

## CORN FUNGICIDE USE IN LOUISIANA



Boyd Padgett
LATMC
FEBRUARY 11, 2010

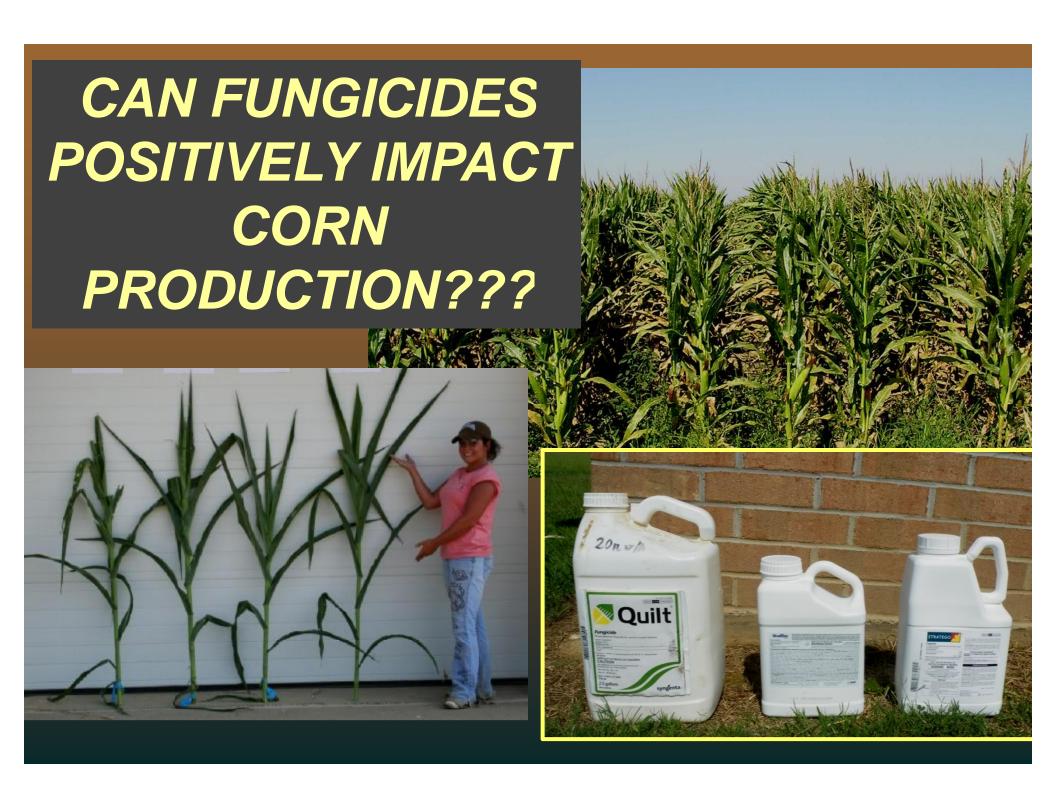


### COLLABORATORS

- Cliff Coker (Univ of AR)
- Tom Allen (Miss State Univ)







### CORN DISEASES

**ü** Common Rust

**U** Southern Rust

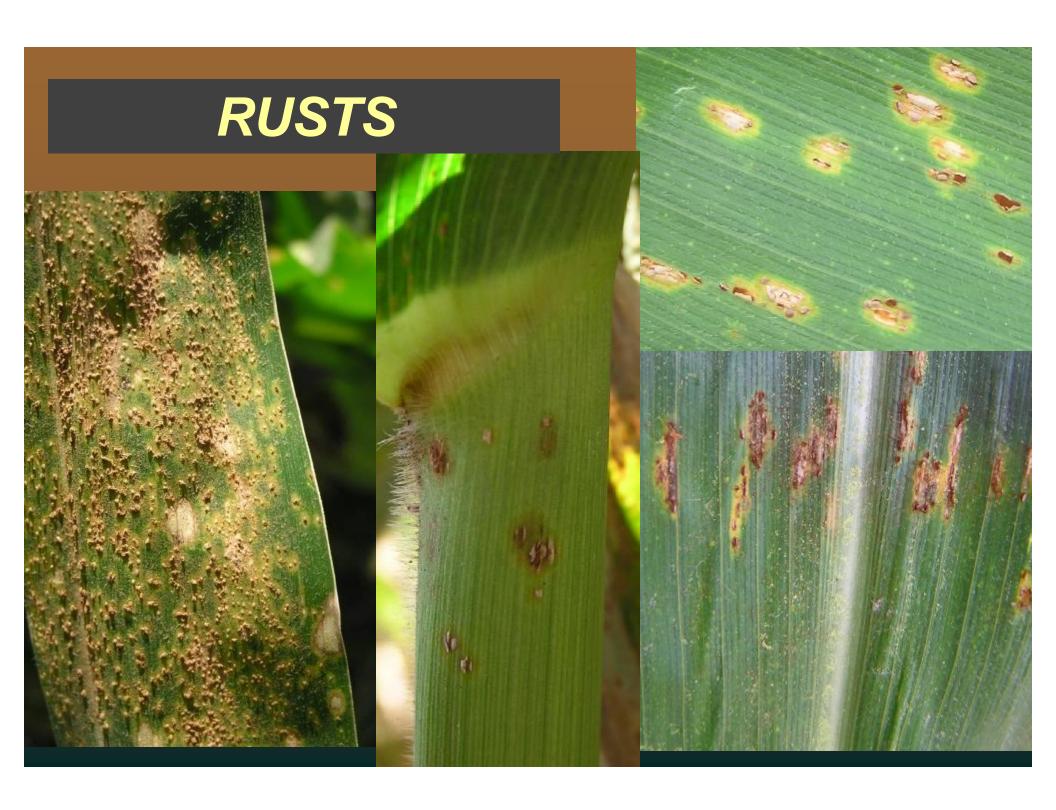
U Northern Corn Leaf Blight

**ü** Gray Leaf Spot

ü Ear Rots

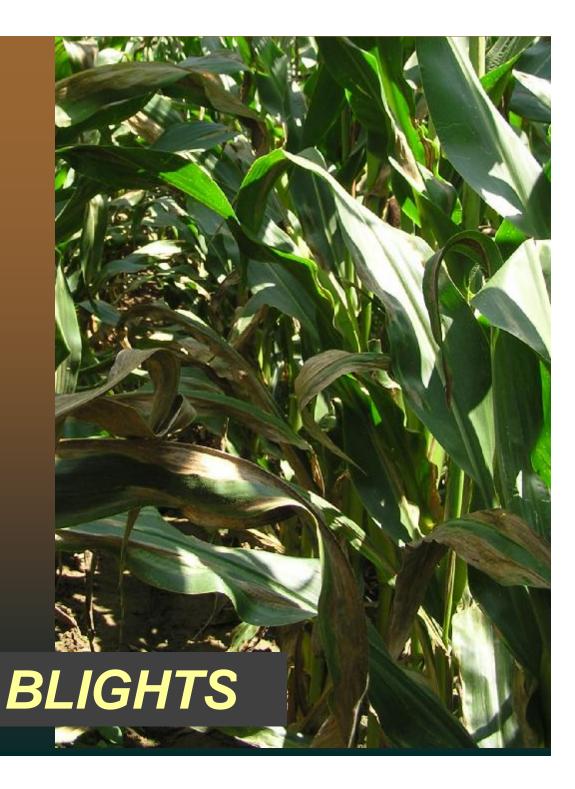








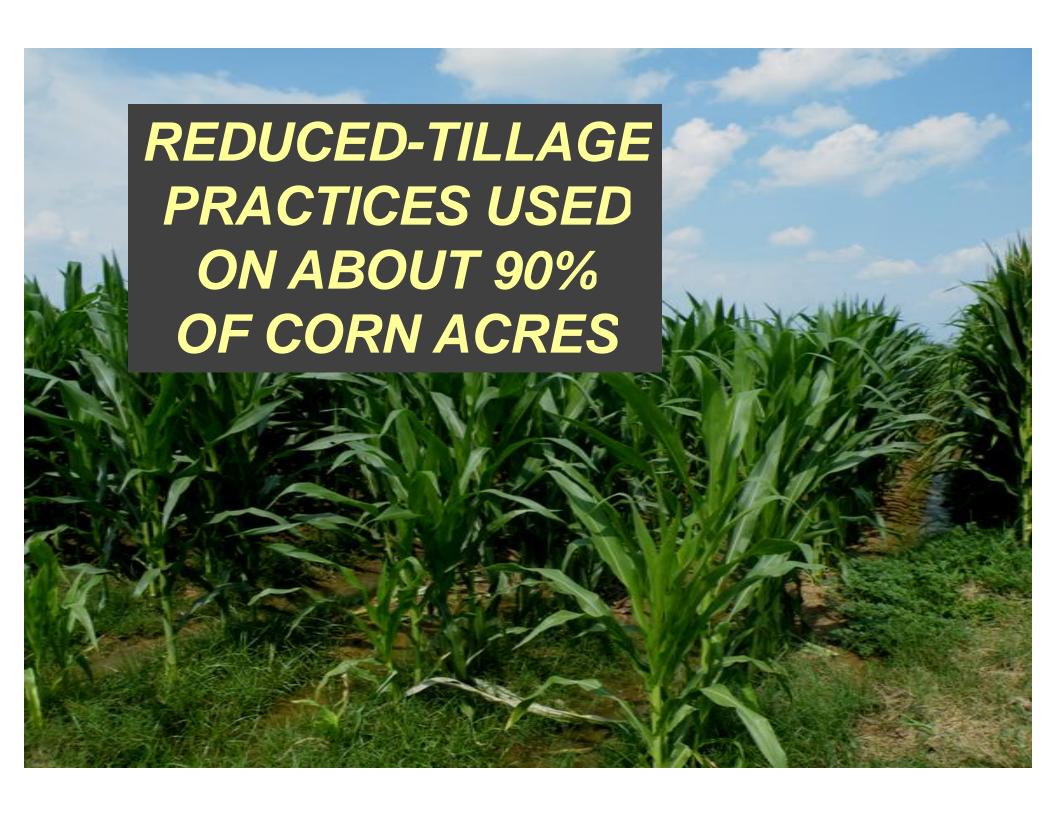


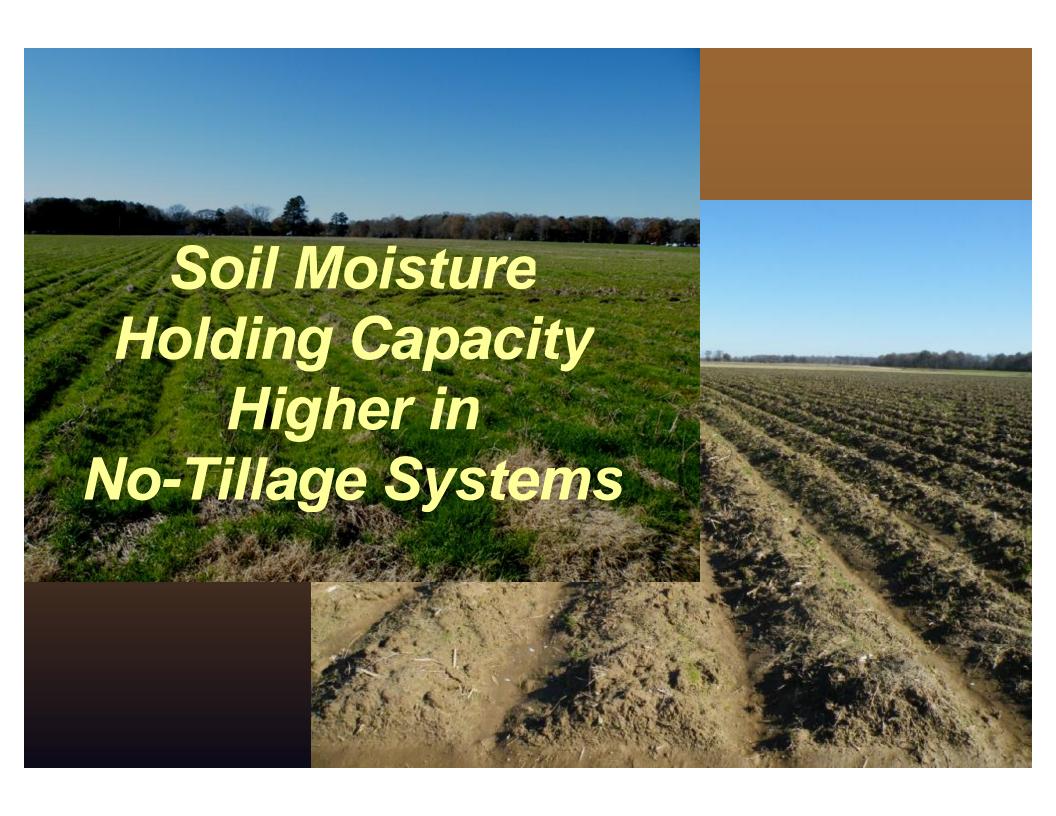


















## CORN RESEARCH SUMMARIES

üRecommended VarietiesüQuilt, Headline, StrategoüApplied at or near VT (Tasseling)



**ü**Ground and Aerial Applied

### CORN RESEARCH SUMMARIES

- **Monitored for Diseases**
- **Quantified Stalk Density**
- U Yield and Test Weights







### Disease Assessments

- Ü Disease Severity Low in Most Tests
- **ü** Common & Southern Rust
- **U** Northern Corn Leaf Blight

### 2007-08 Arkansas Corn Fungicide Summaries

Fungicide	Yield	Diff <sup>1</sup>
Headline (6.0)	191.13	-2.2
Quilt (14.0)	185.84	-7.5
Non-treated	193.43	

<sup>&</sup>lt;sup>1</sup> Average difference in bu/A from non-treated

 $<sup>^{2}</sup>$  n=5

### 2007-08 Mississippi Corn Fungicide Summaries

Fungicide	Yield	Diff <sup>1</sup>
Headline (6.0)	170.5	-2.5
Quilt (14.0)	172.2	-0.8
Non-treated	173.0	

<sup>&</sup>lt;sup>1</sup> Average difference in bu/A from non-treated

<sup>&</sup>lt;sup>2</sup> n=18, 6 small plot + 12 large plot

### 2007-08 Louisiana Corn Fungicide Summaries

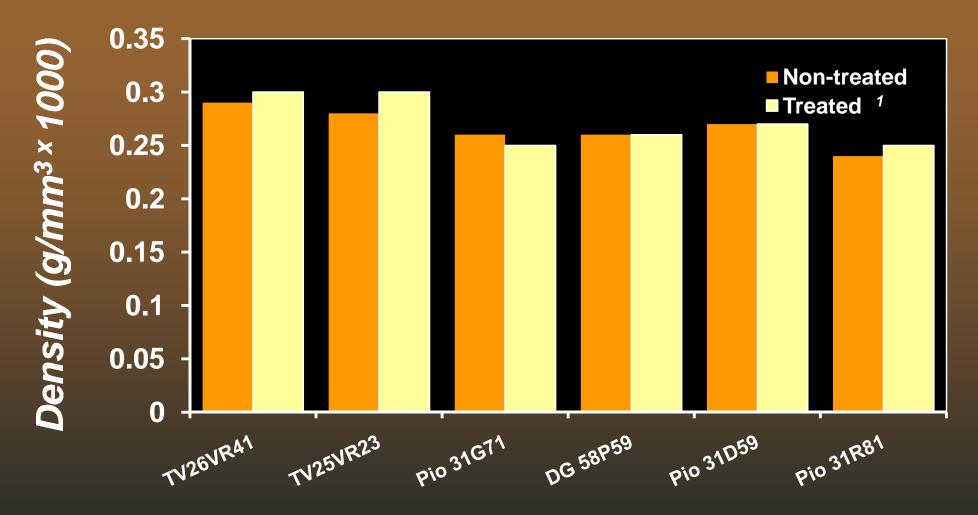
Fungicide	Yield	Diff <sup>1</sup>	Range (bu/A)
Headline (6.0)	126.6	4.3	(+33.9 to -19.7)
Quilt (14.0)	135.6	- 4.6	(+15.7 to -14.3)

Padgett, LSU AgCenter

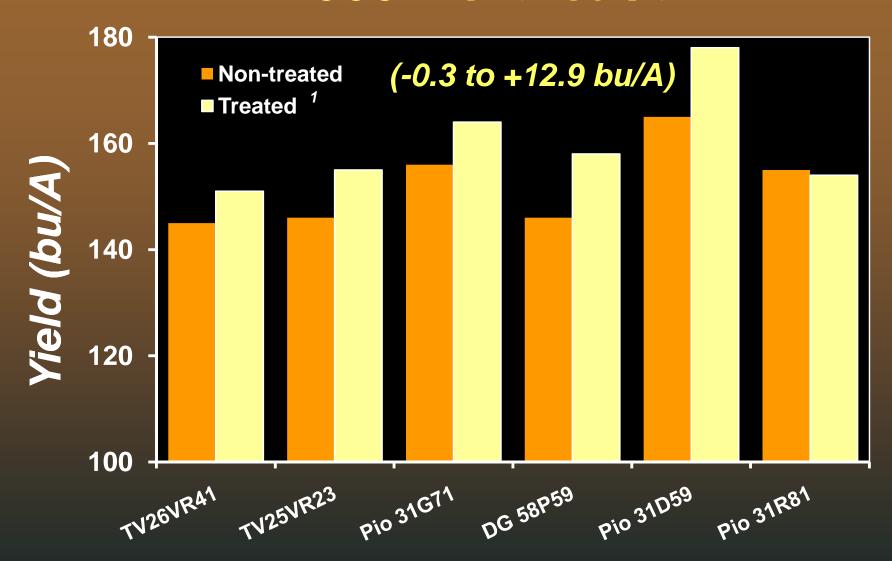
<sup>&</sup>lt;sup>1</sup> Average difference in bu/A from non-treated

 $<sup>^{2}</sup>$  n=3

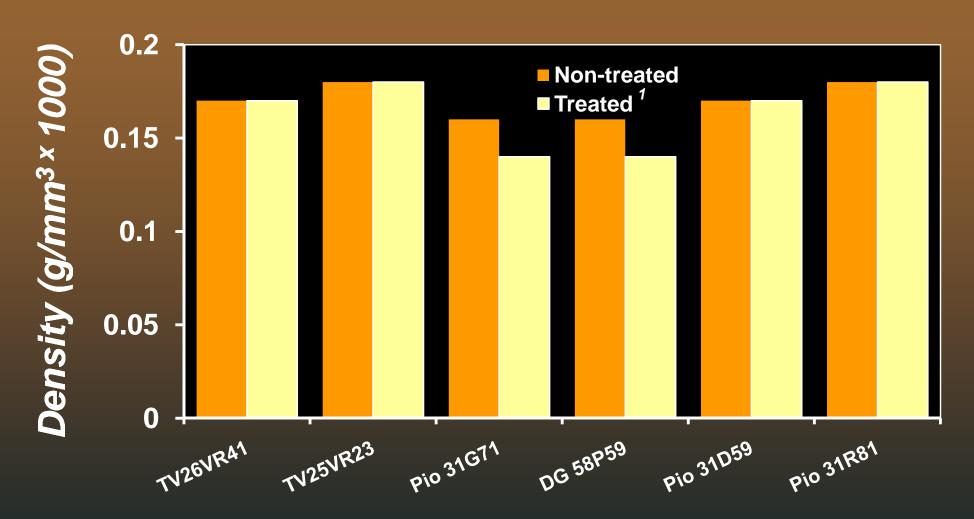
### 2009 Northeast



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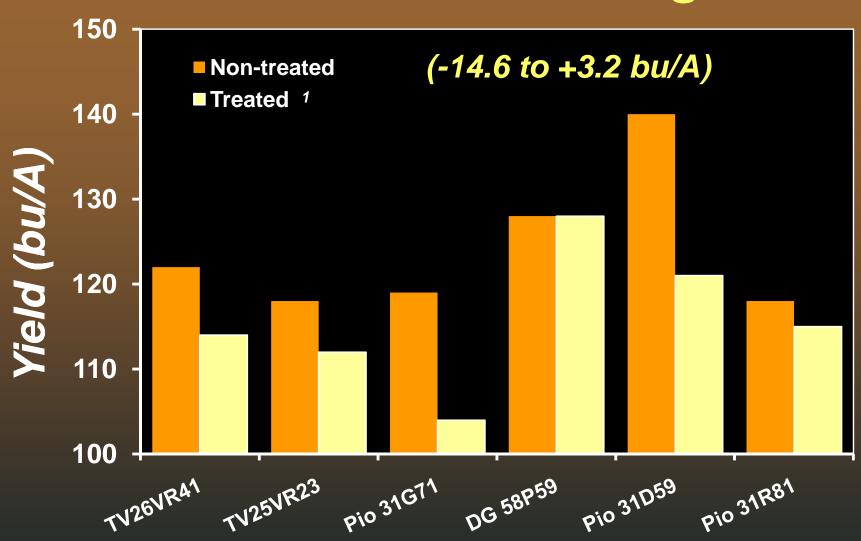


### 2009 Macon Ridge



<sup>1</sup>Treated with Headline @ 6 fl oz/A

### 2009 Macon Ridge





# General Fungicide Screening and LSU AgCenter Variety Disease Ratings



### 2007 Louisiana Corn Fungicide Summaries

Fungicide	# Tests	Diff <sup>1</sup>
Headline (6.0)	27	2.1
Quilt (14.0)	34	-1.7
Quadris (6.0)	3	2.4
Stratego (10.0)	9	-1.3

<sup>&</sup>lt;sup>1</sup> Difference in bu/A from non-treated

### Corn Fungicide Trials Macon Ridge 2008<sup>1</sup>

	5-Aug	5-Aug	
Treatment (fl oz/a)	TW	YId	
Check	59.4	105.9	
Stratego (10.0)	59.1	103.7	
Stratego (12.0)	59.5	109.7	
Headline (6.0)	<i>58.7</i>	104.8	
LSD P=(0.05)	0.5	NS	

<sup>1</sup>Planting Date: April 22

Corn variety: DKC63-42

MRCN0805

### Red River 2009

	5-Aug
Treatment (fl oz/a)	YId (bu/A)
Check	126.7
Quilt (14.0)	120.4
Stratego (10.0)	122.2
Headline (6.0)	130.6
Quilt (14.0) + 1% COC	139.1
Stratego (10.0) + 1/4% NIS	131.0
Headline (6.0) + 1/4% NIS	131.1
LSD P=(0.10)	7.0

### Red River 2009

	5-Aug
Treatment (fl oz/a)	Yld (bu/A)
Check	126.7
Quilt (14.0)	120.4
Stratego (10.0)	122.2
Headline (6.0)	130.6
Quilt (14.0) + 1% COC	139.1
Stratego (10.0) + 1/4% NIS	131.0
Headline (6.0) + ½% NIS	131.1
LSD P=(0.10)	7.0



### Dean Lee 2009

	%	5-Aug	5-Aug
Treatment (FI oz/a)	Brn LF	TW	Yld
Check	52.5	55.9	108
Stratego (10.0)	46.3	56.1	113
Quadris (6.0)	52.5	56.6	117
Quilt (14.0)	46.3	55.1	106
Headline (6.0)	46.3	<i>55.5</i>	98
LSD P=(0.10)	11.0	1.0	19

Pioneer 31D59: 3-6-09

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Dean I		

	%	5-Aug	5-Aug
Treatment (rate/A)¹	Brn LF	TW	YId (bu/A)
Check	<i>52.5</i>	<i>55.9</i>	108
Ballad Plus (0.5 qt)	36.3	56.6	99
Ballad Plus (1.0 qt)	51.3	56.3	82
Ballad Plus (0.5 qt) + Headline (6.0 fl oz)	37.1	56.0	99
Ballad Plus (1.0 qt) + Headline (6.0 fl oz)	41.3	56.6	109
Headline (6.0 fl oz)	37.5	56.5	101
LSD P=(0.10)	10.0	1.2	30
1/4 V/V Induce added to all treatments.		Planting D	ate: March 6th





- **ü** Continuous Corn
- **ü** Susceptible Varieties
- **ü** No-till Increased Residue
- **ü** Late Planted Corn ???
- Disease Pressure High
  Early



### 2009 Fungicide Prices

(Prices Subject to Change)

### Syngenta

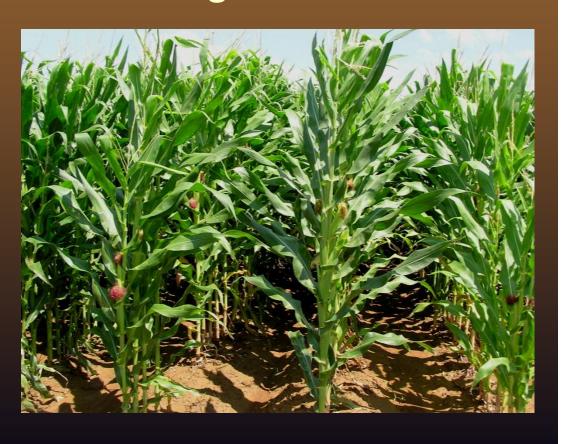
- **ü** Quadris-\$17.25/A
- **ü** Quilt-\$19.57/A

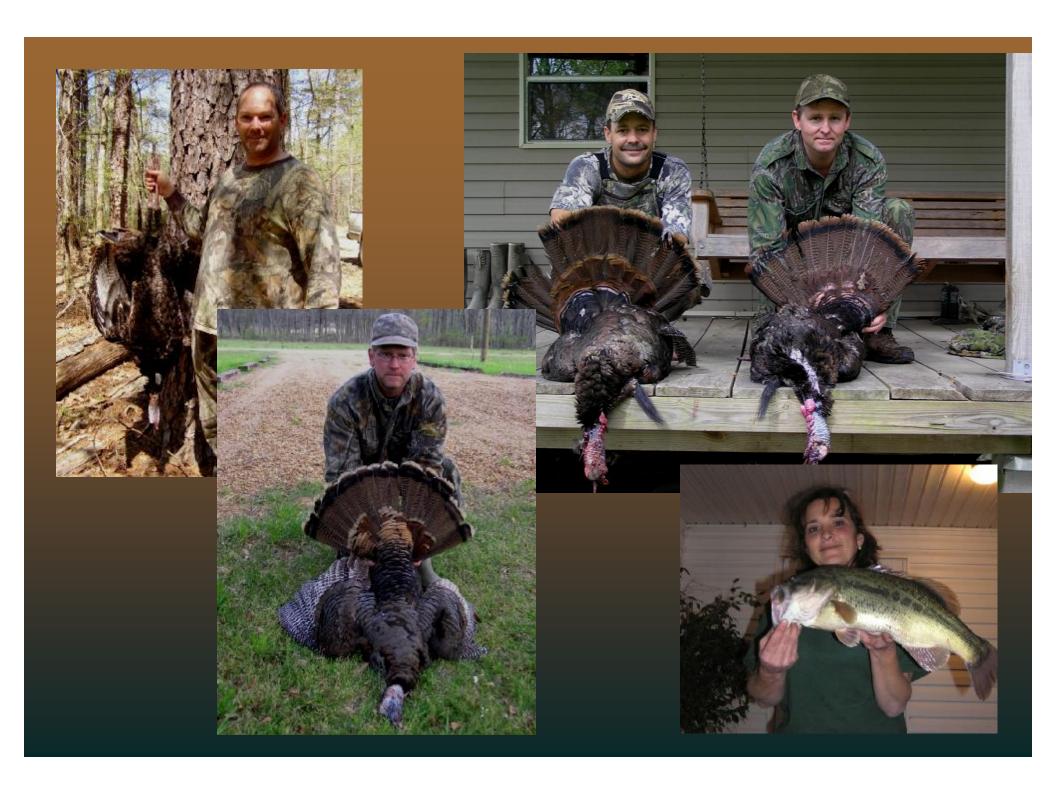
### **BASF**

**ü** Headline-\$18.46/A

#### Bayer

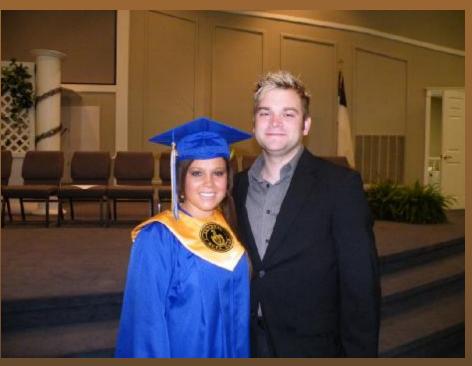
üStratego-\$12.50/A

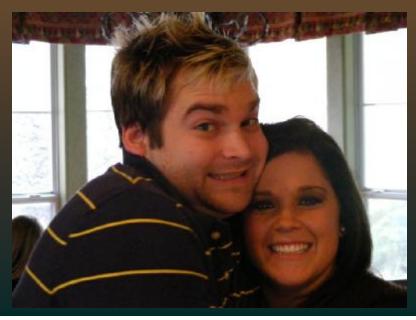




## Thanks for Your Time









### Thank You

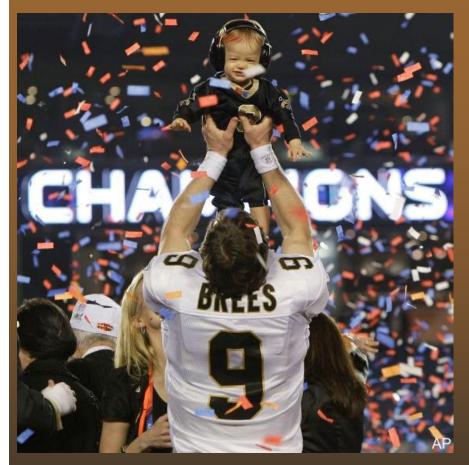
**üLA Soybean and Grains**Research and Promotion Board **üAR and MS Commodity Boards** 

**ü** Industry

**ü** Associates/Students

**ü**Scientists & Agents









!!! WHO !!! !!! DAT !!!



