

# Arkansas Corn and Grain Sorghum Performance Tests

## 2004



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# **2004 ARKANSAS CORN AND GRAIN SORGHUM PERFORMANCE TESTS<sup>1</sup>**

## **D.G. Dombek<sup>2</sup>, D.K. Ahrent<sup>3</sup>, R.D. Bond<sup>4</sup>, and I.L. Eldridge<sup>3</sup>**

### **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 2004 corn performance tests contained 104 entries and were conducted at the Northeast Research and Extension Center (NEREC) at Keiser, the Cotton Branch Station (CBS) near Marianna, the Rice Research and Extension Center (RREC) near Stuttgart, the Southeast Research and Extension Center - Rohwer Division (SEREC-RD) near Rohwer, Queen's Plantation, Inc., farm, near Texarkana, Miller County, AR. The 2004 grain sorghum performance tests contained 51 entries and were conducted at the NEREC near Keiser, the CBS near Marianna, the SEREC-RD near Rohwer, and the RREC near Stuttgart and the Vegetable Substation (VSS) near Kibler. Test location maps for grain sorghum and corn can be found inside the back cover.

### **MATERIALS AND METHODS**

Corn hybrids were divided into two broad maturity groups. Based on information provided by the originating companies, entries were placed into an early- to mid-season group or a mid- to full-season group.

Within each test, entries were arranged as a randomized complete block design with four replications. Plots were two rows wide and end-trimmed to a uniform length of 20-25 feet 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.

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<sup>1</sup>Use 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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### **GRAIN SORGHUM PERFORMANCE MEASUREMENTS**

Yield: Yields were calculated from the weight of grain from each plot and are expressed as pounds per acre (lbs./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.

### 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: Plants leaning more than 40 degrees from vertical at harvest were classed as root lodged.

Stalk Lodging: Plants broken below an ear were classed as stalk lodged.

Plants/Acre: The plant population count, 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 the upper ear.

Test Weight: Test weights, expressed in pounds per bushel (lbs./bu), were determined using subsamples from each plot.

**Table 1. Yields (lbs./A) of Grain Sorghum Hybrids in Arkansas Performance Tests, 2004<sup>1,2</sup>.**

Brand/Hybrid	Keiser Irr.	Keiser Nonirr.	Marianna <sup>3</sup> Irr.	Stuttgart Irr.	Rohwer Nonirr.	Rohwer Irr.	Avg.
--------------	----------------	-------------------	-------------------------------	-------------------	-------------------	----------------	------

	----- lbs./A -----						
ASGROW A567	5805	6243	3806	8523	7447	7845	6612
ASGROW A571	6757	6953	5647	8113	8027	8304	7300
ASGROW A603	5252	6117	3233	7810	7400	7545	6226
Croplan 514	6906	6926	5001	7570	7082	6996	6747
DEKALB DKS53-11	4963	5528	3942	5422	8023	5990	5645
DEKALB DKS54-00	6131	5523	2565	7577	8413	7603	6302
Dyna Gro 751B	6809	7027	5063	8251	7341	7521	7002
Dyna Gro 762B	6731	6213	5549	8069	7121	7200	6814
Dyna Gro 780B	6240	6974	5987	8601	7970	8003	7296
Dyna Gro X1739	6289	5893	6248	7899	6497	6828	6609
Dyna Gro X1753	6077	6437	4995	8243	7523	6734	6668
Dyna Gro X1765	5763	5831	3423	7563	6958	7072	6102
FFR 318	6482	6262	3953	7507	7193	7436	6472
FFR 322	7044	6547	4672	8537	7558	7435	6966
Garst 5440	5033	5505	4455	7064	7126	6766	5992
Garst 5515	5222	6360	5183	7175	7142	6790	6312
Garst N3401	5744	6585	4213	7808	6974	7389	6452
Golden Acres 3552	6079	5865	4717	7813	7659	7893	6671
Golden Acres 3694	6265	6547	5271	7960	7047	7110	6700
Golden Acres 3827	6687	7026	4738	8553	6987	7180	6862
Golden Harvest H-491	6634	6562	4756	7661	7222	6678	6586
Golden Harvest H-502	7043	7403	5335	8244	7806	7661	7249
Monsanto X204	6601	6437	5121	8165	7946	7254	6921
Monsanto X303	3674	5271	2466	6334	7310	6187	5207
Monsanto X304	6250	6464	3857	7464	7120	5926	6180
Pioneer 83G15	7113	6676	3452	8362	8077	7730	6902
Pioneer 83G66	6666	7334	6108	9046	7931	7482	7428
Pioneer 84G62	6972	6608	4593	8977	8526	8341	7336
Sorghum Partners 1486	5038	5110	5196	5937	5135	4734	5192
Sorghum Partners K73-J6	6131	6983	4048	7646	6991	6294	6349
Sorghum Partners KS735	6402	6762	4530	8406	6921	6285	6551
Sorghum Partners NK6673	7198	6565	5251	7853	7788	8081	7123
Sorghum Partners NK7633	6122	6204	5234	7723	7086	6314	6447
Sorghum Partners NK8416	5473	6197	5560	8051	8251	7987	6920
Sorghum Partners NK8817	5952	7205	3974	7002	7981	7921	6673
Sorghum Partners NK8828	4612	6231	4831	7709	7452	7023	6310
Southern States SS-650	7075	7267	6159	8514	7570	7155	7290
Southern States SS-800	5843	6016	5242	7916	7210	7145	6562
Terral TV1050	6971	6795	3772	8654	7751	7571	6919
Terral TV93S72	6218	5897	6504	7668	7343	6874	6751
Terral TV9421	6404	5695	5083	7735	6960	7467	6557
Terral TV96H81	7280	7406	4483	8157	7407	7867	7100
Terral TV97H17	6334	6837	5156	8174	7848	7811	7027

**Table 1. Yields (lbs./A) of Grain Sorghum Hybrids in Arkansas Performance Tests, 2004<sup>1,2</sup>, Continued.**

Brand/Hybrid	Keiser	Keiser	Marianna <sup>3</sup>	Stuttgart	Rohwer	Rohwer	Avg.
	Irr.	Nonirr.	Irr.	Irr.	Nonirr.	Irr.	
	----- lbs./A -----						

Terral TVX93S16	5776	6475	3044	7935	8457	8435	6687
Terral TVX94S34	6235	5590	3698	7728	7703	6762	6286
Terral TVX95B303	7284	7213	4013	8555	7653	7509	7038
Terral TVX95B304	6862	6364	4582	8422	7236	7657	6854
Terral TVX95B319	5927	6937	4925	7986	7610	6947	6722
Terral TVX95S25	6270	6104	4685	7950	7444	7678	6689
Triumph TR461	6597	6772	4131	8241	7219	7370	6722
Triumph TR82-G	7145	7287	5949	8960	8054	8009	7567
Grand mean	6243	6452	4674	7907	7461	7251	6665
LSD (5%)	818	891	1248	674	739	764	*
C.V. (%)	9.5	10.0	19.3	6.1	6.1	6.5	*

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1 Keiser Irr. = Northeast Research and Extension Center.

Keiser Nonirr. = Northeast Research and Extension Center.

Marianna Irr. = Cotton Branch Station.

Stuttgart Irr. = Rice Research and Extension Center.

Rohwer Irr. = Southeast Research and Extension Center - Rohwer Division.

Rohwer Nonirr. = Southeast Research and Extension Center - Rohwer Division.

2 A grain sorghum test was established at the Vegetable Substation near Kibler. Because there was no other grain sorghum in the immediate area, bird damage was so severe that the test was abandoned.

3 The first planting of this test resulted in poor stands. The test was replanted, but stands were again marginal. Anthracnose was noted in the test at levels that may have contributed to reduced yields and uniformity in some entries.



**Table 2. Performance of Irrigated Grain Sorghum Hybrids, Keiser, AR, 2004.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Head Comp. Ratg.	Bird Dam. %
Terral TVX95B303	7284	.	.	15.5	67	4	7.5
Terral TV96H81	7280	6008	5976	15.6	60	2	5.0
Sorghum Partners NK6673	7198	.	.	15.1	61	3	5.0
Triumph TR82-G	7145	6467	6394	15.6	62	1	6.3
Pioneer 83G15	7113	5940	.	15.2	61	4	3.8
Southern States SS-650	7075	6303	6431	16.1	64	1	2.5
FFR 322	7044	6117	6346	15.5	61	2	3.1
Golden Harvest H-502	7043	6231	.	15.5	62	1	7.5
Pioneer 84G62	6972	6025	6299	15.1	59	3	5.0
Terral TV1050	6971	5911	6218	14.9	60	1	6.3
Croplan 514	6906	6118	6331	15.7	59	2	8.1
Terral TVX95B304	6862	.	.	15.7	63	3	3.8
Dyna Gro 751B	6809	6078	6305	15.4	65	1	2.5
ASGROW A571	6757	6072	6091	15.3	61	2	2.5
Dyna Gro 762B	6731	5444	5693	15.0	64	3	5.0
Golden Acres 3827	6687	.	.	16.0	62	2	3.8
Pioneer 83G66	6666	6025	6281	15.5	63	3	6.3
Golden Harvest H-491	6634	.	.	15.8	68	3	3.8
Monsanto X204	6601	5434	.	16.0	60	2	5.0
Triumph TR461	6597	5453	5853	15.5	60	3	5.0
FFR 318	6482	5461	5780	15.4	62	2	1.4
Terral TV9421	6404	5880	6164	14.9	58	4	5.0
Sorghum Partners KS735	6402	.	.	14.4	61	3	5.0
Terral TV97H17	6334	5269	.	15.6	66	2	5.0
Dyna Gro X1739	6289	.	.	15.3	59	4	3.8
Terral TVX95S25	6270	5414	.	15.6	64	3	2.5
Golden Acres 3694	6265	5420	5717	15.3	61	3	3.8
Monsanto X304	6250	.	.	16.1	61	5	8.8
Dyna Gro 780B	6240	5730	6170	15.7	59	1	6.3
Terral TVX94S34	6235	5631	.	15.4	61	5	5.0
Terral TV93S72	6218	5486	5655	15.1	62	3	3.1
DEKALB DKS54-00	6131	5331	5456	15.9	64	2	4.8
Sorghum Partners K73-J6	6131	.	.	15.4	63	3	3.1
Sorghum Partners NK7633	6122	.	.	14.8	56	3	5.0
Golden Acres 3552	6079	.	.	15.3	61	5	5.0
Dyna Gro X1753	6077	.	.	15.0	61	2	3.1
Sorghum Partners NK8817	5952	.	.	17.0	77	1	11.3
Terral TVX95B319	5927	.	.	14.8	60	4	3.1
Southern States SS-800	5843	5254	5520	14.8	59	3	6.3
ASGROW A567	5805	.	.	16.2	60	3	3.8
Terral TVX93S16	5776	5499	.	15.5	63	5	3.8
Dyna Gro X1765	5763	.	.	14.6	59	2	6.3
Garst N3401	5744	.	.	15.5	66	3	5.0

**Table 2. Performance of Irrigated Grain Sorghum Hybrids, Keiser, AR, 2004, Continued.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Head Comp. Ratg.	Bird Dam. %
Sorghum Partners NK8416	5473	.	.	16.3	68	1	10.0
ASGROW A603	5252	.	.	15.8	60	3	5.0
Garst 5515	5222	4714	5041	16.5	52	4	5.0
Sorghum Partners 1486	5038	.	.	14.6	48	3	5.0
Garst 5440	5033	4888	5297	15.8	57	3	3.8
DEKALB DKS53-11	4963	5133	.	15.9	59	2	7.5
Sorghum Partners NK8828	4612	.	.	15.7	58	1	4.8
Monsanto X303	3674	.	.	17.9	63	3	8.8
Grand mean	6243	.	.	15.5	61	3	5.1
LSD (5%)	818	.	.	0.9	.	.	5.2
C.V. (%)	9.5	.	.	4.3	.	.	.

<sup>1</sup> Average yield for 2003 and 2004.

<sup>2</sup> Average yield for 2002, 2003 and 2004.

Soil Series..... Sharkey clay  
 Previous Crop..... Soybean  
 Row Width..... 38 inches  
 Preplant Herbicide..... None  
 Preplant Fertilizer..... 50 lbs./A N.P.K., 3-15-04  
 Planting Date..... 4-17-04  
 Irrigation Dates..... 6-08, 6-14, 6-25, 7-13  
 Sidedress Fertilizer..... 100 lbs./A N (32%), 6-03-04  
 Herbicide Application..... 6 qts./A Lariat, 4-29-04  
 Insecticide Applications..... 1.8 oz./A Fury, 7-13-04; 1.25 oz./A Karate, 7-16-04  
 Harvest Date..... 9-01-04

Precipitation (inches)

	April	May	June	July	August	Total
2004	6.3	6.5	2.6	7.2	3.4	26.0
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	+1.4	+1.3	-1.4	+3.5	+0.6	+5.4

**Table 3. Performance of Nonirrigated Grain Sorghum Hybrids, Keiser, AR, 2004.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Bird Dam. %
Terral TV96H81	7406	7070	6296	18.1	57	2.1
Golden Harvest H-502	7403	7232	.	17.4	58	3.8
Pioneer 83G66	7334	7003	6593	17.6	60	3.8
Triumph TR82-G	7287	6949	5933	19.9	55	5.0
Southern States SS-650	7267	6896	6033	16.7	60	2.5
Terral TVX95B303	7213	.	.	19.3	61	0.4
Sorghum Partners NK8817	7205	.	.	22.6	67	3.8
Dyna Gro 751B	7027	6970	6038	18.4	58	3.8
Golden Acres 3827	7026	.	.	18.3	58	1.3
Sorghum Partners K73-J6	6983	.	.	16.1	56	3.8
Dyna Gro 780B	6974	6858	5772	20.2	60	5.0
ASGROW A571	6953	6857	6351	17.3	59	1.3
Terral TVX95B319	6937	.	.	17.5	55	5.4
Croplan 514	6926	6801	6078	16.6	57	2.5
Terral TV97H17	6837	6998	.	20.1	60	3.8
Terral TV1050	6795	6769	5742	15.6	55	2.1
Triumph TR461	6772	6478	6081	16.0	59	2.5
Sorghum Partners KS735	6762	.	.	16.3	57	3.8
Pioneer 83G15	6676	6913	.	21.2	58	5.0
Pioneer 84G62	6608	6828	6708	18.6	55	5.0
Garst N3401	6585	.	.	15.3	61	1.3
Sorghum Partners NK6673	6565	.	.	17.3	55	2.1
Golden Harvest H-491	6562	.	.	16.7	60	6.3
FFR 322	6547	6678	6034	15.8	62	0.0
Golden Acres 3694	6547	6953	6500	16.0	52	1.3
Terral TVX93S16	6475	6772	.	17.3	61	0.0
Monsanto X304	6464	.	.	21.3	59	0.0
Monsanto X204	6437	6000	.	19.3	58	2.1
Dyna Gro X1753	6437	.	.	17.7	55	6.3
Terral TVX95B304	6364	.	.	18.7	56	0.0
Garst 5515	6360	6407	5841	15.9	53	3.8
FFR 318	6262	6241	5930	15.4	58	3.8
ASGROW A567	6243	.	.	19.6	54	1.3
Sorghum Partners NK8828	6231	.	.	24.0	54	3.8
Dyna Gro 762B	6213	6458	6024	16.9	60	2.5
Sorghum Partners NK7633	6204	.	.	18.3	53	0.0
Sorghum Partners NK8416	6197	.	.	20.9	66	3.8
ASGROW A603	6117	.	.	17.8	57	1.3
Terral TVX95S25	6104	6159	.	18.0	61	8.8
Southern States SS-800	6016	5950	5779	17.0	58	1.3
Terral TV93S72	5897	6009	5656	16.3	55	2.5
Dyna Gro X1739	5893	.	.	16.5	54	2.5
Golden Acres 3552	5865	.	.	19.6	57	7.5

**Table 3. Performance of Nonirrigated Grain Sorghum Hybrids, Keiser, AR, 2004, Continued.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Bird Dam. %
Dyna Gro X1765	5831	.	.	17.5	53	3.8
Terral TV9421	5695	6075	5698	18.4	57	2.5
Terral TVX94S34	5590	5717	.	17.8	54	7.5
DEKALB DKS53-11	5528	5876	.	23.5	54	3.8
DEKALB DKS54-00	5523	5960	5889	21.9	63	5.0
Garst 5440	5505	5859	5650	19.1	55	6.3
Monsanto X303	5271	.	.	19.1	61	8.8
Sorghum Partners 1486	5110	.	.	15.1	46	1.3
Grand mean	6452	.	.	18.2	57	3.3
LSD (5%)	891	.	.	4.5	.	6.9
C.V. (%)	10.0	.	.	18.0	.	.

<sup>1</sup> Average yield for 2003 and 2004.

<sup>2</sup> Average yield for 2002, 2003 and 2004.

Soil Series..... Sharkey clay  
 Previous Crop..... Soybean  
 Row Width..... 38"  
 Preplant Fertilizer..... 50 lbs./A N.P.K., 3-15-04  
 Planting Date..... 4-17-04  
 Sidedress Fertilizer..... 100 lbs./A N (32%), 6-03-04  
 Herbicide Application..... 6 qts./A Lariat, 4-29-04  
 Insecticide Applications..... 1.8 oz./A Fury, 7-13-04; 1.25 oz./A Karate, 7-16-04  
 Harvest Date..... 8-31-04

Precipitation (inches)

	April	May	June	July	August	Total
2004	6.3	6.5	2.6	7.2	3.4	26.0
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	+1.4	+1.3	-1.4	+3.5	+0.6	+5.4

**Table 4. Performance of Irrigated Grain Sorghum Hybrids, Marianna, AR, 2004<sup>1</sup>.**

Brand/Hybrid	Yield lb/A	2-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Anthracnose <sup>3</sup> Rating
Terral TV93S72	6504	6689	13.9	52	8
Dyna Gro X1739	6248	.	14.1	56	3
Southern States SS-650	6159	6355	16.5	61	8
Pioneer 83G66	6108	6712	17.1	62	4
Dyna Gro 780B	5987	6331	16.3	59	8
Triumph TR82-G	5949	6566	16.3	61	2
ASGROW A571	5647	6133	13.9	57	7
Sorghum Partners NK8416	5560	.	16.1	74	2
Dyna Gro 762B	5549	6236	12.8	64	3
Golden Harvest H-502	5335	.	14.9	57	7
Golden Acres 3694	5271	5664	16.5	60	2
Sorghum Partners NK6673	5251	.	14.1	61	3
Southern States SS-800	5242	5881	14.3	56	6
Sorghum Partners NK7633	5234	.	15.9	53	8
Sorghum Partners 1486	5196	.	13.0	52	2
Garst 5515	5183	5578	14.9	56	2
Terral TV97H17	5156	.	18.0	66	2
Monsanto X204	5121	.	15.6	59	7
Terral TV9421	5083	6154	13.8	57	8
Dyna Gro 751B	5063	6045	16.9	62	8
Croplan 514	5001	5960	15.9	59	2
Dyna Gro X1753	4995	.	15.7	55	8
Terral TVX95B319	4925	.	13.9	56	7
Sorghum Partners NK8828	4831	.	16.2	55	2
Golden Harvest H-491	4756	.	15.8	61	5
Golden Acres 3827	4738	.	17.3	61	3
Golden Acres 3552	4717	.	15.8	57	4
Terral TVX95S25	4685	.	16.5	62	3
FFR 322	4672	5581	16.6	60	7
Pioneer 84G62	4593	5398	15.2	55	7
Terral TVX95B304	4582	.	16.3	64	2
Sorghum Partners KS735	4530	.	14.1	57	3
Terral TV96H81	4483	5692	17.5	59	7
Garst 5440	4455	5910	15.4	59	7
Garst N3401	4213	.	17.0	66	2
Triumph TR461	4131	4622	15.8	59	8
Sorghum Partners K73-J6	4048	.	14.2	61	7
Terral TVX95B303	4013	.	12.9	69	2
Sorghum Partners NK8817	3974	.	17.1	74	1
FFR 318	3953	5528	14.2	60	4
DEKALB DKS53-11	3942	.	17.2	59	7
Monsanto X304	3857	.	15.0	62	2
ASGROW A567	3806	.	15.9	57	3

**Table 4. Performance of Irrigated Grain Sorghum Hybrids, Marianna, AR, 2004<sup>1</sup>, Continued.**

Brand/Hybrid	Yield lb/A	2-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Anthracnose <sup>3</sup> Rating
Terral TV1050	3772	5087	14.8	65	3
Terral TVX94S34	3698	.	14.5	65	2
Pioneer 83G15	3452	.	15.0	58	7
Dyna Gro X1765	3423	.	14.6	53	9
ASGROW A603	3233	.	14.9	60	3
Terral TVX93S16	3044	.	19.2	61	7
DEKALB DKS54-00	2565	3737	17.6	61	4
Monsanto X303	2466	.	17.3	60	3
Grand mean	4674	.	15.6	60	.
LSD (5%)	1248	.	1.6	.	.
C.V. (%)	19.3	.	7.4	.	.

<sup>1</sup> The first planting of this test resulted in poor stands. The test was replanted, but stands were again marginal. Anthracnose was noted in the test at levels that may have contributed to reduced yields and uniformity in some entries.

<sup>2</sup> The 2003 test was not reported. Two year averages were calculated from 2004 and 2002.

<sup>3</sup> Horsfall Barrett Scale of area leaf infection. The scale is as follows:

- 0 = 0%
- 1 = 0 - 3%
- 2 = 3 - 6%
- 3 = 6 - 12%
- 4 = 12 - 25%
- 5 = 25 - 50%
- 6 = 50 - 75%
- 7 = 75 - 88%
- 8 = 88 - 94%
- 9 = 94 - 97%
- 10 = 97 - 100%
- 11 = Mortality

(Ratings by Dr. David TeBeest)

Soil Series.....	Calloway silt loam
Previous Crop.....	Soybean
Row Width.....	30"
Preplant Herbicide.....	None
Preplant Fertilizer.....	200 lbs./A 0-60-40, 4-01-04
Planting Date.....	4-08-04; replanted 5/10/04
Irrigation Dates.....	7-19-04, 7-30-04, 8-03-04, 8-09-04
Sidedress Fertilizer.....	100 lbs./A 36-0-0-5.4(sulphur) -10 (zinc), 4-09-04; 100 lbs./A Urea (46%), 6-02-04
Herbicide Applications.....	100 lbs./A Urea (46%), 5-20-04
Insecticide Application.....	1.5 pts./A Dual II, 4-09-04; 2 qts./A Atrazine 4-28-04
Harvest Date.....	1.28 oz./A Karate II, 7-15-04
	9-03-04

Precipitation (inches)

	April	May	June	July	August	Total
2004	4.2	6.9	6.2	3.2	0.4	20.9
Average	5.4	5.2	3.4	4.0	2.8	20.8
Departure	-1.2	+1.7	+2.	-8	-2.4	+1

**Table 5. Performance of Irrigated Grain Sorghum Hybrids, Stuttgart, AR, 2004.**

	2-Year <sup>1</sup>	3-Year <sup>2</sup>	Grain	Plant	Head	Bird
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Brand/Hybrid	Yield lb/A	Avg. lb/A	Avg. lb/A	Moist %	Height in.	Exert. in.	Dam. %
Pioneer 83G66	9046	8514	7914	16.9	59	8	5.0
Pioneer 84G62	8977	8551	8029	14.5	60	8	5.0
Triumph TR82-G	8960	8367	8109	15.1	55	14	5.0
Terral TV1050	8654	7986	7429	14.4	62	6	1.3
Dyna Gro 780B	8601	8298	8040	14.9	57	6	6.3
Terral TVX95B303	8555	.	.	14.3	64	12	6.3
Golden Acres 3827	8553	.	.	15.3	56	12	6.3
FFR 322	8537	8382	7970	14.9	58	8	5.0
ASGROW A567	8523	.	.	15.1	58	10	3.8
Southern States SS-650	8514	8251	7781	14.8	60	6	3.8
Terral TVX95B304	8422	.	.	15.4	56	8	8.8
Sorghum Partners KS735	8406	.	.	14.8	56	10	1.3
Pioneer 83G15	8362	8110	.	15.3	55	9	3.8
Dyna Gro 751B	8251	8368	8028	14.8	56	8	12.5
Golden Harvest H-502	8244	8119	.	15.3	55	6	7.5
Dyna Gro X1753	8243	.	.	14.4	50	8	5.0
Triumph TR461	8241	7258	7204	15.1	55	8	3.8
Terral TV97H17	8174	8084	.	15.6	63	6	3.8
Monsanto X204	8165	7727	.	15.5	54	10	6.3
Terral TV96H81	8157	8051	7826	15.7	57	10	7.5
ASGROW A571	8113	7875	7763	14.6	54	12	2.5
Dyna Gro 762B	8069	7549	7427	14.3	57	9	6.3
Sorghum Partners NK8416	8051	.	.	15.4	66	14	5.0
Terral TVX95B319	7986	.	.	13.7	54	10	3.8
Golden Acres 3694	7960	7680	7323	14.1	57	8	7.5
Terral TVX95S25	7950	7558	.	14.7	62	10	11.3
Terral TVX93S16	7935	7663	.	14.6	60	10	5.0
Southern States SS-800	7916	7422	7175	13.5	57	8	3.8
Dyna Gro X1739	7899	.	.	14.4	56	8	7.5
Sorghum Partners NK6673	7853	.	.	14.4	55	10	2.5
Golden Acres 3552	7813	.	.	14.7	53	10	6.3
ASGROW A603	7810	.	.	14.3	58	12	5.0
Garst N3401	7808	.	.	14.9	60	8	12.5
Terral TV9421	7735	7237	7117	14.4	54	12	3.8
Terral TVX94S34	7728	7240	.	14.0	57	14	5.0
Sorghum Partners NK7633	7723	.	.	13.8	52	8	8.8
Sorghum Partners NK8828	7709	.	.	14.4	53	10	2.5
Terral TV93S72	7668	7227	7054	14.4	52	12	5.0
Golden Harvest H-491	7661	.	.	14.8	59	12	12.5
Sorghum Partners K73-J6	7646	.	.	14.4	58	13	5.0
DEKALB DKS54-00	7577	7419	6659	15.7	60	12	2.5
Croplan 514	7570	8014	7767	15.0	59	10	6.3

**Table 5. Performance of Irrigated Grain Sorghum Hybrids, Stuttgart, AR, 2004, Continued.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Head Exert. in.	Bird Dam. %
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Dyna Gro X1765	7563	.	.	13.5	51	10	1.3
FFR 318	7507	7486	7352	14.6	58	10	5.0
Monsanto X304	7464	.	.	14.2	56	8	5.0
Garst 5515	7175	7112	6941	14.6	51	8	0.0
Garst 5440	7064	7016	6836	14.2	56	12	7.5
Sorghum Partners NK8817	7002	.	.	17.1	72	14	7.5
Monsanto X303	6334	.	.	15.3	58	8	12.5
Sorghum Partners 1486	5937	.	.	12.4	48	8	3.8
DEKALB DKS53-11	5422	6639	.	15.4	56	6	8.8
Grand mean	7907	.	.	14.7	57	10	5.7
LSD (5%)	674	.	.	0.9	.	.	5.0
C.V. (%)	6.1	.	.	4.2	.	.	.

<sup>1</sup> Average yield for 2003 and 2004.

<sup>2</sup> Average yield for 2002, 2003 and 2004.

Soil Series..... Crowley silt loam  
 Previous Crop..... Rice  
 Row Width..... 32"  
 Preplant Herbicide..... None  
 Preplant Fertilizer..... 75-60-90/A, 4-05-04  
 Planting Date..... 4-20-04  
 Irrigation Dates..... 5-27-04, 6-11-04, 7-19-04, 7-26-04  
 Sidedress Fertilizer..... 275 lbs./A Urea, 5-27-04  
 Herbicide Applications..... 1.3 qts./A Bicep II Mag, 4-26-04; 1 qt./A Atrazine, 5-20-04  
 Insecticide Application..... None  
 Harvest Date..... 8-31-04

Precipitation (inches)

	April	May	June	July	August	Total
2004	5.1	6.5	6.4	3.6	2.2	23.8
Average	5.6	4.7	3.6	3.4	2.8	20.1
Departure	-.5	+1.8	+2.8	+.2	-.6	+3.7



**Table 6. Performance of Irrigated Grain Sorghum Hybrids, Rohwer, AR, 2004.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Head Exert. in.
Pioneer 84G62	8526	8165	8461	16.2	55	3
Terral TVX93S16	8457	7809	.	15.6	61	6
DEKALB DKS54-00	8413	7525	6968	16.5	60	5
Sorghum Partners NK8416	8251	.	.	14.4	62	6
Pioneer 83G15	8077	7995	.	16.9	60	4
Triumph TR82-G	8054	7574	8010	15.0	56	3
ASGROW A571	8027	7634	7701	15.2	56	6
DEKALB DKS53-11	8023	7723	.	16.3	58	3
Sorghum Partners NK8817	7981	.	.	17.3	67	6
Dyna Gro 780B	7970	7476	7707	15.1	60	3
Monsanto X204	7946	7581	.	16.2	55	5
Pioneer 83G66	7931	7978	7975	15.1	59	5
Terral TV97H17	7848	7333	.	14.7	62	5
Golden Harvest H-502	7806	7681	.	15.0	59	4
Sorghum Partners NK6673	7788	.	.	15.5	57	5
Terral TV1050	7751	7305	7246	14.6	58	4
Terral TVX94S34	7703	7202	.	14.0	59	6
Golden Acres 3552	7659	.	.	15.4	55	3
Terral TVX95B303	7653	.	.	14.5	62	6
Terral TVX95B319	7610	.	.	15.5	55	4
Southern States SS-650	7570	7539	7777	14.5	57	3
FFR 322	7558	7523	7834	14.9	58	4
Dyna Gro X1753	7523	.	.	15.7	55	4
Sorghum Partners NK8828	7452	.	.	14.8	56	5
ASGROW A567	7447	.	.	16.1	58	4
Terral TVX95S25	7444	7267	.	14.9	59	5
Terral TV96H81	7407	7435	7587	14.6	56	4
ASGROW A603	7400	.	.	15.3	58	6
Terral TV93S72	7343	6943	7183	14.5	54	6
Dyna Gro 751B	7341	7229	7786	14.9	57	4
Monsanto X303	7310	.	.	18.6	59	4
Terral TVX95B304	7236	.	.	14.6	54	6
Golden Harvest H-491	7222	.	.	15.1	61	5
Triumph TR461	7219	7180	7265	14.0	55	3
Southern States SS-800	7210	7033	7248	13.9	56	5
FFR 318	7193	7348	7308	14.4	58	6
Garst 5515	7142	6649	6864	13.4	54	4
Garst 5440	7126	7044	7254	14.5	55	4
Dyna Gro 762B	7121	7284	6995	14.0	57	4
Monsanto X304	7120	.	.	14.4	57	3
Sorghum Partners NK7633	7086	.	.	15.5	53	5
Croplan 514	7082	7345	7645	14.8	59	3
Golden Acres 3694	7047	6870	6849	14.3	54	5

**Table 6. Performance of Irrigated Grain Sorghum Hybrids, Rohwer, AR, 2004, Continued.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Head Exert. in.
Sorghum Partners K73-J6	6991	.	.	14.8	60	5
Golden Acres 3827	6987	.	.	14.6	59	4
Garst N3401	6974	.	.	14.7	62	6
Terral TV9421	6960	7087	7301	14.7	56	6
Dyna Gro X1765	6958	.	.	15.6	54	6
Sorghum Partners KS735	6921	.	.	14.0	57	6
Dyna Gro X1739	6497	.	.	14.3	53	4
Sorghum Partners 1486	5135	.	.	12.8	48	2
Grand mean	7461	.	.	15.0	57	5
LSD (5%)	739	.	.	1.1	.	.
C.V. (%)	6.1	.	.	4.4	.	.

<sup>1</sup> Average yield for 2003 and 2004.

<sup>2</sup> Average yield for 2002, 2003 and 2004.

Soil Series..... Sharkey Desha silt loam  
 Previous Crop..... Grain sorghum  
 Row Width..... 38"  
 Preplant Herbicide..... None  
 Preplant Fertilizer..... 400 lbs./A 0-46-60, 3-11-04  
 Planting Date..... 4-8-04  
 Irrigation Dates..... 5-26-04, 6-8-04, 6-16-04, 7-12-04, 7-21-04  
 Sidedress Fertilizer..... 275 lbs./A Urea (46%), 4-22-04; 165 lbs./A Urea (46%), 5-24-04  
 Herbicide Applications..... 1.25 pts./A Dual Magnum II , 4-09-04; 2 qts./A Atrazine 4L, 5-06-04  
 Insecticide Applications..... 1.5 pts./A Lorsban, 4-19-04; 1.3 oz./A Karate, 6-22-04; 0.5 pts./A Lorsban, 7-02-04; 1.3 oz./A Karate  
 7-09-04 & 7-19-04  
 Harvest Date..... 8-10-04

Precipitation (inches)

	April	May	June	July	August	Total
2004	4.2	4.8	5.6	3.0	1.0	18.6
Average	5.0	4.7	3.5	3.9	2.7	19.8
Departure	-.8	+.1	+2.1	-.9	-1.7	-1.2

**Table 7. Performance of Nonirrigated Grain Sorghum Hybrids, Rohwer, AR, 2004.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Head Exert. in.
Terral TVX93S16	8435	7387	.	15.2	59	6
Pioneer 84G62	8341	8192	8016	15.4	53	2
ASGROW A571	8304	7913	7816	15.7	57	6
Sorghum Partners NK6673	8081	.	.	16.0	53	3
Triumph TR82-G	8009	7323	7655	15.5	57	3
Dyna Gro 780B	8003	7265	7389	15.3	60	2
Sorghum Partners NK8416	7987	.	.	14.9	65	6
Sorghum Partners NK8817	7921	.	.	17.5	67	6
Golden Acres 3552	7893	.	.	15.0	55	2
Terral TV96H81	7867	7381	7476	14.8	55	3
ASGROW A567	7845	.	.	16.8	55	2
Terral TV97H17	7811	7176	.	15.4	61	2
Pioneer 83G15	7730	7865	.	17.1	60	3
Terral TVX95S25	7678	7609	.	15.0	61	6
Golden Harvest H-502	7661	7405	.	15.5	57	3
Terral TVX95B304	7657	.	.	15.3	57	4
DEKALB DKS54-00	7603	7035	6813	17.1	56	5
Terral TV1050	7571	7321	7395	14.8	59	4
ASGROW A603	7545	.	.	15.0	58	5
Dyna Gro 751B	7521	7112	7292	14.8	56	3
Terral TVX95B303	7509	.	.	14.9	59	4
Pioneer 83G66	7482	7710	7574	17.3	58	4
Terral TV9421	7467	7378	7211	14.6	56	5
FFR 318	7436	7344	7129	14.6	57	4
FFR 322	7435	7507	7566	15.0	57	3
Garst N3401	7389	.	.	15.1	58	3
Triumph TR461	7370	7025	7341	14.8	57	3
Monsanto X204	7254	7086	.	15.0	51	4
Dyna Gro 762B	7200	7251	7160	14.5	58	4
Golden Acres 3827	7180	.	.	15.0	53	4
Southern States SS-650	7155	6816	7095	14.9	55	3
Southern States SS-800	7145	7065	7055	14.1	54	4
Golden Acres 3694	7110	7195	7008	15.1	56	5
Dyna Gro X1765	7072	.	.	15.2	54	6
Sorghum Partners NK8828	7023	.	.	14.6	58	6
Croplan 514	6996	6927	7238	15.1	56	2
Terral TVX95B319	6947	.	.	14.8	50	4
Terral TV93S72	6874	6948	6994	14.8	52	5
Dyna Gro X1739	6828	.	.	14.9	51	6
Garst 5515	6790	6589	6724	14.3	54	4
Garst 5440	6766	6821	7016	14.7	52	3
Terral TVX94S34	6762	6672	.	14.8	57	6
Dyna Gro X1753	6734	.	.	15.8	54	4

**Table 7. Performance of Nonirrigated Grain Sorghum Hybrids, Rohwer, AR, 2004, Continued.**

Brand/Hybrid	Yield lb/A	2-Year <sup>1</sup> Avg. lb/A	3-Year <sup>2</sup> Avg. lb/A	Grain Moist %	Plant Height in.	Head Exert. in.
Golden Harvest H-491	6678	.	.	15.4	60	5
Sorghum Partners NK7633	6314	.	.	15.1	51	6
Sorghum Partners K73-J6	6294	.	.	14.9	57	5
Sorghum Partners KS735	6285	.	.	14.7	58	5
Monsanto X303	6187	.	.	17.6	55	3
DEKALB DKS53-11	5990	6889	.	16.9	58	2
Monsanto X304	5926	.	.	14.8	59	3
Sorghum Partners 1486	4734	.	.	13.8	43	2
Grand mean	7251	.	.	15.3	56	4
LSD (5%)	764	.	.	0.8	.	.
C.V. (%)	6.5	.	.	3.1	.	.

<sup>1</sup> Average yield for 2003 and 2004.

<sup>2</sup> Average yield for 2002, 2003 and 2004.

Soil Series..... Sharkey Desha silt loam  
 Previous Crop..... Grain sorghum  
 Row Width..... 38"  
 Preplant Herbicide..... None  
 Preplant Fertilizer..... 400 lbs./A 0-46-60, 3-11-04  
 Planting Date..... 4-8-04  
 Sidedress Fertilizer..... 275 lbs./A Urea (46%), 4-22-04; 165 lbs./A Urea (46%), 5-24-04  
 Herbicide Applications..... 1.25 pts./A Dual Magnum II, 4-09-04; 2 qts./A Atrazine 4L, 5-06-04  
 Insecticide Application..... 1.5 pts./A Lorsban, 4-19-04; 1.3 oz./A Karate, 6-22-04; 0.5 pts./A Lorsban, 7-02-04; 1.3 oz./A Karate  
 7-09-04 & 7-19-04  
 Harvest Date..... 8-10-04

Precipitation (inches)

	April	May	June	July	August	Total
2004	4.2	4.8	5.6	3.0	1.0	18.6
Average	5.0	4.7	3.5	3.9	2.7	19.8
Departure	-.8	+.1	+2.1	-.9	-1.7	-1.2

**Table 8. Yields (bu./A) of Corn Hybrids in Arkansas Performance Tests, 2004<sup>1</sup>.**

Brand/Hybrid	Keiser Irr.	Marianna <sup>2</sup> Irr.	Stuttgart <sup>3</sup> Irr.	Rohwer Irr.	Miller <sup>4</sup> Nonirr.	Avg.
-----bu./A-----						
<u>Early- to Mid-Season Hybrids</u>						
Belle 1210C	154.9	194.3	62.4	164.1	154.9	146.1
Belle 1430Y	174.8	207.1	192.1	188.5	142.3	181.0
Belle 1515C	179.3	203.9	111.2	174.5	155.1	164.8
Belle 1525R	188.9	187.5	87.0	152.8	159.6	155.2
Belle 1533Y	208.5	204.4	168.3	176.7	159.6	183.5
Belle 1540RY	191.2	194.2	177.2	179.3	139.6	176.3
Belle 1545RY	213.9	184.8	214.1	203.4	143.0	191.8
Belle 1830Y	249.4	211.0	208.7	195.7	145.3	202.0
Belle 2222RY	218.4	209.4	205.2	208.6	154.8	199.3
BEXC004	216.5	196.8	68.7	212.4	122.4	163.4
BEXR001	145.6	211.5	114.6	184.7	157.5	162.8
BEXR004	145.6	202.8	93.8	175.9	153.9	154.4
BEXRY001	218.7	182.7	195.0	220.8	141.7	191.8
BEXY004	218.6	214.3	196.4	206.3	138.8	194.9
BEXY005	235.0	203.3	185.8	191.8	136.0	190.4
BEXY006	192.4	189.2	156.3	198.3	148.3	176.9
Bio Gene BT1150	193.0	165.9	156.5	181.2	117.1	162.7
Bio Gene CV1143	185.8	196.0	187.0	196.9	157.9	184.7
Croplan 631RR/BTZ	187.2	200.5	185.8	209.4	136.5	183.9
DEKALB DKC60-19	155.7	194.5	147.6	174.3	149.8	164.4
DEKALB DKC61-42	162.0	177.7	84.9	159.2	146.5	146.1
DEKALB DKC61-45	166.6	202.5	200.1	184.5	156.4	182.0
DEKALB DKC63-50	198.7	198.6	188.9	183.6	140.5	182.1
DEKALB DKC63-52	172.3	194.3	195.1	184.9	146.1	178.5
DEKALB DKC63-81	184.9	194.9	175.8	162.9	137.9	171.3
DEKALB DKC64-11	192.0	194.7	196.6	187.9	127.1	179.7
Dyna Gro 5528Bt	212.2	188.8	187.0	208.2	136.9	186.6
Dyna Gro 57F87	218.2	189.7	196.1	195.5	148.4	189.6
Dyna Gro 57K14	153.5	195.8	80.5	182.1	122.4	146.9
FFR 736Bt	233.3	209.5	172.5	182.1	142.5	188.0
FFR 835Bt	194.6	188.4	173.8	181.9	141.7	176.1
Garst 8350YG1	204.5	189.1	187.9	163.5	107.3	170.5
Genesis 2E15RRYGCB	209.9	203.1	221.3	210.0	134.4	195.7
Genesis 3214YG	234.3	193.5	203.7	199.9	126.6	191.6
Genesis 3215C	175.8	191.3	103.4	180.5	149.5	160.1
Genesis 3215RR	156.8	196.8	99.4	185.0	141.7	155.9
Golden Acres 2828RR	147.2	182.7	88.1	162.1	130.7	142.2
Golden Acres 2831RRB	238.4	193.9	197.5	193.4	148.9	194.4
Golden Acres 2841RRB	212.4	184.8	191.8	189.1	131.0	181.8
Golden Harvest H-9166	159.9	201.1	87.0	163.9	163.0	155.0
NK Brand N70-T9	205.3	207.7	157.4	185.7	156.3	182.5
NK Brand N72-J5	134.7	180.6	74.4	195.7	154.0	147.9
Pioneer 33M54	166.4	171.4	100.9	185.8	144.6	153.8
Pioneer 33N56	175.2	193.9	95.4	167.8	158.4	158.1

**Table 8. Yields (bu./A) of Corn Hybrids in Arkansas Performance Tests, 2004<sup>1</sup>, Continued.**

Brand/Hybrid	Keiser Irr.	Marianna <sup>2</sup> Irr.	Stuttgart <sup>3</sup> Irr.	Rohwer Irr.	Miller <sup>4</sup> Nonirr.	Avg.
-----bu./A-----						
<u>Early- to Mid-Season Hybrids Continued</u>						
Pioneer 34B20YGCB/RR	195.3	184.4	163.4	195.3	135.5	174.8
Terral TV2130	164.7	193.6	116.5	179.3	137.6	158.3
Terral TV2140nRR	175.6	212.9	110.4	187.6	141.7	165.6
Terral TV2160Bt	199.5	207.5	199.9	177.2	144.0	185.6
Terral TV24R10	129.4	191.1	102.8	174.0	129.6	145.4
Terral TV25B30	166.9	198.2	195.2	178.6	151.6	178.1
Terral TV25BR23	214.6	200.3	202.3	179.0	141.6	187.6
Terral TV26B23	163.6	199.0	199.9	204.3	161.5	185.7
Terral TV26B34	233.9	187.7	189.0	206.8	162.4	196.0
Terral TV26BR10n	233.9	197.5	182.3	180.7	157.8	190.4
Terral TVX23R31	188.3	182.7	111.6	167.0	154.1	160.7
Terral TVX23R401	153.4	187.5	119.1	161.5	157.6	155.8
Terral TVX23R404	180.7	194.0	107.5	181.8	156.3	164.1
Terral TVX24B402	186.2	202.1	176.6	183.4	121.5	174.0
Terral TVX24B403	198.2	197.4	200.3	208.9	132.6	187.5
Terral TVX24BR401	208.6	215.3	192.8	197.9	163.9	195.7
Terral TVX24R401	177.1	177.4	115.3	180.2	154.1	160.8
Terral TVX25B403	199.2	205.0	185.5	181.7	154.8	185.2
Terral TVX25B404	225.0	213.1	193.0	205.9	143.0	196.0
Terral TVX25BR013	218.0	177.8	188.6	182.4	150.3	183.4
Terral TVX25R31	182.0	201.4	116.5	189.1	168.5	171.5
Terral TVX25R401	164.3	203.6	115.6	186.3	165.3	167.0
Terral TVX26B401	216.8	212.6	189.4	198.1	145.9	192.6
Terral TVX26B402	214.5	208.0	194.8	205.4	150.6	194.7
Terral TVX26B404	227.9	207.8	190.1	213.3	120.2	191.9
Terral TVX26BR401	219.9	205.4	200.6	195.6	146.6	193.6
Terral TVX27B401	196.5	197.9	210.5	217.8	135.8	191.7
Triumph 1416Bt	189.3	203.8	208.8	190.8	166.6	191.9
Unity Seeds 6250	150.4	181.5	97.4	164.7	156.8	150.2
Unity Seeds 711Bt	194.9	172.8	155.5	184.2	146.4	170.8
Grand mean	191.2	195.9	158.2	187.2	145.4	175.6
LSD (5%)	33.7	30.2	24.6	20.1	25.7	*
C.V. (%)	12.7	11.1	11.2	7.8	12.8	*
<u>Mid- to Full-Season Hybrids</u>						
Croplan 799Bt	204.1	*	179.9	184.4	158.9	181.8
Croplan 818RR/Bt	240.8	*	203.7	200.6	127.3	193.1
DEKALB DK697	199.0	*	110.6	187.9	126.1	155.9
DEKALB DKC69-70	254.0	*	232.4	202.0	145.3	208.4
DEKALB DKC69-71	242.4	*	206.3	186.1	150.2	196.3
Dyna Gro CX03218	162.1	*	97.3	172.7	147.3	144.9
Dyna Gro CX03318	188.2	*	106.1	176.6	135.3	151.6

**Table 8. Yields (bu./A) of Corn Hybrids in Arkansas Performance Tests, 2004<sup>1</sup>, Continued.**

Brand/Hybrid	Keiser Irr.	Marianna <sup>2</sup> Irr.	Stuttgart <sup>3</sup> Irr.	Rohwer Irr.	Miller <sup>4</sup> Nonirr.	Avg.
-----bu./A-----						
<u>Mid- to Full-Season Hybrids Continued</u>						
Dyna Gro CX03419	212.6	*	178.7	182.3	118.8	173.1
Dyna Gro CX04219	143.1	*	105.4	186.7	164.3	149.9
FFR 849CL	193.6	*	87.0	183.2	122.4	146.6
FFR 900Bt	240.1	*	150.1	180.0	140.8	177.8
Garst 8200YG1	201.4	*	164.7	193.0	156.0	178.8
Garst 8292YG1	182.0	*	169.8	191.9	162.2	176.5
Genesis 2A16RR	158.2	*	107.5	193.4	163.9	155.8
Genesis 2A16YG	208.4	*	188.3	189.9	164.9	187.9
Genesis 2D16RRYGCB	211.1	*	188.4	208.3	142.5	187.6
Genesis 2D16YGCB	218.7	*	208.1	211.9	143.3	195.5
Genesis 2E15YGCB	218.5	*	207.5	190.7	163.9	195.2
Genesis 4C16RRYGCB	182.1	*	187.1	188.6	149.8	176.9
Golden Acres X-6420Bt	155.1	*	185.3	185.9	139.4	166.4
Golden Harvest H-9461	179.4	*	63.0	204.2	141.5	147.0
Golden Harvest H-9498Bt	229.1	*	137.7	207.8	146.1	180.2
NK Brand N82-A7	209.5	*	173.4	198.6	113.4	173.7
Pioneer 31G66	190.8	*	82.5	210.8	163.9	162.0
Pioneer 31G97RR	162.9	*	105.7	228.2	132.4	157.3
Pioneer 31N28YGCB	214.6	*	199.4	206.1	155.9	194.0
Pioneer 32D99	179.7	*	82.3	222.8	142.8	156.9
Pioneer 32P76YGCB	170.0	*	153.9	203.4	157.1	171.1
Triumph 1866Bt	187.0	*	199.3	201.0	166.1	188.4
Unity Seeds 6296	139.4	*	62.9	161.2	154.5	129.5
Grand mean	195.9	*	150.8	194.7	146.5	172.0
LSD (5%)	39.5	*	26.0	21.1	25.7	*
C. V. (%)	14.3	*	12.2	7.7	12.4	*

<sup>1</sup> Keiser = Northeast Research and Extension Center.  
 Marianna = Cotton Branch Station.  
 Stuttgart = Rice Research and Extension Center.  
 Rohwer = Southeast Research and Extension Center - Rohwer Division.  
 Miller = Miller County, Southwest Arkansas.

<sup>2</sup> At Marianna, a mechanical error during harvest of the Mid- to Full-Season Hybrids resulted in the loss of all data for this test.

<sup>3</sup> This test was severely infested with Southwestern Corn Borers, which resulted in extensive stalk tunneling and plant lodging for non Bt hybrids.

<sup>4</sup> A severe storm on June 2nd caused extensive lodging and yield reduction.

**Table 9. Performance of Irrigated Corn Hybrids, Keiser, AR, 2004.**

Brand/Hybrid	Yield bu/A	2-Year <sup>1</sup> Avg. bu/A	3-Year <sup>2</sup> Avg. bu/A	Grain Moist %	Root Lodg.	Stalk Lodg.	Ear Ht. in.
<u>Early- to Mid-Season Hybrids</u>							
Belle 1830Y	249.4	.	.	15.7	0.0	0.8	45
Golden Acres 2831RRB	238.4	.	.	14.7	0.0	1.5	30
BEXY005	235.0	.	.	14.4	0.0	0.0	40
Genesis 3214YG	234.3	241.6	.	15.0	0.0	3.3	32
Terral TV26B34	233.9	.	.	15.2	0.0	1.5	32
Terral TV26BR10n	233.9	229.6	215.6	14.3	0.0	0.8	28
FFR 736Bt	233.3	225.9	208.4	15.4	0.0	0.2	37
Terral TVX26B404	227.9	.	.	14.7	0.0	1.1	39
Terral TVX25B404	225.0	.	.	15.3	0.0	1.8	45
Terral TVX26BR401	219.9	.	.	15.6	0.0	0.8	37
BEXRY001	218.7	.	.	14.9	0.0	1.8	34
BEXY004	218.6	.	.	15.4	0.0	1.0	37
Belle 2222RY	218.4	.	.	15.0	0.0	0.0	33
Dyna Gro 57F87	218.2	.	.	15.4	0.0	0.0	33
Terral TVX25BR013	218.0	218.1	.	14.6	0.0	0.5	39
Terral TVX26B401	216.8	.	.	15.7	0.0	1.0	45
BEXC004	216.5	.	.	14.5	0.0	5.6	37
Terral TV25BR23	214.6	.	.	14.8	0.0	3.0	33
Terral TVX26B402	214.5	.	.	16.0	0.0	1.3	41
Belle 1545RY	213.9	.	.	15.8	0.0	0.9	34
Golden Acres 2841RRB	212.4	.	.	14.4	0.0	0.8	32
Dyna Gro 5528Bt	212.2	224.0	202.9	15.0	0.0	0.8	39
Genesis 2E15RRYGCB	209.9	.	.	16.0	0.0	1.0	40
Terral TVX24BR401	208.6	.	.	14.5	0.0	1.0	44
Belle 1533Y	208.5	.	.	15.8	0.0	0.8	34
NK Brand N70-T9	205.3	211.6	.	15.0	0.0	0.8	29
Garst 8350YG1	204.5	214.7	.	14.8	0.0	0.8	30
Terral TV2160Bt	199.5	206.4	186.9	14.9	0.0	0.3	44
Terral TVX25B403	199.2	.	.	15.0	0.0	1.3	43
DEKALB DKC63-50	198.7	.	.	14.2	0.0	0.8	29
Terral TVX24B403	198.2	.	.	14.8	0.0	2.8	49
Terral TVX27B401	196.5	.	.	15.1	0.0	8.3	44
Pioneer 34B20YGCB/RR	195.3	.	.	15.0	0.0	0.3	28
Unity Seeds 711Bt	194.9	.	.	14.4	0.0	0.5	32
FFR 835Bt	194.6	.	.	15.8	0.0	3.3	33
Bio Gene BT1150	193.0	.	.	15.9	0.0	1.8	25
BEXY006	192.4	.	.	16.4	0.0	0.3	41
DEKALB DKC64-11	192.0	.	.	14.6	0.0	0.2	36
Belle 1540RY	191.2	205.0	.	14.9	0.0	0.5	39
Triumph 1416Bt	189.3	201.0	.	14.7	0.0	0.3	47
Belle 1525R	188.9	.	.	15.2	0.0	0.5	40
Terral TVX23R31	188.3	.	.	15.8	0.0	1.0	38
Croplan 631RR/BTZ	187.2	.	.	14.3	0.0	0.0	28
Terral TVX24B402	186.2	.	.	16.2	0.0	0.5	45



**Table 9. Performance of Irrigated Corn Hybrids, Keiser, AR, 2004, Continued.**

Brand/Hybrid	Yield bu/A	2-Year <sup>1</sup> Avg. bu/A	3-Year <sup>2</sup> Avg. bu/A	Grain Moist %	Root Lodg.	Stalk Lodg.	Ear Ht. in.
<u>Early- to Mid-Season Hybrids Continued</u>							
Bio Gene CV1143	185.8	.	.	15.3	0.0	0.5	30
DEKALB DKC63-81	184.9	.	.	14.7	0.0	0.3	25
Terral TVX25R31	182.0	.	.	16.0	0.0	2.2	40
Terral TVX23R404	180.7	.	.	14.5	0.0	4.0	40
Belle 1515C	179.3	.	.	14.9	0.0	0.5	42
Terral TVX24R401	177.1	.	.	15.2	0.0	5.8	45
Genesis 3215C	175.8	.	.	15.3	0.0	4.0	36
Terral TV2140nRR	175.6	196.6	186.8	15.0	0.0	16.5	43
Pioneer 33N56	175.2	.	.	15.1	0.0	1.5	33
Belle 1430Y	174.8	194.8	.	15.7	0.0	0.5	45
DEKALB DKC63-52	172.3	.	.	14.3	0.0	1.5	31
Terral TV25B30	166.9	188.2	.	14.7	0.0	0.3	44
DEKALB DKC61-45	166.6	.	.	14.8	0.0	0.5	29
Pioneer 33M54	166.4	191.8	.	14.8	0.0	1.5	30
Terral TV2130	164.7	195.2	188.1	15.0	0.0	3.8	38
Terral TVX25R401	164.3	.	.	16.1	0.0	5.3	43
Terral TV26B23	163.6	193.6	.	15.7	0.0	0.0	44
DEKALB DKC61-42	162.0	188.3	.	14.0	0.0	5.0	27
Golden Harvest H-9166	159.9	.	.	14.8	0.0	6.2	39
Genesis 3215RR	156.8	191.1	.	15.0	0.0	8.3	28
DEKALB DKC60-19	155.7	.	.	14.4	0.0	1.0	25
Belle 1210C	154.9	.	.	16.5	0.0	1.5	42
Dyna Gro 57K14	153.5	180.2	.	13.8	0.0	6.2	27
Terral TVX23R401	153.4	.	.	16.3	0.0	3.8	48
Unity Seeds 6250	150.4	.	.	14.7	0.0	3.2	33
Golden Acres 2828RR	147.2	178.6	.	14.9	0.0	2.0	32
BEXR004	145.6	.	.	16.0	0.0	3.8	44
BEXR001	145.6	.	.	15.6	0.0	4.5	39
NK Brand N72-J5	134.7	168.4	.	14.5	0.0	14.3	29
Terral TV24R10	129.4	155.2	.	15.6	0.0	2.3	46
Grand mean	191.2	.	.	15.1	0.0	2.2	37
LSD (5%)	33.7	.	.	0.8	ns	.	.
C.V. (%)	12.7	.	.	3.8	.	.	.
<u>Mid- to Full-Season Hybrids</u>							
DEKALB DKC69-70	254.0	.	.	17.2	0.0	0.8	41
DEKALB DKC69-71	242.4	.	.	16.6	0.0	0.5	40
Croplan 818RR/Bt	240.8	.	.	15.8	0.0	0.8	37
FFR 900Bt	240.1	244.2	.	15.4	0.0	1.8	37
Golden Harvest H-9498Bt	229.1	222.5	.	14.8	0.0	2.3	37
Genesis 2D16YGCB	218.7	.	.	15.2	0.0	1.8	29
Genesis 2E15YGCB	218.5	.	.	15.8	0.0	1.8	31

**Table 9. Performance of Irrigated Corn Hybrids, Keiser, AR, 2004, Continued.**

Brand/Hybrid	Yield bu/A	2-Year <sup>1</sup> Avg. bu/A	3-Year <sup>2</sup> Avg. bu/A	Grain Moist %	Root Lodg.	Stalk Lodg.	Ear Ht. in.
<u>Mid- to Full-Season Hybrids Continued</u>							
Pioneer 31N28YGCB	214.6	.	.	15.8	0.0	0.8	32
Dyna Gro CX03419	212.6	.	.	15.3	0.0	8.3	48
Genesis 2D16RRYGCB	211.1	.	.	14.7	0.0	2.0	29
NK Brand N82-A7	209.5	.	.	15.4	0.0	0.3	40
Genesis 2A16YG	208.4	209.8	.	15.4	0.0	1.8	32
Croplan 799Bt	204.1	.	.	14.7	0.0	1.0	29
Garst 8200YG1	201.4	.	.	15.8	0.0	0.6	36
DEKALB DK697	199.0	210.0	203.2	15.4	0.0	7.8	38
FFR 849CL	193.6	213.1	.	15.3	0.0	4.3	33
Pioneer 31G66	190.8	209.6	.	15.1	0.0	6.8	32
Dyna Gro CX03318	188.2	.	.	15.3	0.0	3.5	42
Triumph 1866Bt	187.0	194.9	174.9	15.4	0.0	4.0	41
Genesis 4C16RRYGCB	182.1	.	.	15.3	0.0	1.8	40
Garst 8292YG1	182.0	.	.	15.8	0.0	0.8	29
Pioneer 32D99	179.7	205.8	.	15.5	0.0	11.3	40
Golden Harvest H-9461	179.4	.	.	15.5	0.0	13.5	27
Pioneer 32P76YGCB	170.0	183.0	.	16.2	0.0	0.8	37
Pioneer 31G97RR	162.9	.	.	15.5	0.0	8.8	41
Dyna Gro CX03218	162.1	.	.	16.1	0.0	5.5	44
Genesis 2A16RR	158.2	184.8	.	14.8	0.0	8.8	37
Golden Acres X-6420Bt	155.1	.	.	16.1	0.0	2.3	46
Dyna Gro CX04219	143.1	.	.	15.9	0.0	6.3	39
Unity Seeds 6296	139.4	.	.	15.4	0.0	11.3	31
Grand mean	195.9	.	.	15.5	0.0	4.1	37
LSD (5%)	39.5	.	.	0.7	ns	4.3	.
C.V. (%)	14.3	.	.	3.4	.	.	.

<sup>1</sup> Average yield for 2003 and 2004.<sup>2</sup> Average yield for 2002, 2003 and 2004.

**Table 9. Performance of Irrigated Corn Hybrids, Keiser, AR, 2004, Continued.**

Soil Series.....	Sharkey clay
Previous Crop.....	Soybean
Row Width.....	38"
Preplant Herbicide.....	None
Preplant Fertilizer.....	50 lbs./A N.P.K., 3-15-04
Planting Date.....	4-17-04
Irrigation Dates.....	6-08-04, 6-14-04, 6-25-04, 7-13-04
Sidedress Fertilizer.....	225 lbs./A N (32%), 5-21-04
Postemergence Herbicide.....	4 qts./A Lariat, 14 oz./A Basic Gold, 4-29-04
Insecticide Application.....	0.24 oz./A Regent in furrow, 4-17-04
Harvest Date.....	Early- to mid-season hybrids: 9-15-04 Mid- to full-season 9-15-04

Precipitation (inches)

	April	May	June	July	August	Total
2004	6.3	6.5	2.6	7.2	3.4	26.0
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	+1.4	+1.3	-1.4	+3.5	+0.6	+5.4

**Table 10. Performance of Irrigated Corn Hybrids, Marianna, AR, 2004.**

Brand/Hybrid	Yield bu/A	2-Year <sup>1</sup> Avg. bu/A	3-Year <sup>2</sup> Avg. bu/A	Grain Moist %	Root Lodg.	Stalk Lodg.	Ear Ht. in.
<u>Early- to Mid-Season Hybrids</u>							
Terral TVX24BR401	215.3	.	.	18.9	0.0	0.5	52
BEXY004	214.3	.	.	19.3	0.0	0.5	44
Terral TVX25B404	213.1	.	.	19.9	0.0	1.3	45
Terral TV2140nRR	212.9	213.4	203.0	19.1	0.0	2.5	45
Terral TVX26B401	212.6	.	.	20.4	0.0	4.3	52
BEXR001	211.5	.	.	21.3	0.0	3.8	42
Belle 1830Y	211.0	.	.	19.2	0.0	2.8	40
FFR 736Bt	209.5	216.2	214.5	19.3	0.0	0.0	43
Belle 2222RY	209.4	.	.	18.9	0.0	1.6	41
Terral TVX26B402	208.0	.	.	20.5	0.0	1.0	51
Terral TVX26B404	207.8	.	.	19.5	0.0	1.8	44
NK Brand N70-T9	207.7	210.0	.	19.5	0.0	2.3	34
Terral TV2160Bt	207.5	219.0	209.7	18.3	0.0	0.3	43
Belle 1430Y	207.1	210.7	.	18.8	0.0	0.6	48
Terral TVX26BR401	205.4	.	.	17.6	0.0	3.8	43
Terral TVX25B403	205.0	.	.	18.8	0.0	1.8	49
Belle 1533Y	204.4	.	.	18.4	0.0	4.8	37
Belle 1515C	203.9	.	.	19.8	0.0	1.8	52
Triumph 1416Bt	203.8	220.5	.	18.2	0.0	1.0	39
Terral TVX25R401	203.6	.	.	20.8	0.0	3.3	43
BEXY005	203.3	.	.	16.5	0.0	0.9	44
Genesis 2E15RRYGCB	203.1	.	.	20.3	0.0	2.0	46
BEXR004	202.8	.	.	21.3	0.0	4.3	43
DEKALB DKC61-45	202.5	.	.	18.1	0.0	0.8	46
Terral TVX24B402	202.1	.	.	19.4	0.0	0.5	48
Terral TVX25R31	201.4	.	.	19.3	0.0	1.2	40
Golden Harvest H-9166	201.1	.	.	18.2	0.0	5.5	43
Croplan 631RR/BTZ	200.5	.	.	20.8	0.0	0.3	47
Terral TV25BR23	200.3	.	.	18.8	0.0	3.5	50
Terral TV26B23	199.0	213.5	.	18.9	0.0	5.5	51
DEKALB DKC63-50	198.6	.	.	17.6	0.0	2.2	36
Terral TV25B30	198.2	207.9	.	18.6	0.0	2.4	51
Terral TVX27B401	197.9	.	.	18.5	0.0	3.3	43
Terral TV26BR10n	197.5	210.5	206.4	19.9	0.0	5.0	50
Terral TVX24B403	197.4	.	.	17.2	0.0	10.2	52
Genesis 3215RR	196.8	207.5	.	18.6	0.0	2.0	36
BEXC004	196.8	.	.	17.6	0.0	2.8	44
Bio Gene CV1143	196.0	.	.	18.1	0.0	0.5	36
Dyna Gro 57K14	195.8	203.9	.	17.8	0.0	2.0	39
DEKALB DKC63-81	194.9	.	.	18.9	0.0	1.5	35
DEKALB DKC64-11	194.7	.	.	17.5	0.0	2.3	53
DEKALB DKC60-19	194.5	.	.	16.0	0.0	5.0	47
Belle 1210C	194.3	.	.	21.4	0.0	3.0	33

**Table 10. Performance of Irrigated Corn Hybrids, Marianna, AR, 2004, Continued.**

Brand/Hybrid	Yield bu/A	2-Year <sup>1</sup> Avg. bu/A	3-Year <sup>2</sup> Avg. bu/A	Grain Moist %	Root Lodg.	Stalk Lodg.	Ear Ht. in.
<u>Early- to Mid-Season Hybrids Continued</u>							
DEKALB DKC63-52	194.3	.	.	16.6	0.0	3.3	33
Belle 1540RY	194.2	201.7	.	18.0	0.0	0.3	53
Terral TVX23R404	194.0	.	.	20.0	0.0	10.5	41
Pioneer 33N56	193.9	.	.	16.9	0.0	5.5	48
Golden Acres 2831RRB	193.9	.	.	17.8	0.0	0.0	38
Terral TV2130	193.6	210.3	204.4	16.9	0.0	0.8	49
Genesis 3214YG	193.5	214.3	.	18.5	0.0	2.3	34
Genesis 3215C	191.3	.	.	19.0	0.0	3.0	41
Terral TV24R10	191.1	198.9	.	19.0	0.0	2.0	48
Dyna Gro 57F87	189.7	.	.	18.0	0.0	11.1	36
BEXY006	189.2	.	.	17.5	0.0	0.5	48
Garst 8350YG1	189.1	203.2	.	15.9	0.0	1.5	40
Dyna Gro 5528Bt	188.8	208.2	209.7	19.9	0.0	2.0	32
FFR 835Bt	188.4	.	.	18.5	0.0	4.2	44
Terral TV26B34	187.7	.	.	18.4	0.0	6.8	40
Belle 1525R	187.5	.	.	19.0	0.0	3.3	38
Terral TVX23R401	187.5	.	.	18.4	0.0	2.0	35
Golden Acres 2841RRB	184.8	.	.	17.3	0.0	1.3	44
Belle 1545RY	184.8	.	.	18.1	0.0	13.8	37
Pioneer 34B20YGCB/RR	184.4	.	.	17.8	0.0	1.5	38
BEXRY001	182.7	.	.	18.3	0.0	8.3	38
Terral TVX23R31	182.7	.	.	18.4	0.0	17.5	48
Golden Acres 2828RR	182.7	195.8	.	17.1	0.0	1.0	38
Unity Seeds 6250	181.5	.	.	16.9	0.0	4.8	40
NK Brand N72-J5	180.6	197.5	.	17.7	0.0	11.5	45
Terral TVX25BR013	177.8	197.8	.	17.1	0.0	2.0	40
DEKALB DKC61-42	177.7	191.0	.	17.0	0.0	1.3	34
Terral TVX24R401	177.4	.	.	18.3	0.0	1.8	48
Unity Seeds 711Bt	172.8	.	.	17.7	0.0	4.0	42
Pioneer 33M54	171.4	191.9	.	17.3	0.0	3.5	40
Bio Gene BT1150	165.9	.	.	19.6	0.0	12.5	41
Grand mean	195.9	.	.	18.6	0.0	3.4	43
LSD (5%)	30.2	.	.	2.4	ns	.	.
C.V. (%)	11.1	.	.	9.3	.	.	.

<sup>1</sup> Average yield for 2003 and 2004.<sup>2</sup> Average yield for 2002, 2003 and 2004.

**Table 10. Performance of Irrigated Corn Hybrids, Marianna, AR, 2004, Continued.**

Soil Series.....	Calloway silt loam	
Previous Crop.....	Soybean	
Row Width.....	30"	
Preplant Herbicide.....	None	
Preplant Fertilizer.....	265 lbs./A 0-23-30, 3-30-04	
Planting Date.....	4-05-04	
Irrigation Dates.....	7-12-04, 7-19-04, 7-23-04, 7-30-04, 8-03-04, 8-09-04, 8-14-04	
Sidedress Fertilizer.....	100 lbs./A 36-0-0-5.4 (sulphur) -4.5 (zinc), 4-09-04; 220 lbs./A 46-0-0, 5-20-04; 176 lbs./A 46-0-0, 6-04-04	
Herbicide Applications.....	1.55 pts./A Dual, 4-06-04; 2 qts./A Atrazine, 4-28-04	
Insecticide Application.....	None	
Harvest Date.....	Early- to mid-season hybrids:	8-20-04, 8-23-04
	Mid- to full-season	8-23-04, 8-24-04

	<u>Precipitation (inches)</u>					
	April	May	June	July	August	Total
2004	6.3	6.5	2.6	7.2	3.4	26.0
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	+1.4	+1.3	-1.4	+3.5	+0.6	+5.4

**Table 11. Performance of Irrigated Corn Hybrids, Stuttgart<sup>1</sup>, AR, 2004.**

Brand/Hybrid	Yield bu/A	Grain Moist %	Root Lodg.	Stalk <sup>2</sup> Lodg. %	Ear Height in.
<u>Early- to Mid-Season Hybrids</u>					
Genesis 2E15RRYGCB	221.3	14.4	0.0	0.0	48
Belle 1545RY	214.1	14.4	0.0	0.0	43
Terral TVX27B401	210.5	13.4	0.0	0.0	52
Triumph 1416Bt	208.8	13.1	0.0	0.0	41
Belle 1830Y	208.7	14.6	0.0	0.0	46
Belle 2222RY	205.2	13.2	0.0	0.0	46
Genesis 3214YG	203.7	13.5	0.0	0.0	45
Terral TV25BR23	202.3	13.2	0.0	0.0	41
Terral TVX26BR401	200.6	14.6	0.0	0.0	42
Terral TVX24B403	200.3	13.6	0.0	0.0	50
DEKALB DKC61-45	200.1	13.2	0.0	0.0	42
Terral TV26B23	199.9	14.2	0.0	0.0	49
Terral TV2160Bt	199.9	14.0	0.0	0.0	50
Golden Acres 2831RRB	197.5	13.7	0.0	7.5	46
DEKALB DKC64-11	196.6	12.8	0.0	0.0	48
BEXY004	196.4	13.4	0.0	0.0	47
Dyna Gro 57F87	196.1	14.3	0.0	0.0	44
Terral TV25B30	195.2	13.9	0.0	0.0	51
DEKALB DKC63-52	195.1	13.5	0.0	0.0	38
BEXRY001	195.0	13.6	0.0	2.5	43
Terral TVX26B402	194.8	14.8	0.0	0.0	50
Terral TVX25B404	193.0	14.4	0.0	0.0	49
Terral TVX24BR401	192.8	13.6	0.0	0.0	52
Belle 1430Y	192.1	14.0	0.0	0.0	53
Golden Acres 2841RRB	191.8	13.7	0.0	0.0	44
Terral TVX26B404	190.1	13.7	0.0	0.0	51
Terral TVX26B401	189.4	14.2	0.0	0.0	49
Terral TV26B34	189.0	14.9	0.0	0.0	45
DEKALB DKC63-50	188.9	13.4	0.0	0.0	41
Terral TVX25BR013	188.6	13.9	0.0	0.0	44
Garst 8350YG1	187.9	13.1	0.0	0.0	46
Bio Gene CV1143	187.0	14.2	0.0	0.0	38
Dyna Gro 5528Bt	187.0	13.2	0.0	5.0	48
Croplan 631RR/BTZ	185.8	13.4	0.0	0.0	36
BEXY005	185.8	13.0	0.0	0.0	44
Terral TVX25B403	185.5	14.0	0.0	0.0	46
Terral TV26BR10n	182.3	13.1	0.0	0.0	48
Belle 1540RY	177.2	13.0	0.0	0.0	45
Terral TVX24B402	176.6	14.6	0.0	7.5	52
DEKALB DKC63-81	175.8	13.2	0.0	0.0	43
FFR 835Bt	173.8	14.4	0.0	2.5	39
FFR 736Bt	172.5	13.9	0.0	0.0	40
Belle 1533Y	168.3	14.5	0.0	5.0	42
Pioneer 34B20YGCB/RR	163.4	13.8	0.0	0.0	41
NK Brand N70-T9	157.4	14.0	0.0	7.5	37

**Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, AR, 2004<sup>1</sup>, Continued.**

Brand/Hybrid	Yield bu/A	Grain Moist %	Root Lodg.	Stalk <sup>2</sup> Lodg. %	Ear Height in.
<u>Early- to Mid-Season Hybrids Continued</u>					
Bio Gene BT1150	156.5	13.7	0.0	7.5	40
BEXY006	156.3	14.6	0.0	12.5	44
Unity Seeds 711Bt	155.5	13.0	0.0	8.8	40
DEKALB DKC60-19	147.6	13.3	0.0	7.5	36
Terral TVX23R401	119.1	14.3	0.0	16.3	47
Terral TV2130	116.5	13.1	0.0	21.3	51
Terral TVX25R31	116.5	13.6	0.0	21.3	41
Terral TVX25R401	115.6	14.4	0.0	20.0	41
Terral TVX24R401	115.3	13.2	0.0	22.5	44
BEXR001	114.6	14.5	0.0	27.5	45
Terral TVX23R31	111.6	14.1	0.0	16.3	48
Belle 1515C	111.2	13.9	0.0	27.5	43
Terral TV2140nRR	110.4	12.8	0.0	35.0	40
Terral TVX23R404	107.5	14.0	0.0	17.5	53
Genesis 3215C	103.4	13.4	0.0	22.5	54
Terral TV24R10	102.8	13.6	0.0	25.0	48
Pioneer 33M54	100.9	13.6	0.0	33.8	42
Genesis 3215RR	99.4	13.1	0.0	22.5	47
Unity Seeds 6250	97.4	12.6	0.0	30.0	45
Pioneer 33N56	95.4	13.3	0.0	38.8	44
BEXR004	93.8	14.4	0.0	26.3	48
Golden Acres 2828RR	88.1	12.9	0.0	17.5	40
Golden Harvest H-9166	87.0	13.3	0.0	33.8	38
Belle 1525R	87.0	13.8	0.0	27.5	48
DEKALB DKC61-42	84.9	12.6	0.0	38.8	38
Dyna Gro 57K14	80.5	12.2	0.0	41.3	38
NK Brand N72-J5	74.4	13.0	0.0	53.8	44
BEXC004	68.7	12.8	0.0	40.0	44
Belle 1210C	62.4	14.6	0.0	56.3	42
Grand mean	158.2	13.7	0.0	10.9	45
LSD (5%)	24.6	0.6	ns	.	.
C.V. (%)	11.2	3.1	.	.	.
<u>Mid- to Full-Season Hybrids</u>					
DEKALB DKC69-70	232.4	14.6	0.0	0.0	41
Genesis 2D16YGCB	208.1	14.4	0.0	0.0	41
Genesis 2E15YGCB	207.5	14.4	0.0	0.0	48
DEKALB DKC69-71	206.3	14.3	0.0	0.0	42
Croplan 818RR/Bt	203.7	15.3	0.0	0.0	42
Pioneer 31N28YGCB	199.4	14.1	0.0	0.0	43
Triumph 1866Bt	199.3	14.0	0.0	0.0	52
Genesis 2D16RRYGCB	188.4	13.7	0.0	0.0	41
Genesis 2A16YG	188.3	14.0	0.0	0.0	43



**Table 11. Performance of Irrigated Corn Hybrids, Stuttgart, AR, 2004<sup>1</sup>, Continued.**

Brand/Hybrid	Yield bu/A	Grain Moist %	Root Lodg.	Stalk <sup>2</sup> Lodg. %	Ear Height in.
<u>Mid-</u>					
<u>to Full-Season Hybrids Continued</u>					
Genesis 4C16RRYGCB	187.1	13.6	0.0	0.0	47
Golden Acres X-6420Bt	185.3	14.6	0.0	0.0	39
Croplan 799Bt	179.9	13.7	0.0	2.5	36
Dyna Gro CX03419	178.7	13.4	0.0	7.5	51
NK Brand N82-A7	173.4	14.7	0.0	0.0	48
Garst 8292YG1	169.8	14.6	0.0	8.8	45
Garst 8200YG1	164.7	14.8	0.0	5.0	52
Pioneer 32P76YGCB	153.9	14.2	0.0	17.5	46
FFR 900Bt	150.1	14.8	0.0	0.0	42
Golden Harvest H-9498Bt	137.7	13.2	0.0	2.5	41
DEKALB DK697	110.6	13.1	0.0	26.3	46
Genesis 2A16RR	107.5	13.2	0.0	23.8	39
Dyna Gro CX03318	106.1	13.5	0.0	26.3	45
Pioneer 31G97RR	105.7	13.1	0.0	26.3	46
Dyna Gro CX04219	105.4	13.9	0.0	25.0	46
Dyna Gro CX03218	97.3	13.9	0.0	22.5	48
FFR 849CL	87.0	13.6	0.0	42.5	39
Pioneer 31G66	82.5	13.4	0.0	45.0	48
Pioneer 32D99	82.3	14.1	0.0	55.0	49
Golden Harvest H-9461	63.0	13.3	0.0	48.8	46
Unity Seeds 6296	62.9	13.0	0.0	47.5	47
Grand mean	150.8	13.9	0.0	14.4	45
LSD (5%)	26.0	0.7	ns	.	.
C.V. (%)	12.2	3.4	.	.	.

<sup>1</sup> This test was severely infested with Southwestern Corn Borers, which resulted in extensive stalk tunneling, plant lodging, and yield reduction for non Bt hybrids.

<sup>2</sup> Stalk lodging ratings based on visual estimate of percent lodged plants.

Soil Series..... Crowley silt loam  
 Previous Crop..... fallow  
 Row Width..... 32 inches  
 Preplant Herbicide..... None  
 Preplant Fertilizer..... 75-60-90/A, 4-05-04  
 Planting Date..... 4-20-04  
 Irrigation Dates..... 5-27, 6-11, 7-19, 7-26  
 Sidedress Fertilizer..... 275 lbs./A Urea, 5-27-04  
 Herbicide Applications..... 1.3 qts./A Bicep II, 4-26-04; 1 qt./A Atrazine + 0.66 oz./A of Accent, 5-20-04  
 Insecticide Application..... None  
 Harvest Date..... Early- to mid-season hybrids: 9-04-04  
 Mid- to full-season 9-04-04

Precipitation (inches)

	April	May	June	July	August	Total
2004	5.2	6.0	6.4	3.6	1.7	22.9
Average	5.6	4.7	3.6	3.4	2.8	20.1
Departure	-0.4	+1.3	+2.8	+0.2	-1.1	+2.8

**Table 12. Performance of Irrigated Corn Hybrids, Rohwer, AR, 2004.**

Brand/Hybrid	Yield bu/A	2-Year <sup>1</sup> Avg. bu/A	3-Year <sup>2</sup> Avg. bu/A	Grain Moist %	Root Lodg.	Stalk Lodg.	Plants/ Acre	Ear Ht. in.
<u>Early- to Mid-Season Hybrids</u>								
BEXRY001	220.8	.	.	16.3	1.0	1.0	29052	49
Terral TVX27B401	217.8	.	.	16.6	1.0	1.0	30173	58
Terral TVX26B404	213.3	.	.	16.4	1.0	1.0	27500	48
BEXC004	212.4	.	.	16.7	1.0	1.0	24569	43
Genesis 2E15RRYGCB	210.0	.	.	17.1	1.0	1.0	26724	51
Croplan 631RR/BTZ	209.4	.	.	15.7	1.0	1.0	29138	38
Terral TVX24B403	208.9	.	.	15.6	1.0	1.0	27931	55
Belle 2222RY	208.6	.	.	16.7	1.0	1.0	29138	43
Dyna Gro 5528Bt	208.2	173.7	182.1	16.5	1.0	1.0	28190	53
Terral TV26B34	206.8	.	.	17.1	1.3	1.0	26983	44
BEXY004	206.3	.	.	16.5	1.0	1.0	28276	47
Terral TVX25B404	205.9	.	.	16.6	1.0	1.0	27241	50
Terral TVX26B402	205.4	.	.	17.1	1.0	1.0	27845	50
Terral TV26B23	204.3	158.7	.	16.5	1.0	1.0	28793	56
Belle 1545RY	203.4	.	.	16.9	1.0	1.0	26466	46
Genesis 3214YG	199.9	176.7	.	16.0	1.0	1.0	29914	47
BEXY006	198.3	.	.	17.0	1.0	1.0	27414	59
Terral TVX26B401	198.1	.	.	16.6	1.0	1.0	27500	57
Terral TVX24BR401	197.9	.	.	15.6	1.0	1.0	26810	57
Bio Gene CV1143	196.9	.	.	17.1	1.0	1.0	27500	43
Belle 1830Y	195.7	.	.	17.1	1.0	1.0	27759	51
NK Brand N72-J5	195.7	160.6	.	15.9	1.0	1.0	28276	42
Terral TVX26BR401	195.6	.	.	16.9	1.0	1.0	26897	48
Dyna Gro 57F87	195.5	.	.	16.6	1.0	1.0	25604	45
Pioneer 34B20YGCB/RR	195.3	.	.	15.9	1.0	1.5	27672	41
Golden Acres 2831RRB	193.4	.	.	15.9	1.0	1.0	29052	44
BEXY005	191.8	.	.	16.4	1.0	1.0	26552	47
Triumph 1416Bt	190.8	160.2	.	16.2	1.0	1.0	26810	42
Golden Acres 2841RRB	189.1	.	.	16.2	1.0	1.0	27587	48
Terral TVX25R31	189.1	.	.	16.9	1.0	1.0	27069	48
Belle 1430Y	188.5	155.4	.	16.7	1.0	1.0	27931	53
DEKALB DKC64-11	187.9	.	.	15.3	1.0	1.0	28621	49
Terral TV2140nRR	187.6	131.6	154.3	16.2	1.0	1.0	27931	57
Terral TVX25R401	186.3	.	.	17.6	1.0	1.0	27414	51
Pioneer 33M54	185.8	178.9	.	16.1	1.0	1.8	29397	47
NK Brand N70-T9	185.7	168.5	.	16.1	1.0	1.0	27328	41
Genesis 3215RR	185.0	156.5	.	15.9	1.0	1.5	26983	40
DEKALB DKC63-52	184.9	.	.	15.6	1.0	1.0	27242	37
BEXR001	184.7	.	.	18.0	1.0	1.3	27414	50
DEKALB DKC61-45	184.5	.	.	15.1	1.0	1.0	29052	41
Unity Seeds 711Bt	184.2	.	.	15.8	1.0	1.0	26293	47
DEKALB DKC63-50	183.6	.	.	16.0	1.0	1.0	28707	36
Terral TVX24B402	183.4	.	.	17.1	1.0	1.0	29052	55
Terral TVX25BR013	182.4	157.9	.	15.7	1.0	1.0	28880	51

**Table 12. Performance of Irrigated Corn Hybrids, Rohwer, AR, 2004, Continued.**

Brand/Hybrid	Yield bu/A	2-Year <sup>1</sup> Avg. bu/A	3-Year <sup>2</sup> Avg. bu/A	Grain Moist %	Root Lodg.	Stalk Lodg.	Plants/ Acre	Ear Ht. in.
<u>Early- to Mid-Season Hybrids Continued</u>								
Dyna Gro 57K14	182.1	156.3	.	15.4	1.0	1.0	26983	39
FFR 736Bt	182.1	144.1	161.9	15.6	1.0	1.3	25949	44
FFR 835Bt	181.9	.	.	16.7	1.0	1.0	25000	47
Terral TVX23R404	181.8	.	.	17.1	1.3	1.5	26897	56
Terral TVX25B403	181.7	.	.	16.0	1.0	1.0	23793	53
Bio Gene BT1150	181.2	.	.	16.7	1.0	1.0	26811	44
Terral TV26BR10n	180.7	134.6	159.7	16.0	1.0	1.3	29052	48
Genesis 3215C	180.5	.	.	16.5	1.3	1.0	28276	56
Terral TVX24R401	180.2	.	.	16.7	1.0	1.3	24914	57
Belle 1540RY	179.3	143.3	.	16.0	1.0	1.0	27587	48
Terral TV2130	179.3	137.5	161.4	15.6	1.0	1.0	26810	53
Terral TV25BR23	179.0	.	.	16.6	1.0	1.0	28017	44
Terral TV25B30	178.6	148.0	.	16.4	1.0	1.0	30086	54
Terral TV2160Bt	177.2	161.9	166.4	16.1	1.0	1.0	25862	50
Belle 1533Y	176.7	.	.	16.5	1.0	1.0	26552	46
BEXR004	175.9	.	.	17.8	1.0	1.3	26724	55
Belle 1515C	174.5	.	.	17.2	1.3	1.0	26380	56
DEKALB DKC60-19	174.3	.	.	15.6	1.0	1.0	27414	36
Terral TV24R10	174.0	142.9	.	16.9	2.0	1.0	27672	56
Pioneer 33N56	167.8	.	.	15.4	1.0	1.0	26379	46
Terral TVX23R31	167.0	.	.	16.2	1.0	1.5	27759	54
Unity Seeds 6250	164.7	.	.	15.1	1.8	1.0	27759	49
Belle 1210C	164.1	.	.	17.6	1.3	1.0	26724	55
Golden Harvest H-9166	163.9	.	.	15.8	1.8	1.0	28793	46
Garst 8350YG1	163.5	150.3	.	15.3	1.0	1.0	25259	49
DEKALB DKC63-81	162.9	.	.	15.5	1.0	1.0	28966	42
Golden Acres 2828RR	162.1	142.0	.	15.8	1.0	1.3	25517	48
Terral TVX23R401	161.5	.	.	17.4	1.0	1.0	26983	54
DEKALB DKC61-42	159.2	143.5	.	15.5	1.0	1.0	28276	42
Belle 1525R	152.8	.	.	17.0	1.0	1.0	26121	57
Grand mean	187.2	.	.	16.3	1.1	1.1	27459	49
LSD (5%)	20.1	.	.	0.6	.	.	.	.
C.V. (%)	7.8	.	.	2.5	.	.	.	.
<u>Mid- to Full-Season Hybrids</u>								
Pioneer 31G97RR	228.2	.	.	16.1	1.0	1.0	31379	54
Pioneer 32D99	222.8	.	.	17.1	1.3	1.0	28276	55
Genesis 2D16YGCB	211.9	.	.	16.6	1.0	1.0	29052	44
Pioneer 31G66	210.8	.	.	16.4	1.0	1.0	30173	45
Genesis 2D16RRYGCB	208.3	.	.	16.4	1.0	1.0	29914	47
Golden Harvest H-9498Bt	207.8	.	.	16.2	1.0	1.0	30345	53
Pioneer 31N28YGCB	206.1	.	.	16.3	1.0	1.0	29656	42

**Table 12. Performance of Irrigated Corn Hybrids, Rohwer, AR, 2004, Continued.**

Brand/Hybrid	Yield bu/A	2-Year <sup>1</sup> Avg. bu/A	3-Year <sup>2</sup> Avg. bu/A	Grain Moist %	Root Lodg.	Stalk Lodg.	Plants/ Acre	Ear Ht. in.
<u>Mid- to Full-Season Hybrids Continued</u>								
Golden Harvest H-9461	204.2	.	.	16.5	1.0	1.5	30259	48
Pioneer 32P76YGCB	203.4	.	.	16.5	1.0	1.0	29569	50
DEKALB DKC69-70	202.0	.	.	18.4	1.0	1.0	31293	48
Triumph 1866Bt	201.0	158.5	160.6	16.5	1.0	1.0	27155	50
Croplan 818RR/Bt	200.6	.	.	17.1	1.0	1.0	31035	48
NK Brand N82-A7	198.6	.	.	17.0	1.0	1.0	29741	54
Genesis 2A16RR	193.4	.	.	16.4	1.5	1.0	32931	56
Garst 8200YG1	193.0	.	.	17.5	1.0	1.0	30000	48
Garst 8292YG1	191.9	.	.	17.4	1.0	1.0	28104	42
Genesis 2E15YGCB	190.7	.	.	16.9	1.0	1.5	29397	45
Genesis 2A16YG	189.9	.	.	16.4	1.0	1.0	29655	54
Genesis 4C16RRYGCB	188.6	.	.	15.7	1.0	1.3	26724	53
DEKALB DK697	187.9	153.3	166.9	17.1	2.0	1.0	28966	49
Dyna Gro CX04219	186.7	.	.	17.4	1.5	1.0	30862	48
DEKALB DKC69-71	186.1	.	.	17.8	1.0	1.0	27069	50
Golden Acres X-6420Bt	185.9	.	.	17.1	1.0	1.0	27414	58
Croplan 799Bt	184.4	.	.	16.2	1.0	1.0	31552	47
FFR 849CL	183.2	.	.	17.0	1.5	1.0	28707	45
Dyna Gro CX03419	182.3	.	.	16.4	1.0	1.0	27672	58
FFR 900Bt	180.0	.	.	17.0	1.0	1.0	27845	47
Dyna Gro CX03318	176.6	.	.	16.6	1.0	1.0	30517	55
Dyna Gro CX03218	172.7	.	.	17.3	1.3	1.0	29052	55
Unity Seeds 6296	161.2	.	.	15.6	1.3	1.0	26983	42
Grand mean	194.7	.	.	16.8	1.1	1.0	29377	50
LSD (5%)	21.1	.	.	0.5	.	.	.	.
C.V. (%)	7.7	.	.	2.3	.	.	.	.

<sup>1</sup> Average yield for 2003 and 2004.<sup>2</sup> Average yield for 2002, 2003 and 2004.

**Table 12. Performance of Irrigated Corn Hybrids, Rohwer, AR, 2004, Continued.**

Soil Series.....	Sharkey Desha silt loam	
Previous Crop.....	Grain sorghum	
Row Width.....	38"	
Preplant Herbicide.....	None	
Preplant Fertilizer.....	400 lbs./A 0-46-60, 3-11-04	
Planting Date.....	4-05-04	
Irrigation Dates.....	5-26-04, 6-08-04, 6-16-04, 7-12-04, 7-21-04	
Sidedress Fertilizer.....	275 lbs./A Urea (46%), 4-22-04; 275 lbs./A Urea (46%), 5-21-04	
Herbicide Applications.....	1.25 pts./A Dual Magnum II, 4-06-04; 2 qts./A Atrazine 4L, 4-20-04; 0.66 oz./A Accent, 5-21-04	
Insecticide Application.....	1.5 pts./A Lorsban, 4-19-04	
Harvest Date.....	Early- to mid-season hybrids:	8-27-04
	Mid- to full-season	8-27-04

	<u>Precipitation (inches)</u>					
	April	May	June	July	August	Total
2004	4.2	4.8	5.6	3.0	1.0	18.6
Average	5.0	4.7	3.5	3.9	2.7	19.8
Departure	-.8	+.1	+2.1	-.9	-1.7	-1.2

**Table 13. Performance of Nonirrigated Corn Hybrids, Miller County, AR, 2004<sup>1</sup>.**

Brand/Hybrid	Yield bu/A	Grain Moist %	Stalk <sup>2</sup> Lodg.	Plants/ Acre	Ear Ht. in.	Test Weight lbs.
<u>Early- to Mid-Season Hybrids</u>						
Terral TVX25R31	168.5	16.0	2.0	24844	46	57.4
Triumph 1416Bt	166.6	12.1	3.0	28750	41	55.8
Terral TVX25R401	165.3	18.0	1.8	27188	45	56.6
Terral TVX24BR401	163.9	13.0	3.0	27266	54	56.5
Golden Harvest H-9166	163.0	16.1	1.0	30782	48	56.5
Terral TV26B34	162.4	13.3	3.3	28047	42	55.4
Terral TV26B23	161.5	15.3	1.5	27422	53	59.0
Belle 1533Y	159.6	15.4	1.3	25235	43	55.2
Belle 1525R	159.6	14.8	2.5	26485	53	59.2
Pioneer 33N56	158.4	14.4	1.8	27891	50	56.9
Bio Gene CV1143	157.9	12.6	2.0	28672	45	55.3
Terral TV26BR10n	157.8	12.8	4.0	28672	42	56.8
Terral TVX23R401	157.6	18.5	1.5	24453	55	58.0
BEXR001	157.5	19.3	2.0	25313	43	55.4
Unity Seeds 6250	156.8	14.2	2.7	26370	45	55.3
DEKALB DKC61-45	156.4	12.9	1.8	26172	42	55.5
NK Brand N70-T9	156.3	12.8	2.0	28828	37	55.5
Terral TVX23R404	156.3	15.4	2.3	28750	53	59.2
Belle 1515C	155.1	14.9	2.3	26954	50	58.7
Belle 1210C	154.9	17.9	2.0	25782	48	59.6
Terral TVX25B403	154.8	15.7	2.0	24219	52	58.1
Belle 2222RY	154.8	12.6	3.8	24141	42	55.3
Terral TVX23R31	154.1	18.0	1.8	24844	52	58.3
Terral TVX24R401	154.1	16.4	3.5	26563	52	56.9
NK Brand N72-J5	154.0	13.6	2.5	27579	42	55.0
BEXR004	153.9	18.4	1.5	25079	53	57.6
Terral TV25B30	151.6	16.3	2.0	25547	50	59.9
Terral TVX26B402	150.6	15.9	2.0	26172	50	58.1
Terral TVX25BR013	150.3	14.4	2.8	26797	51	58.4
DEKALB DKC60-19	149.8	13.8	2.3	28125	39	55.8
Genesis 3215C	149.5	15.2	3.3	29922	40	57.8
Golden Acres 2831RRB	148.9	12.6	2.5	28125	42	55.4
Dyna Gro 57F87	148.4	13.3	3.5	26172	44	55.5
BEXY006	148.3	16.0	1.3	26954	50	60.5
Terral TVX26BR401	146.6	15.6	2.0	25782	42	54.9
DEKALB DKC61-42	146.5	12.2	2.5	26328	44	55.5
Unity Seeds 711Bt	146.4	13.1	1.4	25120	43	56.2
DEKALB DKC63-52	146.1	12.8	1.3	27735	42	54.1
Terral TVX26B401	145.9	15.9	2.3	27422	54	59.7
Belle 1830Y	145.3	14.7	3.3	26954	47	58.2
Pioneer 33M54	144.6	13.9	2.5	27266	46	59.3
Terral TV2160Bt	144.0	14.8	2.8	24766	52	58.7
Belle 1545RY	143.0	14.3	2.8	25157	43	55.4
Terral TVX25B404	143.0	15.0	2.5	25313	48	55.5

**Table 13. Performance of Nonirrigated Corn Hybrids, Miller County, AR, 2004<sup>1</sup>.**

Brand/Hybrid	Yield bu/A	Grain Moist %	Stalk <sup>2</sup> Lodg.	Plants/ Acre	Ear Ht. in.	Test Weight lbs.
<u>Early- to Mid-Season Hybrids Continued</u>						
FFR 736Bt	142.5	14.7	1.5	25625	38	56.6
Belle 1430Y	142.3	16.6	2.0	24453	54	60.0
Terral TV2140nRR	141.7	13.4	3.3	25782	49	55.8
BEXRY001	141.7	11.4	3.3	26485	47	53.4
FFR 835Bt	141.7	12.6	4.3	26563	42	54.6
Genesis 3215RR	141.7	13.4	1.8	29063	39	54.9
Terral TV25BR23	141.6	12.0	2.8	28438	37	55.1
DEKALB DKC63-50	140.5	13.0	1.8	23594	40	54.1
Belle 1540RY	139.6	12.8	2.0	27735	41	55.9
BEXY004	138.8	12.5	3.0	25469	46	56.0
DEKALB DKC63-81	137.9	13.2	3.3	26406	40	57.1
Terral TV2130	137.6	13.5	2.0	24375	51	55.4
Dyna Gro 5528Bt	136.9	10.9	2.0	24531	50	53.4
Croplan 631RR/BTZ	136.5	11.2	2.5	27891	39	53.6
BEXY005	136.0	12.8	2.8	27032	47	54.0
Terral TVX27B401	135.8	14.0	3.5	26250	57	56.3
Pioneer 34B20YGCB/RR	135.5	13.7	1.2	24532	41	57.6
Genesis 2E15RRYGCB	134.4	15.0	4.3	28985	50	57.7
Terral TVX24B403	132.6	13.4	4.0	28672	50	56.7
Golden Acres 2841RRB	131.0	11.9	3.5	30860	41	53.4
Golden Acres 2828RR	130.7	12.2	2.5	27110	45	55.9
Terral TV24R10	129.6	18.0	1.5	26329	50	59.9
DEKALB DKC64-11	127.1	11.8	1.8	28360	46	52.2
Genesis 3214YG	126.6	12.8	2.3	27735	42	54.5
Dyna Gro 57K14	122.4	11.8	2.3	24454	40	53.9
BEXC004	122.4	11.8	3.5	28982	51	54.3
Terral TVX24B402	121.5	18.5	2.0	26016	52	60.6
Terral TVX26B404	120.2	14.2	3.3	27032	44	55.7
Bio Gene BT1150	117.1	15.2	2.5	25704	42	56.5
Garst 8350YG1	107.3	13.2	2.5	24219	49	57.2
Grand mean	145.4	14.3	2.4	26684	46	56.5
LSD (5%)	25.7	1.9	.	.	.	.
.C.V. (%)	12.8	9.8	.	.	.	.
<u>Mid- to Full-Season Hybrids</u>						
Triumph 1866Bt	166.1	12.5	3.0	26719	55	60.4
Genesis 2A16YG	164.9	12.9	3.0	29532	54	58.0
Dyna Gro CX04219	164.3	15.3	2.0	24219	52	57.8
Genesis 2E15YGCB	163.9	12.5	3.3	26797	48	58.3
Genesis 2A16RR	163.9	13.1	3.8	27040	55	58.1
Pioneer 31G66	163.9	12.3	2.3	28907	52	57.5
Garst 8292YG1	162.2	13.6	2.3	23985	50	58.1

**Table 13. Performance of Nonirrigated Corn Hybrids, Miller County, AR, 2004<sup>1</sup>.**

Brand/Hybrid	Yield bu/A	Grain Moist %	Stalk <sup>2</sup> Lodg.	Plants/ Acre	Ear Ht. in.	Test Weight lbs.
<u>Mid- to Full-Season Hybrids Continued</u>						
Croplan 799Bt	158.9	12.6	3.5	27110	41	58.8
Pioneer 32P76YGCB	157.1	12.7	3.0	26875	55	55.5
Garst 8200YG1	156.0	14.1	2.0	24375	46	58.4
Pioneer 31N28YGCB	155.9	12.8	4.5	27501	52	61.2
Unity Seeds 6296	154.5	11.5	2.5	26485	43	55.7
DEKALB DKC69-71	150.2	13.2	3.0	27578	53	59.5
Genesis 4C16RRYGCB	149.8	12.5	3.3	27891	52	59.2
Dyna Gro CX03218	147.3	15.6	1.8	26016	52	59.3
Golden Harvest H-9498Bt	146.1	11.1	2.8	27578	46	54.6
DEKALB DKC69-70	145.3	14.0	3.3	25547	55	58.7
Genesis 2D16YGCB	143.3	12.2	3.5	26016	43	56.4
Pioneer 32D99	142.8	14.1	2.0	27202	56	57.8
Genesis 2D16RRYGCB	142.5	11.2	3.8	28438	42	55.7
Golden Harvest H-9461	141.5	11.1	3.5	26797	47	54.4
FFR 900Bt	140.8	14.6	3.3	23594	46	55.9
Golden Acres X-6420Bt	139.4	14.3	3.3	23828	53	61.5
Dyna Gro CX03318	135.3	15.0	3.3	25157	55	55.0
Pioneer 31G97RR	132.4	12.0	3.0	25952	55	56.9
Croplan 818RR/Bt	127.3	13.3	4.8	28203	47	58.5
DEKALB DK697	126.1	12.5	4.8	24688	53	59.6
FFR 849CL	122.4	11.5	1.8	25157	51	53.7
Dyna Gro CX03419	118.8	12.7	3.8	24454	56	56.9
NK Brand N82-A7	113.4	13.3	3.7	27098	52	58.5
Grand mean	146.5	13.0	3.1	26358	50	57.7
LSD (5%)	25.7	1.1	.	.	.	.
C.V. (%)	12.4	6.2	.	.	.	.

<sup>1</sup> A severe storm on June 2<sup>nd</sup> caused extensive lodging and yield reduction.

<sup>2</sup> Lodging Scale: 1 = no significant lodging 2 = 5 -25% 3 = 25 -50% 4 = 50 - 80% 5 = 80% or greater

Soil Series..... Caspiana silt loam  
 Previous Crop..... Soybean  
 Row Width..... 38"  
 Preplant Herbicide..... None  
 Preplant Fertilizer..... 268 lbs./A 48-0-59, 3-17-04  
 Planting Date..... 3-26-04  
 Irrigation Dates..... None  
 Sidedress Fertilizer..... 0-0-50, 4-05-04, 150 lbs./A N (32%), 4-20-04  
 Herbicide Application..... 2 qts./A Atrazine, 3-31-04  
 Insecticide Application..... None  
 Harvest Date..... Early- to mid-season hybrids: 8-17-04  
 Mid- to full-season 8-17-04

**Participants and Entries  
2004 Grain Sorghum Test**



Company

Croplan Genetics  
4990 NCR 583  
Blytheville, AR 72315

FFR Seed  
969 Cloverleaf Drive  
Southaven, MS 38671

Garst Seed Company  
761 Walnut Knoll Lane, Suite 200  
Cordova, TN 38018

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

Golden Harvest Seeds  
P. O. Box 248  
Pekin, IL 61554

Monsanto Company  
982 U.S. Highway 77  
Bishop, TX 78343

Pioneer, A DuPont Company  
6767 Old Madison Pike, Suite 110  
Huntsville, AL 35806

Sorghum Partners, Inc.  
PO Box 189  
New Deal, TX 79350

Southern States Coop.  
P. O. Box 26234  
Richmond, VA 23260

Hybrid

Croplan Genetics 514

FFR 318  
FFR 322

Garst 5440  
Garst 5515  
Garst N3401

Golden Acres 3552  
Golden Acres 3694  
Golden Acres3827

Golden Harvest H-491  
Golden Harvest H-502

Asgrow A567  
Asgrow A571  
Asgrow A603  
DEKALB DKS 53-11  
DEKALB DKS 54-00  
Monsanto X-204  
Monsanto X-303  
Monsanto X-304

Pioneer Brand 83G15  
Pioneer Brand 83G66  
Pioneer Brand 84G62

Sorghum Partners 1486  
Sorghum Partners K73-J6  
Sorghum Partners KS735  
Sorghum Partners NK6673  
Sorghum Partners NK7633  
Sorghum Partners NK8416  
Sorghum Partners NK8817  
Sorghum Partners NK8828

Southern States SS-650  
Southern States SS-800

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

Terral TV1050  
Terral TV93S72  
Terral TV9421  
Terral TV96H81  
Terral TV97H17  
Terral TVX93S16  
Terral TVX94S34  
Terral TVX95B303  
Terral TVX95B304  
Terral TVX95B319  
Terral TVX95S25

Triumph Seed Co., Inc.  
PO Box 1050  
Ralls, TX 79357

TR461  
TR82-G

UAP Midsouth DynaGro Seed  
57 Germantown Court, Suite 200  
Cordova, TN 38018

DynaGro 751B  
DynaGro 762B  
DynaGro 780B  
DynaGro X1739  
DynaGro X1753  
DynaGro X1765

**Participants and Entries  
2004 Corn Tests**

Company

Hybrid

Belle Southern Hybrids  
PO Box 178 Hwy 42  
Fisher, AR 72426

Belle 1210C  
Belle 1430Y  
Belle 1515C  
Belle 1525R  
Belle 1533Y  
Belle 1540RY  
Belle 1545RY  
Belle 1830Y  
Belle 2222RY  
BEXC004  
BEXR001  
BEXR004  
BEXRY001  
BEXY004  
BEXY005  
BEXY006

Croplan Genetics  
4990 NCR 583  
Blytheville, AR 72315

Croplan Genetics 631RR/BTZ  
Croplan Genetics 799BT  
Croplan Genetics 818 RR/BT

FFR Seed  
969 Cloverleaf Drive  
Southaven, MS 38671

FFR 736Bt  
FFR 835Bt  
FFR 849CL  
FFR 900Bt

Garst Seed Company  
1005 Georgetown Cove  
West Memphis, AR 72301

Garst 8200YG1  
Garst 8292YG1  
Garst 8350YG1

Genesis Brand Seed  
PO Box 21085  
Lansing, MI 48909

2A16RR  
2A16YG  
2D16RRYGCB  
2D16YGCB  
2E15RRYGCB  
2E15YGCB  
3214YG  
3215C  
3215RR  
4C16RRYGCB

Golden Acres Genetics  
PO Box 579  
Buchanan Dam, TX 78609

Golden Acres 2828RR  
Golden Acres 2831RRB  
Golden Acres 2841RRB  
Golden Acres X-6420Bt

Golden Harvest Seeds  
PO Box 248  
Pekin, IL 61554

Golden Harvest H-9166  
Golden Harvest H-9461  
Golden Harvest H-9498BT

Monsanto Company  
3100 Sycamore Road

DEKALB DK 697  
DEKALB DKC 60-19

Bishop, TX 78343

DEKALB DKC 61-42  
DEKALB DKC 61-45  
DEKALB DKC 63-81  
DEKALB DKC 63-50  
DEKALB DKC 63-52  
DEKALB DKC 64-11  
DEKALB DKC 69-70  
DEKALB DKC69-71

Pioneer  
6767 Old Madison Pike, Suite 110  
Huntsville, AL 35806

Pioneer 31G66  
Pioneer 31G97RR  
Pioneer 31N28YGCB  
Pioneer 32P76YGCB  
Pioneer 32D99  
Pioneer 33M54  
Pioneer 33N56  
Pioneer 34B20YGCB/RR

Syngenta Seed  
535 Pennyrite Drive  
Madisonville, KY 42431

NK Brand N70-T9  
NK Brand N72-J5  
NK Brand N82-A7

Terral Seed, Inc.  
PO Box 826  
Lake Providence, LA 71254

Terral TV2130  
Terral TV2140nRR  
Terral TV2160Bt  
Terral TV24R10  
Terral TV25B30  
Terral TV25BR23  
Terral TV26B23  
Terral TV26B34  
Terral TV26BR10n  
Terral TVX23R31  
Terral TVX23R401  
Terral TVX23R404  
Terral TVX24B402  
Terral TVX24B403  
Terral TVX24BR401  
Terral TVX24R401  
Terral TVX25B403  
Terral TVX25B404  
Terral TVX25BR013  
Terral TVX25R31  
Terral TVX25R401  
Terral TVX26B401  
Terral TVX26B402  
Terral TVX26B404  
Terral TVX26BR401  
Terral TVX27B401

Triumph Seed Co., Inc.  
PO Box 1050  
Ralls, TX 79357

1416Bt  
1866Bt

UAP Midsouth DynaGro Seed  
57 Germantown Court, Suite 200  
Cordova, TN 38018

Dyna Gro 5528Bt  
Dyna Gro 57F87  
Dyna Gro 57K14  
Dyna Gro CXO3218  
Dyna Gro CXO3318  
Dyna Gro CXO3419  
Dyna Gro CXO4219

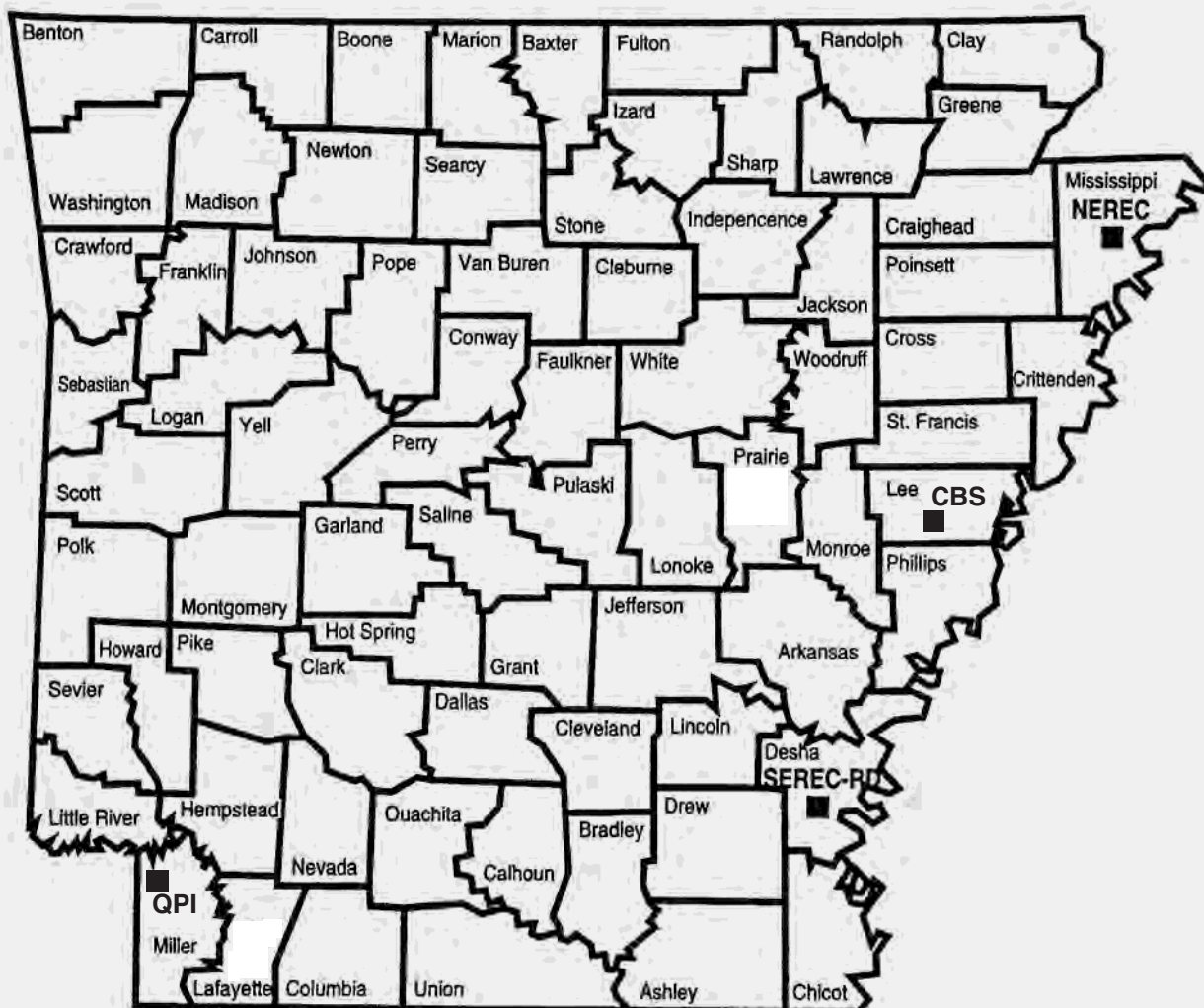
UniSouth Genetics, Inc.  
2640-C Nolensville Road  
Nashville, TN 37211

Bio Gene BT 1150  
Bio Gene CB 1143

Unity Seeds  
107 Fallon Street  
Kentland, IN 47951

Unity Seeds 6250  
Unity Seeds 6296  
Unity Seeds 711 Bt

## CORN TEST LOCATIONS



- NEREC** Northeast Research and Extension Center, Keiser, Arkansas
- SEREC-RD** Southeast Research and Extension Center-Rohwer Division, Rohwer, Arkansas
- CBS** Cotton Branch Station, Marianna, Arkansas
- QPI** Queen's Plantation, Inc., near Texarkana, Arkansas

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