

2011 Arkansas Corn and Grain Sorghum Standardized County Hybrid Trials



DIVISION OF AGRICULTURE
RESEARCH & EXTENSION

University of Arkansas System

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Corn and Grain Sorghum Standardized County Hybrid Trials, 2011

Conducted by:

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County	District	County Agent	Cooperator	Crop
Arkansas	Southeast	Grant Beckwith	David Rogers	Corn
Ashley	Southeast	Kevin Norton	Jack Shell	Corn
Chicot	Southeast	Gus Wilson	Earl Bennett	Corn
Craighead	Northeast	Branon Thiesse	Garrett Qualls	Corn
Crittenden	Northeast	Jason Osborn	Mack Ray	Corn
Cross	Northeast	Rick Wimberley	Jay Boeckmann	Grain Sorghum
Drew	Southeast	Chuck Capps	Appleberry Farms	Corn
Faulkner	River Valley	Hank Chaney	Joe Thrash	Corn
Jefferson	Southeast	Don Plunkett and Dennis Bailey	David Sites	Corn
Lafayette	Southwest	Joe Vestal	Clarence Brent	Corn
Lincoln	Southeast	Chad Norton	John Freeman	Corn
Logan	River Valley	Lance Kirkpatrick	Schluterman Farms	Corn
Mississippi	Northeast	Tyson Privett	Cole Hawkins	Corn
Monroe	Central	Van Banks	Doug Mayhue	Corn
Phillips	Southeast	Shawn Payne	Darin Davis	Grain Sorghum
Prairie	Central	Brent Griffin	Mark Bell	Corn
Prairie	Central	Brent Griffin	Greenwalt Co.	Grain Sorghum
Randolph	Northeast	Mike Andrews	Victor Stone	Corn
St. Francis	Central	Mitch Crow	Nathan Brown	Corn
St. Francis	Central	Mitch Crow	Sid Fogg	Grain Sorghum
White	Central	Keith Martin	Phillip Hamilton	Corn
Woodruff	Central	Eugene Turhune	Mike Chappell	Corn
Woodruff	Central	Eugene Turhune	Adam Chappell	Grain Sorghum
Yell	River Valley	David Moulder	Chris Mans	Corn

Special thanks to the industry representatives that supplied the seed:

Company	Representative
Cullum Seed (Armor)	Jeff Pangle
Croplan Genetics	Eric Kellium, Carl Foster
M-Pride Genetics	Scooter Hodges
Pioneer Hi-Bred International, Inc.	Roger Gipson, Otis Howe
Terral Seed Inc.	Paul Sumner

INTRODUCTION

The 2011 growing season was the fourth year for the Corn and Grain Sorghum Standardized County Hybrid Trial Program. The program's goal is to increase knowledge on selected hybrids that are being evaluated in the University of Arkansas Corn and Grain Sorghum Hybrid Testing Program (www.arkansasvarietytesting.com). The trials were a collaborative effort between growers, county extension agents, extension specialists and industry representatives. In the trials, producers followed their normal production practices they use on their farms. The cooperation of all producers mentioned in this publication is appreciated. Producers donate time, equipment and hired labor to make these trials possible.

Trials were separated into five districts and within each district hybrids entered were consistent. Districts included the Northeast, Central, Southeast, River Valley and Southwest, representing the major corn-producing areas of Arkansas. A map on page 4 shows the counties in each district. Industry representatives and extension specialists choose hybrids to be entered, but hybrids were required to be commercially available and have been tested/or being tested in the University of Arkansas Corn and Grain Sorghum Hybrid Testing Program. All corn hybrids were glyphosate-tolerant and contained at least one Bt trait. Relative maturity of hybrids entered ranged from 111 to 120 days. A full list of hybrids entered, along with relative maturity and traits, can be found on page 28. Trials were strip trials and were not replicated, but multiple locations within a district do provide useful information on yield and agronomic considerations.

Information collected at each corn trial includes soil type, planting date, agronomic production practices utilized by each producer, final plant population, test weight, grain moisture at harvest, and yield. Plots were planted with producer equipment and typically were eight rows wide by the length of field (500-1,500 ft). Grain moisture and test weights were recorded by commercial or handheld grain analysis equipment. Grain yields were adjusted to 15.5% moisture for corn and 14.0% for grain sorghum. When lodging occurred, visual ratings were taken by county extension agents, extension specialists and producers.

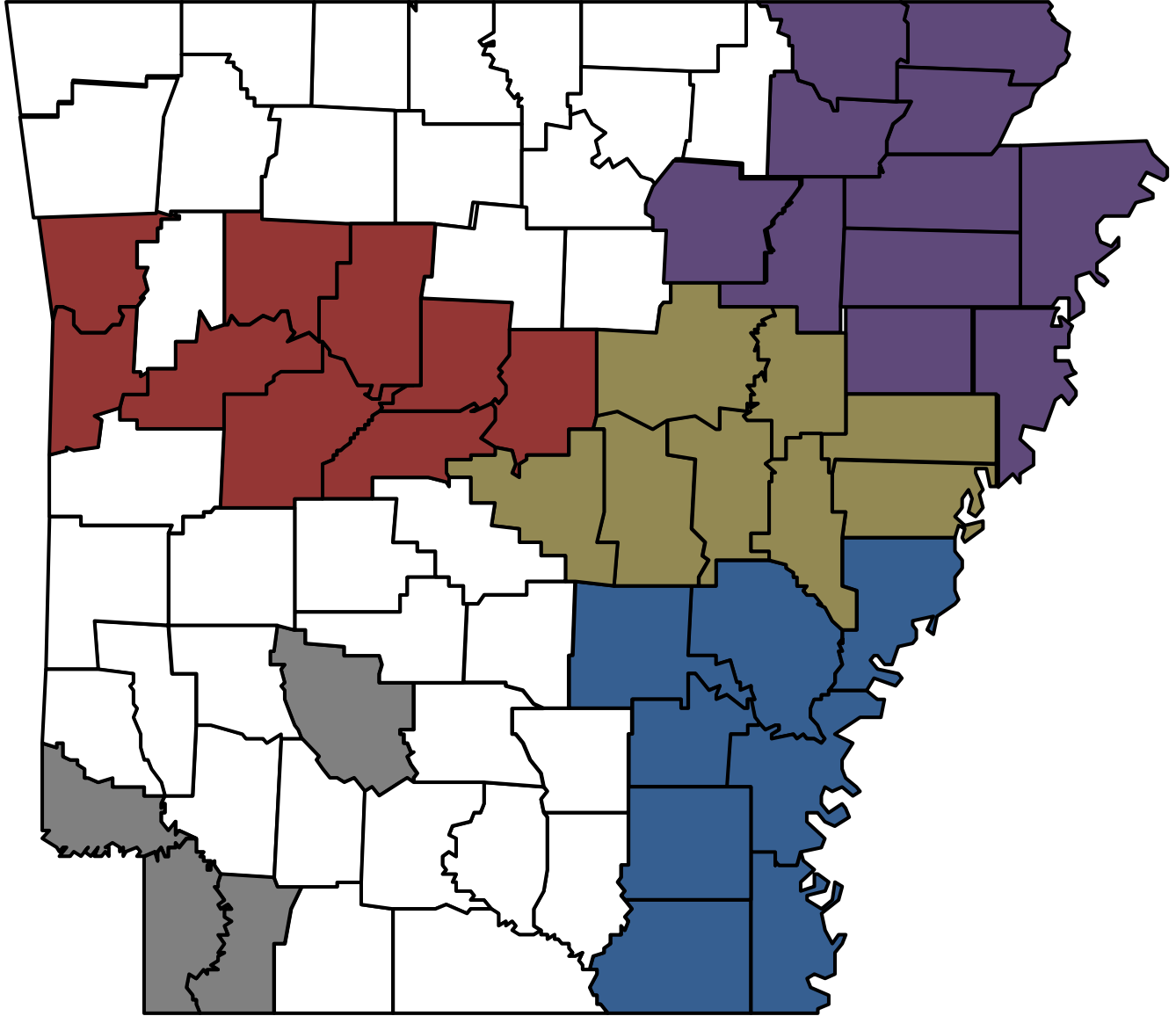
2011 provided many challenging weather conditions for corn and grain sorghum producers throughout the year including heavy rainfall and flooding in April and May and excessive/record heat in June through August with little rainfall. Even with irrigation, yields were often lower than anticipated and lower than in previous years; however these yields are similar to yields reported across the state in 2011.

The authors would like to express their gratitude to the producers, county agents and industry representatives that made these trials possible.

An electronic copy of this publication can be found at the following Web address:

www.aragriculture.org/crops/corn/hybrid_trials/default.htm

Corn and Grain Sorghum Standardized County Hybrid Trials District Map

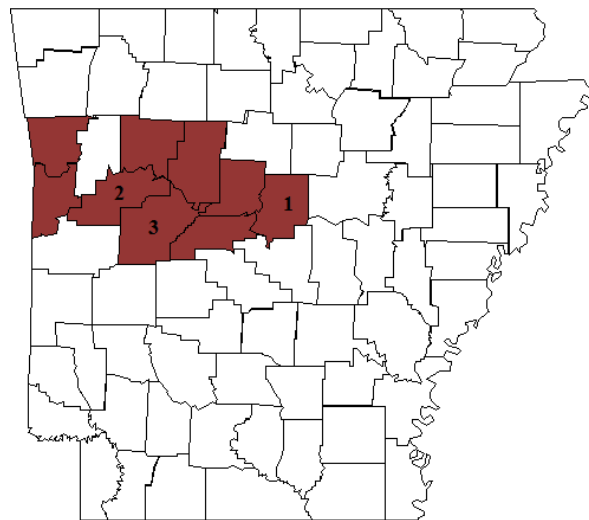


Southwest	Grey
River Valley	Red
Central	Olive
Southeast	Blue
Northeast	Purple

River Valley District Summary

The River Valley District had three trials. One of the trials was irrigated and the other two were non-irrigated.

Non-Irrigated			Irrigated		
	----- bushels per acre -----			bushels per acre	
Hybrid	Faulkner	Logan	Hybrid Average	Yell	
Armor 1161PRO	53.8	47.3	50.6	Armor 1262DPRO	214.0
Armor 1655PRO	66.7	59.6	63.2	Armor 1415PRO	201.6
Croplan Genetics 8505 VT3PRO	51.1	48.2	49.7	Croplan Genetics 8505 VT3PRO	193.6
Croplan Genetics 6926 VT3PRO	97.5	76.1	86.8	Croplan Genetics 6926 VT3PRO	213.0
M-Pride 3193 VT3PRO	58.6	50.5	54.6	M-Pride 3193 VT3PRO	198.0
M-Pride 3151GTCBLL	65.5	45.4	55.5	M-Pride 3150GT3	187.5
Pioneer 1615HR	52.5	67.4	60.0	Pioneer 1615HR	206.6
Pioneer 2088HR	47.0	77.8	62.4	Pioneer 2088HR	228.8
Terral REV 26HR50	42.2	55.8	49.0	Terral REV 26HR50	222.7
Terral REV 28HR20	62.9	75.2	69.1	Terral REV 28HR20	228.9
County Average	59.8	60.3		County Average	209.5



1 – Faulkner County

2 – Logan County

3 – Yell County

Faulkner County

Grower: Joe Thrash

County Agent: Hank Chaney

Location of Field: 5 miles S of Hwy 286 on Lollie Bottom Road

Soil Type: Linker-Mountainburg-Enders

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 32,000

Planting Date: April 8, 2011

Harvest Date: Sept. 15, 2011

Irrigation Type and Frequency: Non-irrigated



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	100	117	117	24	0
--- Sidedress	90	0	0	0	0
--- Pretassel	0	0	0	0	0
Total Fertility	190	117	117	24	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1161PRO	53.8	11.6%	29,000	8	56
Armor 1655PRO	66.7	13.2%	28,333	8	56
Croplan Genetics 8505 VT3PRO	51.1	12.9%	30,000	8	56
Croplan Genetics 6926 VT3PRO	97.5	13.5%	28,000	8	56
M-Pride 3193 VT3PRO	58.6	11.6%	30,000	8	56
M-Pride 3151GTCBLL	65.5	12.4%	27,000	8	56
Pioneer 1615HR	52.5	12.7%	29,000	8	56
Pioneer 2088HR	47.0	12.5%	29,000	8	56
Terral REV 26HR50	42.2	11.5%	27,666	8	56
Terral REV 28HR20	62.9	10.8%	29,333	8	56
Note:	Yields were low due to severe drought stress.				

¹ Yield is adjusted to 15.5% moisture.

² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Logan County

Grower: Mike and Kenny Schluterman

County Agent: Lance Kirkpatrick

Location of Field: Paris Bottoms

Soil Type: Roxanna and Dardanelle Silt Loam

Previous Crop: Soybeans

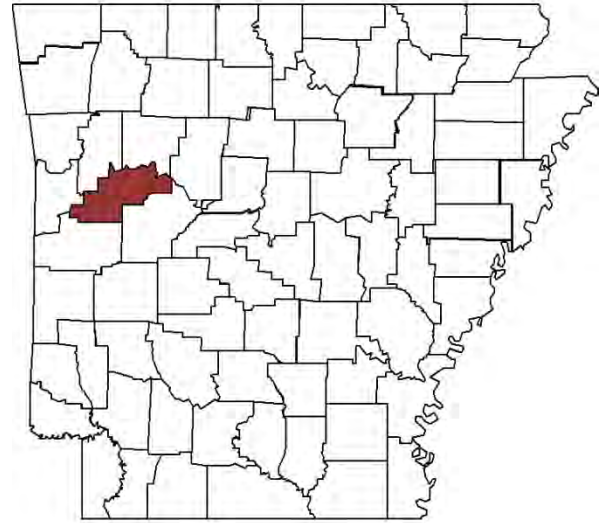
Row Width: 38 inches

Planting Population: 29,000

Planting Date: March 28, 2011

Harvest Date: Aug. 22, 2011

Irrigation Type and Frequency: Non-irrigated



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	21	120	120	24	0
--- Sidedress	128	0	60	0	0
--- Pretassel	0	0	0	0	0
Total Fertility	149	120	180	24	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1161PRO	47.3	14.5%	30,000	7	55.5
Armor 1655PRO	59.6	13.9%	28,000	8	56.2
Croplan Genetics 8505 VT3PRO	48.2	13.4%	27,000	6	55.4
Croplan Genetics 6926 VT3PRO	76.1	14.0%	28,000	3	57.1
M-Pride 3193 VT3PRO	50.5	13.4%	28,000	5	53.0
M-Pride 3151GTCBLL	45.4	13.7%	30,000	4	56.2
Pioneer 1615HR	67.4	14.0%	29,000	4	58.1
Pioneer 2088HR	77.8	13.5%	28,000	3	58.3
Terral REV 26HR50	55.8	13.5%	29,000	5	56.3
Terral REV 28HR20	75.2	13.6%	28,000	2	56.9
Note:	Yields were low due to severe drought stress.				

¹ Yield is adjusted to 15.5% moisture.

² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Yell County

Grower: Chris Mans

County Agent: David Moulder

Location of Field: Cotton Town

Soil Type: Dardanelle Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 32,000

Planting Date: April 8, 2011

Harvest Date: Sept. 9, 2011

Irrigation Type and Frequency: Furrow-irrigated seven times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	224	0	150	21	10
--- Sidedress	0	0	0	0	0
--- Pretassel	45	0	0	0	0
Total Fertility	269	0	150	21	10

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	214.0	12.7%	33,500	1	61.6
Armor 1415PRO	201.6	13.3%	32,000	1	58.5
Croplan Genetics 8505 VT3PRO	193.6	12.7%	31,500	1	59.6
Croplan Genetics 6926 VT3PRO	213.0	12.4%	32,500	1	61.3
M-Pride 3193 VT3PRO	198.0	13.1%	32,500	1	58.2
M-Pride 3150GT3	187.5	13.3%	31,500	1	61.2
Pioneer 1615HR	206.6	13.1%	30,500	1	61.0
Pioneer 2088HR	228.8	14.0%	31,000	1	58.4
Terral REV 26HR50	222.7	13.7%	31,500	1	61.3
Terral REV 28HR20	228.9	13.8%	31,500	1	61.3

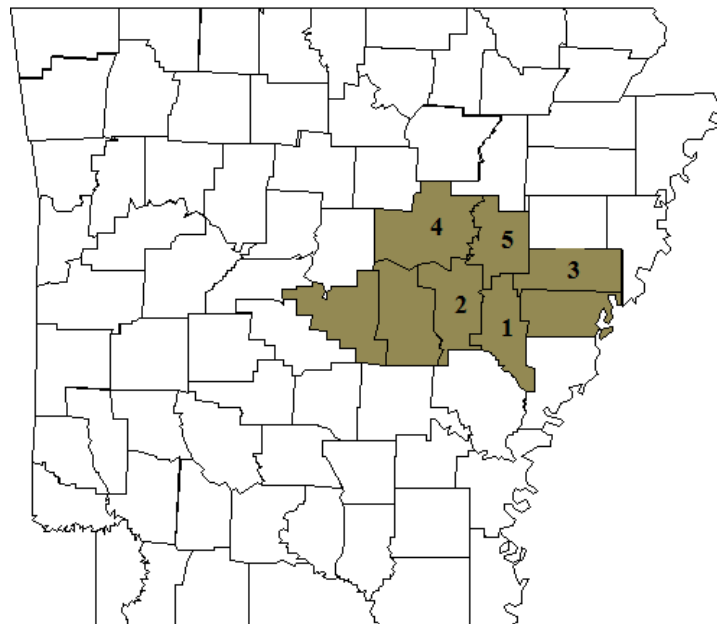
¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Central District Summary

The Central District had five trials. The following table shows a summary of the hybrids across this district.

Hybrid	----- bushels per acre -----					Hybrid Average
	Monroe	Prairie	St. Francis	White	Woodruff	
Armor 1262DPRO	173.6	144.5	177.5	131.4	218.7	169.1
Armor 1415PRO	213.9	193.1	216.1	123.3	197.7	188.8
Croplan Genetics 8505 VT3PRO	188.9	188.5	184.6	122.3	198.5	176.6
Croplan Genetics 6926 VT3PRO	205.6	167.1	208.4	114.1	209.6	181.0
M-Pride 3140 VT3PRO	198.4	161.2	193.5	129.1	193.9	175.2
M-Pride 3150GT3	189.8	163.0	193.6	131.1	205.8	176.7
Pioneer 2088HR	191.7	164.3	261.6	130.3	226.1	194.8
Terral REV 26HR50	163.4	136.7	210.8	113.3	208.5	166.5
Terral REV 28HR20	171.5	184.4	227.4	118.6	214.9	183.4
County Average	188.5	167.0	208.1	123.7	208.2	



1 – Monroe County

2 – Prairie County

3 – St. Francis County

4 – White County

5 – Woodruff County

Monroe County

Grower: Doug Mayhue

County Agent: Van Banks

Location of Field: Hwy 86 North of Holly Grove

Soil Type: Dubbs Silt Loam

Previous Crop: Soybeans

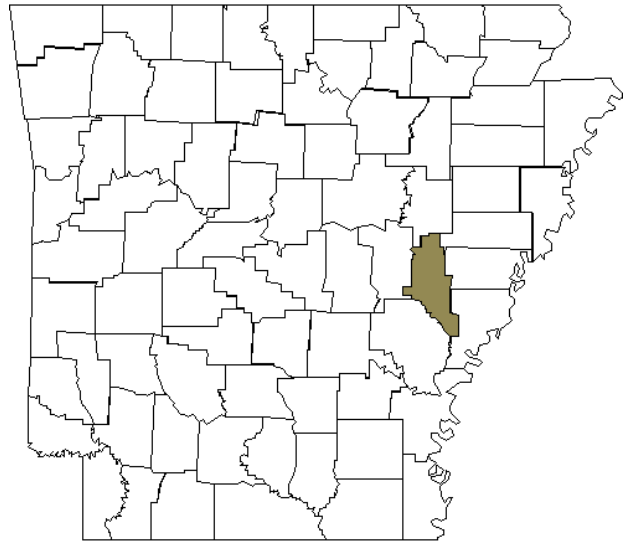
Row Width: 30 inches

Planting Population: 40,000

Planting Date: April 18, 2011

Harvest Date: Sept. 12, 2011

Irrigation Type and Frequency: Furrow-irrigated three times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	100	100	100	0	0
--- Sidedress	0	0	0	0	0
--- Pretassel	100	0	0	0	0
Total Fertility	200	100	100	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	173.6	14.3%	39,200	1	61.1
Armor 1415PRO	213.9	16.4%	35,500	1	57.0
Croplan Genetics 8505 VT3PRO	188.9	15.3%	37,750	1	58.7
Croplan Genetics 6926 VT3PRO	205.6	14.0%	32,650	1	61.3
M-Pride 3140 VT3PRO	198.4	13.8%	41,400	1	58.6
M-Pride 3150GT3	189.8	15.7%	38,500	1	58.7
Pioneer 2088HR	191.7	16.3%	37,750	1	58.4
Terral REV 26HR50	163.4	14.7%	39,200	1	60.1
Terral REV 28HR20	171.5	15.6%	40,650	1	58.4

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Prairie County

Grower: Mark Bell

County Agent: Brent Griffin

Location of Field: Hwy 38, Humbie Bell Airstrip

Soil Type: Calloway/Calhoun Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 34,000

Planting Date: April 9, 2011

Harvest Date: Sept. 6, 2011

Irrigation Type and Frequency: Furrow-irrigated eight times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	48	96	96	0	0
--- Sidedress	113	0	0	0	0
--- Pretassel	0	0	0	0	0
Total Fertility	161	96	96	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	144.5	15.4%	32,000	1	59.5
Armor 1415PRO	193.1	15.6%	33,500	1	58.0
Croplan Genetics 8505 VT3PRO	188.5	15.2%	33,000	1	59.5
Croplan Genetics 6926 VT3PRO	167.1	14.8%	32,000	1	60.0
M-Pride 3140 VT3PRO	161.2	14.4%	32,000	1	57.5
M-Pride 3150GT3	163.0	19.0%	33,250	1	55.0
Pioneer 2088HR	164.3	15.0%	32,000	1	59.0
Terral REV 26HR50	136.7	15.9%	31,000	1	60.0
Terral REV 28HR20	184.4	15.5%	32,000	1	60.0

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

St. Francis County

Grower: Nathan Brown

County Agent: Mitch Crow

Location of Field: Wheatley

Soil Type: Henry Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 33,000

Planting Date: April 7, 2011

Harvest Date: Aug. 26, 2011

Irrigation Type and Frequency: Furrow-irrigated six times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	80	80	80	10	1
--- Sidedress	92	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	218	80	80	10	1

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	177.5	19.1%	29,000	1	55.5
Armor 1415PRO	216.1	18.9%	33,000	1	54.0
Croplan Genetics 8505 VT3PRO	184.6	19.5%	33,000	1	54.0
Croplan Genetics 6926 VT3PRO	208.4	18.6%	32,000	1	58.0
M-Pride 3140 VT3PRO	193.5	18.9%	31,000	1	55.0
M-Pride 3150GT3	193.6	20.6%	34,000	1	52.0
Pioneer 2088HR	261.6	20.5%	33,000	1	53.5
Terral REV 26HR50	210.8	19.3%	32,000	1	56.5
Terral REV 28HR20	227.4	19.7%	35,000	1	55.0

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

White County

Grower: Phillip Hamilton

County Agent: Keith Martin

Location of Field: North of Griffithville

Soil Type: Calloway Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 35,000

Planting Date: April 19, 2011

Harvest Date: Oct. 14, 2011

Irrigation Type and Frequency: Furrow-irrigated eight times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	2 tons chicken litter				
	80	40	40	0	0
--- Sidedress	50	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	176	40	40	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	131.4	16.1%	37,750	1	--
Armor 1415PRO	123.3	16.4%	36,500	1	--
Croplan Genetics 8505 VT3PRO	122.3	16.4%	30,250	1	--
Croplan Genetics 6926 VT3PRO	114.1	16.3%	32,500	1	--
M-Pride 3140 VT3PRO	129.1	16.0%	34,250	1	--
M-Pride 3150GT3	131.1	16.0%	35,500	1	--
Pioneer 2088HR	130.3	15.8%	37,000	1	--
Terral REV 26HR50	113.3	16.4%	36,500	1	--
Terral REV 28HR20	118.6	16.3%	35,000	1	--
Note:	Yields were relatively low due to early season rains that washed the beds causing poor rooting by the plants.				

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Woodruff County

Grower: Mike Chappell

County Agent: Eugene Terhune

Location of Field: North of Cotton Plant

Soil Type: Dubbs Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 33,000

Planting Date: March 23, 2011

Harvest Date: Sept. 1, 2011

Irrigation Type and Frequency: Furrow-irrigated eight times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	60	60	60	10	2
--- Sidedress	150	0	0	0	0
--- Pretassel	0	0	0	0	0
Total Fertility	210	60	60	10	2

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	218.7	16.5%	33,000	1	57.5
Armor 1415PRO	197.7	15.8%	31,000	1	59.5
Croplan Genetics 8505 VT3PRO	198.5	15.9%	32,000	1	58.4
Croplan Genetics 6926 VT3PRO	209.6	14.7%	34,000	1	61.6
M-Pride 3140 VT3PRO	193.9	14.3%	29,500	1	59.5
M-Pride 3150GT3	205.8	16.4%	34,500	1	60.1
Pioneer 2088HR	226.1	16.8%	35,000	1	58.2
Terral REV 26HR50	208.5	16.1%	28,000	1	60.6
Terral REV 28HR20	214.9	16.4%	34,000	1	59.8

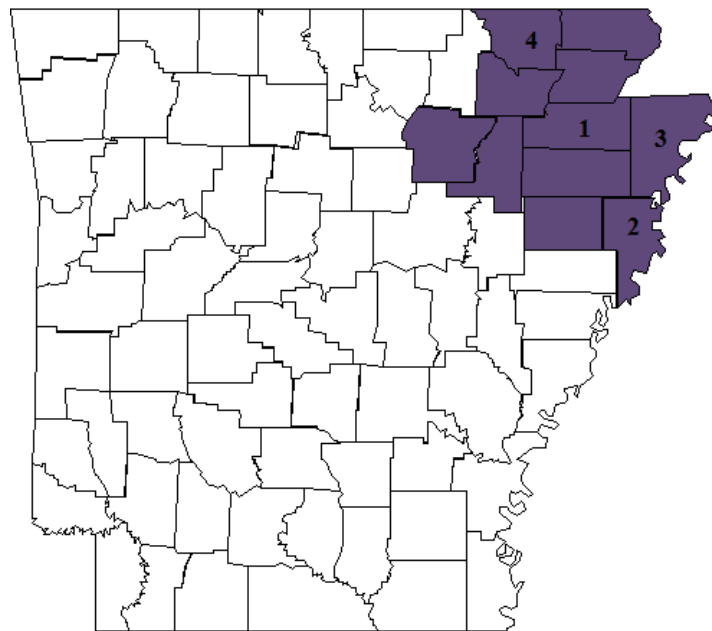
¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Northeast District Summary

The Northeast District had four trials. The following table shows a summary of the hybrids across this district.

Hybrid	----- bushels per acre -----				Hybrid Average
	Craighead	Crittenden	Mississippi	Randolph	
Armor 1262DPRO	188.1	132.8	154.6	134.2	152.4
Armor 1415PRO	190.7	105.4	176.4	137.9	152.6
Croplan Genetics 8505 VT3PRO	180.4	159.1	121.8	141.9	150.8
Croplan Genetics 6926 VT3PRO	173.0	95.4	128.0	125.2	130.4
M-Pride 3152 VT3	172.6	---	130.9	130.7	144.7
M-Pride 3150GT3	173.9	149.4	153.8	120.9	149.5
Terral REV 25HR39	193.1	131.9	164.9	117.6	151.9
Terral REV 28HR29	177.4	139.2	158.8	128.6	151.0
County Average	181.2	128.5	148.7	129.6	



1 – Craighead County

2 – Crittenden County

3 – Mississippi County

4 – Randolph County

Craighead County

Grower: Garrett Qualls

County Agent: Branon Thiesse

Location of Field: Lake City

Soil Type: Dundee Fine Sandy Loam

Previous Crop: Soybeans

Row Width: 38-inch twin

Planting Population: 37,000

Planting Date: March 23, 2011

Harvest Date: Aug. 15, 2011

Irrigation Type and Frequency: Furrow-irrigated 15 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	80	100	50	0	0
--- Sidedress	124	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	250	100	50	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	188.1	17.9%	32,300	1	57.6
Armor 1415PRO	190.7	18.1%	36,500	1	55.3
Croplan Genetics 8505 VT3PRO	180.4	17.7%	35,500	1	55.8
Croplan Genetics 6926 VT3PRO	173.0	16.7%	36,500	1	52.5
M-Pride 3152 VT3	172.6	18.9%	41,000	1	54.7
M-Pride 3150GT3	173.9	20.1%	33,100	1	55.3
Terral REV 25HR39	193.1	17.5%	37,750	1	59.2
Terral REV 28HR29	177.4	19.3%	41,800	1	57.5

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Crittenden County

Grower: Mack Ray

County Agent: Jason Osborn

Location of Field: Crawfordsville

Soil Type: Dundee Silt Loam

Previous Crop: Soybeans

Row Width: 38 inches

Planting Population: 34,500

Planting Date: May 9, 2011

Harvest Date: Sept. 29, 2011

Irrigation Type and Frequency: Furrow-irrigated seven times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	79	0	158	0	0
--- Sidedress	123	0	0	0	0
--- Pretassel	0	0	0	0	0
Total Fertility	202	0	158	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	132.8	15.1%	35,000	1	59.0
Armor 1415PRO	105.4	15.6%	34,000	1	57.0
Croplan Genetics 8505 VT3PRO	159.1	15.6%	32,000	1	60.0
Croplan Genetics 6926 VT3PRO	95.4	15.2%	33,000	1	60.0
M-Pride 3152 VT3*	---	17.2%	---	1	60.0
M-Pride 3150GT3	149.4	18.1%	38,000	1	57.0
Terral REV 25HR39	131.9	14.9%	35,000	1	58.0
Terral REV 28HR29	139.2	18.7%	36,000	1	59.0
Note:	*M-Pride 3152 VT3 yield is not reported due to planting error. Yields were relatively low due to heat stress from late planting.				

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Mississippi County

Grower: Cole Hawkins

County Agent: Tyson Privett

Location of Field: North of Leachville

Soil Type: Dundee-Silverdale Loamy Sand

Previous Crop: Soybeans

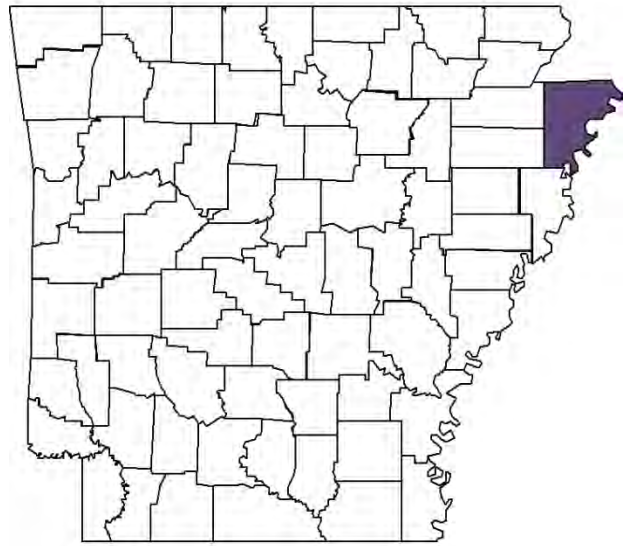
Row Width: 38-inch twin

Planting Population: 32,500

Planting Date: April 8, 2011

Harvest Date: Sept. 6, 2011

Irrigation Type and Frequency: Furrow-irrigated 16 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	80	30	60	20	10
--- Sidedress	120	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	246	30	60	20	10

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	154.6	15.9%	32,000	1	56.5
Armor 1415PRO	176.4	16.7%	31,500	1	55.9
Croplan Genetics 8505 VT3PRO	121.8	14.8%	32,000	1	56.6
Croplan Genetics 6926 VT3PRO	128.0	15.1%	31,000	1	57.3
M-Pride 3152 VT3	130.9	14.1%	30,500	1	57.1
M-Pride 3150GT3	153.8	17.8%	34,000	1	53.1
Terral REV 25HR39	164.9	15.7%	31,000	1	58.6
Terral REV 28HR29	158.8	18.9%	33,000	1	57.7

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Randolph County

Grower: Victor Stone

County Agent: Mike Andrews

Location of Field: South of Pocahontas

Soil Type: Dundee Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 33,700

Planting Date: April 9, 2011

Harvest Date: Sept. 10, 2011

Irrigation Type and Frequency: Furrow-irrigated 11 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	90	60	90	20	0
--- Sidedress	90	0	0	0	0
--- Pretassel	0	0	0	0	0
Total Fertility	180	60	90	20	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	134.2	19.8%	33,000	3	56.0
Armor 1415PRO	137.9	16.4%	29,500	3	55.3
Croplan Genetics 8505 VT3PRO	141.9	13.9%	30,000	3	55.7
Croplan Genetics 6926 VT3PRO	125.2	13.7%	31,000	3	57.3
M-Pride 3152 VT3	130.7	14.5%	29,000	3	56.0
M-Pride 3150GT3	120.9	16.9%	33,500	3	55.1
Terral REV 25HR39	117.6	13.9%	32,000	3	57.9
Terral REV 28HR29	128.6	16.8%	29,000	3	56.4
Note:	Yields were relatively low due to late-season severe weather. Problems included greensnap and lodging prior to maturity.				

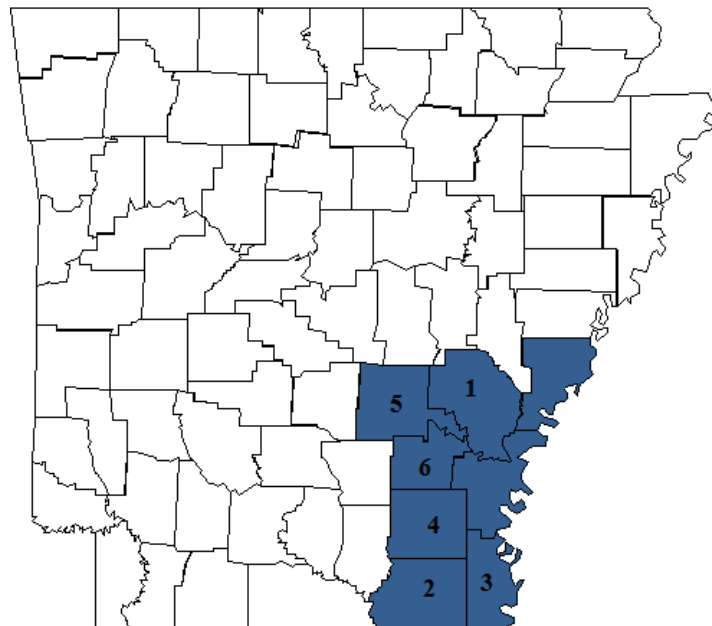
¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Southeast District Summary

The Southeast District had six trials. The following table shows a summary of the hybrids across this district.

Hybrid	----- bushels per acre -----						Hybrid Average
	Arkansas	Ashley	Chicot	Drew	Jefferson	Lincoln	
Armor 1262DPRO	144.3	179.9	218.4	152.8	161.5	115.8	162.1
Armor 1415PRO	174.3	197.0	209.6	178.0	182.9	126.9	178.1
Croplan Genetics 8505 VT3PRO	199.8	172.4	215.5	156.4	187.6	151.1	180.5
Croplan Genetics 6926 VT3PRO	177.5	191.2	223.4	167.2	156.8	138.8	175.8
M-Pride 3152 VT3	176.8	165.1	207.2	141.7	139.1	130.2	160.0
Pioneer 1615HR	225.9	182.4	227.6	159.4	163.2	129.6	181.4
Pioneer 2088HR	219.2	184.2	237.0	167.7	141.3	109.0	176.4
Terral REV 26HR50	201.5	148.7	231.0	160.4	190.1	138.1	178.3
Terral REV 28HR20	209.2	165.9	253.0	166.4	169.8	151.7	186.0
County Average	192.1	176.3	224.7	161.1	165.8	132.4	



- 1 – Arkansas County 2 – Ashley County 3 – Chicot County 4 – Drew County
 5 – Jefferson County 6 – Lincoln County

Arkansas County

Grower: David Rodgers

County Agent: Grant Beckwith

Location of Field: Bayou Meto

Soil Type: Stuttgart Silt Loam

Previous Crop: Soybeans

Row Width: 38 inches

Planting Population: 32,000

Planting Date: March 25, 2011

Harvest Date: Aug. 22, 2011

Irrigation Type and Frequency: Furrow-irrigated seven times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	94	118	118	0	9
--- Sidedress	125	0	0	24	0
--- Pretassel	46	0	0	0	0
Total Fertility	265	118	118	24	9

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	144.3	15.9%	30,500	1	58.9
Armor 1415PRO	174.3	16.5%	30,000	1	57.6
Croplan Genetics 8505 VT3PRO	199.8	16.3%	30,000	1	58.2
Croplan Genetics 6926 VT3PRO	177.5	15.8%	29,000	1	59.6
M-Pride 3152 VT3	176.8	17.1%	30,500	1	56.8
Pioneer 1615HR	225.9	17.6%	30,500	1	59.0
Pioneer 2088HR	219.2	18.6%	31,000	1	55.6
Terral REV 26HR50	201.5	17.7%	29,000	1	58.4
Terral REV 28HR20	209.2	18.5	31,000	1	56.7

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Ashley County

Grower: Jack Shell

County Agent: Kevin Norton

Location of Field: Promised Land area

Soil Type: Calloway Silt Loam

Previous Crop: Soybeans

Row Width: 38-inch twin

Planting Population: 35,000

Planting Date: April 11, 2011

Harvest Date: Sept. 22, 2011

Irrigation Type and Frequency: Furrow-irrigated 12 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	100	90	100	20	5
--- Sidedress	100	0	0	0	0
--- Pretassel	45	0	0	0	0
Total Fertility	245	90	100	20	5

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	179.9	12.3%	33,000	3	57.4
Armor 1415PRO	197.0	12.6%	33,500	1	59.9
Croplan Genetics 8505 VT3PRO	172.4	12.6%	34,500	1	58.3
Croplan Genetics 6926 VT3PRO	191.2	12.4%	35,000	1	59.9
M-Pride 3152 VT3	165.1	12.4%	34,000	1	59.5
Pioneer 1615HR	182.4	12.7%	34,000	1	60.4
Pioneer 2088HR	184.2	12.4%	33,000	1	59.1
Terral REV 26HR50	148.7	12.4%	33,000	1	60.4
Terral REV 28HR20	165.9	12.9%	34,500	1	59.7

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Chicot County

Grower: Earl Bennett

County Agent: Gus Wilson

Location of Field: Eudora

Soil Type: Sharkey Clay

Previous Crop: Soybeans

Row Width: 38 inches

Planting Population: 34,000

Planting Date: March 21, 2011

Harvest Date: Aug. 18, 2011

Irrigation Type and Frequency: Furrow-irrigated seven times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	85	30	90	20	10
--- Sidedress	119	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	250	30	90	20	10

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	218.4	14.4%	31,500	1	--
Armor 1415PRO	209.6	15.3%	31,000	1	--
Croplan Genetics 8505 VT3PRO	215.5	14.6%	33,500	1	--
Croplan Genetics 6926 VT3PRO	223.4	13.7%	30,500	1	--
M-Pride 3152 VT3	207.2	14.8%	32,000	1	--
Pioneer 1615HR	227.6	15.4%	31,500	1	--
Pioneer 2088HR	237.0	16.3%	31,000	1	--
Terral REV 26HR50	231.0	15.5%	33,000	1	--
Terral REV 28HR20	253.0	15.5%	34,000	1	--

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Drew County

Grower: Appleberry Farms

County Agent: Chuck Capps

Location of Field: Winchester

Soil Type: Rilla Silt Loam

Previous Crop: Soybeans

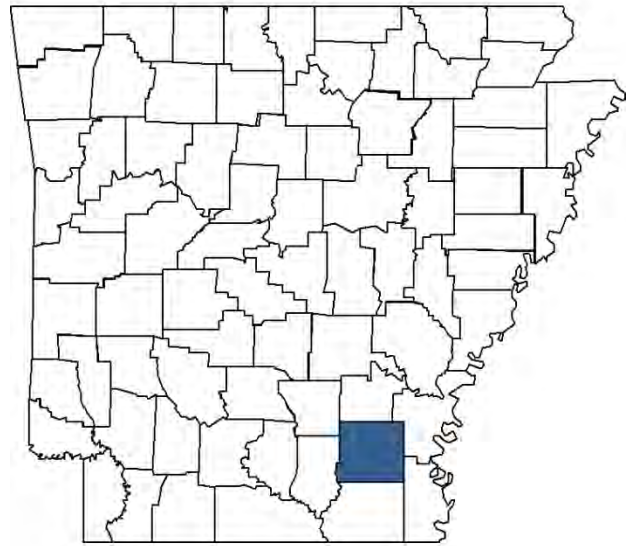
Row Width: 38 inches

Planting Population: 33,300

Planting Date: April 6, 2011

Harvest Date: Aug. 23, 2011

Irrigation Type and Frequency: Furrow-irrigated 11 times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	110	0	0	0	0
--- Sidedress	121	0	0	0	0
--- Pretassel	0	0	0	0	0
Total Fertility	231	0	0	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	152.8	16.8%	32,500	1	59.0
Armor 1415PRO	178.0	17.0%	33,500	1	57.8
Croplan Genetics 8505 VT3PRO	156.4	17.6%	35,000	1	56.5
Croplan Genetics 6926 VT3PRO	167.2	16.6%	32,000	1	59.0
M-Pride 3152 VT3	141.7	17.8%	33,000	1	56.4
Pioneer 1615HR	159.4	18.2%	33,000	1	58.1
Pioneer 2088HR	167.7	19.1%	34,000	1	54.2
Terral REV 26HR50	160.4	18.6%	32,000	1	56.7
Terral REV 28HR20	166.4	18.2%	33,000	1	56.5

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Jefferson County

Grower: David Sites

County Agent: Don Plunkett/Dennis Bailey

Location of Field: Southeast of Altheimer

Soil Type: Caspiana Silt Loam

Previous Crop: Soybeans

Row Width: 38 inches

Planting Population: 33,000

Planting Date: March 31, 2011

Harvest Date: Sept. 2, 2011

Irrigation Type and Frequency: Furrow-irrigated five times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	50	40	90	10	0
--- Sidedress	138	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	234	40	90	10	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	161.5	13.6%	*	1	59.1
Armor 1415PRO	182.9	13.3%	*	1	59.0
Croplan Genetics 8505 VT3PRO	187.6	13.0%	*	1	60.3
Croplan Genetics 6926 VT3PRO	156.8	13.0%	*	1	59.1
M-Pride 3152 VT3	139.1	13.2%	*	1	58.4
Pioneer 1615HR	163.2	13.2%	*	1	59.3
Pioneer 2088HR	141.3	14.1%	*	1	59.8
Terral REV 26HR50	190.1	14.1%	*	1	60.2
Terral REV 28HR20	169.7	14.2%	*	1	59.3
Notes:	* Stand counts were not taken.				

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Lincoln County

Grower: John Freeman

County Agent: Chad Norton

Location of Field: Avery

Soil Type: Perry Clay/Rilla Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 33,500

Planting Date: April 7, 2011

Harvest Date: Sept. 1, 2011

Irrigation Type and Frequency: Furrow-irrigated nine times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	90	90	120	10	2
--- Sidedress	110	0	0	0	0
--- Pretassel	46	0	0	0	0
Total Fertility	246	90	120	10	2

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1262DPRO	115.8	12.6%	32,000	1	59.1
Armor 1415PRO	126.9	13.2%	33,000	1	57.4
Croplan Genetics 8505 VT3PRO	151.1	13.4%	32,000	1	60.4
Croplan Genetics 6926 VT3PRO	138.8	12.8%	33,000	1	60.4
M-Pride 3152 VT3	130.2	13.0%	33,000	1	56.5
Pioneer 1615HR	129.6	13.1%	32,000	1	60.4
Pioneer 2088HR	109.0	13.4%	33,000	1	56.9
Terral REV 26HR50	138.1	13.2%	32,000	1	60.3
Terral REV 28HR20	151.7	13.6%	33,000	1	60.2
Notes:	Yield was relatively low due to problems with irrigation.				

¹ Yield is adjusted to 15.5% moisture. ² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Lafayette County

Grower: Clarence Brent

County Agent: Joe Vestal

Location of Field: Battle 60

Soil Type: Oklared Silt Loam

Previous Crop: Corn

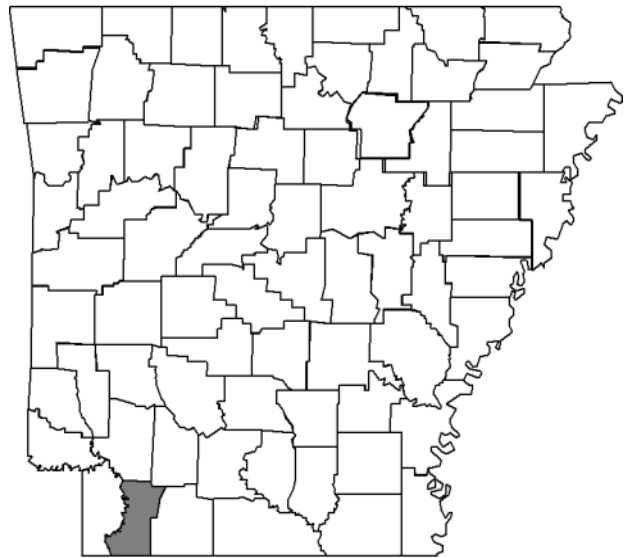
Row Width: 38 inches

Planting Population: 28,000

Planting Date: March 21, 2011

Harvest Date: Aug. 16, 2011

Irrigation Type and Frequency: Furrow-irrigated three times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	40	0	100	7	0
--- Sidedress	100	0	0	10	0
--- Pretassel	0	0	0	0	0
Total Fertility	140	0	100	17	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Plant Stand ²	Lodging Score ³	Test Weight
Armor 1161PRO	150.8	7.6%	24,000	1	58
Armor 1655PRO	153.1	12.2%	26,000	1	60
Croplan Genetics 8505 VT3PRO	157.1	13.8%	25,000	1	57
Croplan Genetics 6926 VT3PRO	157.6	13.8%	24,000	1	57
M-Pride 3193 VT3PRO	160.4	12.5%	24,000	1	57
M-Pride 3151GTCBLL	144.0	13.5%	25,000	1	56
Pioneer 1615HR	158.3	12.9%	26,000	1	59
Pioneer 2088HR*	--	--	--	--	--
Terral REV 26HR50	166.5	10.2%	20,000	1	59
Terral REV 28HR20	177.7	10.3%	23,000	1	62

Note: *Pioneer 2088HR was not planted. Field was originally to be non-irrigated, but was irrigated due to the drought.

¹ Yield is adjusted to 15.5% moisture.

² Plant Stand is given as plants per acre.

³ Lodging Score – 1 is no lodging, 10 is completely lodged.

Appendix A. Corn Hybrid Relative Maturity and Traits

Hybrid	Relative Maturity	Trait
Armor 1161PRO	111	Genuity VT Triple Pro
Armor 1262DPRO	112	Genuity VT Double Pro
Armor 1415PRO	114	Genuity VT Triple Pro
Armor 1655PRO	116	Genuity VT Triple Pro
Croplan Genetics 6926VT3PRO	114	Genuity VT Triple Pro
Croplan Genetics 8505VT3PRO	117	Genuity VT Triple Pro
M-Pride 3140 VT3PRO	114	Genuity VT Triple Pro
M-Pride 3150GT3	115	Glyphosate Tolerant, Corn Borer, Root Worm
M-Pride 3151GTCBLL	115	Glyphosate Tolerant, Corn Borer, Liberty Link
M-Pride 3152 VT3	115	VT3
M-Pride 3193 VT3PRO	115	Genuity VT Triple Pro
Pioneer 1615HR	116	Herculex, Roundup Ready Corn 2, Liberty Link
Pioneer 2088HR	120	Herculex, Roundup Ready Corn 2, Liberty Link
Terral REV 25HR39	115	Herculex, Roundup Ready Corn 2, Liberty Link
Terral REV 26HR50	116	Herculex, Roundup Ready Corn 2, Liberty Link
Terral REV 28HR20	118	Herculex, Roundup Ready Corn 2, Liberty Link
Terral REV 28HR29	118	Herculex, Roundup Ready Corn 2, Liberty Link

Corn Participants

Cullum Seeds LLC
P.O. Box 178
Fisher, Ark. 72429

Croplan Genetics
4990 NCR 583
Blytheville, Ark. 72315

M-Pride Genetics, Inc.
P.O. Box 560
Garden City, Mo. 64747

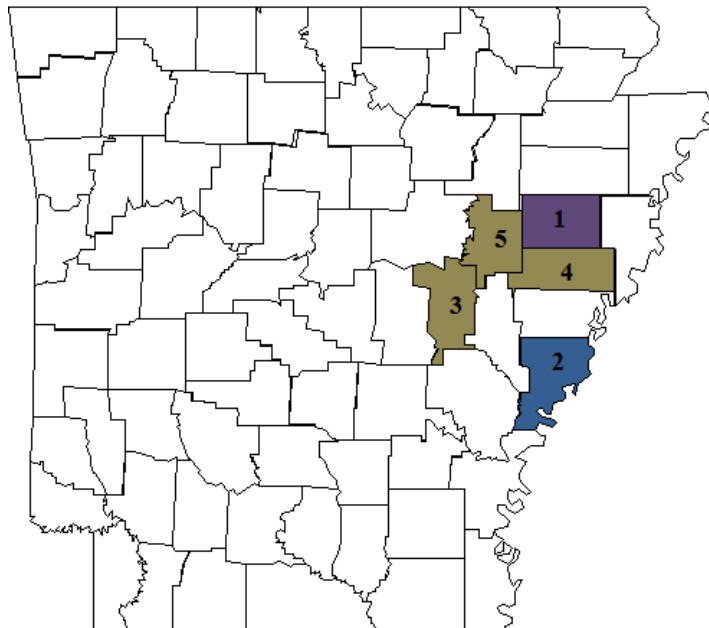
Pioneer Hi-Bred International, Inc.
700 Boulevards South, Suite 302
Huntsville, Ala. 35802

Terral Seed Inc.
P.O. Box 826
Lake Providence, La. 71254

Grain Sorghum Summary

There were two grain sorghum trials. The following table shows a summary of those trials.

Hybrid	----- bushels per acre -----					Hybrid Average
	Cross	Phillips	Prairie	St. Francis	Woodruff	
Pioneer 83P17	113.6	79.6	107.3	---	88.6	97.3
Pioneer 84G62	--	82.2	103.8	139.47	105.9	107.8
Terral 9421	124.8	64.7	121.1	129.27	98.7	107.7
Terral 96H81	131.4	57.2	104.9	132.74	94.6	104.2
County Average	123.3	70.9	109.3	121.4	97.0	



- 1 – Cross County 2 – Phillips County 3 – Prairie County 4 – St. Francis County
 5 – Woodruff County

Cross County

Grower: Jay Boeckmann

County Agent: Rick Wimberley

Location of Field: Three miles northwest of Wynne

Soil Type: Silt Loam

Previous Crop: Soybeans

Row Width: 30 inches

Planting Population: 75,000

Planting Date: May 9, 2011

Harvest Date: Sept. 3, 2011

Irrigation Type and Frequency: Furrow-irrigated three times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	30	45	90	0	0
--- Sidedress	90	0	0	0	0
Total Fertility	120	45	90	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Lodging Score ²	Test Weight
Pioneer 83P17	113.6	24.1%	1	--
Pioneer 84G62*	--	--	--	--
Terral TV9421	124.8	12.9%	1	--
Terral TV96H81	131.4	15.4%	1	--
Note:	*Pioneer 84G62 was not planted due to a planting error.			

¹ Yield is adjusted to 14.0% moisture. ² Lodging Score – 1 is no lodging, 10 is completely lodged.

Phillips County

Grower: Darin Davis

County Agent: Shawn Payne

Location of Field: Lakeview

Soil Type: Beulah Fine Sandy Loam

Previous Crop: Soybeans

Row Width: 38 inches

Planting Population: 100,000

Planting Date: June 16, 2011

Harvest Date: Nov. 1, 2011

Irrigation Type and Frequency: Furrow-irrigated two times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	0	0	0	0	0
--- Sidedress	69	0	0	0	0
Total Fertility	69	0	0	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Lodging Score ²	Test Weight
Pioneer 83P17	79.6	20.2%	1	--
Pioneer 84G62	82.2	20.8%	1	--
Terral TV9421	64.7	16.6%	1	--
Terral TV96H81	57.2	16.5%	1	--
Note:	Yields were low due to a late planting date. Spring flooding delayed planting.			

¹ Yield is adjusted to 14.0% moisture. ² Lodging Score – 1 is no lodging, 10 is completely lodged.

Prairie County

Grower: Greenwalt Co.

County Agent: Brent Griffin

Location of Field: 1.5 miles north of Hazen

Soil Type: Calloway Silt Loam

Previous Crop: Soybeans

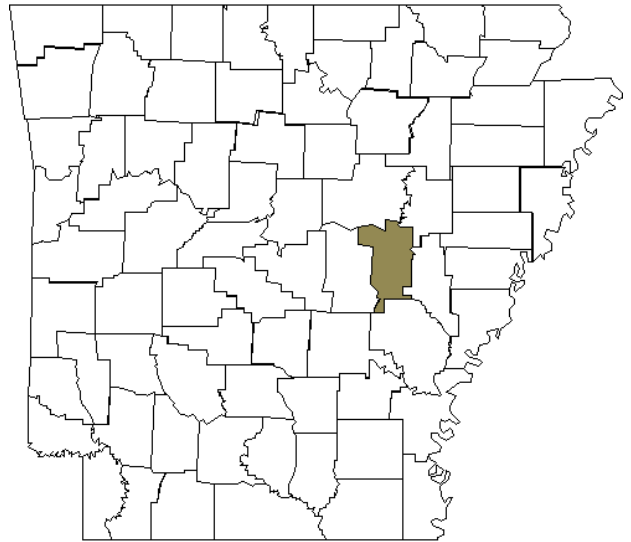
Row Width: 30 inches

Planting Population: 100,000

Planting Date: May 18, 2011

Harvest Date: Sept. 8, 2011

Irrigation Type and Frequency: Furrow-irrigated four times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	60	80	90	0	0
--- Sidedress	140	0	0	0	0
Total Fertility	200	80	90	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Lodging Score ²	Test Weight
Pioneer 83P17	107.3	17.9%	1	55.0
Pioneer 84G62	103.8	15.5%	1	59.0
Terral TV9421	121.1	14.7%	1	62.0
Terral TV96H81	104.9	15.4%	1	64.0

¹ Yield is adjusted to 14.0% moisture. ² Lodging Score – 1 is no lodging, 10 is completely lodged.

St. Francis County

Grower: Sid Fogg

County Agent: Mitch Crow

Location of Field: Southeast of Widner

Soil Type: Earle Clay

Previous Crop: Soybeans

Row Width: 19 inches

Planting Population: 100,000

Planting Date: April 8, 2011

Harvest Date: Aug. 11, 2011

Irrigation Type and Frequency: Pivot-irrigated seven times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	43	46	86	0	0
--- Sidedress	85	0	0	0	0
Total Fertility	128	46	86	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Lodging Score ²	Test Weight
Pioneer 83P17*	---	20.6%	1	--
Pioneer 84G62	139.47	19.4%	1	--
Terral TV9421	129.27	19.1%	1	--
Terral TV96H81	132.74	17.4%	1	--
Note:	*Pioneer 83P17 yield not reported due to harvest error.			

¹ Yield is adjusted to 14.0% moisture. ² Lodging Score – 1 is no lodging, 10 is completely lodged.

Woodruff County

Grower: Adam Chappell

County Agent: Eugene Terhune

Location of Field: Just south of Cotton Plant

Soil Type: Foley – Bonn Complex

Previous Crop: Soybeans

Row Width: 38 inches

Planting Population: 100,000

Planting Date: April 9, 2011

Harvest Date: Aug. 31, 2011

Irrigation Type and Frequency: Furrow-irrigated four times



Fertility (lb/ac)	N	P	K	S	Zn
--- Preplant	40	116	0	0	0
--- Sidedress	115	0	124	0	0
Total Fertility	155	116	124	0	0

Hybrid	Adjusted Yield ¹	Harvest Moisture	Lodging Score ²	Test Weight
Pioneer 83P17	88.6	16.4%	1	--
Pioneer 84G62	105.9	14.9%	1	--
Terral TV9421	98.7	16.2%	1	--
Terral TV96H81	94.6	16.7%	1	--

¹ Yield is adjusted to 14.0% moisture. ² Lodging Score – 1 is no lodging, 10 is completely lodged.

Grain Sorghum Participants

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700 Boulevard South, Suite 302
Huntsville, Ala. 35802

Terral Seed Inc.
P.O. Box 826
Lake Providence, La. 71254

