

Bringing plant potential to life



LACA Annual Meeting 2009

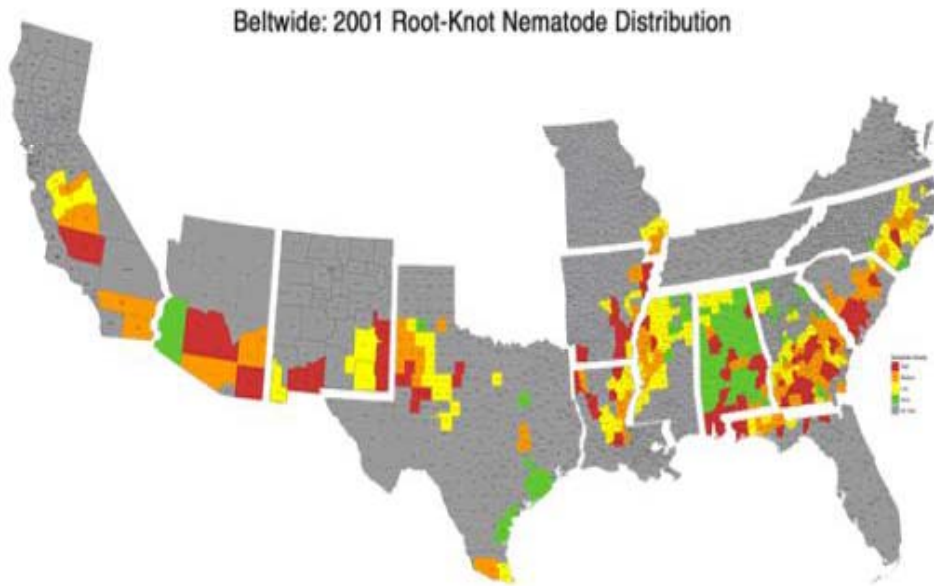
Emerging Technologies Session

**Corey Davis, James Harp, David Lanclos, Scott Martin,
Mark Matthews, Jason Mize, Robert Prince and Josh
Zaunbrecher**

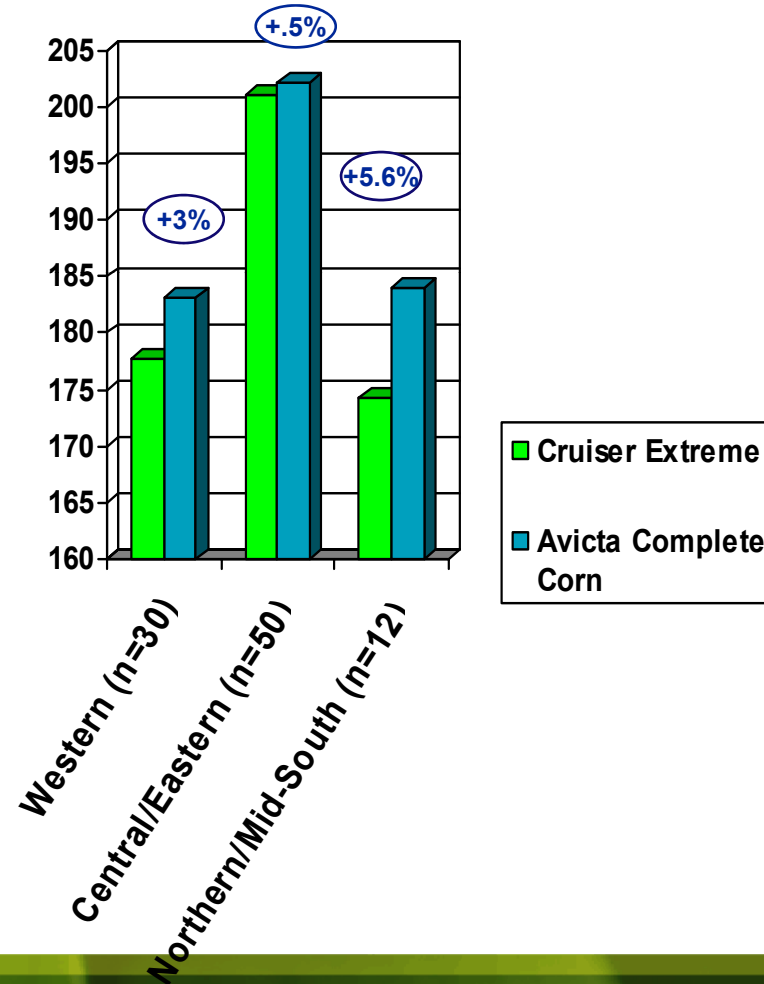
Corn Nematicide Market



- Market is underdeveloped
- Agronomic trends favor nematodes
- Nematode yield loss is greater than realized
- AVICTA Complete Corn performs

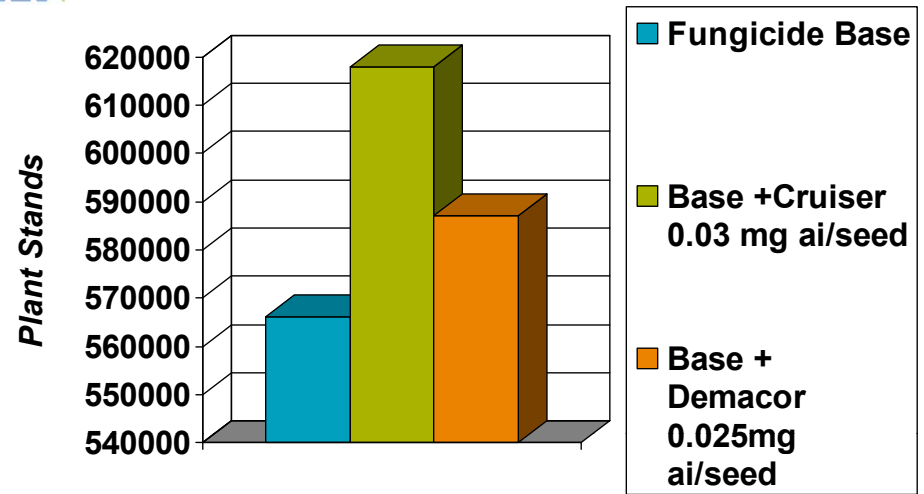


2007 Trials

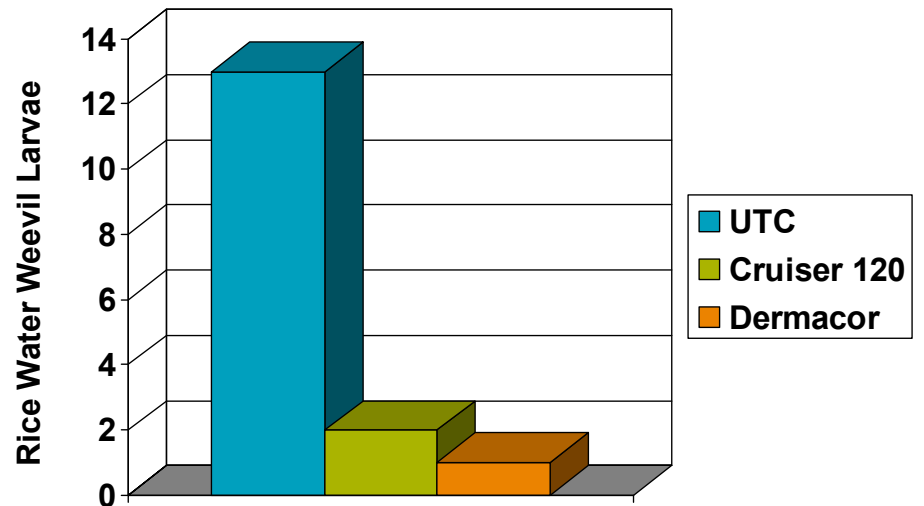


- Documented protection on RWW and Grape Colaspis.

- Only seed treatment available that protects against both insect pests.



* Plant Stand losses due to Grape Colaspis damage





- **Pre-mix of Touchdown, Callisto, and Dual MAGNUM**
- **Provides 4 weeks residual control**
- **May apply up to 30 inch corn without atrazine**
- **Recommend adding 1# Atrazine/A – apply up to 12" corn**
- **Must be applied with a non-ionic surfactant (.25%) or AMS**

Halex	Dual MAG	Touchdown Hi-tech	Callisto
Pts	Pts	Oz	Oz
3.6	1	24	3
4	1.1	27	3.3

Syngenta
 **Flexstar**® **GT**

Flexstar GT is a premix formulation of fomesafen (Flexstar) and glyphosate (Touchdown) for post-emergence use to control weeds in glyphosate tolerant (GT) soybeans. Flexstar GT is specifically for use on soybean acres with weeds that have developed or are likely to develop resistance to glyphosate and/or ALS-inhibitors

Flexstar GT	=	Touchdown Total	+	Flexstar
48 fl oz		31 fl oz		17 fl oz



Touchdown Total at 31 fl oz/A + Flexstar at 17 fl oz/A



Flexstar GT at 48 fl oz/A + MSO at 1% V/V



Touchdown Total at 31 fl oz/A + Cobra at 12.5 fl oz/A



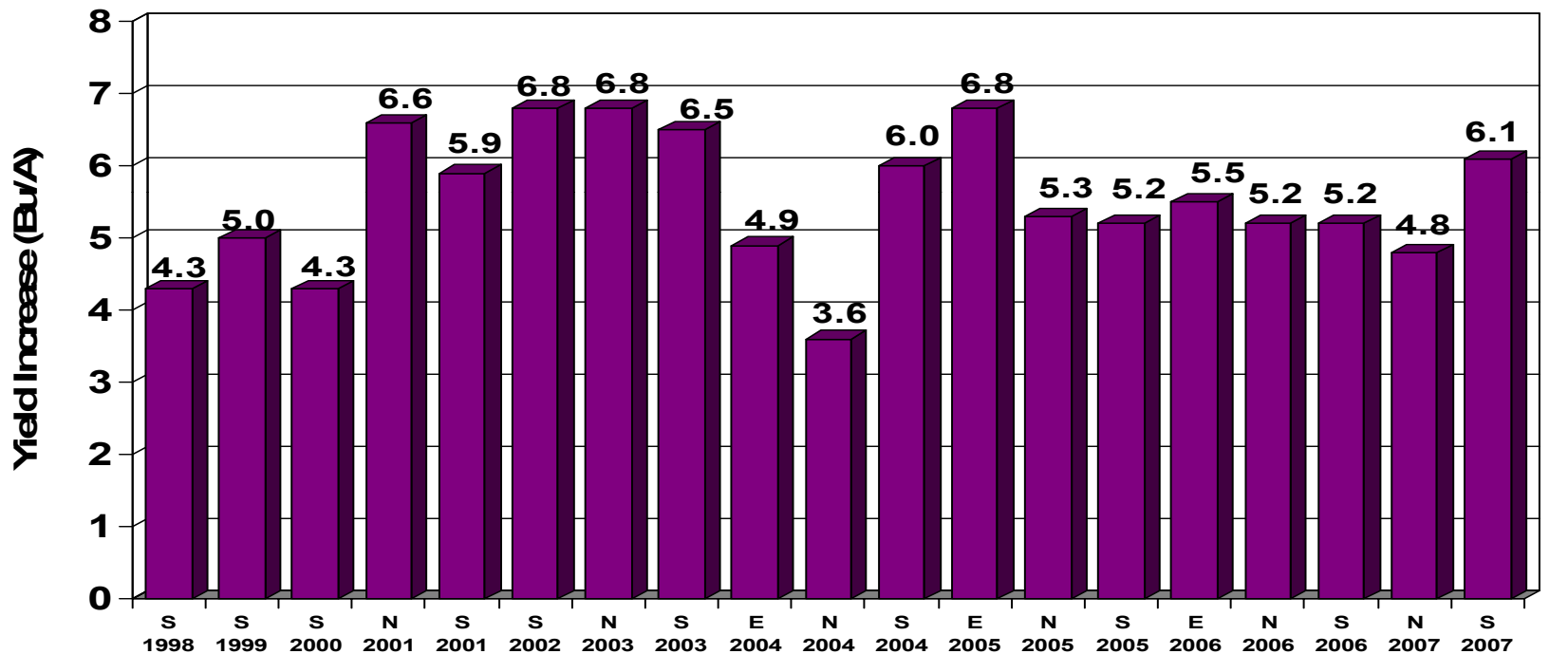
Touchdown Total at 31 fl oz/A + Ultra Blazer at 16 fl oz/A

7 DAT



Quadris Plant Performance: Yield Results in Soybeans

The graph below shows that in trials conducted by Syngenta on growers' fields, Quadris boosts yields 5 to 6 bushels per acre.



n = 1,217

Soybeans sprayed with either Quadris (6oz) or Quilt (14 oz); R3 general timing; sometimes tank mixed with a Syngenta insecticide. N,S,E = North, South, Eastern states.

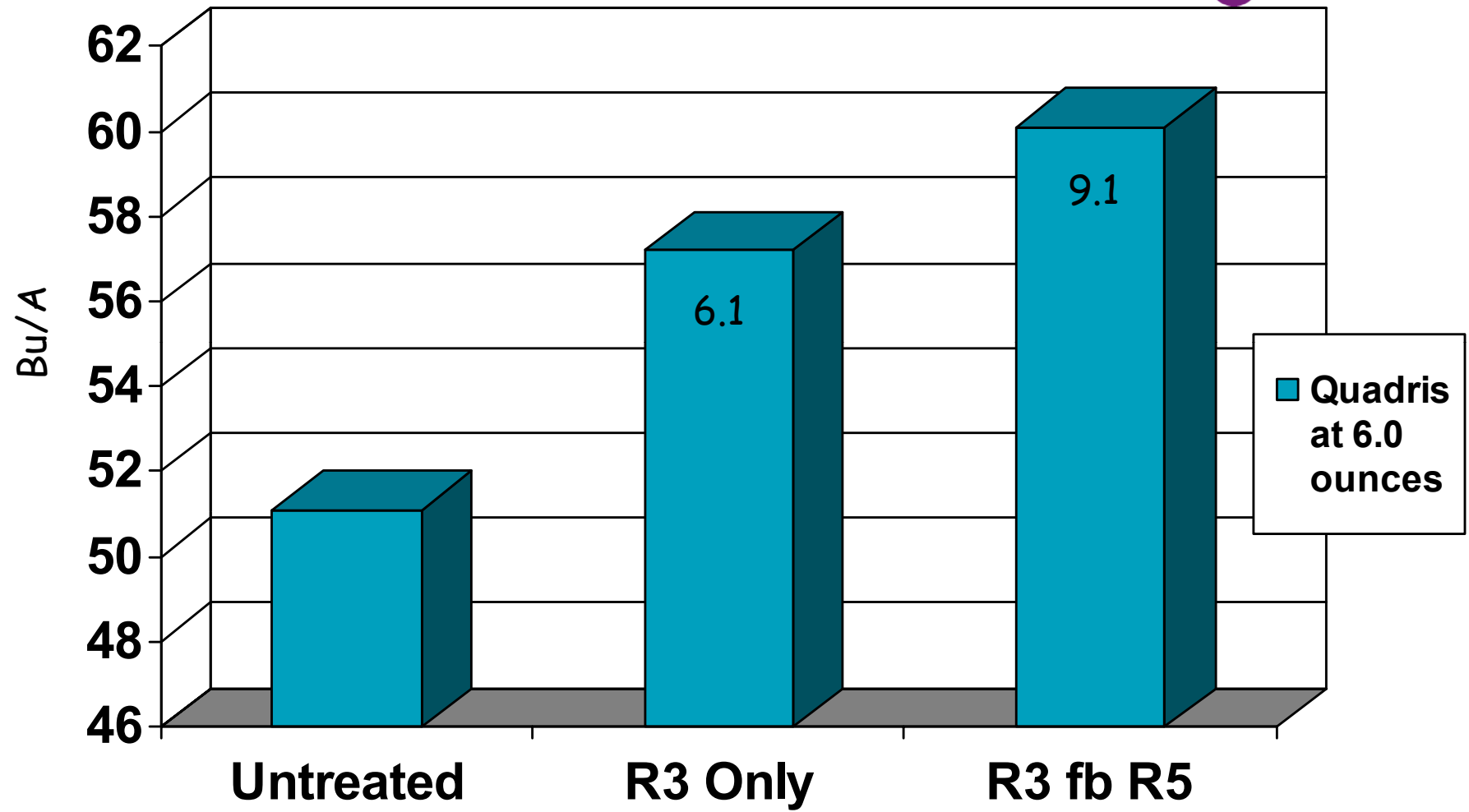
Important: Always read and follow label instructions before buying or using this product. Syngenta supports a FIFRA 2(ee) recommendation for the use of Quadris on soybeans at reduced rates for foliar disease control. Not yet accepted by Texas or New York.



What about splitting applications?

- Data is somewhat limited on rate structure in a two shot system – however the case for splitting applications is building.....
- Quadris standard application is 6.0 ounces in the deep south and lessens as you go north....
- Added benefit of a two shot system – these timings coincide with ASR management and **WILL BENEFIT QUALITY**
- Options:
 - 4.0 oz at R3 fb 4.0 oz at R5.5 through R6
 - 5.0 oz at R3 fb 5.0 oz at R5.5 through R6*** (Optimal)

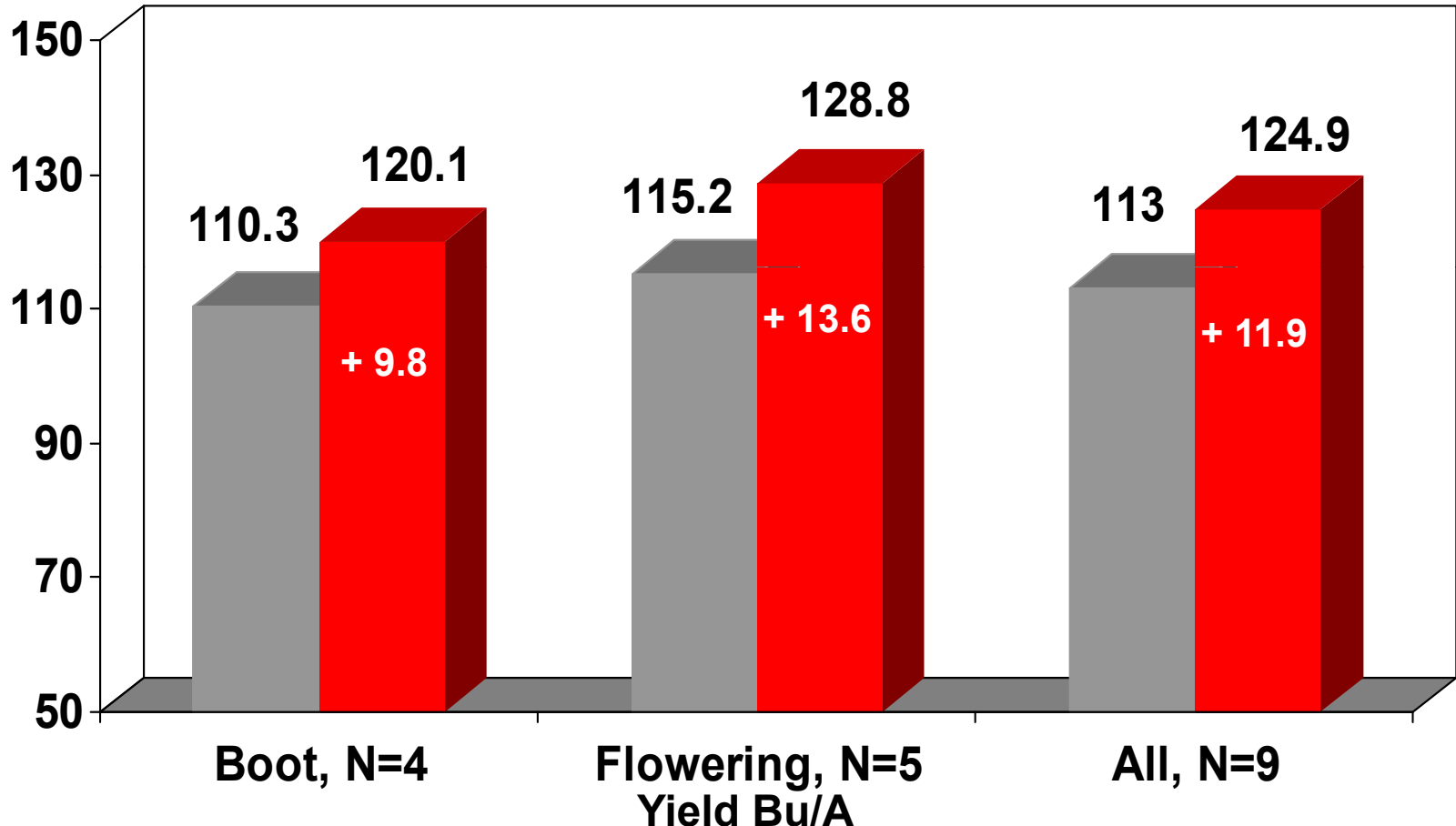
2008 Quadris Summary Arkansas – Keith Driggs, TSR, Syngenta



Data from 14 direct comparison in TN and AR

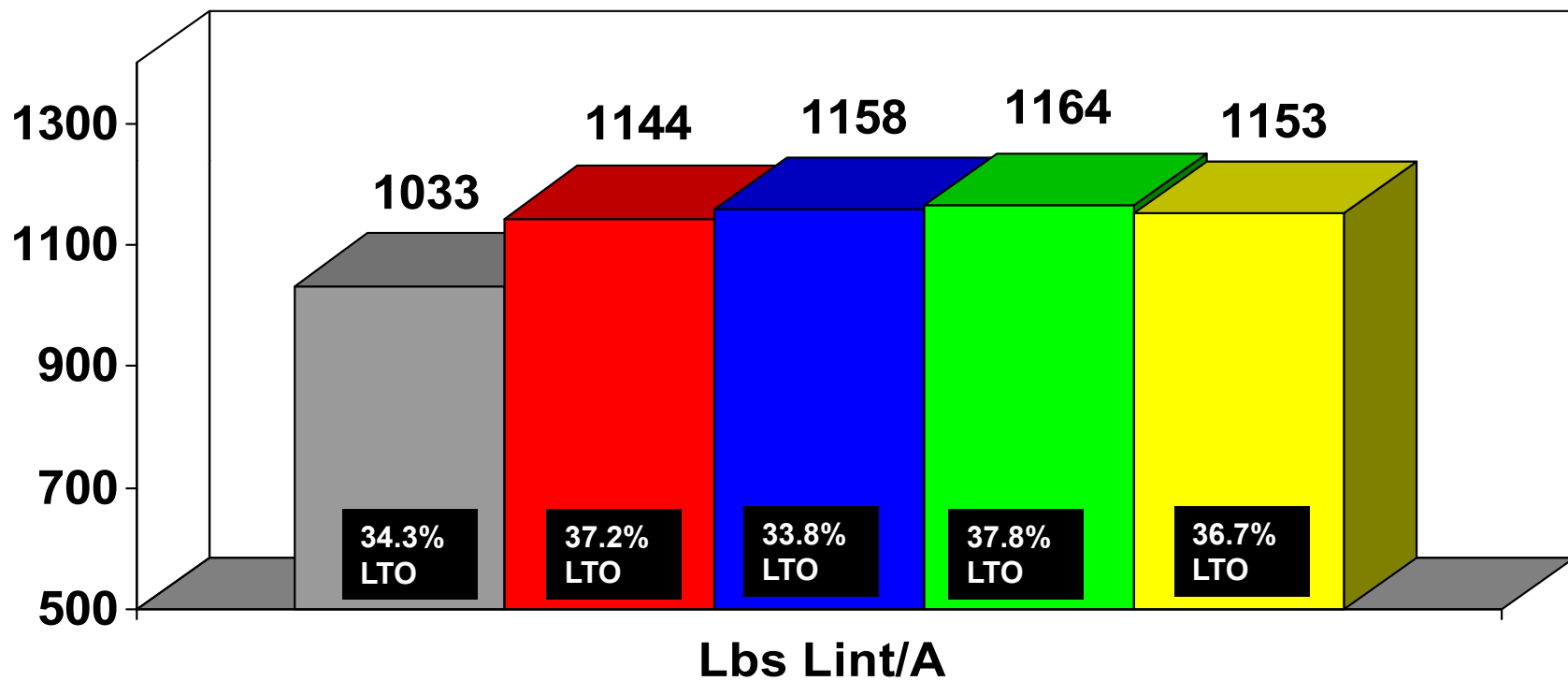
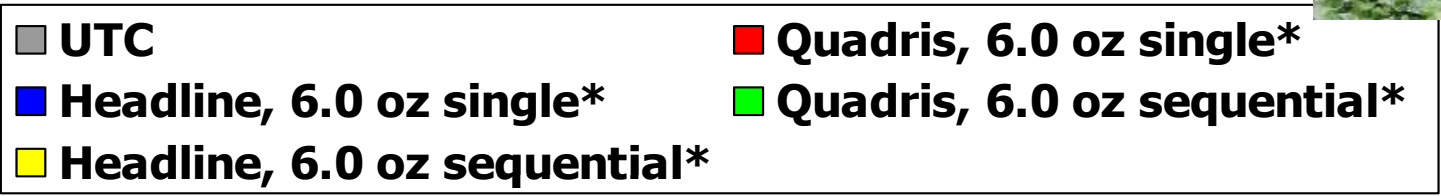


■ **Untreated** ■ **Quadris 6.0 oz/A**



9 direct comparisons at 7 sites in Arkansas. Crop consultants and UA Extension. Large block, commercially applied. 6 sites irrigated, 1 site dryland

Cotton Foliar Fungicides - 2008
 Poinsett County, AR – Judd Hill Plantation
 Clay Despain – Consultant, Bill Baker - Grower



* Single applications at first flower + 10 days. Sequential applications at FF + 10 days and peak bloom. Ground application. Irrigated (pivot) ST 4554 B2RF cotton. First flower on 7/8/2008. LTO = lint turn out.

Syngenta **x Reflex**®



- **Early Pre-plant Applications of Reflex in Cotton – All soil types**

- **1.0 pt/A, 14 to 21 days prior to planting cotton**
- **Plant cotton only after 0.5" of rainfall or irrigation**
- **Broad spectrum, long residual control of target weeds – Palmer amaranth, pigweeds, marestail, other broadleaf weeds and grasses (see section 3 label)**
- **Excellent alternative mode of action to combat glyphosate and ALS resistant weeds**
- **Tank mix with other residual herbicides as needed – Caparol, Cotoran, Direx, Staple, dicamba, 2,4-D, etc. Observe pre-plant restrictions for tank mix herbicides**
- **Tank mix with Gramoxone Inteon for added burn down**

- Pre-mix of Karate and Centric
- Labeled in cotton and soybeans

Endigo		Karate Z		Centric
fl oz/Acre		fl oz/Acre		Oz/Acre
4.0	=	1.70	+	1.48
5.0	=	2.12	+	1.84

Resistance Fighter Solutions Module

Resistancefighter.com

- Provides personalized plan to beat resistant weeds in corn and soybeans
- Enter where you live, what you grow and your worst weeds and module does the rest
- Growers and retailers receive a detailed resistance management plan, complete with Syngenta product recommendations

RESISTANCE SOLUTIONS

RESISTANT WEEDS | TOLERANCE & WEED SHIFTS | COST OF RESISTANCE | CASE STUDIES | DO YOU 2-1-2? | **YOUR SOLUTION**

YOUR RESISTANCE MANAGEMENT SOLUTION

5. DO YOU KNOW YOUR PROBLEM WEEDS?

Please choose the most troublesome weed from the list:

Waterhemp

Do you have more problem weeds? Please check all that apply: :

<input type="checkbox"/> Waterhemp	<input type="checkbox"/> Giant ragweed
<input type="checkbox"/> Pigweed	<input type="checkbox"/> Common ragweed
<input type="checkbox"/> Lambsquarters	<input type="checkbox"/> Barnyardgrass
<input type="checkbox"/> Velvetleaf	<input type="checkbox"/> Woolly Cupgrass
<input type="checkbox"/> Foxtail	<input type="checkbox"/> Horseweed (mare's tail)
<input type="checkbox"/> Cocklebur	<input type="checkbox"/> Morningglory (soybeans only)
<input type="checkbox"/> Glyphosate-tolerant volunteer corn	

BACK NEXT

START | STEP 1 | STEP 2 | STEP 3 | STEP 4 | **STEP 5** | STEP 6 | YOUR SOLUTION

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RESISTANCE FIGHTER .COM

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