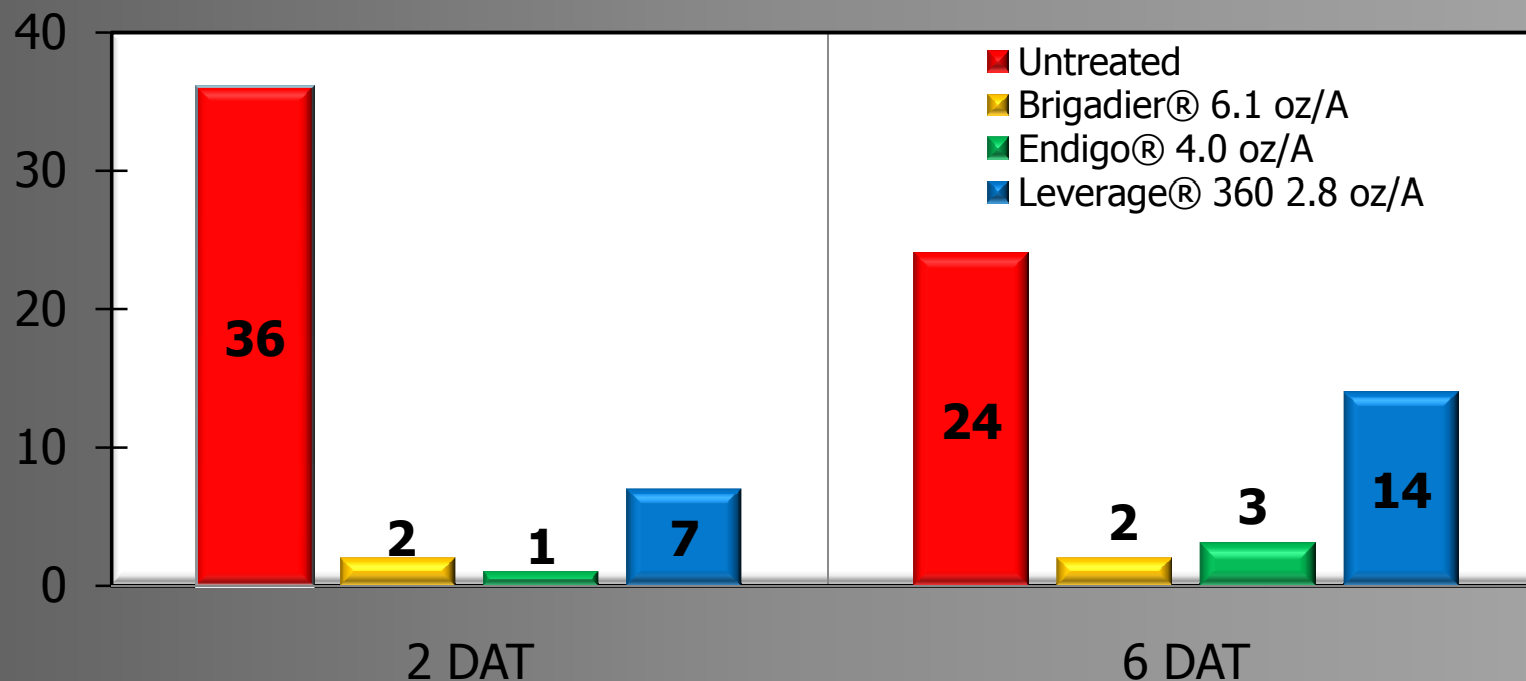


# Soybean Insect Control



## Bean Leaf Beetle Control in Soybean 2010 MSU

Number of bean leaf beetle per 25 sweeps



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***Athena<sub>TM</sub> is the Dual-Action Insecticide Labeled for use on Cotton that Outranks the Competition with Its Broad-Spectrum, Quick Knockdown and Long Residual Control of Foliar Insect and Mite Pests***



**FMC**



*Cotton*



## Features and Benefits

- **Two Different Modes of Action**
  - Resistance management product
  - Broad spectrum
- **Dual Routes of Control**
  - Pyrethroid and antiparasitic activity, allows flexible applications
- **Excellent Residual Activity**
  - Prolonged crop protection against sucking and chewing insects
- **Translaminar Mobility**
  - Complete and longer protection of crop leaves
- **EW** (Emulsion, oil in water) **Formulation**
  - Unique Formulation – 0.875 lbs ai/gal
  - Low VOC's
  - Enhanced control versus a tank mix



**FMC**



*Cotton*



## **APPLICATION RECOMMENDATIONS**

- **Rate Range:** 7.0-17.0 oz /A
- **Average Use Rate:** 8.0 oz/A
- **Cotton Pest Controlled:** Armyworms (Fall and Yellowstriped), boll weevil, bollworm, cabbage looper, cotton aphid, cotton flea hopper, cotton leaf perforator, cutworms, salt marsh caterpillar, southern garden leaf hopper, stink bugs, tobacco budworm, **Twospotted, Carmine and Pacific spider mite, Lygus species**, pink bollworm, tobacco and soybean thrips, whiteflies
- **Spray Volume:** Use a minimum of 5 gallon of finished spray per acre by air or 10 gallons of finished spray per acre by ground.
- **Maximum Seasonal Rate:** Maximum of three applications per season at no less than 21 day intervals, not to exceed 17 oz/A per application, 42 oz/A per season.
- **Preharvest Interval:** 20 days

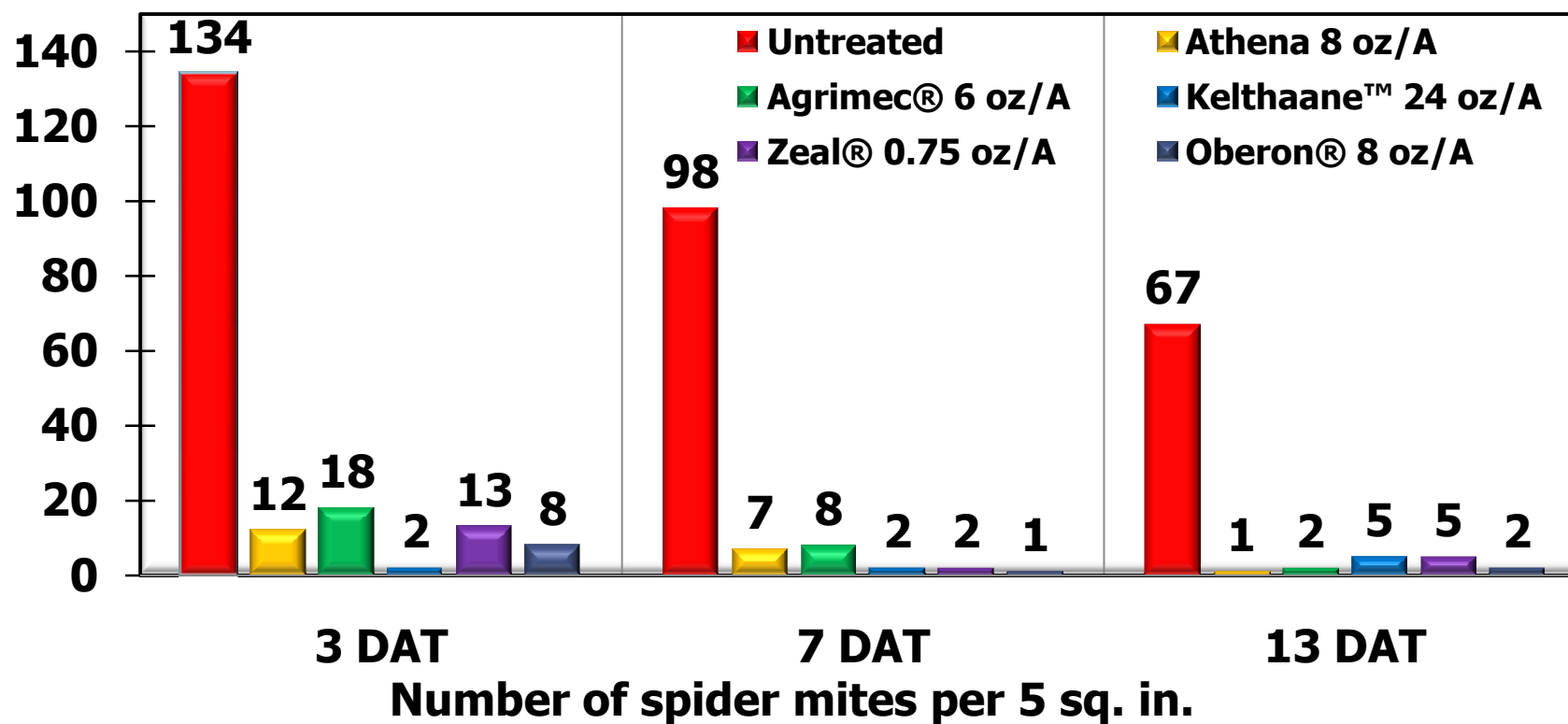


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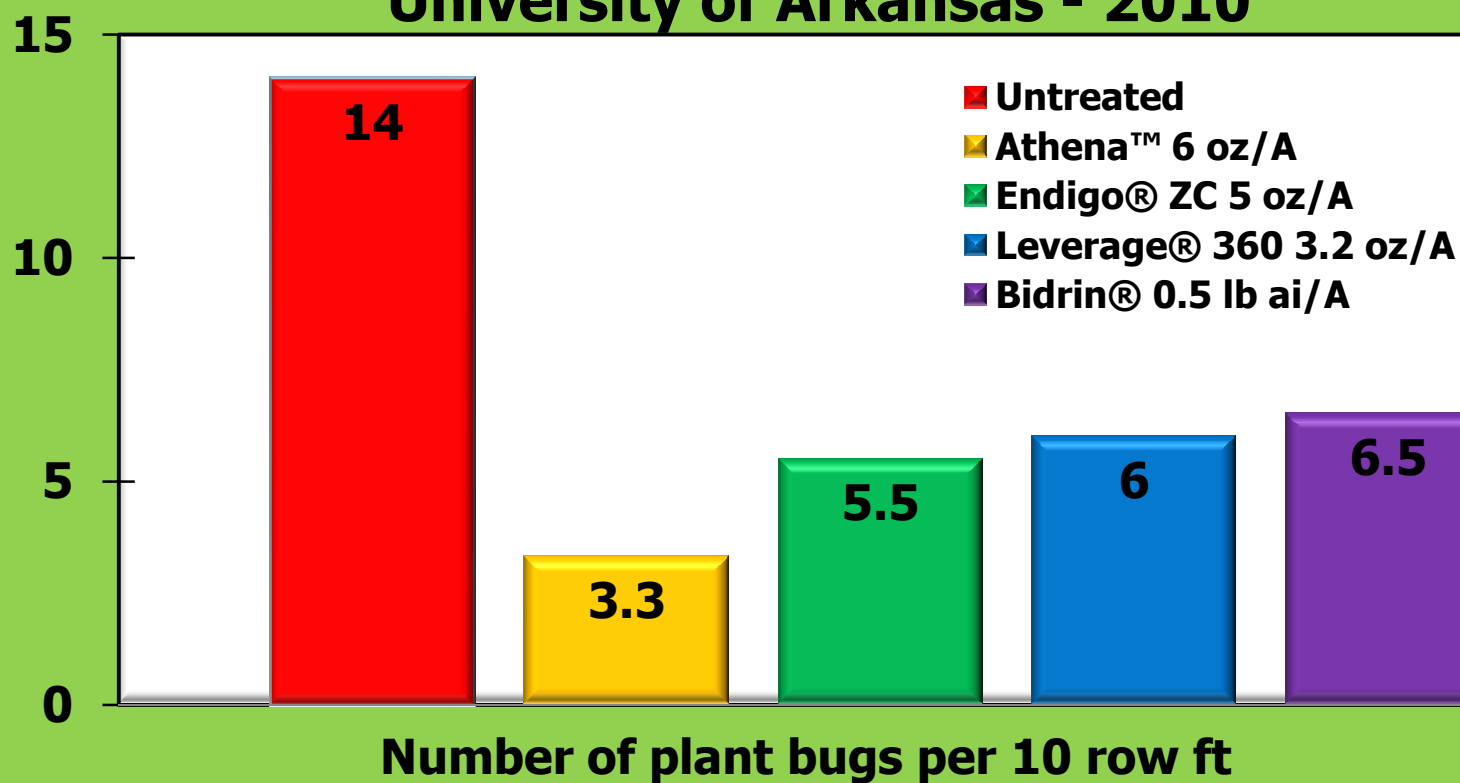
## Spider Mite Control in Cotton University of Arkansas - 2010



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## Plant Bug Control – 4 DAT University of Arkansas - 2010





# ***New Insecticide From FMC***

- ***Stallion Insecticide has received approval from the US EPA.***
- ***EPA Reg. No. 279-9545.***
- ***Stallion is pending state registration in AR, LA, MO, NM and TX.***



**FMC**





***Dual-action broad-spectrum & residual control, plus added knock-down of Insect pest.***

- **Registered Crops**

- Alfalfa
- Brussels Sprouts
- Citrus
- **Corn, Field and Sweet**
- **Cotton**
- **Sorghum**
- **Soybean**
- Sunflowers
- **Tree Nuts**
  - Almond
  - **Pecans**
  - Filbert
  - Walnut
- **Wheat**

- Dual –action insecticide
  - chlorpyrifos : zeta-cypermethrin
- 3 lb EC Formulation, 2.5 gallon jug
- Signal Word – WARNING
- REI 24 hours all crops except citrus is 5 days.
- Application rate range:
  - 0.059-0.275 lb ai/A (2.5 – 11.75 oz)



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***Thank You For  
Your Support***

