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R.D. Bond • D.G. Dombek • J.A. Still • R.M. Pryor

UofA

UNIVERSITY OF ARKANSAS
DIVISION OF AGRICULTURE

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ARKANSAS CORN AND GRAIN SORGHUM PERFORMANCE TESTS¹ 2010

R.D. Bond², D.G. Dombek³, J.A. Still⁴ and R.M. Pryor⁵

INTRODUCTION

Corn and grain sorghum performance tests are conducted each year in Arkansas by the University of Arkansas Division of Agriculture. The tests provide information to companies marketing seed within the state and aid the Arkansas Cooperative Extension Service in formulating recommendations for producers.

The 2010 corn performance tests contained 96 entries and were conducted at the Northeast Research and Extension Center (NEREC) at Keiser, the Lon Mann Cotton Research Station (LM-CRS) near Marianna, the Bell Farming Company near Des Arc, the Southeast Research and Extension Center–Rohwer Division (SEREC-RD) near Rohwer, and the Rice Research and Extension Center (RREC) near Stuttgart. The 2010 grain sorghum performance tests contained 20 entries and were conducted at the NEREC, the LMCRS, the SEREC-RD, and the RREC. Test location maps for grain sorghum and corn can be found on page 36 and inside the back cover, respectively.

MATERIALS AND METHODS

Corn hybrids were divided into two maturity groups. Based on information provided by the originating companies, entries were placed into a 116 or fewer days-to-maturity group (Early- to Mid-Season) or 117+ group (Mid- to Full-Season).

Within each test, entries were arranged as a randomized complete block design with four replications. Plots were two rows wide and 20-25 feet long depending on location. Seeding rates for each corn and grain sorghum hybrid were based on the recommendations of the originating company.

All plots were harvested with a plot combine. Specific location and management practice information accompany each table.

GRAIN SORGHUM PERFORMANCE MEASUREMENTS

Yield: Yields were calculated from the weight of threshed grain from each plot and are expressed as bushels per acre (bu./A) at 14% moisture.

Grain Moisture: Expressed as a percent moisture of grain at harvest.

Plant Height: Average height in inches from the soil surface to the top of the grain head.

Head Exertion: Average distance in inches from the flag leaf to base of panicle.

Head Compactness Scale:

1 = Head short and oval. Rachis branches intermediate in length.

2 = Head long and slender. Rachis branches strong and short.

3 = Head elongated and oval. Rachis branches beginning to weaken and intermediate in length.

4 = Head elongated and rectangular in shape. Rachis branches intermediate in strength and length.

5 = Head open and elongated. Rachis branches weak.

Bird Damage: A visual estimate of total percent grain loss from each plot.

¹Use of products and trade names in this report does not constitute a guarantee or warranty of the products named and does not signify that those products are approved to the exclusion of comparable products.

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CORN PERFORMANCE MEASUREMENTS

Yield: Yields were calculated from the weight of shelled corn harvested from each plot and are expressed as bushels per acre (bu./A) at 15.5% moisture.

Grain Moisture: Expressed as a percent moisture of shelled grain at harvest.

Root Lodging: Average number of plants leaning more than 40 degrees from vertical at harvest.

Stalk Lodging: Average number of plants broken below an ear at harvest.

Plants/Acre: The plant population expressed in the number of plants per acre.

Ear Height: The average distance in inches from the soil surface to the point of attachment of upper ear.

Tip Cover: Tip cover was rated as good (1), average (2), or poor (3). A rating of good was given when the husks reached well beyond the end of the ear and fitted tightly. A rating of average was given when the husks reached the tip of the ear or fitted loosely. A rating of poor was given when the ears were open to the weather.

Variety Testing Website

This report and other information about variety testing for cotton, rice, small grains and soybean can be found at **ArkansasVarietyTesting.com**. Disease ratings that do not appear in this or other reports may also be found on this Website.

Table 1. Yields of Grain Sorghum Hybrids in Arkansas Performance Tests, 2010¹.

Hybrid Name	Keiser Irrigated	Keiser Non- irrigated	Marianna Irrigated	Stuttgart Irrigated	Rohwer Irrigated	Rohwer Non- Irrigated	Average
bu./A.....						
DEKALB DKS44-20	122.5	110.1	133.5	148.8	119.9	122.3	126.2
DEKALB DKS49-45	115.8	146.9	120.2	155.6	113.5	115.1	127.9
DEKALB DKS53-67	123.3	103.6	147.0	174.6	121.2	121.2	131.8
DEKALB DKS54-00	125.2	122.1	122.6	168.9	120.6	113.8	128.9
DEKALB DKS54-03	121.2	158.8	121.5	158.2	117.3	96.4	128.9
Dyna-Gro 771B	121.3	124.0	134.3	136.8	107.7	122.8	124.5
Dyna-Gro 772B	121.8	125.6	127.3	154.9	118.4	121.9	128.3
Dyna-Gro 780B	123.5	125.4	127.2	177.2	123.6	121.4	133.1
Golden Acres 3566	100.1	93.6	115.3	151.1	100.2	93.7	109.0
Golden Acres 3696	121.4	113.2	128.8	122.6	122.6	102.9	118.6
Pioneer 83P17	107.9	130.9	127.8	175.5	120.3	106.9	128.2
Pioneer 84G62	131.8	151.2	136.4	152.5	123.0	109.5	134.1
Syngenta 5308	109.2	109.9	129.1	144.4	113.6	115.0	120.2
Syngenta 5464	119.9	125.5	128.8	152.2	110.6	101.3	123.1
Syngenta 5556	100.3	105.6	110.6	147.1	115.5	98.4	112.9
Terral TV9421	116.4	132.8	133.4	136.5	121.8	99.8	123.5
Terral TV96H81	117.5	139.9	128.5	189.2	123.0	104.6	133.8
Terral TV96H91	125.4	108.4	135.2	150.0	125.8	113.4	126.4
Terral TV96H95	116.7	142.1	131.2	148.4	125.5	100.1	127.3
Triumph TR82-G	126.6	129.7	128.4	186.9	137.2	115.9	137.5
Grand Mean	118.4	125.0	128.3	156.6	119.1	109.8	126.2
LSD (5%)	18.2	32.5	11.4	18.7	10.2	11.2	•
C.V.	9.3	15.6	6.2	8.4	6.0	7.2	•

¹ Keiser = Northeast Research and Extension Center.

Marianna = Lon Mann Cotton Research Station.

Stuttgart = Rice Research and Extension Center.

Rohwer = Southeast Research and Extension Center - Rohwer Division.

Table 2. Performance of Irrigated Grain Sorghum Hybrids, Keiser, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Head Comp. Rating	Bird Damage %
Pioneer 84G62	131.8	129.5	137.1	14.2	56	3	3	23
Triumph TR82-G	126.6	133.9	132.8	14.7	63	6	1	18
Terral TV96H91	125.4	119.7	125.8	14.1	59	9	2	38
DEKALB DKS54-00	125.2	126.5	133.5	15.8	57	6	2	17
Dyna-Gro 780B	123.5	112.7	118.2	14.1	59	4	1	27
DEKALB DKS53-67	123.3	136.8	135.7	15.3	57	4	2	22
DEKALB DKS44-20	122.5	134.2	139.8	13.7	55	8	2	18
Dyna-Gro 772B	121.8	120.8	125.6	15.3	59	8	3	22
Golden Acres 3696	121.4	106.7	•	13.7	56	6	2	27
Dyna-Gro 771B	121.3	115.9	122.4	13.5	55	7	3	27
DEKALB DKS54-03	121.2	131.5	134.9	14.9	58	8	3	13
Syngenta 5464	119.9	119.4	•	15.0	59	5	3	22
Terral TV96H81	117.5	118.9	121.9	13.7	58	6	1	30
Terral TV96H95	116.7	107.6	•	14.2	57	8	2	22
Terral TV9421	116.4	•	•	13.5	56	10	3	25
DEKALB DKS49-45	115.8	•	•	13.6	58	7	2	25
Syngenta 5308	109.2	•	•	14.4	55	5	3	23
Pioneer 83P17	107.9	•	•	15.4	60	5	2	25
Syngenta 5556	100.3	111.2	•	14.8	51	7	3	20
Golden Acres 3566	100.1	•	•	16.7	57	3	2	30
GRAND MEAN	118.4	•	•	14.5	57	6	2	24
LSD (5%)	18.2	•	•	1.6	•	•	•	9
C.V.	9.3	•	•	6.7	•	•	•	22

¹ Average yield for 2009 and 2010.² Average yield for 2008, 2009, and 2010.

Soil Series	Sharkey clay
Soil pH	6.8
Previous Crop	Soybean
Row Width	38"
Preplant Herbicide	Dual II Magnum + Atrazine, 4/21
Preplant Fertilizer	100-50-50, 4/16
Planting Date	4/21
Irrigation Dates	6/9, 6/15, 6/24, 6/29, 7/7, 7/27
Sidedress Fertilizer	50-0-0, 6/1
Herbicide Application(s)	Buctril + Atrazine, 6/2
Insecticide Application(s)	N/A
Harvest Date	8/16

Precipitation (inches)

	April	May	June	July	August	Total
2010	2.7	9.4	1.0	3.5	0.1	16.6
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	-2.2	4.2	-3.1	-0.2	-2.8	-4.0

Table 3. Performance of Nonirrigated Grain Sorghum Hybrids, Keiser, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Head Comp. Rating	Bird Damage %
DEKALB DKS54-03	158.8	143.5	133.6	12.8	44	1	3	20
Pioneer 84G62	151.2	139.1	132.4	13.4	44	1	2	25
DEKALB DKS49-45	146.9	•	•	14.6	45	2	3	22
Terral TV96H95	142.1	125.6	•	13.1	43	1	2	25
Terral TV96H81	139.9	133.3	121.3	13.9	44	1	1	20
Terral TV9421	132.8	•	•	13.4	41	2	3	22
Pioneer 83P17	130.9	•	•	15.8	47	3	2	22
Triumph TR82-G	129.7	136.6	125.5	11.5	45	2	1	25
Dyna-Gro 772B	125.6	127.6	121.7	14.4	43	3	3	25
Syngenta 5464	125.5	125.9	•	15.0	43	4	3	17
Dyna-Gro 780B	125.4	123.5	115.5	13.3	44	1	1	20
Dyna-Gro 771B	124.0	118.4	112.9	13.7	44	1	2	22
DEKALB DKS54-00	122.1	132.8	123.6	16.7	46	4	2	12
Golden Acres 3696	113.2	102.2	•	14.4	44	1	2	30
DEKALB DKS44-20	110.1	117.9	113.6	11.8	43	3	2	22
Syngenta 5308	109.9	•	•	13.8	41	1	2	18
Terral TV96H91	108.4	116.9	111.8	15.4	44	4	2	28
Syngenta 5556	105.6	118.6	•	13.9	38	4	2	27
DEKALB DKS53-67	103.6	115.2	115.8	15.0	43	1	2	22
Golden Acres 3566	93.6	•	•	15.9	44	2	2	27
GRAND MEAN	125.0	•	•	14.1	44	2	2	22
LSD (5%)	32.5	•	•	1.8	•	•	•	9
C.V.	15.6	•	•	7.8	•	•	•	25

¹ Average yield for 2009 and 2010.² Average yield for 2008, 2009, and 2010.

Soil Series	Sharkey clay
Soil pH	6.8
Previous Crop	Soybean
Row Width	38"
Preplant Herbicide	Dual II Magnum + Atrazine, 4/21
Preplant Fertilizer	100-50-50, 4/16
Planting Date	4/21
Sidedress Fertilizer	50-0-0, 6/1
Herbicide Application(s)	Buctril + Atrazine + COC, 6/2
Insecticide Application(s)	N/A
Harvest Date	8/16

Precipitation (inches)

	April	May	June	July	August	Total
2010	2.7	9.4	1.0	3.5	0.1	16.6
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	-2.2	4.2	-3.1	-0.2	-2.8	-4.0

Table 4. Performance of Irrigated Grain Sorghum Hybrids, Marianna, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Head Comp. Rating	Bird Damage %
DEKALB DKS53-67	147.0	185.6	•	15.4	56	8	3	4
Pioneer 84G62	136.4	173.6	188.0	15.4	60	6	3	5
Terral TV96H91	135.2	150.7	179.1	14.8	60	9	1	4
Dyna-Gro 771B	134.3	175.0	•	13.9	62	4	3	3
DEKALB DKS44-20	133.5	•	•	15.8	64	8	3	5
Terral TV9421	133.4	•	•	13.7	56	10	1	9
Terral TV96H95	131.2	•	•	14.4	62	8	1	5
Syngenta 5308	129.1	•	•	14.2	59	9	4	5
Syngenta 5464	128.8	•	•	15.5	64	6	5	1
Golden Acres 3696	128.8	•	•	13.3	59	5	3	1
Terral TV96H81	128.5	172.9	186.0	14.1	58	7	1	4
Triumph TR82-G	128.4	185.7	•	15.3	63	6	2	4
Pioneer 83P17	127.8	•	•	15.6	64	7	2	5
Dyna-Gro 772B	127.3	179.8	•	16.0	58	8	4	4
Dyna-Gro 780B	127.2	173.8	162.6	14.4	62	4	1	1
DEKALB DKS54-00	122.6	184.4	151.8	16.0	60	6	3	9
DEKALB DKS54-03	121.5	•	•	14.8	63	6	4	11
DEKALB DKS49-45	120.2	•	•	15.3	66	8	3	5
Golden Acres 3566	115.3	•	•	14.8	59	5	3	4
Syngenta 5556	110.6	•	•	15.4	58	7	1	5
GRAND MEAN	128.3	•	•	14.9	61	7	3	5
LSD (5%)	11.4	•	•	1.2	•	•	•	9
C.V.	6.2	•	•	5.5	•	•	•	•

¹ Average yield for 2007 and 2010.² Average yield for 2006, 2007, and 2010.

Soil Series	Calloway silt loam
Soil pH	7.4
Previous Crop	Fallow
Row Width	38"
Preplant Herbicide	Parallel + Atrazine + Roundup, 4/21
Preplant Fertilizer	200-150-100, 3/8
Planting Date	4/20
Irrigation Dates	6/13, 6/24, 7/1, 7/8, 7/22, 7/29, 8/5, 8/12
Sidedress Fertilizer	35 gal of 32% N, 6/5
Herbicide Application(s)	Atrazine, 5/24
Insecticide Application(s)	Karate + Lanate, 7/28
Bird Repellant Application(s)	Flockbuster, 7/15, 7/22
Harvest Date	8/16

Precipitation (inches)

	April	May	June	July	August	Total
2010	3.4	7.8	7.3	2.6	0.6	21.7
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	-1.5	2.6	3.3	-1.1	-2.2	1.1

Table 5. Performance of Irrigated Grain Sorghum Hybrids, Stuttgart, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Head Comp. Rating	Bird Damage %
Terral TV96H81	189.2	168.7	157.1	13.8	55	6	3	8
Triumph TR82-G	186.9	182.9	176.4	12.8	65	6	2	0
Dyna-Gro 780B	177.2	162.2	157.4	14.1	56	10	3	4
Pioneer 83P17	175.5	•	•	14.8	55	12	2	4
DEKALB DKS53-67	174.6	176.6	171.1	13.6	53	4	2	3
DEKALB DKS54-00	168.9	166.0	164.1	13.9	55	5	2	3
DEKALB DKS54-03	158.2	155.1	•	12.6	53	5	3	4
DEKALB DKS49-45	155.6	•	•	14.5	60	4	2	6
Dyna-Gro 772B	154.9	158.3	154.2	13.5	57	5	3	8
Pioneer 84G62	152.5	161.5	156.7	13.8	51	5	2	11
Syngenta 5464	152.2	148.6	•	13.4	51	8	3	6
Golden Acres 3566	151.1	•	•	14.9	54	3	3	23
Terral TV96H91	150.0	147.1	132.3	13.7	60	9	2	3
DEKALB DKS44-20	148.8	144.1	•	15.0	53	4	3	4
Terral TV96H95	148.4	145.4	•	15.4	53	7	2	18
Syngenta 5556	147.1	148.4	•	14.1	50	3	3	14
Syngenta 5308	144.4	•	•	14.2	54	3	2	21
Dyna-Gro 771B	136.8	143.8	139.4	15.2	52	4	3	33
Terral TV9421	136.5	•	•	15.5	51	12	4	45
Golden Acres 3696	122.6	126.5	•	15.3	55	12	3	38
GRAND MEAN	156.6	•	•	14.2	55	6	3	13
LSD (5%)	18.7	•	•	2.2	•	•	•	8
C.V.	8.4	•	•	11.0	•	•	•	47

¹ Average yield for 2009 and 2010.² Average yield for 2007, 2009, and 2010.

Soil Series	Crowley silt loam
Soil pH	6.0
Previous Crop	Soybean
Row Width	30"
Preplant Herbicide	Bicep II Magnum, 4/16
Preplant Fertilizer	103-92-90 + sulfur + zinc
Planting Date	4/14
Irrigation Dates	6/1, 6/8, 6/15, 6/22, 7/8, 7/21, 8/4
Sidedress Fertilizer	92-0-0, 5/13, 5/25
Herbicide Application(s)	Permit, 5/21
Insecticide Application(s)	Intrepid + Mustang Max, 6/24, Mustang Max, 7/10
Harvest Date	8/19

Precipitation (inches)

	April	May	June	July	August	Total
2010	3.5	4.3	1.1	1.3	3.2	13.2
Average	5.6	4.7	3.6	3.4	2.8	20.1
Departure	-2.1	-0.4	-2.5	-2.2	0.4	-6.9

Table 6. Performance of Irrigated Grain Sorghum Hybrids, Rohwer, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches
Triumph TR82-G	137.2	136.1	138.8	13.7	58	3
Terral TV96H91	125.8	131.1	140.3	13.3	59	5
Terral TV96H95	125.5	129.9	•	12.6	58	4
Dyna-Gro 780B	123.6	131.2	133.9	13.6	60	4
Terral TV96H81	123.0	130.0	136.2	13.5	58	4
Pioneer 84G62	123.0	134.2	144.7	13.1	56	3
Golden Acres 3696	122.6	128.0	•	13.1	54	4
Terral TV9421	121.8	•	•	12.6	56	5
DEKALB DKS53-67	121.2	137.2	149.3	13.5	55	3
DEKALB DKS54-00	120.6	137.6	146.3	13.7	57	6
Pioneer 83P17	120.3	•	•	13.7	60	4
DEKALB DKS44-20	119.9	128.8	140.4	13.3	55	5
Dyna-Gro 772B	118.4	127.9	133.5	13.3	57	5
DEKALB DKS54-03	117.3	128.6	137.5	13.3	59	3
Syngenta 5556	115.5	119.4	•	13.3	53	5
Syngenta 5308	113.6	•	•	13.1	54	4
DEKALB DKS49-45	113.5	•	•	13.4	58	5
Syngenta 5464	110.6	124.5	•	13.4	57	6
Dyna-Gro 771B	107.7	119.6	129.0	12.9	55	4
Golden Acres 3566	100.2	•	•	13.8	58	3
GRAND MEAN	119.1	•	•	13.3	57	4
LSD (5%)	10.2	•	•	0.6	•	•
C.V.	6.0	•	•	3.2	•	•

¹ Average yield for 2009 and 2010.² Average yield for 2008, 2009, and 2010.

Soil Series Sharkey Desha silt loam
 Soil pH 7.1
 Previous Crop Grain Sorghum
 Row Width 38"
 Preplant Herbicide Dual II Magnum + Atrazine, 4/20
 Preplant Fertilizer 0-0-150, 4/13
 Planting Date 4/19
 Irrigation Dates 5/28, 6/4, 6/16, 6/22, 7/8, 7/23
 Sidedress Fertilizer 63-0-0, 5/11, 6/1
 Herbicide Application(s) None
 Insecticide Application(s) Mustang Max, 7/2, Brigade, 7/7, Tracer, 7/16
 Harvest Date 8/17

Precipitation (inches)

	April	May	June	July	Total
2010	3.8	2.2	1.7	3.8	11.5
Average	5.0	4.7	3.5	3.9	17.1
Departure	-1.3	-2.5	-1.8	-0.1	-5.6

Table 7. Performance of Nonirrigated Grain Sorghum Hybrids, Rohwer, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches
Dyna-Gro 771B	122.8	123.3	127.6	14.1	45	2
DEKALB DKS44-20	122.3	126.3	137.0	14.2	46	1
Dyna-Gro 772B	121.9	127.3	133.5	14.0	46	2
Dyna-Gro 780B	121.4	122.7	115.3	14.4	48	1
DEKALB DKS53-67	121.2	122.3	137.2	14.4	45	1
Triumph TR82-G	115.9	116.9	116.2	14.3	45	1
DEKALB DKS49-45	115.1	•	•	14.3	48	1
Syngenta 5308	115.0	•	•	14.1	45	2
DEKALB DKS54-00	113.8	118.9	130.5	14.5	47	3
Terral TV96H91	113.4	121.1	128.2	14.2	45	2
Pioneer 84G62	109.5	123.7	136.1	14.4	45	1
Pioneer 83P17	106.9	•	•	14.9	42	2
Terral TV96H81	104.6	114.8	122.3	14.4	47	1
Golden Acres 3696	102.9	113.5	•	14.0	46	2
Syngenta 5464	101.3	116.4	•	14.3	47	4
Terral TV96H95	100.1	112.4	•	14.1	45	2
Terral TV9421	99.8	•	•	13.8	43	3
Syngenta 5556	98.4	108.8	•	14.3	42	3
DEKALB DKS54-03	96.4	110.6	124.5	14.5	42	2
Golden Acres 3566	93.7	•	•	14.5	48	1
GRAND MEAN	109.8	•	•	14.3	45	2
LSD (5%)	11.2	•	•	0.3	•	•
C.V.	7.2	•	•	1.3	•	•

¹ Average yield for 2009 and 2010.² Average yield for 2008,2009, and 2010.

Soil Series Sharkey Desha silt loam
Soil pH 7.1
Previous Crop Grain Sorghum
Row Width 38"
Preplant Herbicide Dual II Magnum + Atrazine, 4/20
Preplant Fertilizer 0-0-150, 4/13
Planting Date 4/19
Sidedress Fertilizer 63-0-0, 5/11, 6/1
Herbicide Application(s) None
Insecticide Application(s) Mustang Max, 7/2, Brigade, 7/7, Tracer, 7/16
Harvest Date 8/17

Precipitation (inches)

	April	May	June	July	Total
2010	3.8	2.2	1.7	3.8	11.5
Average	5.0	4.7	3.5	3.9	17.1
Departure	-1.3	-2.5	-1.8	-0.1	-5.6

Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2010¹.

Hybrid Name	Keiser	Marianna	Stuttgart	Rohwer	Bell Farm	Average
.....bu./A.....						
<u>Early- to Mid-Season Hybrids</u>						
AgriGold A6479VT3	207.9	196.0	234.0	155.0	186.5	195.9
AgriGold A6489VT3	174.8	207.1	253.1	172.1	195.7	200.6
AgriGold A6533VT3	180.1	199.2	267.1	225.7	200.4	214.5
AgriGold A6553VT3	194.3	209.2	261.5	186.4	198.9	210.1
AgriGold A6632VT3Pro	161.7	215.1	243.4	195.3	183.7	199.8
AgriGold A6633VT3	207.9	217.6	271.2	209.1	192.9	219.7
Armor 1161PRO	184.1	210.2	252.9	193.3	204.8	209.1
Armor 1363PRO	161.5	194.4	214.3	169.1	188.2	185.5
Armor 1457VT3	170.6	197.0	221.2	137.2	182.4	181.7
Armor 1511C	180.0	196.8	233.2	168.8	197.0	195.2
Armor 1545PRO	170.4	198.0	221.7	155.3	168.0	182.7
Armor 1655PRO	218.3	215.9	251.8	219.8	216.4	224.4
Armor 0909PRO	149.1	193.2	233.6	192.0	187.6	191.1
Armor 1415PRO	196.2	226.5	254.3	188.5	194.4	212.0
Armor BXC028VT3	194.8	179.7	246.7	199.0	194.8	203.0
Armor 1539PRO	211.9	207.1	248.3	170.0	195.2	206.5
Armor 1262PRO2	184.6	214.7	256.6	194.9	199.8	210.1
Armor BXC306PRO	185.1	184.0	206.5	146.4	190.9	182.6
Armor BXT069GT	202.3	214.4	240.3	195.4	199.4	210.4
BH 8928VTTP	217.1	210.6	256.8	206.5	212.2	220.6
BH X10064VTTP	192.1	192.7	259.6	215.2	203.6	212.6
BH X9085VT3	178.7	175.5	240.3	213.2	183.5	198.2
BH X9150G	212.2	193.0	238.4	198.4	184.5	205.3
Croplan Genetics 6286VT3Pro	228.9	216.7	241.8	168.2	203.1	211.7
Croplan Genetics 6425VT3Pro	212.4	202.7	255.1	208.6	200.2	215.8
Croplan Genetics 6725VT3Pro	172.5	211.0	255.2	165.3	186.2	198.0
Croplan Genetics 7131VT3	180.7	204.1	251.3	179.8	190.0	201.2
DEKALB DKC61-05 (GENVT3P)	203.7	201.4	233.8	154.7	183.2	195.4
DEKALB DKC63-84 (VT3)	187.4	216.7	260.3	188.5	208.5	212.3
DEKALB DKC64-69 (GENVT3P)	234.5	233.0	282.7	192.4	188.1	226.1
DEKALB DKC64-83 (GENVT3P)	192.6	204.8	263.5	202.5	190.1	210.7
DEKALB DKC65-63 (VT3)	182.5	185.8	242.1	174.1	177.1	192.3
DEKALB DKC66-96 (GENVT3P)	217.1	210.8	270.7	213.5	235.1	229.4
Delta Grow 2827	178.1	202.8	252.0	160.6	216.5	202.0
Delta Grow 3788	233.0	226.4	242.9	203.4	158.6	212.9
Delta Grow 3688	143.9	199.6	239.6	200.2	188.7	194.4

Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2010¹, continued.

Hybrid Name	Keiser	Marianna	Stuttgart	Rohwer	Bell Farm	Average
.....bu./A.....						
<u>Early- to Mid-Season Hybrids Continued</u>						
Dyna-Gro 57V21	193.5	217.4	252.5	186.2	204.8	210.9
Dyna-Gro 57V40	214.3	199.2	240.7	203.4	202.2	212.0
Dyna-Gro 57V59	180.4	205.8	220.2	164.3	194.9	193.1
Dyna-Gro 58V72	209.5	203.8	241.6	177.0	217.8	209.9
Dyna-Gro D55Q80	203.4	223.9	250.0	226.0	165.0	213.7
Dyna-Gro D56VP24	190.9	224.8	245.1	191.4	181.3	206.7
Dyna-Gro V5373VT3	193.5	214.7	246.8	211.1	182.9	209.8
Golden Acres 26V21	207.1	208.0	248.1	206.0	174.4	208.7
Golden Acres 26V31	190.1	212.4	258.9	184.9	218.1	212.9
Masters Choice MCT-812	221.8	200.4	236.1	187.3	209.5	211.0
M-Pride 0114X	213.9	209.9	260.8	212.9	192.3	218.0
M-Pride MP3110GT	197.9	215.0	254.1	183.0	206.3	211.3
M-Pride MP3139RR	222.6	222.6	275.2	210.3	231.1	232.4
M-Pride MP3150	252.5	217.8	261.7	214.9	162.8	221.9
M-Pride MP3151	205.4	195.6	245.6	180.0	189.4	203.2
M-Pride MP3194VT3	191.6	209.5	242.7	171.6	169.4	197.0
Pioneer 32D79 (HX1,LL,RR2)	159.8	198.3	235.7	164.8	205.0	192.7
Pioneer 33D49 (HX1,LL,RR2)	184.4	212.5	236.2	198.2	196.2	205.5
Pioneer P1184HR	189.3	206.5	249.9	172.8	199.3	203.6
Pioneer P1420HR	178.6	206.1	234.6	182.7	207.1	201.8
Pioneer P1615HR	189.9	214.0	257.1	191.4	193.4	209.2
REV25HR39	190.4	208.8	241.9	170.9	209.1	204.2
REV25HR49	225.1	201.5	236.8	174.7	186.6	204.9
REV25R19	186.0	223.0	232.4	189.5	204.4	207.1
REV25R29	180.1	194.2	218.5	173.1	185.4	190.3
REV26HR50	229.6	213.2	260.5	161.9	218.8	216.8
REV26HR70	191.9	222.9	240.1	124.3	193.3	194.5
REV26R60	190.0	196.1	247.0	193.6	207.8	206.9
Spirit Hybrids SP114-1GT3	213.2	194.5	243.7	154.3	181.8	197.5
Syngenta N68B-3000GT	161.1	199.5	237.1	192.0	185.2	195.0
Syngenta N72K-GT/CB/LL	215.1	210.8	239.1	176.7	186.1	205.6
Syngenta N77P-3000GT	161.1	208.6	238.7	181.1	187.1	195.3
Syngenta N78N-3000GT	170.2	185.2	239.7	176.6	180.4	190.4
Syngenta N78S-CB/LL	193.2	222.2	247.2	204.9	192.5	212.0
Triumph 7514S	200.2	220.4	244.0	194.4	171.1	206.0
GRAND MEAN	194.4	206.8	245.9	186.0	194.1	205.4
LSD (5%)	33.2	21.4	18.1	19.9	22.5	•
C.V.	12.3	7.4	5.3	7.7	8.3	•

Table 8. Yields of Irrigated Corn Hybrids in Arkansas Performance Tests, 2010¹, continued.

Hybrid Name	Keiser	Marianna	Stuttgart	Rohwer	Bell Farm	Average
bu./A.....					
<u>Mid- to Full-Season</u>						
AgriGold A6839	172.7	181.8	209.0	183.9	200.9	189.7
Armor 1868PRO	224.5	187.3	246.2	194.4	179.8	206.4
Armor BXG080GT	163.3	167.3	227.0	178.1	183.9	183.9
BH 8895VTTP	158.0	187.9	223.1	173.6	153.9	179.3
Croplan Genetics 8505VT3Pro	198.6	204.1	247.9	203.5	210.1	212.8
Croplan Genetics 8756VT3	239.6	173.2	232.1	217.4	169.0	206.3
DEKALB DKC67-88 (GENVT3P)	256.0	208.5	284.1	187.1	218.0	230.7
DEKALB DKC68-05 (GENVT3P)	182.5	202.3	243.1	208.6	192.9	205.9
Delta Grow 2888	190.4	167.5	221.4	181.8	174.1	187.0
Dyna-Gro 58V69	219.1	191.3	251.7	182.8	188.4	206.7
Dyna-Gro D57GT60	212.6	170.1	221.5	176.5	200.0	196.1
Dyna-Gro D58VP99	173.6	179.1	231.8	185.7	198.0	193.6
Golden Acres 27V01	144.3	200.0	230.7	199.6	170.9	189.1
Golden Acres 28V81	201.8	203.4	229.5	207.0	223.2	213.0
Pioneer 31D62 (YGCB,RR2)	199.6	179.5	240.5	201.1	209.4	206.0
Pioneer P1745HR	207.2	204.1	284.7	195.1	209.5	220.1
Pioneer P2023HR	188.7	191.1	252.2	191.7	195.5	203.8
REV28HR20	210.6	211.1	248.7	193.3	211.6	215.1
REV28HR29	171.3	179.6	251.5	158.3	212.2	194.6
REV28HR30	207.7	203.5	252.7	185.4	211.4	212.1
REV28R10	221.5	199.4	256.8	179.5	213.2	214.1
REV28R30	229.1	183.4	260.0	195.5	219.7	217.5
Triumph 1802V	231.8	184.0	224.7	211.8	176.9	205.8
GRAND MEAN	200.2	189.5	242.2	190.9	196.6	203.9
LSD (5%)	32.2	30.8	22.8	22.7	23.9	•
C.V.	11.4	9.9	6.7	8.4	8.6	•

¹ Keiser = Notheast Research and Extension Center.

Marianna = Lon Mann Cotton Research Station.

Stuttgart = Rice Research and Extension Center.

Rohwer = Southeast Research and Extension Center - Rohwer Division.

Bell Farm = Bell Farming Company, Prairie County.

Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Ear Height Inches	Plants Per Acre
<u>Early- to Mid-Season Hybrids</u>						
M-Pride MP3150	252.5	•	•	17.5	45	34733
DEKALB DKC64-69 (GENVT3P)	234.5	•	•	18.5	40	34647
Delta Grow 3788	233.0	•	•	17.4	43	34991
REV26HR50	229.6	226.1	•	17.6	43	30263
Croplan Genetics 6286VT3Pro	228.9	•	•	18.1	39	32670
REV25HR49	225.1	217.0	•	17.0	40	31208
M-Pride MP3139RR	222.6	•	•	16.8	43	33444
Masters Choice MCT-812	221.8	•	•	17.6	44	31380
Armor 1655PRO	218.3	•	•	17.1	45	31725
DEKALB DKC66-96 (GENVT3P)	217.1	•	•	16.8	36	34647
BH 8928VTTP	217.1	•	•	17.3	43	32584
Syngenta N72K-GT/CB/LL	215.1	•	•	16.7	45	29919
Dyna-Gro 57V40	214.3	189.4	•	16.8	36	34561
M-Pride 0114X	213.9	•	•	16.7	47	34304
Spirit Hybrids SP114-1GT3	213.2	•	•	17.6	40	28973
Croplan Genetics 6425VT3Pro	212.4	•	•	17.3	40	33530
BH X9150G	212.2	•	•	17.8	39	33616
Armor 1539PRO	211.9	•	•	17.7	41	31037
Dyna-Gro 58V72	209.5	223.9	•	18.2	44	34561
AgriGold A6479VT3	207.9	184.2	193.4	16.6	36	31724
AgriGold A6633VT3	207.9	196.9	204.1	16.9	39	32928
Golden Acres 26V21	207.1	•	•	17.8	45	33272
M-Pride MP3151	205.4	•	•	17.7	40	35335
DEKALB DKC61-05 (GENVT3P)	203.7	•	•	17.0	43	34647
Dyna-Gro D55Q80	203.4	•	•	17.6	45	32842
Armor BXT069GT	202.3	•	•	16.9	49	35851
Triumph 7514S	200.2	•	•	17.6	47	33444
M-Pride MP3110GT	197.9	•	•	17.0	45	33702
Armor 1415PRO	196.2	•	•	18.1	35	30091
Armor BXC028VT3	194.8	•	•	17.7	36	28715
AgriGold A6553VT3	194.3	•	•	17.4	28	32670
Dyna-Gro V5373VT3	193.5	187.9	•	17.6	35	32326
Dyna-Gro 57V21	193.5	200.4	206.6	18.6	38	33874
Syngenta N78S-CB/LL	193.2	•	•	16.9	39	29747
DEKALB DKC64-83 (GENVT3P)	192.6	•	•	17.6	38	33702
BH X10064VTTP	192.1	•	•	18.7	38	31987
REV26HR70	191.9	206.6	•	17.9	45	31037
M-Pride MP3194VT3	191.6	•	•	18.2	37	33358
Dyna-Gro D56VP24	190.9	•	•	17.7	35	33186
REV25HR39	190.4	188.6	•	17.0	42	30951
Golden Acres 26V31	190.1	•	•	17.2	41	36109
REV26R60	190.0	196.2	•	17.0	39	30091
Pioneer P1615HR	189.9	•	•	17.5	48	31295
Pioneer P1184HR	189.3	•	•	17.6	40	30779
DEKALB DKC63-84 (VT3)	187.4	197.6	•	17.1	41	35249

Arkansas Corn and Grain Sorghum Performance Tests 2010

Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Ear Height Inches	Plants Per Acre
<u>Early- to Mid-Season Hybrids Continued</u>						
REV25R19	186.0	•	•	16.9	46	30693
Armor BXC306PRO	185.1	•	•	16.6	42	30263
Armor 1262PRO2	184.6	•	•	17.6	40	31037
Pioneer 33D49 (HX1,LL,RR2)	184.4	194.2	•	17.1	35	31037
Armor 1161PRO	184.1	•	•	18.0	35	31552
DEKALB DKC65-63 (VT3)	182.5	•	•	16.2	40	34475
Croplan Genetics 7131VT3	180.7	188.4	•	18.0	36	30693
Dyna-Gro 57V59	180.4	•	•	16.2	32	33960
REV25R29	180.1	•	•	17.9	37	30005
AgriGold A6533VT3	180.1	171.2	•	18.2	35	33788
Armor 1511C	180.0	188.0	•	17.2	43	29231
BH X9085VT3	178.7	•	•	17.5	40	30865
Pioneer P1420HR	178.6	•	•	17.0	40	30263
Delta Grow 2827	178.1	•	•	16.9	43	31466
AgriGold A6489VT3	174.8	176.9	185.2	16.8	41	32756
Croplan Genetics 6725VT3Pro	172.5	•	•	17.4	38	31896
Armor 1457VT3	170.6	175.4	•	17.1	38	27856
Armor 1545PRO	170.4	•	•	18.5	37	27082
Syngenta N78N-3000GT	170.2	•	•	18.0	38	28801
AgriGold A6632VT3Pro	161.7	•	•	17.0	29	31553
Armor 1363PRO	161.5	•	•	17.9	35	28629
Syngenta N68B-3000GT	161.1	•	•	17.4	34	30263
Syngenta N77P-3000GT	161.1	•	•	17.7	41	30951
Pioneer 32D79 (HX1,LL,RR2)	159.8	•	•	17.3	41	29231
Armor 0909PRO	149.1	•	•	16.6	27	30091
Delta Grow 3688	143.9	•	•	17.5	41	29317
GRAND MEAN	194.4	•	•	17.4	40	31964
LSD (5%)	33.2	•	•	1.4	•	2429
C.V.	12.3	•	•	5.6	•	6
<u>Mid- to Full-Season</u>						
DEKALB DKC67-88 (GENVT3P)	256.0	•	•	19.2	46	35851
Croplan Genetics 8756VT3	239.6	241.9	•	18.2	47	33100
Triumph 1802V	231.8	238.6	241.9	18.9	40	33272
REV28R30	229.1	222.6	•	18.3	44	31295
Armor 1868PRO	224.5	•	•	17.5	47	31466
REV28R10	221.5	•	•	18.1	44	30177
Dyna-Gro 58V69	219.1	•	•	17.3	47	28629
Dyna-Gro D57GT60	212.6	•	•	16.8	44	33788
REV28HR20	210.6	206.5	•	18.1	42	30521
REV28HR30	207.7	•	•	18.5	37	30607

Table 9. Performance of Irrigated Corn Hybrids, Keiser, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Ear Height Inches	Plants Per Acre
<u>Mid- to Full-Season Continued</u>						
Pioneer P1745HR	207.2	•	•	18.1	46	31037
Golden Acres 28V81	201.8	•	•	17.8	44	33616
Pioneer 31D62 (YGCB,RR2)	199.6	•	•	17.3	40	31123
Croplan Genetics 8505VT3Pro	198.6	•	•	17.9	45	33530
Delta Grow 2888	190.4	•	•	16.7	40	30435
Pioneer P2023HR	188.7	207.0	•	17.5	40	30349
DEKALB DKC68-05 (GENVT3P)	182.5	•	•	17.4	38	33616
Dyna-Gro D58VP99	173.6	•	•	17.5	39	31724
AgriGold A6839	172.7	•	•	17.6	36	31380
REV28HR29	171.3	•	•	17.7	39	30435
Armor BXG080GT	163.3	•	•	17.6	39	30521
BH 8895VTTP	158.0	•	•	17.5	36	30951
Golden Acres 27V01	144.3	•	•	18.3	36	34476
GRAND MEAN	200.2	•	•	17.8	42	31822
LSD (5%)	32.2	•	•	1.1	•	1864
C.V.	11.4	•	•	4.5	•	4

¹ Average yield for 2009 and 2010.² Average yield for 2008,2009, and 2010.

Soil Series	Sharkey clay
Soil pH	6.6
Previous Crop	Soybean
Row Width	38"
Preplant Herbicide	Dual II Magnum, Atrazine, 4/21
Preplant Fertilizer	100-50-50, 4/16
Planting Date	4/19
Irrigation Dates	6/9, 6/15, 6/24, 6/27, 7/7, 7/27, 8/3, 8/11
Sidedress Fertilizer	230-0-0, 5/24
Herbicide Application(s)	Buctril + Atrazine + COC, 6/2
Insecticide Application(s)	Intrepid, 7/1, Intrepid, 7/14
Harvest Date	9/2

Precipitation (inches)

	April	May	June	July	August	Total
2010	2.7	9.4	1.0	3.5	0.1	16.6
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	-2.2	4.2	-3.1	-0.2	-2.8	-4.0

Arkansas Corn and Grain Sorghum Performance Tests 2010

Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root ³ Lodging	Stalk ³ Lodging	Ear Height Inches	Plants Per Acre
<u>Early- to Mid-Season Hybrids</u>								
DEKALB DKC64-69 (GENVT3P)	233.0	•	•	16.0	0.0	2.0	43	33955
Armor 1415PRO	226.5	•	•	15.2	0.0	0.0	40	32614
Delta Grow 3788	226.4	•	•	15.7	1.0	3.0	41	34178
Dyna-Gro D56VP24	224.8	•	•	14.5	0.0	5.0	38	34960
Dyna-Gro D55Q80	223.9	•	•	15.7	1.0	2.0	43	38199
REV25R19	223.0	•	•	14.6	0.0	0.0	40	33061
REV26HR70	222.9	217.1	•	14.9	0.0	0.0	54	33508
M-Pride MP3139RR	222.6	•	•	14.5	0.0	1.0	52	34736
Syngenta N78S-CB/LL	222.2	•	•	14.9	0.0	0.0	31	33173
Triumph 7514S	220.4	•	•	15.0	1.0	3.0	37	34736
M-Pride MP3150	217.8	•	•	15.7	1.0	1.0	40	35630
AgriGold A6633VT3	217.6	209.7	224.3	14.6	0.0	0.0	35	32056
Dyna-Gro 57V21	217.4	212.2	225.8	15.3	0.0	0.0	40	34848
Croplan Genetics 6286VT3Pro	216.7	•	•	15.1	0.0	1.0	37	32503
DEKALB DKC63-84 (VT3)	216.7	214.4	•	14.3	0.0	0.0	37	36635
Armor 1655PRO	215.9	•	•	15.0	0.0	1.0	44	32838
AgriGold A6632VT3Pro	215.1	•	•	14.7	0.0	0.0	31	33619
M-Pride MP3110GT	215.0	•	•	14.0	0.0	1.0	46	34513
Dyna-Gro V5373VT3	214.7	214.9	•	15.2	0.0	1.0	38	31944
Armor 1262PRO2	214.7	•	•	15.3	0.0	1.0	35	31944
Armor BXT069GT	214.4	•	•	14.7	0.0	2.0	48	34178
Pioneer P1615HR	214.0	•	•	15.0	0.0	0.0	42	32168
REV26HR50	213.2	212.5	•	15.7	0.0	1.0	38	31944
Pioneer 33D49 (HX1,LL,RR2)	212.5	211.5	•	14.9	0.0	0.0	39	32838
Golden Acres 26V31	212.4	•	•	14.3	0.0	0.0	35	37975
Croplan Genetics 6725VT3Pro	211.0	•	•	14.7	0.0	0.0	41	30604
Syngenta N72K-GT/CB/LL	210.8	•	•	13.6	0.0	2.0	38	32503
DEKALB DKC66-96 (GENVT3P)	210.8	•	•	14.6	0.0	0.0	32	36970
BH 8928VTTP	210.6	•	•	14.9	0.0	1.0	47	34401
Armor 1161PRO	210.2	•	•	15.0	0.0	0.0	32	32614
M-Pride 0114X	209.9	•	•	15.0	0.0	2.0	44	33955
M-Pride MP3194VT3	209.5	•	•	15.2	0.0	1.0	36	33173
AgriGold A6553VT3	209.2	•	•	16.0	0.0	0.0	35	33396
REV25HR39	208.8	211.9	•	14.6	0.0	0.0	41	32391
Syngenta N77P-3000GT	208.6	•	•	15.0	0.0	2.0	39	30045
Golden Acres 26V21	208.0	•	•	15.0	0.0	1.0	43	33731
Armor 1539PRO	207.1	•	•	15.5	0.0	1.0	35	31609
AgriGold A6489VT3	207.1	209.3	219.1	14.4	0.0	0.0	38	33619
Pioneer P1184HR	206.5	•	•	14.3	0.0	1.0	38	31832
Pioneer P1420HR	206.1	•	•	14.2	1.0	1.0	41	31944
Dyna-Gro 57V59	205.8	•	•	14.2	0.0	0.0	41	34625
DEKALB DKC64-83 (GENVT3P)	204.8	•	•	14.8	0.0	1.0	35	34513
Croplan Genetics 7131VT3	204.1	210.5	•	15.4	0.0	0.0	38	33396

Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹	3-Year ²	Grain		Stalk ³ Lodging	Ear Height Inches	Plants Per Acre
		Avg. bu./A	Avg. bu./A	Moisture %	Root ³ Lodging			
<u>Early- to Mid-Season Hybrids Continued</u>								
Dyna-Gro 58V72	203.8	205.2	•	16.0	0.0	0.0	43	32837
Delta Grow 2827	202.8	•	•	14.8	0.0	0.0	43	32838
Croplan Genetics 6425VT3Pro	202.7	•	•	14.4	0.0	0.0	50	34290
REV25HR49	201.5	201.7	•	14.3	0.0	1.0	44	32503
DEKALB DKC61-05 (GENVT3P)	201.4	•	•	14.4	0.0	0.0	34	36300
Masters Choice MCT-812	200.4	•	•	15.3	0.0	2.0	43	32838
Delta Grow 3688	199.6	•	•	14.6	0.0	0.0	45	31274
Syngenta N68B-3000GT	199.5	•	•	14.4	0.0	0.0	32	30827
Dyna-Gro 57V40	199.2	201.1	•	14.8	0.0	0.0	31	33508
AgriGold A6533VT3	199.2	194.8	•	15.0	0.0	0.0	33	33285
Pioneer 32D79 (HX1,LL,RR2)	198.3	•	•	15.3	0.0	0.0	45	33173
Armor 1545PRO	198.0	•	•	15.0	0.0	1.0	35	29375
Armor 1457VT3	197.0	196.0	•	15.6	0.0	0.0	45	27700
Armor 1511C	196.8	200.4	•	14.6	0.0	0.0	41	31721
REV26R60	196.1	211.5	•	14.5	1.0	0.0	36	31162
AgriGold A6479VT3	196.0	202.2	212.9	14.9	0.0	2.0	37	32614
M-Pride MP3151	195.6	•	•	14.5	0.0	1.0	39	33955
Spirit Hybrids SP114-1GT3	194.5	•	•	15.1	0.0	1.0	43	29375
Armor 1363PRO	194.4	•	•	14.0	0.0	1.0	37	29599
REV25R29	194.2	•	•	14.6	0.0	0.0	43	33061
Armor 0909PRO	193.2	•	•	13.9	0.0	0.0	29	30716
BH X9150G	193.0	•	•	14.7	0.0	1.0	39	33061
BH X10064VTTP	192.7	•	•	14.3	0.0	1.0	31	32949
DEKALB DKC65-63 (VT3)	185.8	•	•	14.7	0.0	1.0	32	36077
Syngenta N78N-3000GT	185.2	•	•	15.8	0.0	0.0	39	27700
Armor BXC306PRO	184.0	•	•	13.5	0.0	1.0	39	31944
Armor BXC028VT3	179.7	•	•	14.9	0.0	0.0	31	32503
BH X9085VT3	175.5	•	•	15.0	0.0	0.0	34	32391
GRAND MEAN	206.8	•	•	14.8	0.1	0.6	39	33009
LSD (5%)	21.4	•	•	0.7	•	•	•	2359
C.V.	7.4	•	•	3.6	•	•	•	5
<u>Mid- to Full-Season</u>								
REV28HR20	211.1	214.5	•	15.3	0.0	0.0	39	32316
DEKALB DKC67-88 (GENVT3P)	208.5	•	•	16.7	0.0	4.0	50	37976
Pioneer P1745HR	204.1	•	•	15.3	0.0	1.0	39	32912
Croplan Genetics 8505VT3Pro	204.1	•	•	14.9	0.0	0.0	38	34401
REV28HR30	203.5	•	•	17.0	0.0	1.0	45	31274
Golden Acres 28V81	203.4	•	•	14.9	0.0	0.0	38	35741
DEKALB DKC68-05 (GENVT3P)	202.3	•	•	14.7	0.0	0.0	42	35742
Golden Acres 27V01	200.0	•	•	14.5	0.0	2.0	37	34550

Arkansas Corn and Grain Sorghum Performance Tests 2010

Table 10. Performance of Irrigated Corn Hybrids, Marianna, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹	3-Year ²	Grain	Root ³ Lodging	Stalk ³ Lodging	Ear Height Inches	Plants Per Acre
		Avg. bu./A	Avg. bu./A	Moisture %				
<u>Mid- to Full-Season Continued</u>								
REV28R10	199.4	•	•	14.9	0.0	0.0	43	33210
Dyna-Gro 58V69	191.3	•	•	14.9	0.0	0.0	45	37827
Pioneer P2023HR	191.1	210.0	•	15.0	0.0	0.0	39	34997
BH 8895VTTP	187.9	•	•	14.3	0.0	6.0	37	29189
Armor 1868PRO	187.3	•	•	14.6	0.0	13.0	43	34848
Triumph 1802V	184.0	201.9	217.6	16.0	0.0	0.0	40	32316
REV28R30	183.4	204.1	•	15.5	0.0	0.0	46	33210
AgriGold A6839	181.8	•	•	15.2	0.0	0.0	34	32465
REV28HR29	179.6	•	•	16.3	0.0	0.0	43	33359
Pioneer 31D62 (YGCB,RR2)	179.5	•	•	15.0	0.0	0.0	44	33210
Dyna-Gro D58VP99	179.1	•	•	14.6	0.0	0.0	39	35741
Croplan Genetics 8756VT3	173.2	193.1	•	14.8	0.0	9.0	41	33061
Dyna-Gro D57GT60	170.1	•	•	15.1	0.0	1.0	39	35741
Delta Grow 2888	167.5	•	•	15.2	0.0	1.0	35	32167
Armor BXG080GT	167.3	•	•	14.9	0.0	1.0	33	31125
GRAND MEAN	189.5	•	•	15.2	0.0	1.7	40	33799
LSD (5%)	30.8	•	•	1.0	•	•	•	3751
C.V.	9.9	•	•	4.0	•	•	•	7

¹ Average yield for 2009 and 2010.

² Average yield for 2008, 2009, and 2010.

³ Average number of plants per variety.

Soil Series	Calloway silt loam
Soil pH	7.2
Previous Crop	Soybean
Row Width	30"
Preplant Herbicide	Parallel + Roundup + Atrazine, 4/14
Preplant Fertilizer	150-100-150, 3/8
Planting Date	4/13
Irrigation Dates	6/15, 6/21, 6/25, 6/30, 7/9, 7/21, 7/30, 8/5, 8/12
Sidedress Fertilizer	130-0-0, 5/12
Insecticide Application(s)	None
Harvest Date	8/30

Precipitation (inches)

2010 Average Departure	April	May	June	July	Total
	3.4	7.8	1.3	2.6	15.1
	5.4	5.2	3.4	4.0	18.0
	-2.0	2.6	-2.1	-1.4	-2.9

Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹	3-Year ²	Grain	Root ³	Stalk ³	Ear	Plants ⁵	
		Avg. bu./A	Avg. bu./A	Moisture %	Lodging	Lodging	Height Inches	Tip ⁴ Cover	Per Acre
<u>Early- to Mid-Season Hybrids</u>									
DEKALB DKC64-69 (GENVT3P)	282.7	•	•	13.2	0.0	1.0	48	1	40414
M-Pride MP3139RR	275.2	•	•	13.1	0.0	0.0	54	1	41140
AgriGold A6633VT3	271.2	266.6	250.5	13.2	0.0	0.0	51	1	39446
DEKALB DKC66-96 (GENVT3P)	270.7	•	•	12.5	0.0	0.0	46	1	43076
AgriGold A6533VT3	267.1	238.8	•	12.7	0.0	0.0	52	1	41866
DEKALB DKC64-83 (GENVT3P)	263.5	•	•	13.4	0.0	0.0	45	2	41261
M-Pride MP3150	261.7	•	•	13.7	0.0	0.0	55	1	42592
AgriGold A6553VT3	261.5	•	•	13.3	0.0	0.0	43	1	42108
M-Pride 0114X	260.8	•	•	12.7	0.0	1.0	62	1	41987
REV26HR50	260.5	261.3	•	14.2	1.0	1.0	53	1	37994
DEKALB DKC63-84 (VT3)	260.3	252.4	•	13.0	0.0	0.0	50	2	42229
BH X10064VTTP	259.6	•	•	12.7	0.0	0.0	50	1	39083
Golden Acres 26V31	258.9	•	•	12.4	0.0	3.0	48	1	44165
Pioneer P1615HR	257.1	•	•	13.2	0.0	0.0	62	1	39325
BH 8928VTTP	256.8	•	•	12.9	0.0	0.0	56	1	40777
Armor 1262PRO2	256.6	•	•	13.6	0.0	0.0	46	1	40656
Croplan Genetics 6725VT3Pro	255.2	•	•	13.0	0.0	1.0	51	1	38236
Croplan Genetics 6425VT3Pro	255.1	•	•	12.5	0.0	0.0	49	1	38720
Armor 1415PRO	254.3	•	•	12.9	0.0	1.0	48	1	37389
M-Pride MP3110GT	254.1	•	•	13.2	0.0	0.0	44	1	42108
AgriGold A6489VT3	253.1	241.5	232.3	13.1	0.0	0.0	49	2	39204
Armor 1161PRO	252.9	•	•	13.2	0.0	0.0	48	1	37752
Dyna-Gro 57V21	252.5	248.5	239.9	13.2	0.0	0.0	43	1	40535
Delta Grow 2827	252.0	•	•	12.0	0.0	0.0	55	1	38478
Armor 1655PRO	251.8	•	•	12.8	0.0	0.0	57	1	35937
Croplan Genetics 7131VT3	251.3	245.2	•	12.7	0.0	0.0	47	1	39325
Dyna-Gro D55Q80	250.0	•	•	13.6	0.0	2.0	55	1	41261
Pioneer P1184HR	249.9	•	•	12.4	0.0	0.0	57	1	38357
Armor 1539PRO	248.3	•	•	12.6	0.0	0.0	55	2	39083
Golden Acres 26V21	248.1	•	•	14.1	0.0	1.0	50	1	41503
Syngenta N78S-CB/LL	247.2	•	•	13.2	0.0	1.0	47	1	36663
REV26R60	247.0	240.6	•	12.7	0.0	1.0	51	1	38720
Dyna-Gro V5373VT3	246.8	252.8	•	14.1	0.0	1.0	50	1	40656
Armor BXC028VT3	246.7	•	•	13.1	0.0	1.0	54	1	38236
M-Pride MP3151	245.6	•	•	13.8	0.0	1.0	55	1	42834
Dyna-Gro D56VP24	245.1	•	•	12.8	0.0	2.0	48	1	37389
Triumph 7514S	244.0	•	•	14.2	0.0	0.0	52	1	39930
Spirit Hybrids SP114-1GT3	243.7	•	•	12.7	0.0	0.0	56	1	36905
AgriGold A6632VT3Pro	243.4	•	•	13.2	0.0	1.0	43	1	39809
Delta Grow 3788	242.9	•	•	15.4	0.0	0.0	56	1	40535
M-Pride MP3194VT3	242.7	•	•	15.7	0.0	0.0	50	1	39688
DEKALB DKC65-63 (VT3)	242.1	•	•	12.8	0.0	0.0	47	2	40414
REV25HR39	241.9	243.5	•	12.2	0.0	1.0	56	1	38841

Arkansas Corn and Grain Sorghum Performance Tests 2010

Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹	3-Year ²	Grain		Stalk ³ Lodging	Ear	Plants ⁵ Per Acre	
		Avg. bu./A	Avg. bu./A	Moisture %	Root ³ Lodging		Height Inches		Tip ⁴ Cover
<u>Early- to Mid-Season Hybrids Continued</u>									
Croplan Genetics 6286VT3Pro	241.8	•	•	13.3	0.0	0.0	52	2	38599
Dyna-Gro 58V72	241.6	254.2	•	12.9	0.0	1.0	54	1	40898
Dyna-Gro 57V40	240.7	230.6	•	12.7	0.0	1.0	44	1	40898
BH X9085VT3	240.3	•	•	13.6	0.0	0.0	46	2	37631
Armor BXT069GT	240.3	•	•	13.6	0.0	0.0	52	1	35332
REV26HR70	240.1	236.4	•	13.2	0.0	0.0	63	1	37752
Syngenta N78N-3000GT	239.7	•	•	15.4	0.0	0.0	48	1	33275
Delta Grow 3688	239.6	•	•	12.2	0.0	0.0	54	1	37510
Syngenta N72K-GT/CB/LL	239.1	•	•	12.9	0.0	0.0	55	1	39809
Syngenta N77P-3000GT	238.7	•	•	12.9	0.0	1.0	49	1	37994
BH X9150G	238.4	•	•	12.8	0.0	0.0	55	1	39204
Syngenta N68B-3000GT	237.1	•	•	12.1	0.0	0.0	43	1	36421
REV25HR49	236.8	244.1	•	13.0	0.0	1.0	58	1	36421
Pioneer 33D49 (HX1,LL,RR2)	236.2	247.1	•	14.3	0.0	1.0	52	1	39325
Masters Choice MCT-812	236.1	•	•	13.5	0.0	0.0	54	1	37026
Pioneer 32D79 (HX1,LL,RR2)	235.7	•	•	13.2	0.0	0.0	63	1	38841
Pioneer P1420HR	234.6	•	•	13.3	0.0	1.0	55	1	37752
AgriGold A6479VT3	234.0	226.9	219.4	12.4	0.0	2.0	50	2	39446
DEKALB DKC61-05 (GENVT3P)	233.8	•	•	12.6	0.0	0.0	45	1	37631
Armor 0909PRO	233.6	•	•	12.9	0.0	1.0	44	1	36784
Armor 1511C	233.2	236.3	•	13.0	0.0	1.0	57	1	36633
REV25R19	232.4	•	•	12.4	0.0	1.0	61	1	39688
Armor 1545PRO	221.7	•	•	14.1	0.0	2.0	42	1	37268
Armor 1457VT3	221.2	236.1	•	14.1	0.0	0.0	49	1	34485
Dyna-Gro 57V59	220.2	•	•	12.6	0.0	1.0	43	1	39325
REV25R29	218.5	•	•	12.4	0.0	0.0	54	1	38720
Armor 1363PRO	214.3	•	•	12.4	0.0	0.0	40	1	36633
Armor BXC306PRO	206.5	•	•	11.6	0.0	0.0	50	1	36421
GRAND MEAN	245.9	•	•	13.1	0.0	0.5	51	1	39075
LSD (5%)	18.1	•	•	1.0	•	•	•	•	2859
C.V.	5.3	•	•	5.7	•	•	•	•	5

Mid- to Full-Season

Pioneer P1745HR	284.7	•	•	13.9	0.0	0.0	56	1	38357
DEKALB DKC67-88 (GENVT3P)	284.1	•	•	15.3	0.0	1.0	64	1	40656
REV28R30	260.0	265.0	•	15.4	0.0	0.0	57	1	37752
REV28R10	256.8	•	•	13.7	0.0	0.0	55	1	37631
REV28HR30	252.7	•	•	15.8	0.0	0.0	61	2	36300
Pioneer P2023HR	252.2	273.2	•	13.1	0.0	0.0	56	1	37631
Dyna-Gro 58V69	251.7	•	•	13.7	0.0	0.0	62	1	37873
REV28HR29	251.5	•	•	15.3	0.0	0.0	58	1	38720

Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹	3-Year ²	Grain	Root ³ Lodging	Stalk ³ Lodging	Ear		Plants ⁵ Per Acre
		Avg. bu./A	Avg. bu./A	Moisture %			Height Inches	Tip ⁴ Cover	
<u>Mid- to Full-Season Continued</u>									
REV28HR20	248.7	271.3	•	13.2	0.0	0.0	57	1	37873
Croplan Genetics 8505VT3Pro	247.9	•	•	13.1	0.0	1.0	49	1	38962
Armor 1868PRO	246.2	•	•	13.3	0.0	0.0	61	1	37389
DEKALB DKC68-05 (GENVT3P)	243.1	•	•	14.2	0.0	0.0	52	1	40777
Pioneer 31D62 (YGCB,RR2)	240.5	•	•	13.7	0.0	1.0	51	2	37510
Croplan Genetics 8756VT3	232.1	255.8	•	13.5	0.0	0.0	54	1	40051
Dyna-Gro D58VP99	231.8	•	•	12.4	0.0	0.0	52	1	38599
Golden Acres 27V01	230.7	•	•	13.2	0.0	1.0	55	1	40535
Golden Acres 28V81	229.5	•	•	13.1	0.0	0.0	56	1	40051
Armor BXG080GT	227.0	•	•	13.1	0.0	1.0	54	1	34848
Triumph 1802V	224.7	252.6	230.0	13.5	0.0	0.0	60	1	38236
BH 8895VTTP	223.1	•	•	13.8	0.0	1.0	56	1	38357
Dyna-Gro D57GT60	221.5	•	•	13.7	0.0	1.0	59	1	37147
Delta Grow 2888	221.4	•	•	13.3	0.0	1.0	53	1	35574
AgriGold A6839	209.0	•	•	13.5	0.0	1.0	54	1	38720
GRAND MEAN	242.2	•	•	13.8	0.0	0.3	56	1	38241
LSD (5%)	22.8	•	•	0.7	•	•	•	•	3660
C.V.	6.7	•	•	3.7	•	•	•	•	7

¹ Average yield for 2009 and 2010.² Average yield for 2008, 2009, and 2010.³ Average number of plants per variety.⁴ Tip cover was rated as good (1), average (2), or poor (3). A rating of good was given when husks reached well beyond the end of the ear and fitted tightly. A rating of average was given when the husks reached the tip of the ear or fitted loosely. A rating of poor was given when ears were open to the weather.⁵ During seed packaging, 10 percent more seed was added to the recommended rate for 20 row feet to ensure adequate stands. The plots were inadvertently planted at 18 feet and as a result, the plant populations are higher than intended.

Soil Series	Crowley silt loam
Soil pH	6.0
Previous Crop	Soybean
Row Width	30"
Preplant Herbicide	Bicep II Magnum, 4/16
Preplant Fertilizer	103-92-90 + sulfur + zinc
Planting Date	4/14
Irrigation Dates	6/1, 6/8, 6/15, 6/22, 7/8, 7/21, 8/4
Sidedress Fertilizer	92-0-0, 5/13, 5/25
Herbicide Application(s)	Permit, 5/21
Insecticide Application(s)	Intrepid + Mustang Max, 6/24, Mustang Max, 7/10
Harvest Date	8/25

Precipitation (inches)

	April	May	June	July	August	Total
2010	4.5	11.5	3.1	11.3	4.9	35.2
Average	5.6	4.7	3.6	3.4	2.8	20.1
Departure	-1.1	6.8	-0.5	7.9	2.1	15.1

Arkansas Corn and Grain Sorghum Performance Tests 2010

Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root ³ Lodging	Stalk ³ Lodging	Ear Height Inches	Plants Per Acre
<u>Early- to Mid-Season Hybrids</u>								
Dyna-Gro D55Q80	226.0	•	•	17.0	0.0	0.0	55	35421
AgriGold A6533VT3	225.7	221.3	•	15.7	1.0	0.0	44	36109
Armor 1655PRO	219.8	•	•	16.6	0.0	0.0	52	33358
BH X10064VTTP	215.2	•	•	15.3	0.0	1.0	45	32584
M-Pride MP3150	214.9	•	•	18.0	1.0	0.0	48	34820
DEKALB DKC66-96 (GENVT3P)	213.5	•	•	14.4	0.0	0.0	46	33960
BH X9085VT3	213.2	•	•	15.9	0.0	0.0	45	31982
M-Pride 0114X	212.9	•	•	14.9	0.0	0.0	55	33960
Dyna-Gro V5373VT3	211.1	229.3	•	16.3	0.0	0.0	48	31552
M-Pride MP3139RR	210.3	•	•	15.3	0.0	0.0	53	33014
AgriGold A6633VT3	209.1	230.5	220.3	17.3	0.0	0.0	45	31381
Croplan Genetics 6425VT3Pro	208.6	•	•	15.0	0.0	0.0	49	31810
BH 8928VTTP	206.5	•	•	16.1	0.0	0.0	52	33186
Golden Acres 26V21	206.0	•	•	16.9	0.0	0.0	46	30435
Syngenta N78S-CB/LL	204.9	•	•	16.7	0.0	0.0	45	28199
Dyna-Gro 57V40	203.4	208.4	•	15.1	0.0	0.0	46	35078
Delta Grow 3788	203.4	•	•	18.2	0.0	0.0	54	33272
DEKALB DKC64-83 (GENVT3P)	202.5	•	•	16.0	0.0	1.0	47	33530
Delta Grow 3688	200.2	•	•	14.4	0.0	0.0	51	29403
Armor BXC028VT3	199.0	•	•	15.8	1.0	0.0	44	30263
BH X9150G	198.4	•	•	16.7	0.0	0.0	53	34304
Pioneer 33D49 (HX1,LL,RR2)	198.2	234.9	•	16.2	0.0	0.0	51	31638
Armor BXT069GT	195.4	•	•	16.0	0.0	0.0	55	31466
AgriGold A6632VT3Pro	195.3	•	•	15.8	0.0	0.0	42	30693
Armor 1262PRO2	194.9	•	•	15.5	0.0	0.0	45	28715
Triumph 7514S	194.4	•	•	17.7	0.0	0.0	46	32412
REV26R60	193.6	212.0	•	15.7	0.0	0.0	46	28457
Armor 1161PRO	193.3	•	•	14.9	1.0	0.0	49	30693
DEKALB DKC64-69 (GENVT3P)	192.4	•	•	15.4	1.0	0.0	46	36281
Syngenta N68B-3000GT	192.0	•	•	14.5	0.0	0.0	41	28457
Armor 0909PRO	192.0	•	•	13.8	0.0	0.0	41	28543
Dyna-Gro D56VP24	191.4	•	•	16.1	0.0	1.0	47	29919
Pioneer P1615HR	191.4	•	•	16.7	0.0	0.0	54	29403
REV25R19	189.5	•	•	14.4	0.0	0.0	53	29919
DEKALB DKC63-84 (VT3)	188.5	211.6	•	15.4	1.0	0.0	50	37055
Armor 1415PRO	188.5	•	•	15.5	1.0	0.0	48	30005
Masters Choice MCT-812	187.3	•	•	18.6	0.0	0.0	50	30263
AgriGold A6533VT3	186.4	•	•	16.0	0.0	1.0	43	28887
Dyna-Gro 57V21	186.2	206.7	218.2	16.6	1.0	0.0	50	30693
Golden Acres 26V31	184.9	•	•	16.0	0.0	0.0	47	38344
M-Pride MP3110GT	183.0	•	•	14.8	1.0	0.0	50	34046
Pioneer P1420HR	182.7	•	•	14.3	0.0	0.0	53	26824
Syngenta N77P-3000GT	181.1	•	•	17.2	0.0	0.0	47	33014
M-Pride MP3151	180.0	•	•	15.8	0.0	0.0	50	33014
Croplan Genetics 7131VT3	179.8	210.9	•	17.5	0.0	0.0	45	31982

Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹	3-Year ²	Grain		Stalk ³ Lodging	Ear	Plants Per Acre
		Avg. bu./A	Avg. bu./A	Moisture %	Root ³ Lodging		Height Inches	
<u>Early- to Mid-Season Hybrids Continued</u>								
Dyna-Gro 58V72	177.0	208.6	•	16.8	0.0	0.0	51	32928
Syngenta N72K-GT/CB/LL	176.7	•	•	13.9	0.0	1.0	49	31552
Syngenta N78N-3000GT	176.6	•	•	18.5	0.0	0.0	43	28629
REV25HR49	174.7	194.7	•	14.9	1.0	0.0	51	30521
DEKALB DKC65-63 (VT3)	174.1	•	•	14.7	1.0	0.0	49	33100
REV25R29	173.1	•	•	15.5	0.0	0.0	50	28715
Pioneer P1184HR	172.8	•	•	16.2	0.0	0.0	53	31208
AgriGold A6489VT3	172.1	196.8	210.7	15.0	0.0	0.0	46	32584
M-Pride MP3194VT3	171.6	•	•	17.8	0.0	0.0	45	34046
REV25HR39	170.9	198.8	•	14.8	0.0	0.0	54	30177
Armor 1539PRO	170.0	•	•	15.9	0.0	0.0	50	31208
Armor 1363PRO	169.1	•	•	14.4	0.0	0.0	46	26566
Armor 1511C	168.8	189.6	•	14.9	0.0	0.0	49	28371
Croplan Genetics 6286VT3Pro	168.2	•	•	14.7	0.0	0.0	50	32498
Croplan Genetics 6725VT3Pro	165.3	•	•	15.1	0.0	0.0	50	30349
Pioneer 32D79 (HX1,LL,RR2)	164.8	•	•	15.6	0.0	0.0	52	29575
Dyna-Gro 57V59	164.3	•	•	14.7	0.0	0.0	45	32412
REV26HR50	161.9	211.2	•	17.1	0.0	0.0	52	28028
Delta Grow 2827	160.6	•	•	15.1	0.0	0.0	53	31639
Armor 1545PRO	155.3	•	•	17.1	0.0	0.0	46	25792
AgriGold A6479VT3	155.0	185.0	192.2	14.8	0.0	0.0	45	29661
DEKALB DKC61-05 (GENVT3P)	154.7	•	•	14.8	0.0	0.0	42	31122
Spirit Hybrids SP114-1GT3	154.3	•	•	15.8	0.0	0.0	54	25878
Armor BXC306PRO	146.4	•	•	13.0	0.0	1.0	44	30263
Armor 1457VT3	137.2	173.5	•	17.9	0.0	0.0	48	24761
REV26HR70	124.3	171.0	•	16.0	0.0	0.0	54	30951
GRAND MEAN	186.0	•	•	15.8	0.1	0.1	48	31280
LSD (5%)	19.9	•	•	1.1	•	•	•	4008
C.V.	7.7	•	•	4.9	•	•	•	9

Mid- to Full-Season

Croplan Genetics 8756VT3	217.4	230.1	•	16.6	0.0	0.0	55	31725
Triumph 1802V	211.8	220.7	210.4	17.4	0.0	0.0	52	30091
DEKALB DKC68-05 (GENVT3P)	208.6	•	•	16.1	0.0	0.0	47	35679
Golden Acres 28V81	207.0	•	•	15.9	0.0	0.0	53	31638
Croplan Genetics 8505VT3Pro	203.5	•	•	15.5	0.0	0.0	52	30865
Pioneer 31D62 (YGCB,RR2)	201.1	•	•	16.5	0.0	0.0	49	30607
Golden Acres 27V01	199.6	•	•	15.5	0.0	1.0	46	34647
REV28R30	195.5	221.9	•	17.8	0.0	0.0	54	29575
Pioneer P1745HR	195.1	•	•	16.9	0.0	0.0	50	29403
Armor 1868PRO	194.4	•	•	17.5	0.0	0.0	56	31724

Table 12. Performance of Irrigated Corn Hybrids, Rohwer, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹	3-Year ²	Grain	Root ³ Lodging	Stalk ³ Lodging	Ear Height Inches	Plants Per Acre
		Avg. bu./A	Avg. bu./A	Moisture %				
<u>Mid- to Full-Season Continued</u>								
REV28HR20	193.3	230.9	•	16.9	0.0	0.0	50	30349
Pioneer P2023HR	191.7	232.5	•	16.7	0.0	0.0	46	28544
DEKALB DKC67-88 (GENVT3P)	187.1	•	•	18.3	0.0	0.0	52	31552
Dyna-Gro D58VP99	185.7	•	•	14.3	0.0	0.0	46	30865
REV28HR30	185.4	•	•	19.3	0.0	0.0	53	29403
AgriGold A6839	183.9	•	•	16.7	0.0	0.0	50	30607
Dyna-Gro 58V69	182.8	•	•	18.3	0.0	0.0	52	29747
Delta Grow 2888	181.8	•	•	16.4	0.0	0.0	51	31810
REV28R10	179.5	•	•	17.8	0.0	0.0	49	30864
Armor BXG080GT	178.1	•	•	16.4	0.0	0.0	51	31896
Dyna-Gro D57GT60	176.5	•	•	16.1	0.0	0.0	51	32756
BH 8895VTTP	173.6	•	•	15.5	0.0	0.0	47	30521
REV28HR29	158.3	•	•	19.0	0.0	0.0	53	28543
GRAND MEAN	190.9	•	•	16.8	0.0	0.0	51	31018
LSD (5%)	22.7	•	•	1.0	•	•	•	3336
C.V.	8.4	•	•	4.0	•	•	•	8

¹ Average yield for 2009 and 2010.

² Average yield for 2008, 2009, and 2010.

³ Average number of plants per variety.

Soil Series Sharkey Desha silt loam
 Previous Crop Soybean
 Row Width 38"
 Preplant Herbicide Atrazine + Dual, 4/16
 Preplant Fertilizer 0-0-150, 4/13
 Planting Date 4/13
 Irrigation Dates 6/15, 6/25, 7/1, 7/8
 Sidedress Fertilizer 124-0-0, 4/28, 5/24
 Herbicide Application(s) None
 Insecticide Application(s) None
 Harvest Date Early- to Mid-Season, 8/19
 Mid- to Full-Season, 8/20

Precipitation (inches)

	April	May	June	July	August	Total
2010	3.8	2.2	1.7	3.8	2.1	13.6
Average	5.0	4.7	3.5	3.9	2.7	19.8
Departure	-1.3	-2.5	-1.8	-0.1	-0.6	-6.2

Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Company, Des Arc, Ark., 2010.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	Grain Moisture %	Stalk ² Lodging	Ear Height Inches	Tip ³ Cover	Plants ⁴ Per Acre
<u>Early- to Mid-Season Hybrids</u>							
DEKALB DKC66-96 (GENVT3P)	235.1	•	12.6	1.0	43	1	40704
M-Pride MP3139RR	231.1	•	13.1	3.0	49	1	39990
REV26HR50	218.8	201.1	13.9	4.0	47	2	38085
Golden Acres 26V31	218.1	•	12.7	6.0	42	1	44750
Dyna-Gro 58V72	217.8	211.5	13.5	4.0	47	1	41775
Delta Grow 2827	216.5	•	12.8	2.0	47	1	38918
Armor 1655PRO	216.4	•	13.1	3.0	53	1	38442
BH 8928VTTP	212.2	•	13.0	3.0	50	1	37609
Masters Choice MCT-812	209.5	•	13.5	6.0	47	2	38323
REV25HR39	209.1	208.3	13.0	2.0	47	1	36181
DEKALB DKC63-84 (VT3)	208.5	205.2	12.2	5.0	43	1	40942
REV26R60	207.8	203.7	12.7	1.0	46	1	36895
Pioneer P1420HR	207.1	•	12.6	2.0	49	1	38680
M-Pride MP3110GT	206.3	•	12.1	3.0	44	1	41180
Pioneer 32D79 (HX1,LL,RR2)	205.0	•	12.9	1.0	46	2	40108
Dyna-Gro 57V21	204.8	199.0	12.9	3.0	42	1	38680
Armor 1161PRO	204.8	•	12.7	5.0	43	1	36062
REV25R19	204.4	•	12.9	2.0	52	1	37728
BH X10064VTTP	203.6	•	12.9	3.0	42	1	39752
Croplan Genetics 6286VT3Pro	203.1	•	12.7	5.0	47	2	39156
Dyna-Gro 57V40	202.2	199.5	12.9	5.0	42	1	40109
AgriGold A6533VT3	200.4	191.3	12.5	2.0	41	1	39038
Croplan Genetics 6425VT3Pro	200.2	•	11.8	7.0	46	1	38085
Armor 1262PRO2	199.8	•	13.0	3.0	43	1	38561
Armor BXT069GT	199.4	•	12.4	2.0	49	2	37014
Pioneer P1184HR	199.3	•	12.2	1.0	50	1	36419
AgriGold A6553VT3	198.9	•	13.7	3.0	43	1	39395
Armor 1511C	197.0	198.4	12.8	1.0	43	1	38561
Pioneer 33D49 (HX1,LL,RR2)	196.2	199.0	13.0	1.0	45	1	37252
AgriGold A6489VT3	195.7	196.4	12.6	3.0	43	1	39632
Armor 1539PRO	195.2	•	12.7	3.0	47	2	37847
Dyna-Gro 57V59	194.9	•	12.1	3.0	42	2	39276
Armor BXC028VT3	194.8	•	12.9	2.0	42	1	37490
Armor 1415PRO	194.4	•	12.6	1.0	42	2	37252
Pioneer P1615HR	193.4	•	12.9	2.0	53	1	38204
REV26HR70	193.3	194.1	12.8	1.0	51	1	37252
AgriGold A6633VT3	192.9	193.2	12.6	2.0	41	1	39037
Syngenta N78S-CB/LL	192.5	•	12.8	6.0	48	1	38799
M-Pride 0114X	192.3	•	12.3	9.0	51	1	40704
Armor BXC306PRO	190.9	•	11.7	3.0	44	1	37966
DEKALB DKC64-83 (GENVT3P)	190.1	•	13.6	6.0	40	1	39871
Croplan Genetics 7131VT3	190.0	192.5	12.8	2.0	37	1	39276
M-Pride MP3151	189.4	•	13.3	11.0	50	1	41418
Delta Grow 3688	188.7	•	12.1	2.0	46	1	35705
Armor 1363PRO	188.2	•	12.1	2.0	40	2	33920

Arkansas Corn and Grain Sorghum Performance Tests 2010

Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Company, Des Arc, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	Grain Moisture %	Stalk ² Lodging	Ear Height Inches	Tip ³ Cover	Plants ⁴ Per Acre
<u>Early- to Mid-Season Hybrids Continued</u>							
DEKALB DKC64-69 (GENVT3P)	188.1	•	12.1	14.0	42	1	40585
Armor 0909PRO	187.6	•	12.1	2.0	41	1	36657
Syngenta N77P-3000GT	187.1	•	12.7	7.0	41	1	39275
REV25HR49	186.6	197.4	12.6	2.0	43	1	39275
AgriGold A6479VT3	186.5	188.6	12.0	4.0	45	1	38918
Croplan Genetics 6725VT3Pro	186.2	•	12.7	6.0	44	1	37966
Syngenta N72K-GT/CB/LL	186.1	•	11.7	5.0	50	1	39871
REV25R29	185.4	•	12.9	2.0	49	2	37014
Syngenta N68B-3000GT	185.2	•	12.1	2.0	41	1	36895
BH X9150G	184.5	•	12.9	4.0	46	1	39276
AgriGold A6632VT3Pro	183.7	•	12.6	5.0	36	1	37609
BH X9085VT3	183.5	•	13.0	2.0	37	1	36538
DEKALB DKC61-05 (GENVT3P)	183.2	•	12.2	4.0	37	1	40347
Dyna-Gro V5373VT3	182.9	189.2	13.8	13.0	43	1	41299
Armor 1457VT3	182.4	182.3	13.3	0.0	46	1	35348
Spirit Hybrids SP114-1GT3	181.8	•	12.8	2.0	53	1	35229
Dyna-Gro D56VP24	181.3	•	11.8	19.0	41	1	38918
Syngenta N78N-3000GT	180.4	•	14.2	1.0	39	1	34872
DEKALB DKC65-63 (VT3)	177.1	•	11.6	5.0	40	1	40942
Golden Acres 26V21	174.4	•	13.2	18.0	42	1	40466
Triumph 7514S	171.1	•	13.9	6.0	46	1	40228
M-Pride MP3194VT3	169.4	•	14.3	18.0	49	1	41061
Armor 1545PRO	168.0	•	13.4	6.0	43	1	34039
Dyna-Gro D55Q80	165.0	•	14.6	19.0	51	1	42608
M-Pride MP3150	162.8	•	14.3	16.0	45	1	39990
Delta Grow 3788	158.6	•	13.5	17.0	44	1	40585
GRAND MEAN	194.1	•	12.8	4.8	45	1	38702
LSD (5%)	22.5	•	0.6	5.2	•	•	2459
C.V.	8.3	•	3.2	•	•	•	5
<u>Mid- to Full-Season</u>							
Golden Acres 28V81	223.2	•	13.4	5.0	53	1	39990
REV28R30	219.7	232.6	15.7	2.0	56	1	37014
DEKALB DKC67-88 (GENVT3P)	218.0	•	14.6	8.0	48	1	40109
REV28R10	213.2	•	13.8	3.0	50	1	37252
REV28HR29	212.2	•	14.4	1.0	49	1	37371
REV28HR20	211.6	217.3	14.0	1.0	50	1	39751
REV28HR30	211.4	•	16.6	2.0	51	1	36300
Croplan Genetics 8505VT3Pro	210.1	•	13.7	5.0	51	1	39394
Pioneer P1745HR	209.5	•	14.1	1.0	55	1	38918
Pioneer 31D62 (YGCB,RR2)	209.4	•	13.1	2.0	53	1	37966

Table 13. Performance of Irrigated Corn Hybrids, Bell Farming Company, Des Arc, Ark., 2010, continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	Grain Moisture %	Stalk ² Lodging	Ear Height Inches	Tip ³ Cover	Plants ⁴ Per Acre
<u>Mid- to Full-Season Continued</u>							
AgriGold A6839	200.9	•	14.0	2.0	47	1	38918
Dyna-Gro D57GT60	200.0	•	13.5	7.0	48	1	39633
Dyna-Gro D58VP99	198.0	•	13.0	3.0	45	1	39395
Pioneer P2023HR	195.5	209.8	12.9	4.0	47	1	36419
DEKALB DKC68-05 (GENVT3P)	192.9	•	14.1	5.0	48	1	42370
Dyna-Gro 58V69	188.4	•	13.7	13.0	53	1	40109
Armor BXG080GT	183.9	•	13.3	9.0	43	1	39633
Armor 1868PRO	179.8	•	13.6	11.0	54	1	37728
Triumph 1802V	176.9	198.4	14.4	3.0	53	2	39752
Delta Grow 2888	174.1	•	13.6	7.0	51	1	37609
Golden Acres 27V01	170.9	•	12.2	19.0	50	1	39871
Croplan Genetics 8756VT3	169.0	193.3	15.2	4.0	51	1	39395
BH 8895VTTP	153.9	•	12.7	21.0	46	1	36776
GRAND MEAN	196.6	•	13.9	5.8	50	1	38768
LSD (5%)	23.9	•	0.7	6.3	•	•	2729
C.V.	8.6	•	3.3	•	•	•	5

¹ Average yield for 2009 and 2010.

² Average number of plants per variety.

³ Tip cover was rated as good (1), average (2), or poor (3). A rating of good was given when husks reached well beyond the end of the ear and fitted tightly.

A rating of average was given when the husks reached the tip of the ear or fitted loosely. A rating of poor was given when ears were open to the weather.

⁴ During seed packaging, 10 percent more seed was added to the recommended rate for 20 row feet to ensure adequate stands. The plots were inadvertently planted at 18 feet and as a result, the plant populations are higher than intended.

Soil Series	Calhoun silt Loam
Soil pH	7.5
Previous Crop	Soybean
Row Width	30"
Preplant Herbicide	Roundup + Resolve, 3/4
Preplant Fertilizer	Chicken Litter 128-124-133 + Potash 0-0-75 + 85 Lb of DAP + 150 Lb of Am. Sulfate + 100 Lb of urea
Planting Date	4/13
Irrigation Dates	5-31, 6-10, 6-17, 6-23, 6-30, 7-7, 7-20, 7-29
Sidedress Fertilizer	75 units of Nitrogen as 28% N and 100 Lb of urea
Herbicide Application(s)	Degree Extra + Atrazine, 4/22
Fungicide Application(s)	Headline, 6/23
Harvest Date	8/24

Precipitation (inches)

2010

May	June	July	August	Total
6.4	0.8	3.0	0.8	11.0

Participants and Entries
2010 Grain Sorghum Tests

Company

Crop Production Services

1673 N. U.S. Hwy. 61
Portageville, MO 63873

Golden Acres Genetics

P.O. Box 579
Buchanan Dam, TX 78609

Monsanto Co.

800 N. Lindbergh Blvd.
St. Louis, MO 63167

Pioneer Hi-Bred International, Inc.

700 Boulevard South, Suite 302
Huntsville, AL 35802

Syngenta Seed, Inc.

11055 Wayzata Blvd.
Minnetonka, MN 55305-1526

Terral Seed, Inc.

P.O. Box 826
Lake Providence, LA 71254

Triumph Seed Company, Inc.

P.O. Box 1050
Ralls, TX 79357

Hybrids

Dyna-Gro 771B
Dyna-Gro 772B
Dyna-Gro 780B

Golden Acres 3566
Golden Acres 3696

DEKALB DKS44-20
DEKALB DKS49-45
DEKALB DKS53-67
DEKALB DKS54-00
DEKALB DKS54-03

Pioneer 84G62
Pioneer 83P17

Syngenta 5556
Syngenta 5464
Syngenta 5308

Terral TV9421
Terral TV96H81
Terral TV96H91
Terral TV96H95

Triumph TR82-G

Participants and Entries
2010 Corn Tests

Company

AgriGold

5381 Akin Rd.
St. Francisville, IL 62460

Belle Southern Hybrids

P.O. Box 178 HWY 49
Fisher, AR 72429

B-H Genetics

5933 FM1157
Ganado, TX 77962

Crop Production Services

1673 N. U.S. Hwy. 61
Portageville, MO 63873

Delta Grow Seed

P.O. Box 219
England, AR 72046

Hybrids

AgriGold A6479VT3
AgriGold A6489VT3
AgriGold A6553VT3
AgriGold A6533VT3
AgriGold A6632VT3Pro
AgriGold A6633VT3
AgriGold A6839

Armor 0909PRO
Armor 1161PRO
Armor 1363PRO
Armor 1457VT3
Armor 1545PRO
Armor 1511C
Armor 1655PRO
Armor 1868PRO
Armor 1415PRO
Armor BXC306PRO
Armor 1539PRO
Armor BXT069GT
Armor BXC028VT3
Armor BXG080GT
Armor 1262PRO

BH 8895VTTP
BH 8928VTTP
BH X9150G
BH X9085VT3
BH X10064VTTP

Dyna-Gro 57V40
Dyna-Gro V5373VT3
Dyna-Gro 57V59
Dyna-Gro 57V21
Dyna-Gro D56VP24
Dyna-Gro 58V72
Dyna-Gro 58V69
Dyna-Gro D58VP99
Dyna-Gro D55Q80
Dyna-Gro D57GT60

Delta Grow 3788
Delta Grow 2888
Delta Grow 3688
Delta Grow 2827

continued on next page...

Company

Golden Acres Genetics
P.O. Box 579
Buchanan Dam, TX 78609

Masters Choice
3010 ST. RT. 146 E.
Anna, IL 62906

Monsanto
800 N.Lindbergh Blvd.
St. Louis, MO 63167

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

Pioneer Hi-Bred International, Inc.
700 Boulevard South, Suite 302
Huntsville, AL 35802

Schillinger Genetics, Inc.
4401 Westown Pkwy, Suite 225
West Des Moines, IA 50266

Syngenta Seeds
27 Kelly Court
Cabot, AR 72023

Hybrids

Golden Acres 26V21
Golden Acres 26V31
Golden Acres 27V01
Golden Acres 28V81

Masters Choice MCT-812

DEKALB DKC61-05 (GENVT3P)
DEKALB DKC63-84 (VT3)
DEKALB DKC64-69 (GENVT3P)
DEKALB DKC64-83 (GENVT3P)
DEKALB DKC65-63 (VT3)
DEKALB DKC66-96 (GENVT3P)
DEKALB DKC67-88 (GENVT3P)
DEKALB DKC68-05 (GENVT3P)

M-Pride MP3151
M-Pride MP3150
M-Pride MP3194VT3
M-Pride 0114X
M-Pride MP3139RR
M-Pride MP3110GT

Pioneer P1184HR
Pioneer P1420HR
Pioneer 33D49 (HX1/LL/RR2)
Pioneer 32D79 (HX1/LL/RR2)
Pioneer P1615HR
Pioneer P1745HR
Pioneer P2023HR
Pioneer 31D62 (YGCB,RR2)

Spirit Hybrids SP114-1GT3

Syngenta N68B-3000GT
Syngenta N77P-3000GT
Syngenta N78S-CB/LL
Syngenta N78N-3000GT
Syngenta N72K-GT/CB/LL

Company

Terral Seed, Inc.

P.O. Box 826
Lake Providence, LA 71254

Triumph Seed Company, Inc.

P.O. Box 1050
Ralls, TX 79357

WinField Solutions/Croplan Genetics

P.O. Box 1351
Blytheville, AR 72315

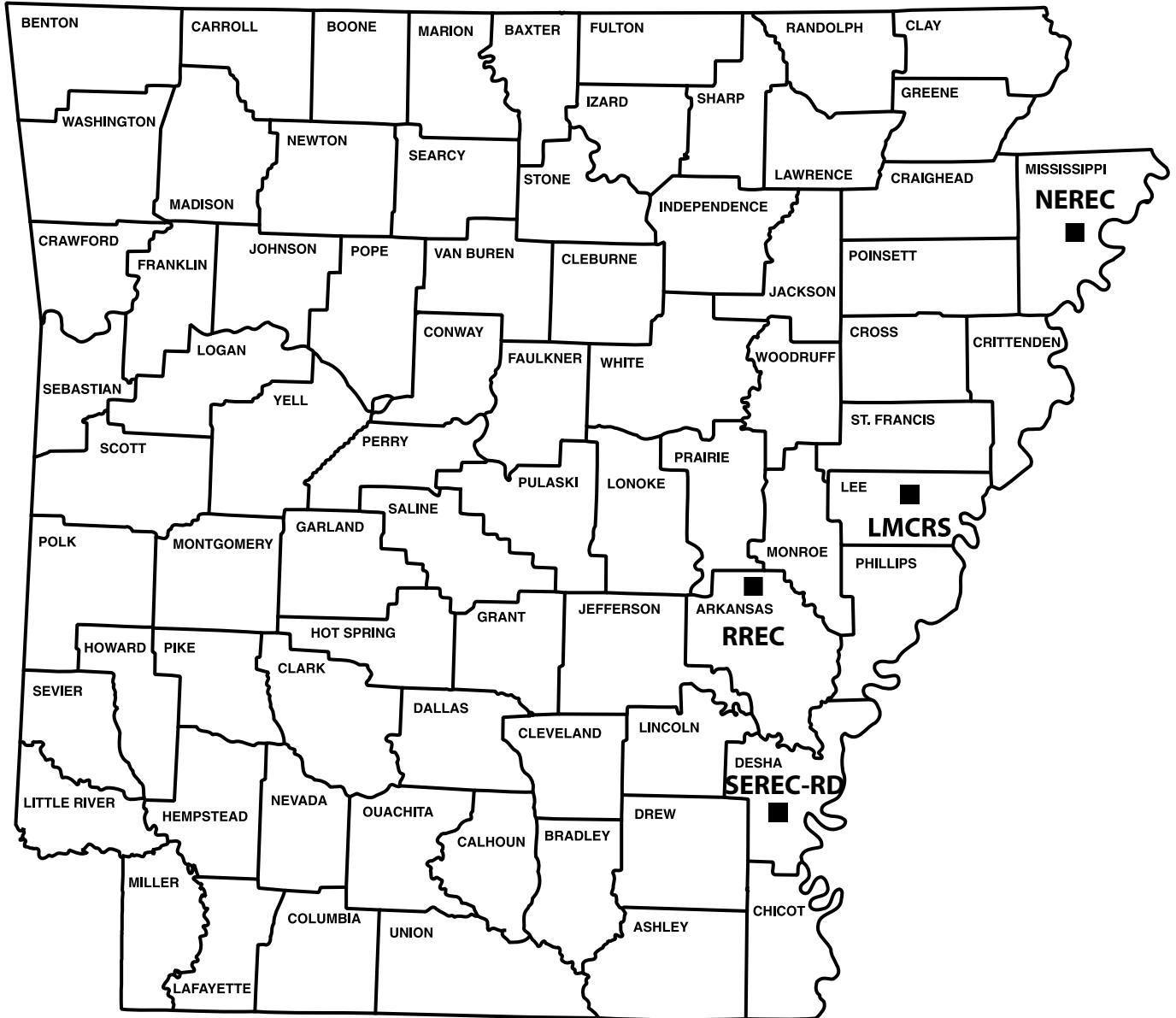
Hybrids

REV™ 25HR39™
REV™ 25HR49™
REV™ 25R19™
REV™ 25R29™
REV™ 26HR50™
REV™ 26HR70™
REV™ 26R60™
REV™ 28HR20™
REV™ 28HR29™
REV™ 28HR30™
REV™ 28R30™
REV™ 28R10™

Triumph 7514S
Triumph 1802V

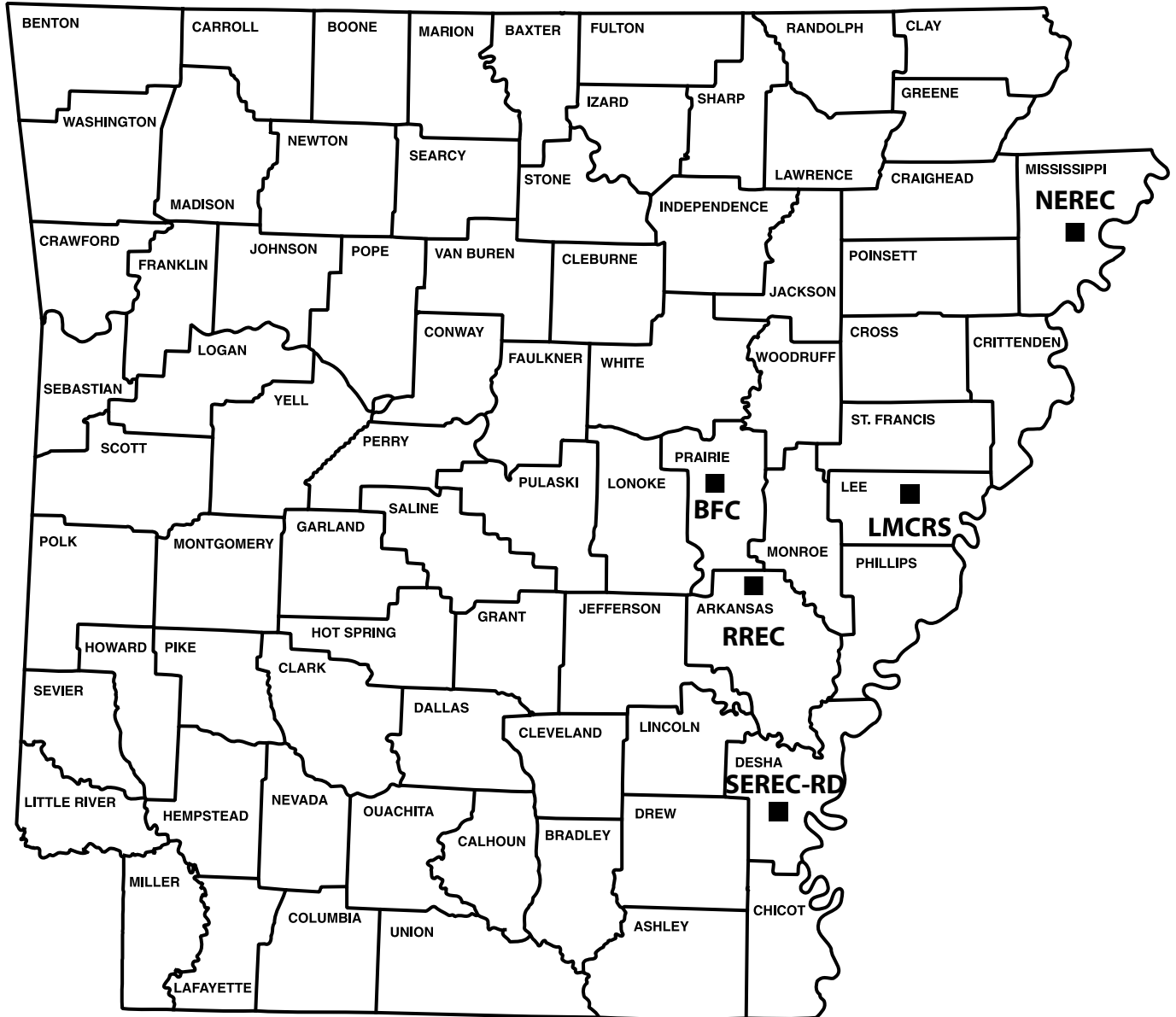
Croplan Genetics 6286VT3PRO
Croplan Genetics 6425VT3PRO
Croplan Genetics 6725VT3PRO
Croplan Genetics 7131VT3
Croplan Genetics 8756VT3
Croplan Genetics 8505VT3PRO

GRAIN SORGHUM TEST LOCATIONS



- LMCRS** - Lon Mann Cotton Research Station, Marianna, Arkansas
- NEREC** - Northeast Research and Extension Center, Keiser, Arkansas
- RREC** - Rice Research and Extension Center, Stuttgart, Arkansas
- SEREC-RD** - Southeast Research and Extension Center-Rohwer Division, Rohwer, Arkansas

CORN TEST LOCATIONS



- BFC** - Bell Farming Company, Des Arc, Arkansas
- LMCRS** - Lon Mann Cotton Research Station, Marianna, Arkansas
- NEREC** - Northeast Research and Extension Center, Keiser, Arkansas
- RREC** - Rice Research and Extension Center, Stuttgart, Arkansas
- SEREC-RD** - Southeast Research and Extension Center-Rohwer Division, Rohwer, Arkansas

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