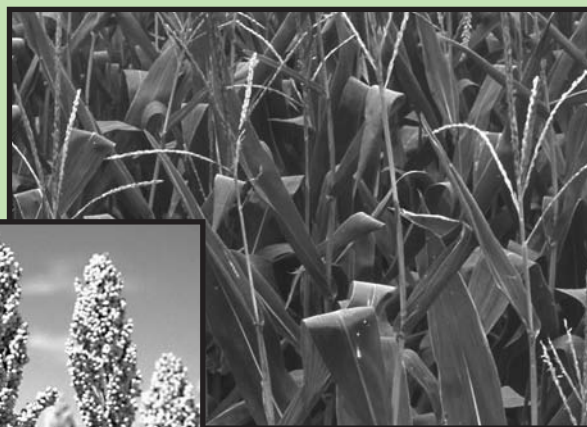


Arkansas Corn and Grain Sorghum Performance Tests

2005



D.G. Dombek
R.D. Bond
M.L. Coffee
I.L. Eldridge

ARKANSAS AGRICULTURAL EXPERIMENT STATION

Division of Agriculture

University of Arkansas System

November 2005

Research Series 534

This publication is available on the Internet at www.uark.edu/depts/agripub/publications

Additional printed copies of this publication can be obtained free of charge from Communication Services, 110 Agriculture Building, University of Arkansas, Fayetteville, AR 72701.

Technical editing and cover design by Amalie Holland and Cam Romund.

Arkansas Agricultural Experiment Station, University of Arkansas Division of Agriculture, Fayetteville. Milo J. Shult, Vice President for Agriculture; Gregory J. Weidemann, Dean, Dale Bumpers College of Agricultural, Food and Life Sciences and Associate Vice President for Agriculture–Research, University of Arkansas Division of Agriculture. SG1005QX5. The University of Arkansas Division of Agriculture follows a nondiscriminatory policy in programs and employment.
ISSN:1051-3140 CODEN:AKAMA6

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ACKNOWLEDGMENTS

This research was funded in part by participating companies.
The assistance of the following individuals in conducting these experiments is gratefully acknowledged:

Department of Plant Pathology, University of Arkansas, Fayetteville
Dr. David TeBeest, University Professor

Northeast Research and Extension Center, Keiser
Dr. F.M. Bourland, Center Director
Mr. Mike Duren, Program Technician I

The Lon Mann Cotton Research Station, Marianna
Mr. Claude Kennedy, Resident Director
Mr. Dale Yadon, Program Technician III

Southeast Research and Extension Center, Monticello
Dr. Kelly Bryant, Center Director
Mr. Larry Earnest, Superintendent, Rohwer Division
Mr. Randy Cingolani, Program Technician II, Rohwer Division

Rice Research and Extension Center, Stuttgart
Dr. Christopher Deren, Center Director
Mr. Jamie Branson, Program Technician I

Southwest Research and Extension Center, Hope
Dr. Mike Phillips, Center Director
Dr. T.L. Kirkpatrick, Professor
Mr. J.D. Barham, Program Technician III

Vegetable Substation, Kibler
Mr. Dennis Motes, Resident Director
Mr. Steve Eaton, Program Associate III

Special thanks to Johnny Burke, General Manager, Queen's Plantation, Inc., for allowing us to conduct corn performance tests on his farm.

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ARKANSAS CORN AND GRAIN SORGHUM PERFORMANCE TESTS¹ 2005

D.G. Dombek,² R.D. Bond,³ L. Coffee,⁴ and I.L. Eldridge⁵

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 2005 corn performance tests contained 75 entries and were conducted at the Northeast Research and Extension Center (NEREC) at Keiser, the Lon Mann Cotton Research Station (LMCRS) near Marianna, the Bell Farming Company near Des Arc, the Southeast Research and Extension Center - Rohwer Division (SEREC-RD) near Rohwer, and Queen's Plantation, Inc., near Texarkana, Miller County, Ark. The 2005 grain sorghum performance tests contained 42 entries and were conducted at the NEREC near Keiser, the LMCRS near Marianna, the SEREC-RD near Rohwer, and the Rice Research and Extension Center near Stuttgart. Test location maps for grain sorghum and corn can be found inside the back cover.

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 or a 117+ group.

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 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.

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 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 upper ear.

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

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.

Table 1. Yields (lbs./A) of Grain Sorghum Hybrids in Arkansas Performance Tests, 2005¹.

Brand/Hybrid	Keiser	Keiser	Marianna	Stuttgart	Rohwer	Rohwer	Average
	Irrigated	Nonirrigated	Irrigated	Irrigated	Irrigated	Nonirrigated	
	-----lbs./A-----						
ASGROW A567	8178	6395	8720	7887	9171	8887	8206
ASGROW A571	8548	5853	8444	7691	8854	8735	8021
DEKALB DKS53-11	8249	5998	7075	7881	9369	9666	8040
DEKALB DKS54-00	8602	6254	8401	7295	9523	9631	8284
Dyna Gro 751B	8870	6781	8494	7951	8192	8320	8101
Dyna Gro 762B	7186	5092	8615	7018	8357	8328	7433
Dyna Gro 780B	7926	6510	9492	7490	8250	8310	7996
Dyna Gro X1739	8087	6385	8201	7105	8586	8393	7793
Dyna Gro X1742	8058	6114	8270	6763	7797	7938	7490
Dyna Gro X1743	8383	7167	7866	7390	8012	8261	7847
Dyna Gro X1755	8046	6206	7652	7445	8575	8494	7736
Dyna Gro X1758	6356	5402	8231	7329	7625	7604	7091
Dyna Gro X1759	7501	5284	8739	7125	8594	8707	7658
Dyna Gro X1785	7727	5039	8212	7301	9098	8883	7710
FFR 317	7274	5567	7766	7420	8623	8338	7498
FFR 322	8773	6885	8117	7482	8066	8436	7960
Garst 5360	8029	5718	7833	8010	8535	8891	7836
Garst 5401	7764	6056	7981	7559	9072	8607	7840
Garst 5515	6975	6082	8037	7571	8268	8381	7552
Golden Acres 3552	8045	6421	9108	7396	8590	8415	7996
Golden Acres 3827	8157	6670	7856	7841	8843	9176	8091
Golden Acres 444E	8600	6590	9124	7532	8884	9141	8312
Golden Harvest EX-5513	7602	6316	7017	7180	9016	8719	7642
Golden Harvest H-502	8946	6477	8841	7586	8266	8418	8089
Monsanto MSC332	7975	6226	7318	7022	9113	9772	7904
Monsanto MSC531	8652	6565	7876	7825	9432	9305	8276
Monsanto MTC15525	8347	6822	8080	7258	9070	8962	8090
Pioneer 83G66	8448	7310	7074	7510	9125	9727	8199
Pioneer 84G62	8646	6837	9259	8655	9850	10336	8931
Terral TV1050	8583	6764	7661	8280	8761	9379	8238
Terral TV93S72	8046	6307	7946	7271	8109	8226	7651
Terral TV9421	8716	6844	7754	8014	8736	8968	8172
Terral TV96H81	8647	6668	8357	7310	8284	8734	8000
Terral TV97H17	8433	4815	6141	7029	8151	8355	7154
Terral TVX94A415	8794	5864	8071	6698	8215	8490	7689

Table 1. Yields (lbs./A) of Grain Sorghum Hybrids in Arkansas Performance Tests, 2005¹, Continued.

Brand/Hybrid	Keiser Irrigated	Keiser Nonirrigated	Marianna Irrigated	Stuttgart Irrigated	Rohwer Irrigated	Rohwer Nonirrigated	Average
	-----lbs./A-----						
Terral TVX94A427	8569	6414	7019	7374	8553	9109	7840
Terral TVX95B303	8425	7390	8843	6905	8962	8493	8170
Terral TVX95B323	8551	6399	8769	7944	8247	8267	8030
Terral TVX95B324	7876	6329	7352	7297	8217	8765	7639
Terral TVX96A317	7000	3739	6645	7084	9457	9230	7193
Triumph TR481	7208	6123	8743	7063	8406	8008	7592
Triumph TR82-G	9394	6396	9312	7410	8423	7608	8091
Grand mean	8147	6216	8103	7457	8649	8724	7883
LSD (5%)	906	1029	1432	725	754	689	.
C.V. (%)	8.0	11.9	12.5	6.9	6.3	5.7	.

¹Keiser Irrigated = Northeast Research and Extension Center.

Keiser Nonirrigated = Northeast Research and Extension Center.

Marianna Irrigated = Lon Mann Cotton Research Station.

Stuttgart Irrigated = Rice Research and Extension Center.

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

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

Table 2. Performance of Irrigated Grain Sorghum Hybrids, Keiser, AR, 2005.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Head Comp. Rating	Bird Damage %
Triumph TR82-G	9394	7145	5788	10.9	64	11	1	6.3
Golden Harvest H-502	8946	7043	5419	10.2	59	3	1	17.5
Dyna Gro 751B	8870	6809	5346	10.5	61	5	3	13.8
Terral TVX94A415	8794	.	.	10.8	63	8	2	15.0
FFR 322	8773	7044	5189	10.7	59	7	3	18.8
Terral TV9421	8716	6404	5356	11.1	60	8	4	13.8
Monsanto MSC531	8652	.	.	10.4	56	8	4	16.3
Terral TV96H81	8647	7280	4735	10.4	62	5	2	17.5
Pioneer 84G62	8646	6972	5078	11.9	56	6	4	15.0
DEKALB DKS54-00	8602	6131	4531	10.8	66	11	4	11.3
Golden Acres 444E	8600	.	.	9.9	59	10	3	10.0
Terral TV1050	8583	6971	4850	10.3	58	4	2	8.8
Terral TVX94A427	8569	.	.	10.9	66	8	1	16.3
Terral TVX95B323	8551	.	.	11.0	60	4	2	8.8
ASGROW A571	8548	6757	5386	9.9	60	12	2	8.8
Pioneer 83G66	8448	6666	5383	10.8	61	7	4	13.8
Terral TV97H17	8433	6334	4204	10.5	66	5	2	8.8
Terral TVX95B303	8425	7284	.	11.5	56	5	3	13.8
Dyna Gro X1743	8383	.	.	9.6	54	6	2	13.8
Monsanto MTC15525	8347	.	.	11.2	59	9	2	7.5
DEKALB DKS53-11	8249	4963	5303	12.6	58	7	2	15.0
ASGROW A567	8178	5805	.	11.9	58	4	1	11.3
Golden Acres 3827	8157	6687	.	12.1	58	8	3	15.0
Grand mean	8147	.	.	10.7	59	12	3	14.3
Dyna Gro X1739	8087	6289	.	9.4	59	7	2	8.8
Dyna Gro X1742	8058	.	.	9.8	55	6	3	18.8
Dyna Gro X1755	8046	.	.	10.7	58	11	3	10.0
Terral TV93S72	8046	6218	4754	10.3	55	6	2	10.0
Golden Acres 3552	8045	6079	.	10.8	56	8	2	17.5
Garst 5360	8029	.	.	10.0	55	8	3	11.3
Monsanto MSC332	7975	.	.	10.8	57	5	1	22.5
Dyna Gro 780B	7926	6240	5220	12.0	64	5	2	11.3
Terral TVX95B324	7876	.	.	9.5	53	7	4	17.5
Garst 5401	7764	.	.	10.6	65	5	3	15.0
Dyna Gro X1785	7727	.	.	10.4	60	7	3	12.5

Table 2. Performance of Irrigated Grain Sorghum Hybrids, Keiser, AR, 2005, Continued.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Head Comp. Rating	Bird Damage %
Dyna Gro X1759	7501	.	.	11.6	61	4	3	17.5
FFR 317	7274	.	.	11.2	54	7	1	16.3
Triumph TR481	7208	.	.	11.7	61	8	4	15.0
Dyna Gro 762B	7186	6731	4157	10.4	61	10	3	22.5
Terral TVX96A317	7000	.	.	12.1	68	6	2	7.5
Garst 5515	6975	5222	4205	8.9	55	8	4	17.5
Dyna Gro X1758	6356	.	.	10.9	59	7	3	33.8
Grand Mean	8147	.	.	10.7	59	7	3	14.3
LSD (5%)	906	.	.	1.7	.	.	.	.
C.V. (%)	8.0	.	.	11.5	.	.	.	.

¹Average yield for 2004 and 2005

²Average yield for 2003, 2004 and 2005.

Soil Series	Sharkey clay
Previous Crop	Soybean
Row Width	38"
Preplant Herbicide	None
Preplant Fertilizer	50-50-50/A, 4/19/05
Planting Date	4/19/05
Irrigation Dates	5/26, 6/6, 6/21, 6/24, 6/30, 7/22, 8/4
Sidedress Fertilizer	100 lbs./A Ammonium sulfate, 4/22/05; 125lbs./A N 32%, 6/01/05
Herbicide Application	2qts./A Atrazine + 1pt./A Dual + 20oz./A WeatherMax, 4/20/05; 3/4pt./A Buctril 4EC, 6/13/05
Insecticide Applications	None
Harvest Date	9/6/05

Precipitation (inches)

	April	May	June	July	August	Total
2005	5.5	0.5	1.4	3.6	4.3	15.3
Average	4.9	5.2	4	3.7	2.8	20.6
Departure	0.6	-4.7	-2.6	-0.1	1.5	-5.3

Table 3. Performance of Nonirrigated Grain Sorghum Hybrids, Keiser, AR, 2005.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Bird Damage %
Terral TVX95B303	7390	7302	.	13.1	49	12	7.5
Pioneer 83G66	7310	7322	7105	13.1	29	2	13.8
Dyna Gro X1743	7167	.	.	11.9	42	2	8.8
FFR 322	6885	6716	6747	13.3	48	3	10.0
Terral TV9421	6844	6270	6331	12.7	48	9	11.3
Pioneer 84G62	6837	6723	6831	14.7	46	1	6.3
Monsanto MTC15525	6822	.	.	12.6	47	6	11.3
Dyna Gro 751B	6781	6904	6907	14.0	48	5	10.0
Terral TV1050	6764	6780	6767	13.1	47	2	12.5
Golden Acres 3827	6670	6848	.	14.1	47	7	16.3
Terral TV96H81	6668	7037	6936	14.4	48	3	7.5
Golden Acres 444E	6590	.	.	15.0	45	4	12.5
Monsanto MSC531	6565	.	.	14.0	44	5	11.3
Dyna Gro 780B	6510	6742	6742	14.7	50	4	6.3
Golden Harvest H-502	6477	6940	6980	14.5	45	3	6.3
Golden Acres 3552	6421	6143	.	12.9	47	5	8.8
Terral TVX94A427	6414	.	.	14.2	48	7	12.5
Terral TVX95B323	6399	.	.	14.9	46	7	7.5
Triumph TR82-G	6396	6842	6765	15.3	51	5	6.3
ASGROW A567	6395	6319	.	13.1	49	5	13.8
Dyna Gro X1739	6385	6139	.	12.9	44	8	12.5
Terral TVX95B324	6329	.	.	14.3	44	3	13.8
Golden Harvest EX-5513	6316	.	.	13.8	52	7	12.5
Terral TV93S72	6307	6102	6108	12.4	45	8	13.8
DEKALB DKS54-00	6254	5889	6058	13.6	49	5	10.0
Monsanto MSC332	6226	.	.	12.5	47	4	15.0
Dyna Gro X1755	6206	.	.	13.6	45	6	10.0
Triumph TR481	6123	.	.	16.0	44	8	7.5
Dyna Gro X1742	6114	.	.	11.5	46	6	17.5
Garst 5515	6082	6221	6298	13.6	42	6	20.0
Garst 5401	6056	.	.	14.8	52	7	22.5
DEKALB DKS53-11	5998	5763	5917	13.3	48	2	15.0
Terral TVX94A415	5864	.	.	14.9	49	7	8.8
ASGROW A571	5853	6403	6522	13.6	50	3	7.5
Garst 5360	5718	.	.	17.3	46	5	5.0
FFR 317	5567	.	.	14.4	51	5	27.5
Dyna Gro X1758	5402	.	.	14.2	48	5	30.0
Dyna Gro X1759	5284	.	.	14.9	51	3	11.3

Table 3. Performance of Nonirrigated Grain Sorghum Hybrids, Keiser, AR, 2005, Continued.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Bird Damage %
Dyna Gro 762B	5092	5653	6003	12.3	50	8	35.0
Dyna Gro X1785	5039	.	.	13.6	46	4	10.0
Terral TV97H17	4815	5826	6270	15.2	52	6	6.3
Terral TVX96A317	3739	.	.	16.0	54	5	17.5
Grand mean	6216	.	.	13.9	47	5	12.6
LSD (5%)	1029	.	.	2.5	.	.	.
C.V. (%)	11.9	.	.	13.0	.	.	.

¹Average yield for 2004 and 2005

²Average yield for 2003, 2004 and 2005.

Soil Series	Sharkey clay
Previous Crop	Soybean
Row Width	38"
Preplant Herbicide	None
Preplant Fertilizer	50-50-50/A, 04-19-05
Planting Date	4/20/05
Irrigation Dates	N/A
Sidedress Fertilizer	100 lbs./A Ammonium sulfate, 4/22/05; 125lbs./A N (32%), 6/1/05
Herbicide Application	2qts./A Atrazine + 1pt/A Dual + 20ozs./A WeatherMax, 04/20/05; 3/4pt./A Buctril 4EC 6/13/05
Insecticide Applications	None
Harvest Date.	8/26/05

Precipitation (inches)

	April	May	June	July	August	Total
2005	5.5	0.5	1.4	3.6	4.3	15.3
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	0.6	-4.7	-2.6	-0.1	1.5	-5.3

Table 4. Performance of Irrigated Grain Sorghum Hybrids, Marianna, AR, 2005.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Average lbs./A	3-Year ² Average lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Bird Damage %
Dyna Gro 780B	9492	7740	7384	14.8	63	5	5.0
Triumph TR82-G	9312	7631	7481	15.5	63	5	5.0
Pioneer 84G62	9259	6926	6685	15.3	58	6	8.8
Golden Acres 444E	9124	.	.	13.1	60	7	12.5
Golden Acres 3552	9108	6913	.	14.6	57	5	10.0
Terral TVX95B303	8843	6428	.	18.0	63	7	6.3
Golden Harvest H-502	8841	7088	.	15.4	61	6	5.0
Terral TVX95B323	8769	.	.	15.7	61	6	5.0
Triumph TR481	8743	.	.	16.1	63	11	5.0
Dyna Gro X1759	8739	.	.	17.6	62	3	5.0
ASGROW A567	8720	6263	.	17.6	59	5	5.0
Dyna Gro 762B	8615	7082	7029	14.1	65	7	7.5
Dyna Gro 751B	8494	6779	6861	15.5	59	4	5.0
ASGROW A571	8444	7046	6903	14.8	61	6	7.5
DEKALB DKS54-00	8401	5483	5292	17.8	63	9	6.3
Terral TV96H81	8357	6420	6580	15.4	63	6	5.0
Dyna Gro X1742	8270	.	.	13.6	59	7	8.8
Dyna Gro X1758	8231	.	.	17.3	65	6	12.5
Dyna Gro X1785	8212	.	.	16.6	58	5	5.0
Dyna Gro X1739	8201	7225	.	12.8	60	12	6.3
FFR 322	8117	6395	6426	14.3	64	6	5.0
Monsanto MTC15525	8080	.	.	17.1	58	7	6.3
Terral TVX94A415	8071	.	.	16.1	63	8	5.0
Garst 5515	8037	6610	6397	14.1	61	6	8.8
Garst 5401	7981	.	.	16.5	68	7	5.0
Terral TV93S72	7946	7225	7108	14.4	56	7	5.0
Monsanto MSC531	7876	.	.	14.5	61	6	6.3
Dyna Gro X1743	7866	.	.	13.5	55	4	6.3
Golden Acres 3827	7856	6297	.	18.1	65	6	5.0
Garst 5360	7833	.	.	17.4	59	8	5.0
FFR 317	7766	.	.	15.1	65	9	10.0
Terral TV9421	7754	6419	6687	14.2	63	7	11.3
Terral TV1050	7661	5717	5945	13.9	64	4	10.0
Dyna Gro X1755	7652	.	.	15.6	59	5	7.5
Terral TVX95B324	7352	.	.	14.9	59	6	7.5
Monsanto MSC332	7318	.	.	16.6	65	8	6.3

Table 4. Performance of Irrigated Grain Sorghum Hybrids, Marianna, AR, 2005, Continued.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Bird Damage %
DEKALB DKS53-11	7075	5509	.	16.7	60	4	7.5
Pioneer 83G66	7074	6591	6833	18.5	63	5	6.3
Terral TVX94A427	7019	.	.	15.4	68	8	6.3
Golden Harvest EX-5513	7017	.	.	14.6	69	8	5.0
Terral TVX96A317	6645	.	.	17.0	71	7	5.0
Terral TV97H17	6141	5649	.	16.3	71	5	7.5
Grand mean	8103	.	.	15.6	62	6	6.8
LSD (5%)	1432	.	.	2.3	.	.	.
C.V. (%)	12.5	.	.	10.5	.	.	.

¹Average yield for 2004 and 2005

²Average yield for 2002, 2004 and 2005.

Soil Series Calloway silt loam
 Previous Crop Soybean
 Row Width 30"
 Preplant Herbicide None
 Preplant Fertilizer 311 lbs./A, 0-29-29, 04/05/05
 Planting Date 4/19/05
 Irrigation Dates 5/20, 6/03, 6/06, 6/16, 6/22, 6/26, 7/01, 7/21, 7/28, 8/03, 8/09, 8/14
 Sidedress Fertilizer 200 lbs./A Urea, 100 lbs./A Ammonium sulfate, 5/16/05; 12 gal./A N, 6/02/05
 Herbicide Application 1 pt./A Duall II Magnum, 4/20/05; 4pts./A Atrazine + 1 oz./A Permit +
 Surfactant, 5/10/05
 Insecticide Applications 5 oz./A Asana, 6/29/05; 5 oz./A Asana, 7/07/05
 Harvest Date 9/6/05

Precipitation (inches)

	April	May	June	July	August	Total
2005	4.9	1.0	1.3	3.8	4.3	15.3
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	0.0	-4.2	-2.7	0.1	1.5	-5.3

Table 5. Performance of Irrigated Grain Sorghum Hybrids, Stuttgart, AR, 2005.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Bird Damage %
Pioneer 84G62	8655	8816	8586	14.3	53	8	2.5
Terral TV1050	8280	8467	8084	13.8	59	8	0.0
Terral TV9421	8014	7875	7496	13.9	56	12	5.0
Garst 5360	8010	.	.	14.4	53	10	0.0
Dyna Gro 751B	7951	8101	8229	14.6	60	8	1.3
Terral TVX95B323	7944	.	.	14.9	57	10	0.0
ASGROW A567	7887	8205	.	15.1	57	10	0.0
DEKALB DKS53-11	7881	6652	7053	15.3	55	10	1.3
Golden Acres 3827	7841	8197	.	14.8	58	10	0.0
Monsanto MSC531	7825	.	.	14.6	57	10	0.0
ASGROW A571	7691	7902	7813	14.0	56	14	0.0
Golden Harvest H-502	7586	7915	7941	14.8	60	12	2.5
Garst 5515	7571	7373	7265	13.6	54	12	0.0
Garst 5401	7559	.	.	14.9	62	10	7.5
Golden Acres 444E	7532	.	.	13.8	56	10	1.3
Pioneer 83G66	7510	8278	8179	14.3	55	10	2.0
Dyna Gro 780B	7490	8046	8028	14.9	63	8	1.3
FFR 322	7482	8010	8082	14.8	58	8	0.0
Dyna Gro X1755	7445	.	.	14.2	56	12	0.0
FFR 317	7420	.	.	14.4	60	10	2.5
Triumph TR82-G	7410	8185	8048	15.1	60	10	1.3
Golden Acres 3552	7396	7605	.	14.1	57	12	2.5
Dyna Gro X1743	7390	.	.	13.4	54	10	0.0
Terral TVX94A427	7374	.	.	14.2	61	14	1.3
Dyna Gro X1758	7329	.	.	14.7	57	12	0.0
Terral TV96H81	7310	7734	7804	14.6	56	10	1.3
Dyna Gro X1785	7301	.	.	14.5	57	10	0.0
Terral TVX95B324	7297	.	.	14.2	56	10	0.0
DEKALB DKS54-00	7295	7436	7377	15.4	65	12	1.3
Terral TV93S72	7271	7470	7242	14.0	56	14	0.0
Monsanto MTC15525	7258	.	.	15.5	55	10	0.0
Golden Harvest EX-5513	7180	.	.	14.2	61	9	5.1
Dyna Gro X1759	7125	.	.	15.0	58	8	2.5
Dyna Gro X1739	7105	7502	.	14.0	58	14	0.0
Terral TVX96A317	7084	.	.	15.8	68	12	1.3

Table 5. Performance of Irrigated Grain Sorghum Hybrids, Stuttgart, AR, 2005, Continued.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches	Bird Damage %
Triumph TR481	7063	.	.	14.8	55	10	0.0
Terral TV97H17	7029	7602	7732	15.4	68	8	0.0
Monsanto MSC332	7022	.	.	15.1	60	12	3.7
Dyna Gro 762B	7018	7544	7372	13.9	59	14	12.5
Terral TVX95B303	6905	7730	.	15.1	56	12	6.3
Dyna Gro X1742	6763	.	.	13.7	52	10	3.8
Terral TVX94A415	6698	.	.	15.0	58	12	8.3
Grand mean	7457	.	.	14.6	58	11	1.9
LSD (5%)	725	.	.	0.4	.	.	.
C.V. (%)	6.9	.	.	2.1	.	.	.

¹Average yield for 2004 and 2005

²Average yield for 2003, 2004 and 2005.

Soil Series Crowley silt loam
 Previous Crop Fallow
 Row Width 32"
 Preplant Herbicide None
 Preplant Fertilizer 10 lbs./A Zinc; 60 lbs./A P; 60 lbs./A K
 Planting Date 4/20/05
 Irrigation Dates 5/24, 6/6, 6/14, 6/22, 6/29, 7/22, 8/3, 8/15
 Sidedress Fertilizer 175 lbs./A 46-0-0, 5/24-05; 75 lbs./A 46-0-0, 6/06/05
 Herbicide Application 1.3 qts./A Bicep II, 4/21/05
 Insecticide Applications None
 Harvest Date 9/2/05

Precipitation (inches)

	April	May	June	July	August	Total
2005	5.2	0.6	1.6	3.7	7.3	18.4
Average	5.6	4.7	3.6	3.4	2.8	20.1
Departure	-0.4	-4.1	-2.0	0.3	4.5	-1.7

Table 6. Performance of Irrigated Grain Sorghum Hybrids, Rohwer, AR, 2005.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches
Pioneer 84G62	9850	9188	8726	14.0	64	2
DEKALB DKS54-00	9523	8968	8191	14.6	66	5
Terral TVX96A317	9457	.	.	15.2	69	6
Monsanto MSC531	9432	.	.	14.3	64	4
DEKALB DKS53-11	9369	8696	8272	14.5	61	3
ASGROW A567	9171	8309	.	14.3	62	2
Pioneer 83G66	9125	8528	8360	14.6	63	4
Monsanto MSC332	9113	.	.	14.2	64	5
Dyna Gro X1785	9098	.	.	14.2	63	4
Garst 5401	9072	.	.	14.3	67	6
Monsanto MTC15525	9070	.	.	14.0	59	4
Golden Harvest EX-5513	9016	.	.	14.6	69	6
Terral TVX95B303	8962	8308	.	14.3	62	5
Golden Acres 444E	8884	.	.	14.0	61	6
ASGROW A571	8854	8441	8041	14.0	63	5
Golden Acres 3827	8843	7915	.	14.3	63	6
Terral TV1050	8761	8256	7790	14.2	69	4
Terral TV9421	8736	7848	7636	13.7	62	7
FFR 317	8623	.	.	14.8	62	5
Dyna Gro X1759	8594	.	.	14.3	63	3
Golden Acres 3552	8590	8125	.	14.2	61	4
Dyna Gro X1739	8586	7542	.	14.2	61	9
Dyna Gro X1755	8575	.	.	13.9	62	4
Terral TVX94A427	8553	.	.	14.8	67	6
Garst 5360	8535	.	.	14.2	60	7
Triumph TR82-G	8423	8239	7857	14.2	64	4
Triumph TR481	8406	.	.	15.2	61	5
Dyna Gro 762B	8357	7739	7642	14.2	65	5
Terral TV96H81	8284	7846	7718	13.9	66	3
Garst 5515	8268	7705	7189	13.5	58	6
Golden Harvest H-502	8266	8036	7876	14.0	64	4
Dyna Gro 780B	8250	8110	7734	14.1	65	2
Terral TVX95B323	8247	.	.	14.1	62	3
Terral TVX95B324	8217	.	.	14.0	62	3
Terral TVX94A415	8215	.	.	14.6	68	7

Table 7. Performance of Nonirrigated Grain Sorghum Hybrids, Rohwer, AR, 2005.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches
Pioneer 84G62	10336	9339	8906	14.9	64	6
Monsanto MSC332	9772	.	.	15.6	65	5
Pioneer 83G66	9727	8605	8382	14.5	62	3
DEKALB DKS53-11	9666	7828	7815	15.6	65	3
DEKALB DKS54-00	9631	8617	7900	15.3	64	2
Terral TV1050	9379	8475	8007	14.9	60	6
Monsanto MSC531	9305	.	.	15.0	66	3
Terral TVX96A317	9230	.	.	15.1	59	5
Golden Acres 3827	9176	8178	.	16.4	65	3
Golden Acres 444E	9141	.	.	15.5	67	5
Terral TVX94A427	9109	.	.	15.1	65	3
Terral TV9421	8968	8218	7908	15.1	62	5
Monsanto MTC15525	8962	.	.	14.9	66	3
Garst 5360	8891	.	.	15.1	61	3
ASGROW A567	8887	8366	.	14.9	60	1
Dyna Gro X1785	8883	.	.	15.2	62	6
Terral TVX95B324	8765	.	.	16.5	67	6
ASGROW A571	8735	8520	8187	14.8	67	5
Terral TV96H81	8734	8301	7832	15.1	66	5
Golden Harvest EX-5513	8719	.	.	14.9	62	4
Dyna Gro X1759	8707	.	.	14.6	61	4
Garst 5401	8607	.	.	14.8	60	3
Dyna Gro X1755	8494	.	.	14.6	68	5
Terral TVX95B303	8493	8001	.	14.3	56	3
Terral TVX94A415	8490	.	.	14.9	65	2
FFR 322	8436	7936	7816	14.6	63	3
Golden Harvest H-502	8418	8040	7743	15.1	62	6
Golden Acres 3552	8415	8154	.	15.6	67	5
Dyna Gro X1739	8393	7611	.	15.6	69	3
Garst 5515	8381	7586	7186	15.1	65	3
Terral TV97H17	8355	8083	7569	14.8	65	3
FFR 317	8338	.	.	15.1	62	2
Dyna Gro 762B	8328	7764	7610	15.1	66	1
Dyna Gro 751B	8320	7921	7514	15.2	63	3
Dyna Gro 780B	8310	8157	7613	15.0	57	3

Table 7. Performance of Nonirrigated Grain Sorghum Hybrids, Rohwer, AR, 2005, Continued.

Brand/Hybrid	Yield lbs./A	2-Year ¹ Avg. lbs./A	3-Year ² Avg. lbs./A	Grain Moisture %	Plant Height Inches	Head Exertion Inches
Terral TVX95B323	8267	.	.	15.0	60	6
Dyna Gro X1743	8261	.	.	14.9	62	3
Terral TV93S72	8226	7550	7374	15.0	70	2
Triumph TR481	8008	.	.	15.0	63	2
Dyna Gro X1742	7938	.	.	15.1	65	5
Triumph TR82-G	7608	7809	7418	15.8	68	6
Dyna Gro X1758	7604	.	.	15.0	65	5
Grand mean	8724	.	.	15.1	64	4
LSD (5%)	689	.	.	0.5	.	.
C.V. (%)	5.7	.	.	2.6	.	.

¹Average yield for 2004 and 2005

²Average yield for 2003, 2004 and 2005.

Soil Series Hebert silt loam
 Previous Crop Corn
 Row Width 38"
 Preplant Herbicide None
 Preplant Fertilizer 267lbs./A 0-60-60, 10lbs./A Zinc, 3/14/05
 Planting Date 4/18/05
 Irrigation Dates N/A
 Sidedress Fertilizer 132lbs./A 38-0-0, 4/22/05; 222lbs./A 46-0-0, 6/06/05
 Herbicide Application 1.33pts./A Dual Mag II, 4/20/05; 1.5qts./A Atrazine 4L, 5/06/05
 Insecticide Applications 1.3oz./A Karate Z, 7/07/05, 7/12/05, 7/21/05
 Harvest Date 8/22/05

Precipitation (inches)

	April	May	June	July	August	Total
2005	4.4	5.1	2.0	4.7	2.2	18.4
Average	5.0	4.7	3.5	3.9	2.7	19.8
Departure	0.1	0.4	-1.5	0.8	-0.5	-1.4

Table 8. Yields (bu./A) of Corn Hybrids in Arkansas Performance Tests, 2005^{1,2}.

Brand/Hybrid	Keiser Irrigated	Marianna Irrigated	Bell Farm Irrigated	Rohwer Irrigated	Average
	-----bu./A-----				
<u>Early- to Mid-Season Hybrids</u>					
ASGROW RX715RR2	234.3	210.1	173.5	180.4	199.6
Belle 1824R	197.1	218.9	188.5	188.7	198.3
Belle 1515C	210.9	217.3	169.5	183.7	195.4
Belle 1525R	211.3	203.3	174.9	174.9	191.1
Belle 1533Y	220.7	242.6	202.4	182.0	211.9
Belle 1545RY	242.9	223.6	182.8	189.0	209.6
BEXRY 455	246.4	229.4	182.8	194.5	213.3
BG BT1150	208.9	193.3	172.0	172.9	186.8
BG CB1143	224.4	201.9	158.6	176.8	190.4
BG RRCB1163	234.5	196.1	183.8	191.5	201.5
CGF 812CB	196.0	225.3	186.1	197.3	201.2
CGF 814CB	254.8	222.9	175.4	204.8	214.5
CGF 938RR	203.8	181.8	162.7	165.9	178.6
Croplan 631RR/BT	228.9	215.3	160.5	186.8	197.9
DEKALB DKC61-45	199.2	230.5	185.0	207.6	205.6
DEKALB DKC63-81	210.5	210.0	162.7	186.4	192.4
DEKALB DKC66-21	224.2	222.2	181.3	181.9	202.4
Dyna Gro 5528BT	239.2	195.9	171.0	194.5	200.2
Dyna Gro 57F87	217.1	200.5	180.3	201.9	200.0
Dyna Gro 57K14	226.0	228.9	161.9	176.8	198.4
Dyna Gro 57N96	206.1	218.8	183.6	167.5	194.0
Dyna Gro 57P12	216.7	215.0	178.2	199.7	202.4
Dyna Gro 57P46	212.0	210.9	163.5	185.3	192.9
Dyna Gro 58P59	221.3	232.3	186.1	173.1	203.2
Dyna Gro CX05516	192.2	214.0	183.3	187.7	194.3
FFR 736BT	224.4	231.4	172.5	188.4	204.2
FFR 746RRBT	239.4	207.6	170.2	171.8	197.3
Garst 8364YG1/RR	246.6	212.5	161.6	175.0	198.9
Garst 8380IT	231.3	226.7	186.4	176.9	205.3
Garst 8454YG1	207.7	209.4	185.8	191.0	198.5
Golden Acres 2831RRB	213.7	229.2	180.0	183.8	201.7
Golden Harvest H-9166	190.0	202.8	175.9	178.2	186.7
Golden Harvest H-9498BT	251.9	223.1	181.8	176.4	208.3
Golden Harvest H-9563BT	228.1	231.0	195.6	175.2	207.5
NK Brand N65-C5	230.4	222.6	169.0	182.1	201.0
NK Brand N70-T9	211.8	212.4	163.8	195.3	195.8
NK Brand N72-J5	243.5	212.9	170.3	189.3	204.0
NK Brand N76-D3	219.5	221.7	187.2	201.4	207.5
Pioneer 33M54	205.4	241.5	195.2	206.6	212.2
Pioneer 33N56	254.5	234.8	182.9	185.8	214.5
Pioneer 33R81	226.9	246.6	171.4	176.3	205.3
Terral TV23R31	230.5	198.4	151.9	174.0	188.7
Terral TV25B30	193.9	202.8	169.9	176.9	185.9
Terral TV25BR23	197.7	228.7	182.5	197.4	201.6

Table 8. Yields (bu./A) of Corn Hybrids in Arkansas Performance Tests, 2005¹, Continued.

Brand/Hybrid	Keiser Irrigated	Marianna Irrigated	Bell Farm Irrigated	Rohwer Irrigated	Average
-----bu./A-----					
<u>Early- to Mid-Season Hybrids Continued</u>					
Terral TV25R31	201.2	215.1	177.1	176.5	192.5
Terral TV26B23	193.7	207.9	171.7	186.6	190.0
Terral TV26B34	233.0	236.1	189.6	186.1	211.2
Terral TV26B82	194.4	218.8	182.9	165.2	190.3
Terral TV26BR10n	216.2	205.5	162.1	193.7	194.4
Terral TV26BR41	202.9	223.4	179.1	208.3	203.4
Terral TV27C48	196.9	223.5	178.5	179.6	194.6
Terral TVX25R501	208.4	192.8	152.1	209.2	190.6
Triumph 1416BT	242.4	217.9	172.2	174.8	201.8
Triumph 1536CbRR	222.5	231.4	178.5	194.6	206.8
Grand mean	219.2	217.2	176.1	185.7	199.6
LSD (5%)	45.4	18.6	15.4	24.5	.
C.V. (%)	15.0	6.2	6.3	9.5	.
<u>Mid- to Full-Season Hybrids</u>					
Belle 1830Y	185.9	205.0	161.4	177.4	182.4
CGF 904	226.2	228.3	160.8	185.4	200.2
CGF 909	210.6	211.5	150.1	161.2	183.4
Croplan 818RR/BT	226.9	211.6	155.6	197.6	197.9
Croplan 851RR/BT	241.7	214.0	169.6	148.8	193.5
DEKALB DKC69-71	266.3	226.1	152.5	175.0	205.0
Dyna Gro CX03418	207.7	196.3	145.6	172.4	180.5
FFR 835BT	224.8	215.4	162.3	148.2	187.7
FFR 843RRBT	273.1	227.3	166.6	162.2	207.3
FFR 886RR	222.3	192.0	151.5	155.9	180.4
FFR 900BT	223.5	201.7	157.8	158.9	185.5
Garst 8225YG1/RR	190.3	210.7	150.9	179.1	182.8
Garst 8292YG1	196.4	213.6	171.6	204.5	196.5
Golden Acres 2841RRB	230.3	239.9	163.5	203.5	209.3
Golden Acres 2995RR	162.1	203.3	153.2	129.9	162.1
Golden Acres X-6420BT	209.2	205.0	146.2	120.5	170.2
Golden Acres X-6501BT	235.8	188.6	137.3	142.3	176.0
Golden Acres X-6511LLHx	214.9	205.4	151.3	122.4	173.5
Pioneer 31G97	253.0	243.6	159.6	188.2	211.1
Pioneer 31N28	247.5	247.2	176.1	169.6	210.1
Pioneer 32D99	211.3	240.1	165.1	192.1	202.2
Grand mean	221.9	215.6	157.6	166.4	190.4
LSD (5%)	55.5	22.6	21.1	18.1	.
C.V. (%)	17.5	7.4	9.4	7.6	.

¹Keiser Irrigated = Northeast Research and Extension Center.

Marianna Irrigated = Lon Mann Cotton Research Station.

Bell Farm Irrigated = Bell Farming Company, Prairie County.

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

²A corn test was established in southwest Arkansas but will not be reported due to extensive bird damage after planting.

Table 9. Performance of Irrigated Corn Hybrids, Keiser, AR, 2005.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches
<u>Early- to Mid-Season Hybrids</u>								
CGF 814CB	254.8	.	.	17.3	0.0	1.8	30086	47
Pioneer 33N56	254.5	214.9	.	16.1	0.0	0.5	25776	48
Golden Harvest H-9498BT	251.9	241.0	232.3	17.0	0.0	0.8	26810	45
Garst 8364YG1/RR	246.6	.	.	15.6	0.0	0.0	27759	55
BEXRY 455	246.4	.	.	16.0	0.0	0.0	27286	36
NK Brand N72-J5	243.5	189.1	193.4	16.0	0.0	1.0	27586	39
Belle 1545RY	242.9	228.4	.	17.2	0.0	0.3	27053	45
Triumph 1416BT	242.4	215.9	214.8	16.5	0.0	0.5	26035	36
FFR 746RRBT	239.4	.	.	16.2	0.0	0.3	24655	52
Dyna Gro 5528BT	239.2	225.7	229.1	16.6	0.0	0.3	23854	47
BG RRCB1163	234.5	.	.	17.1	0.0	0.0	23723	42
ASGROW RX715RR2	234.3	.	.	15.4	0.0	0.5	25690	42
Terral TV26B34	233.0	233.5	228.6	16.5	0.0	2.0	30345	46
Garst 8380IT	231.3	.	.	16.6	0.0	1.5	27242	48
Terral TV23R31	230.5	209.4	.	17.1	0.8	0.8	27155	35
NK Brand N65-C5	230.4	.	.	16.3	0.0	0.3	24757	33
Croplan 631RR/BT	228.9	208.1	.	15.9	0.0	1.8	28104	34
Golden Harvest H-9563BT	228.1	.	.	16.9	0.0	0.3	26897	44
Pioneer 33R81	226.9	.	.	17.0	0.0	0.0	24828	45
Dyna Gro 57K14	226.0	189.8	195.5	15.9	0.0	3.3	25690	33
BG CB1143	224.4	205.1	.	17.3	0.0	0.3	24052	37
FFR 736BT	224.4	228.9	225.4	16.3	0.0	0.8	27673	44
DEKALB DKC66-21	224.2	.	.	17.7	0.0	0.0	26121	37
Triumph 1536CbRR	222.5	.	.	16.7	0.0	0.0	25690	39
Dyna Gro 58P59	221.3	.	.	16.9	0.0	0.3	23966	40
Belle 1533Y	220.7	214.6	.	16.6	0.0	2.5	28793	40
NK Brand N76-D3	219.5	.	.	17.5	0.0	0.0	26810	35
Dyna Gro 57F87	217.1	217.7	.	16.8	0.0	0.0	26941	40
Dyna Gro 57P12	216.7	.	.	16.4	0.0	0.0	27302	42
Terral TV26BR10n	216.2	225.1	225.1	16.2	0.0	0.5	31896	43
Golden Acres 2831RRB	213.7	226.1	.	16.6	0.0	1.3	30431	39
Dyna Gro 57P46	212.0	.	.	16.8	0.0	0.0	27242	38
NK Brand N70-T9	211.8	208.6	211.6	17.4	0.0	0.0	29138	40

Table 9. Performance of Irrigated Corn Hybrids, Keiser, AR, 2005, Continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches
<u>Early- to Mid-Season Hybrids Continued</u>								
Belle 1525R	211.3	200.1	.	16.3	0.0	1.8	29569	51
Belle 1515C	210.9	195.1	.	16.0	0.3	0.0	26497	49
DEKALB DKC63-81	210.5	197.7	.	15.8	0.0	0.8	26727	44
BG BT1150	208.9	201.0	.	16.8	0.0	0.0	20862	45
Terral TVX25R501	208.4	.	.	16.9	0.0	0.8	26638	49
Garst 8454YG1	207.7	.	.	16.9	0.0	0.3	26724	41
Dyna Gro 57N96	206.1	.	.	16.9	0.0	0.3	25463	44
Pioneer 33M54	205.4	185.9	196.3	16.2	0.0	0.5	25172	40
CGF 938RR	203.8	.	.	16.4	0.0	0.0	26121	47
Terral TV26BR41	202.9	211.4	.	17.5	0.0	0.8	26983	44
Terral TV25R31	201.2	191.6	.	17.1	0.0	0.0	26552	44
DEKALB DKC61-45	199.2	182.9	.	15.4	0.0	0.0	25776	41
Terral TV25BR23	197.7	206.2	221.6	16.3	1.0	0.3	26724	37
Belle 1824R	197.1	.	.	16.3	0.0	1.8	26293	52
Terral TV27C48	196.9	.	.	16.9	0.0	1.0	27328	45
CGF 812CB	196.0	.	.	17.2	0.0	0.0	25776	43
Terral TV26B82	194.4	204.5	.	17.7	0.0	0.3	24483	50
Terral TV25B30	193.9	180.4	190.1	16.7	0.0	1.0	30862	47
Terral TV26B23	193.7	178.7	193.6	15.4	0.0	0.5	25141	50
Dyna Gro CX05516	192.2	.	.	17.3	0.0	0.5	27586	52
Golden Harvest H-9166	190.0	175.0	.	16.0	0.0	2.0	27759	49
Grand mean	219.2	.	.	16.6	0.0	0.6	26712	43
LSD (5%)	45.4	.	.	0.9	.	.	.	.
C.V. (%)	15.0	.	.	4.1	.	.	.	.
<u>Mid- to Full-Season Hybrids</u>								
FFR 843RRBT	273.1	.	.	16.5	0.0	5.0	27586	43
DEKALB DKC69-71	266.3	254.4	249.9	16.0	0.0	0.5	27052	54
Pioneer 31G97	253.0	208.0	.	15.5	0.0	1.5	25862	50
Pioneer 31N28	247.5	231.1	.	16.1	0.0	2.0	27500	42
Croplan 851RR/BT	241.7	.	.	16.6	0.0	2.5	27414	41
Golden Acres X-6501BT	235.8	.	.	17.0	0.0	1.3	24828	57
Golden Acres 2841RRB	230.3	221.4	.	16.8	0.0	6.3	28362	47
Croplan 818RR/BT	226.9	233.9	224.9	17.5	0.0	0.5	29914	46
CGF 904	226.2	.	.	16.9	0.0	4.3	28190	43
FFR 835BT	224.8	209.7	.	16.9	0.0	0.5	25345	41
FFR 900BT	223.5	231.8	237.3	17.6	0.0	9.8	24397	42
FFR 886RR	222.3	.	.	19.6	0.0	3.0	25000	62
Golden Acres X-6511LLHx	214.9	.	.	18.0	0.0	0.8	24655	52
Pioneer 32D99	211.3	195.5	207.6	17.9	0.0	1.0	24742	48
CGF 909	210.6	.	.	16.9	0.0	3.3	27500	60

Table 9. Performance of Irrigated Corn Hybrids, Keiser, AR, 2005, Continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height (Inches)
<u>Mid- to Full-Season Hybrids Continued</u>								
Golden Acres X-6420BT	209.2	182.2	.	16.8	0.0	0.5	25259	57
Dyna Gro CX03418	207.7	.	.	17.3	0.0	1.3	24396	57
Garst 8292YG1	196.4	189.2	.	17.4	0.0	3.3	25289	47
Garst 8225YG1/RR	190.3	.	.	16.2	0.0	0.5	26638	41
Belle 1830Y	185.9	217.7	.	17.3	0.0	0.8	23880	37
Golden Acres 2995RR	162.1	.	.	18.3	0.0	2.6	24600	55
Grand mean	221.9	.	.	17.1	0.0	2.4	26115	49
LSD (5%)	55.5	.	.	2.3	.	.	.	.
C.V. (%)	17.5	.	.	9.3	.	.	.	.

¹Average yield for 2004 and 2005

²Average yield for 2003, 2004 and 2005.

Soil Series	Sharkey clay
Previous Crop	Soybean
Row Width	38"
Preplant Herbicide	None
Preplant Fertilizer	100lbs./A Ammonium Sulfate, 50-50-50/A, 4/19/05
Planting Date	4/19/05
Irrigation Dates	5/26, 6/06, 6/21, 6/24, 6/30, 7/22, 8/04
Sidedress Fertilizer	125lbs./A N 32%, 5/25/05; 100lbs./A N, 6/30/05
Herbicide Application	1qt./A Atrazine + 1pt./A Dual + 20oz./A WeatherMax, 4/20/05; 14oz./A Basis Gold + 1pt./A Atrazine, 5/24/05
Insecticide Applications	0.24oz./1000 row ft., Regent, in-furrow
Harvest Date	Early- to mid-season hybrids: 8/28/05 Mid- to full-season hybrids: 8/28/05

Precipitation (inches)

	April	May	June	July	August	Total
2005	5.5	0.5	1.4	3.6	4.3	15.3
Average	4.9	5.2	4.0	3.7	2.8	20.6
Departure	0.6	-4.7	-2.6	-0.1	1.5	-5.3

Table 10. Performance of Irrigated Corn Hybrids, Marianna, AR, 2005.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches
<u>Early- to Mid-Season Hybrids</u>								
Pioneer 33R81	246.6	.	.	16.1	6.0	0.8	28320	55
Belle 1533Y	242.6	223.5	.	15.6	0.8	0.0	28527	49
Pioneer 33M54	241.5	206.5	208.4	16.2	3.3	0.5	27075	46
Terral TV26B34	236.1	211.9	215.7	16.2	4.3	0.0	29253	48
Pioneer 33N56	234.8	214.4	.	14.9	0.5	0.0	27075	50
Dyna Gro 58P59	232.3	.	.	14.9	3.5	0.3	25519	44
FFR 736BT	231.4	220.5	221.3	14.8	0.8	0.0	28942	44
Triumph 1536CbRR	231.4	.	.	15.4	4.3	0.0	27697	44
Golden Harvest H-9563BT	231.0	.	.	15.4	2.5	0.0	24378	46
DEKALB DKC61-45	230.5	216.5	.	13.8	0.0	0.3	29253	35
BEXRY 455	229.4	.	.	13.6	4.8	1.8	27594	44
Golden Acres 2831RRB	229.2	211.6	.	16.8	3.8	0.0	30291	45
Dyna Gro 57K14	228.9	212.4	212.2	14.5	11.3	0.3	27697	41
Terral TV25BR23	228.7	214.5	219.3	15.4	2.0	0.0	26867	44
Garst 8380IT	226.7	.	.	14.6	3.3	0.3	26660	44
CGF 812CB	225.3	.	.	14.7	7.5	0.0	27075	48
Belle 1545RY	223.6	204.2	.	15.2	4.8	1.3	26867	44
Terral TV27C48	223.5	.	.	17.4	2.8	0.5	27282	52
Terral TV26BR41	223.4	214.4	.	15.9	1.3	0.8	27075	45
Golden Harvest H-9498BT	223.1	.	.	13.8	5.8	0.3	27282	48
CGF 814CB	222.9	.	.	16.1	2.0	0.3	27179	47
NK Brand N65-C5	222.6	.	.	14.3	4.0	0.3	28008	39
DEKALB DKC66-21	222.2	.	.	17.3	9.5	1.3	27697	47
NK Brand N76-D3	221.7	.	.	16.6	0.8	0.3	26245	40
Belle 1824R	218.9	.	.	16.2	2.0	0.8	27179	51
Dyna Gro 57N96	218.8	.	.	15.0	3.0	0.0	24066	43
Terral TV26B82	218.8	213.4	.	16.9	11.8	0.5	25415	50
Triumph 1416BT	217.9	210.9	219.6	14.5	3.5	0.0	26867	43
Belle 1515C	217.3	210.6	.	15.6	0.0	0.0	26867	55
Croplan 631RR/BT	215.3	207.9	.	13.5	3.5	1.0	26245	38
Terral TV25R31	215.1	208.3	.	16.7	0.0	0.0	25208	44
Dyna Gro 57P12	215.0	.	.	16.2	4.5	0.3	24793	48
Dyna Gro CX05516	214.0	.	.	14.9	0.8	0.0	26867	49

Table 10. Performance of Irrigated Corn Hybrids, Marianna, AR, 2005, Continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches
<u>Early- to Mid-Season Hybrids Continued</u>								
NK Brand N72-J5	212.9	196.8	202.6	14.5	2.0	1.3	26556	45
Garst 8364YG1/RR	212.5	.	.	15.5	1.5	0.3	26349	56
NK Brand N70-T9	212.4	210.1	210.8	15.9	5.3	0.0	28320	44
Dyna Gro 57P46	210.9	.	.	14.8	2.0	0.0	24896	46
ASGROW RX715RR2	210.1	.	.	14.1	1.3	1.3	27386	46
DEKALB DKC63-81	210.0	202.5	.	14.2	3.0	0.0	26141	45
Garst 8454YG1	209.4	.	.	15.0	1.3	0.0	27075	48
Terral TV26B23	207.9	203.5	211.6	16.5	1.5	0.3	28112	60
FFR 746RRBT	207.6	.	.	14.4	0.3	0.3	26037	59
Terral TV26BR10n	205.5	201.5	208.8	15.3	4.3	0.0	27075	44
Belle 1525R	203.3	195.4	.	16.5	0.3	0.3	25830	55
Terral TV25B30	202.8	200.5	206.2	16.6	2.5	0.0	28631	58
Golden Harvest H-9166	202.8	202.0	.	15.1	0.8	0.0	27801	49
BG CB1143	201.9	199.0	.	15.4	0.8	0.0	20643	48
Dyna Gro 57F87	200.5	195.1	.	15.3	0.5	0.3	23340	34
Terral TV23R31	198.4	190.6	.	15.0	5.0	0.0	27179	51
BG RRCB1163	196.1	.	.	14.9	1.8	0.0	21785	46
Dyna Gro 5528BT	195.9	192.4	204.1	14.3	4.3	0.3	22822	50
BG BT1150	193.3	179.6	.	16.3	1.8	0.0	21473	47
Terral TVX25R501	192.8	.	.	15.6	0.3	0.3	27697	50
CGF 938RR	181.8	.	.	14.6	0.8	0.0	23963	46
Grand mean	217.2	.	.	15.3	3.0	0.3	26527	47
LSD (5%)	18.6	.	.	1.3	.	.	.	.
C.V. (%)	6.2	.	.	6.3	.	.	.	.
<u>Mid- to Full-Season Hybrids</u>								
Pioneer 31N28	247.2	.	.	18.3	2.3	0.3	28320	44
Pioneer 31G97	243.6	.	.	16.7	5.3	0.3	27022	56
Pioneer 32D99	240.1	213.3	.	18.1	23.0	0.8	27783	55
Golden Acres 2841RRB	239.9	.	.	17.2	5.3	0.0	29876	50
CGF 904	228.3	.	.	15.9	4.5	1.0	28216	48
FFR 843RRBT	227.3	.	.	17.8	5.3	0.0	24670	49
DEKALB DKC69-71	226.1	217.0	.	17.9	0.8	0.0	26660	57
FFR 835BT	215.4	.	.	17.1	1.3	1.0	26556	46
Croplan 851RR/BT	214.0	.	.	16.3	6.0	0.3	24170	48
Garst 8292YG1	213.6	.	.	19.2	1.0	0.0	25726	47
Croplan 818RR/BT	211.6	198.8	197.7	18.9	11.0	2.5	28734	47
CGF 909	211.5	.	.	17.8	7.8	0.0	28128	58
Garst 8225YG1/RR	210.7	.	.	16.0	1.8	0.3	25415	45
Golden Acres X-6511LLHx	205.4	.	.	19.0	2.8	0.0	25622	55
Belle 1830Y	205.0	.	.	16.9	0.8	0.0	24097	41

Table 10. Performance of Irrigated Corn Hybrids, Marianna, AR, 2005, Continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches
<u>Mid- to Full-Season Hybrids Continued</u>								
Golden Acres X-6420BT	205.0	.	.	17.0	1.8	0.0	27179	60
Golden Acres 2995RR	203.3	197.1	.	17.8	15.5	2.3	27594	55
FFR 900BT	201.7	214.9	.	16.4	11.5	0.8	25085	46
Dyna Gro CX03418	196.3	.	.	18.1	4.5	0.0	24896	54
FFR 886RR	192.0	.	.	17.3	3.5	0.5	23340	55
Golden Acres X-6501BT	188.6	.	.	18.4	12.0	1.0	26764	62
Grand mean	215.6	.	.	17.5	6.1	0.5	26469	51
LSD (5%)	22.6	.	.	1.1	.	.	.	.
C.V. (%)	7.4	.	.	4.5	.	.	.	.

¹Average yield for 2004 and 2005

²Average yield for 2003, 2004 and 2005.

Soil Series	Calloway Silt loam
Previous Crop	Soybean
Row Width	30"
Preplant Herbicide	None
Preplant Fertilizer	311 lbs./A 0-29-29, 4/05/05
Planting Date	4/18/05
Irrigation Dates	5/19, 6/03, 6/06, 6/16, 6/22, 6/26, 7/01, 7/21, 7/28, 8/03, 8/09, 8/14
Sidedress Fertilizer	200 lbs./A Urea, 100 lbs./A Ammonium Sulfate, 5/16/05; 3 lbs./A N, .5 lbs. Z/A Foliar, 5/18/05; 35 gal./A N, 6-02-05
Herbicide Application	1 pt./A Dual II Magnum, 4/20/05; 2 qts./A Atrazine + 1 oz./A Permit + Surfactant, 5/10/05
Insecticide Applications	None
Harvest Date	Early to mid-season hybrids: 9/09/05 Mid- to full-season hybrids: 9/09/05

Precipitation (inches)

	April	May	June	July	August	Total
2005	4.9	1	1.3	3.8	4.3	15.3
Average	4.9	5.2	4	3.7	2.8	20.6
Departure	0	-4.2	-2.7	0.1	1.5	-5.3

Table 11. Performance of Irrigated Corn Hybrids, Bell Farm, 2005.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches	Tip Cover Rating
<u>Early- to Mid-Season Hybrids</u>									
Belle 1533Y	202.4	.	.	27.0	0.0	0.0	32187	46	3
Golden Harvest H-9563BT	195.6	.	.	25.1	0.0	0.0	31979	50	2
Pioneer 33M54	195.2	204.2	.	23.6	0.0	0.4	29998	49	2
Terral TV26B34	189.6	197.4	.	26.4	0.0	0.0	32769		
Belle 1824R	188.5	.	.	28.8	0.0	0.0	31459	46	3
NK Brand N76-D3	187.2	.	.	24.4	0.0	0.0	31563	38	1
Garst 8380IT	186.4	.	.	23.9	0.0	0.0	30825		
CGF 812CB	186.1	.	.	24.4	0.0	0.5	31042	52	2
Dyna Gro 58P59	186.1	.	.	24.8	0.0	0.3	31375	47	2
Garst 8454YG1	185.8	.	.	22.8	0.0	0.0	30729	45	1
DEKALB DKC61-45	185.0	.	.	18.8	0.0	0.0	31562	41	2
BG RRCB1163	183.8	.	.	25.6	0.0	0.3	27942	48	2
Dyna Gro 57N96	183.6	188.8	.	25.4	0.0	0.0	26875	47	2
Dyna Gro CX05516	183.3	.	.	23.8	0.0	0.0	30729	50	2
Terral TV26B82	182.9	.	.	28.6	0.0	0.0	32500	55	1
Pioneer 33N56	182.9	.	.	21.7	0.0	0.0	31458	48	3
BEXRY 455	182.8	.	.	22.7	0.0	0.0	31771	45	2
Belle 1545RY	182.8	.	.	26.8	0.0	0.1	31803	45	2
Terral TV25BR23	182.5	192.8	.	26.1	0.0	0.3	31103	47	2
Golden Harvest H-9498BT	181.8	192.4	.	23.2	0.0	0.0	31875	58	1
DEKALB DKC66-21	181.3	.	.	25.1	0.0	0.0	32500	41	2
Dyna Gro 57F87	180.3	.	.	24.7	0.0	0.0	29986	46	2
Golden Acres 2831RRB	180.0	.	.	24.5	0.0	0.5	32500	47	1
Terral TV26BR41	179.1	.	.	27.5	0.0	0.3	30819	49	2
Terral TV27C48	178.5	.	.	31.5	0.0	0.3	31563	56	2
Triumph 1536CbRR	178.5	.	.	25.1	0.0	0.3	31459	49	2
Dyna Gro 57P12	178.2	.	.	28.7	0.0	0.3	29431	52	2
Terral TV25R31	177.1	.	.	29.0	0.0	0.0	28438	55	1
Golden Harvest H-9166	175.9	.	.	19.9	0.0	0.0	31459	45	3
CGF 814CB	175.4	.	.	27.6	0.0	0.0	30000	51	2
Belle 1525R	174.9	.	.	27.0	0.0	0.3	29570	51	2
ASGROW RX715RR2	173.5	.	.	19.6	0.0	0.0	31250	53	3
FFR 736BT	172.5	189.3	195.6	23.6	0.0	0.0	30938	48	1

Table 11. Performance of Irrigated Corn Hybrids, Bell Farm, 2005, Continued.

Brand/Hybrid	Yield bu./A	2-Year ¹	3-Year ²	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches	Tip Cover Rating
		Avg. bu./A	Avg. bu./A						
<u>Early- to Mid-Season Hybrids Continued</u>									
Triumph 1416BT	172.2	194.4	.	23.4	0.0	0.0	31667	38	1
BG BT1150	172.0	.	.	27.5	0.0	0.0	24470	48	3
Terral TV26B23	171.7	192.9	.	27.2	0.0	0.7	31109	47	1
Pioneer 33R81	171.4	.	.	23.0	0.0	0.3	32396	52	3
Dyna Gro 5528BT	171.0	179.2	200.5	24.8	0.0	0.0	27917	58	1
NK Brand N72-J5	170.3	185.6	.	22.3	0.0	0.0	31354	39	2
FFR 746RRBT	170.2	.	.	25.4	0.0	0.1	30553	69	3
Terral TV25B30	169.9	193.1	.	26.0	0.0	0.0	32347	55	1
Belle 1515C	169.5	.	.	29.1	0.0	0.0	31097	52	2
NK Brand N65-C5	169.0	.	.	21.4	0.0	0.0	32396	40	1
NK Brand N70-T9	163.8	178.5	.	24.2	0.0	0.0	31563	41	1
Dyna Gro 57P46	163.5	.	.	22.0	0.0	0.0	29063	49	3
CGF 938RR	162.7	.	.	24.2	0.0	0.0	30417	54	1
DEKALB DKC63-81	162.7	.	.	19.8	0.0	0.0	31459	46	3
Terral TV26BR10n	162.1	186.7	196.3	23.6	0.0	1.0	32396	56	1
Dyna Gro 57K14	161.9	176.3	.	22.2	0.0	0.0	30729	51	2
Garst 8364YG1/RR	161.6	.	.	23.7	0.0	0.0	28438	46	2
Croplan 631RR/BT	160.5	.	.	21.0	0.0	0.3	29896	36	1
BG CB1143	158.6	.	.	24.0	0.0	0.0	25125	40	1
Terral TVX25R501	152.1	.	.	23.8	0.0	0.4	31109	48	2
Terral TV23R31	151.9	.	.	26.8	0.0	0.0	31458	58	2
Grand mean	176.1	.	.	24.7	0.0	0.1	30711	49	2
LSD (5%)	15.4	.	.	1.8	.	.	.	.	.
C.V. (%)	6.3	.	.	5.1	.	.	.	.	.
<u>Mid- to Full-Season Hybrids</u>									
Pioneer 31N28	176.1	.	.	23.5	0.0	0.0	30521	36	2
Garst 8292YG1	171.6	.	.	26.5	0.0	0.0	31458	46	1
Croplan 851RR/BT	169.6	.	.	24.6	0.0	0.0	28634	42	1
FFR 843RRBT	166.6	.	.	25.2	0.0	0.0	24896	49	3
Pioneer 32D99	165.1	189.0	.	25.8	0.0	0.8	31354	52	2
Golden Acres 2841RRB	163.5	.	.	25.8	0.0	0.5	34167	43	1
FFR 835BT	162.3	.	.	25.5	0.0	0.0	30938	36	2
Belle 1830Y	161.4	.	.	25.9	0.0	0.0	29896	43	2
CGF 904	160.8	.	.	25.5	0.3	0.8	33021	41	2
Pioneer 31G97	159.6	.	.	25.0	0.3	0.0	30834	50	1
FFR 900BT	157.8	187.3	.	25.2	0.0	0.0	27500	43	1
Croplan 818RR/BT	155.6	163.3	179.9	25.4	0.0	0.0	34375	43	2
Golden Acres 2995RR	153.2	176.7	.	25.5	0.0	1.0	30521	55	2
DEKALB DKC69-71	152.5	182.7	.	27.1	0.0	0.0	31042	50	1
FFR 886RR	151.5	.	.	26.5	0.0	0.5	28958	55	2

Table 11. Performance of Irrigated Corn Hybrids, Bell Farm, 2005, Continued

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches	Tip Cover Rating
<u>Mid- to Full-Season Hybrids Continued</u>									
Golden Acres X-6511LLHx	151.3	.	.	28.7	0.0	0.0	26979	48	2
Garst 8225YG1/RR	150.9	.	.	24.9	0.0	0.3	29958	44	1
CGF 909	150.1	.	.	28.4	0.0	0.3	30313	52	2
Golden Acres X-6420BT	146.2	.	.	26.0	0.0	1.5	32083	56	1
Dyna Gro CX03418	145.6	.	.	26.5	0.0	0.3	29328	49	1
Golden Acres X-6501BT	137.3	.	.	27.3	0.0	1.5	27813	54	2
Grand mean	157.6	.	.	25.9	0.0	0.4	30219	47	2
LSD (5%)	21.1	.	.	1.5	.	.	.	.	.
C.V. (%)	9.4	.	.	4.1	.	.	.	.	.

1Average yield for 2004 and 2005

2Average yield for 2002, 2003 and 2005.

Soil Series Calloway silt loam
 Previous Crop Soybean
 Row Width 30"
 Preplant Herbicide None
 Preplant Fertilizer 50-100-100/A, 1lb./A Zinc, 1pt./A Boron, 4/18/05
 Planting Date 4/19/05
 Irrigation Dates 5/30, 6/14, 6/23, 6/30, 7/14, 7/24
 Sidedress Fertilizer 175 units liquid Nitrogen, 5/17/05
 Postemergence Herbicide 0.6oz./A Steadfast, 1.5qts./A Atrazine, 3.2oz./A Asana XL, 4/30/05
 Insecticide Applications None
 Harvest Date Early- to mid-season hybrids: 8/25/05
 Mid- to full-season hybrids: 8/25/05

Table 12. Performance of Irrigated Corn Hybrids, Rohwer, AR, 2005.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches
<u>Early- to Mid-Season Hybrids</u>								
Terral TVX25R501	209.2	.	.	17.7	0.5	0.0	31121	48
Terral TV26BR41	208.3	202.0	.	18.1	4.0	0.0	28621	43
DEKALB DKC61-45	207.6	196.1	.	17.5	0.5	0.0	29224	43
Pioneer 33M54	206.6	196.2	188.1	19.4	1.3	0.0	27414	45
CGF 814CB	204.8	.	.	18.4	1.8	0.0	28621	45
Dyna Gro 57F87	201.9	198.7	.	18.5	0.5	0.0	27759	45
NK Brand N76-D3	201.4	.	.	19.8	2.3	0.0	29569	42
Dyna Gro 57P12	199.7	.	.	20.1	2.0	0.0	26897	42
Terral TV25BR23	197.4	188.2	174.9	18.0	3.3	0.0	29224	44
CGF 812CB	197.3	.	.	17.1	5.3	0.0	28190	43
NK Brand N70-T9	195.3	190.5	177.4	19.4	0.8	0.0	28966	40
Triumph 1536CbRR	194.6	.	.	18.7	1.0	0.0	29569	43
BEXRY 455	194.5	.	.	17.4	6.5	0.0	30086	42
Dyna Gro 5528BT	194.5	201.4	180.6	18.5	5.8	0.0	27328	49
Terral TV26BR10n	193.7	187.2	154.3	21.0	4.3	0.0	32164	44
BG RRCB1163	191.5	.	.	18.5	0.0	0.0	23017	39
Garst 8454YG1	191.0	.	.	17.7	2.0	0.0	29052	46
NK Brand N72-J5	189.3	192.5	170.1	17.9	1.5	0.8	29569	43
Belle 1545RY	189.0	196.2	.	20.1	4.0	0.0	30000	41
Belle 1824R	188.7	.	.	19.6	4.6	0.0	29175	45
FFR 736BT	188.4	185.3	158.9	18.7	0.8	2.3	28190	46
Dyna Gro CX05516	187.7	.	.	17.9	4.8	0.0	30431	48
Croplan 631RR/BT	186.8	198.1	.	18.4	0.5	0.0	27500	42
Terral TV26B23	186.6	195.5	168.0	19.3	2.0	0.0	25862	51
DEKALB DKC63-81	186.4	174.7	.	16.9	2.0	0.0	28362	45
Terral TV26B34	186.1	196.5	173.2	19.3	10.3	0.0	31035	45
Pioneer 33N56	185.8	176.8	.	18.5	4.0	0.0	29569	49
Dyna Gro 57P46	185.3	.	.	19.5	4.5	0.0	27759	42
Golden Acres 2831RRB	183.8	188.6	.	19.9	3.0	0.0	33017	44
Belle 1515C	183.7	179.1	.	20.8	3.0	0.0	28448	51
NK Brand N65-C5	182.1	.	.	17.4	4.5	0.0	28276	35
Belle 1533Y	182.0	179.4	.	19.2	8.0	0.0	30086	43
DEKALB DKC66-21	181.9	.	.	20.1	0.5	0.0	28966	38

Table 12. Performance of Irrigated Corn Hybrids, Rohwer, AR, 2005, Continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches
ASGROW RX715RR2	180.4	.	.	19.6	4.8	0.0	28621	46
Terral TV27C48	179.6	.	.	18.9	4.8	0.0	27931	48
Golden Harvest H-9166	178.2	171.1	.	20.4	5.0	0.0	31207	47
Terral TV25B30	176.9	177.8	157.6	18.8	3.0	0.0	26811	48
Garst 8380IT	176.9	.	.	19.1	3.0	0.0	29052	50
Dyna Gro 57K14	176.8	179.5	163.1	17.6	4.8	0.0	29828	39
BG CB1143	176.8	186.9	.	20.9	0.0	0.0	22845	41
Terral TV25R31	176.5	182.8	.	19.8	8.3	0.0	29138	46
Golden Harvest H-9498BT	176.4	192.1	169.1	18.6	3.0	0.0	26294	46
Pioneer 33R81	176.3	.	.	19.1	5.3	0.0	29655	52
Golden Harvest H-9563BT	175.2	.	.	19.9	8.0	0.0	29741	46
Garst 8364YG1/RR	175.0	.	.	17.6	1.0	0.0	26293	49
Belle 1525R	174.9	163.9	.	19.6	2.8	0.0	27673	51
Triumph 1416BT	174.8	182.8	165.0	17.0	1.3	0.0	29138	42
Terral TV23R31	174.0	170.5	.	18.5	6.5	0.0	29742	50
Dyna Gro 58P59	173.1	.	.	18.4	4.5	0.0	30000	43
BG BT1150	172.9	177.1	.	17.9	1.0	0.0	22155	46
FFR 746RRBT	171.8	.	.	20.8	1.8	0.0	28104	52
Dyna Gro 57N96	167.5	.	.	17.9	2.0	0.0	23621	44
CGF 938RR	165.9	.	.	18.4	4.0	0.3	26638	47
Terral TV26B82	165.2	185.3	.	19.7	5.8	0.0	29224	47
Grand mean	185.7	.	.	18.8	3.3	0.1	28459	45
LSD (5%)	24.5	.	.	2.0	.	.	.	.
C.V. (%)	9.5	.	.	7.6	.	.	.	.
<u>Mid- to Full-Season Hybrids</u>								
Garst 8292YG1	204.5	198.2	.	19.3	2.0	0.0	28448	43
Golden Acres 2841RRB	203.5	196.3	.	19.3	0.8	0.0	33276	42
Croplan 818RR/BT	197.6	199.1	168.7	18.9	0.0	0.0	32414	41
Pioneer 32D99	192.1	207.5	183.4	20.2	1.5	0.0	28966	50
Pioneer 31G97	188.2	208.2	.	17.5	1.3	0.0	28104	50
CGF 904	185.4	.	.	19.3	3.0	0.0	31724	42
Garst 8225YG1/RR	179.1	.	.	17.9	0.0	0.0	27155	41
Belle 1830Y	177.4	186.6	.	19.2	0.0	0.0	27122	37
DEKALB DKC69-71	175.0	180.6	163.5	18.3	0.0	0.0	29076	51
Dyna Gro CX03418	172.4	.	.	18.0	0.0	0.0	26379	49
Pioneer 31N28	169.6	187.9	.	19.2	0.0	0.0	28621	40
FFR 843RRBT	162.2	.	.	19.3	0.0	0.0	26897	49
CGF 909	161.2	.	.	18.2	2.0	0.0	28707	48
FFR 900BT	158.9	169.5	149.7	17.0	0.0	0.0	25862	40
FFR 886RR	155.9	.	.	19.1	1.3	0.0	26207	52

Table 12. Performance of Irrigated Corn Hybrids, Rohwer, AR, 2005, Continued.

Brand/Hybrid	Yield bu./A	2-Year ¹ Avg. bu./A	3-Year ² Avg. bu./A	Grain Moisture %	Root Lodging	Stalk Lodging	Plants Per Acre	Ear Height Inches
Croplan 851RR/BT	148.8	.	.	18.8	0.0	0.0	27069	45
FFR 835BT	148.2	165.1	.	18.2	0.0	0.0	28448	40
Golden Acres X-6501BT	142.3	.	.	19.8	1.5	0.0	27328	52
Golden Acres 2995RR	129.9	.	.	18.8	4.5	0.0	28793	48
Golden Acres X-6511LLHx	122.4	.	.	20.9	1.5	0.0	27931	47
Golden Acres X-6420BT	120.5	153.2	.	18.8	0.0	0.0	23789	53
Grand mean	166.4	.	.	18.9	0.9	0.0	28206	46
LSD (5%)	18.1	.	.	1.4	.	.	.	.
C.V. (%)	7.6	.	.	5.1	.	.	.	.

¹Average yield for 2004 and 2005

²Average yield for 2003, 2004 and 2005.

Soil Series Sharkey & desha silt loam
 Previous Crop Soybean
 Row Width 38"
 Preplant Herbicide None
 Preplant Fertilizer 200 lbs./A 0-60-60 + 10lbs./A Zinc, 1/27/05
 Planting Date 4/1/05
 Irrigation Dates 5/13, 5/25, 6/7, 6/17, 6/24, 7/1, 8/01
 Sidedress Fertilizer 263 lbs./A 38-0-0, 4/22/05; 325 lbs./A 46-0-0, 5/25/05
 Herbicide Application 1 pt./A Dual Mag II, 4/5/05; 1.5 qts./A Atrazine 4L, 4/25/05;
 1 qt./A Atrazine4L, 5/12/05 + 0.75 oz./A Steadfast, 5/23/05
 Insecticide Applications None
 Harvest Date Early- to mid-season hybrids: 8/31/05
 Mid- to full-season hybrids: 8/31/05

Precipitation (inches)

	April	May	June	July	August	Total
2005	4.4	5.1	2.0	4.7	2.2	18.4
Average	5.0	4.7	3.5	3.9	2.7	19.8
Departure	-0.6	0.4	-1.5	0.8	-0.5	-1.4

**Participants and Entries
2005 Grain Sorghum Tests**

<u>Company/Institution</u>	<u>Hybrid</u>
FFR Seed 969 Cloverleaf Drive Southaven, MS 38671	FFR 317 FFR 322
Garst Seed Company 12832 Audrain Road 924 Centralia, MO 65240	Garst 5360 Garst 5401 Garst 5515
Golden Acres Genetics PO Box 579 Buchanan Dam, TX 78609	Golden Acres 444E Golden Acres 3552 Golden Acres 3827
Golden Harvest PO Box 248 Pekin, IL 61555	Golden Harvest EX-5513 Golden Harvest H-502
Monsanto Company 982 U.S. Hwy 77 Bishop, TX 78343	ASGROW A567 ASGROW A571 DEKALB DKS53-11 DEKALB DKS54-00 Monsanto MSC332 Monsanto MSC531 Monsanto MTC15525
Pioneer Hi-Bred International 7501 Memorial Parkway, SW Suite 205 Huntsville, AL 35802	Pioneer 84G62 Pioneer 83G66
Terral Seed, Inc. PO Box 826 Lake Providence, LA 71254	Terral TV1050 Terral TV93S72 Terral TV9421 Terral TV96H81 Terral TV97H17 Terral TVX94A415 Terral TVX94A427 Terral TVX95B303 Terral TVX95B323 Terral TVX95B324 Terral TVX96A317

Participants and Entries
2005 Grain Sorghum Tests Continued

<u>Company/Institution</u>	<u>Hybrid</u>
Triumph Seed Company, Inc. PO Box 1050 Ralls, TX 79357	TR 82-G TR 481
United Agri Products 57 Germantown Court Suite 200 Cordova, TN 38018	Dyna Gro 751B Dyna Gro 762B Dyna Gro 780B Dyna Gro X1739 Dyna Gro X1742 Dyna Gro X1743 Dyna Gro X1755 Dyna Gro X1758 Dyna Gro X1759 Dyna Gro X1785

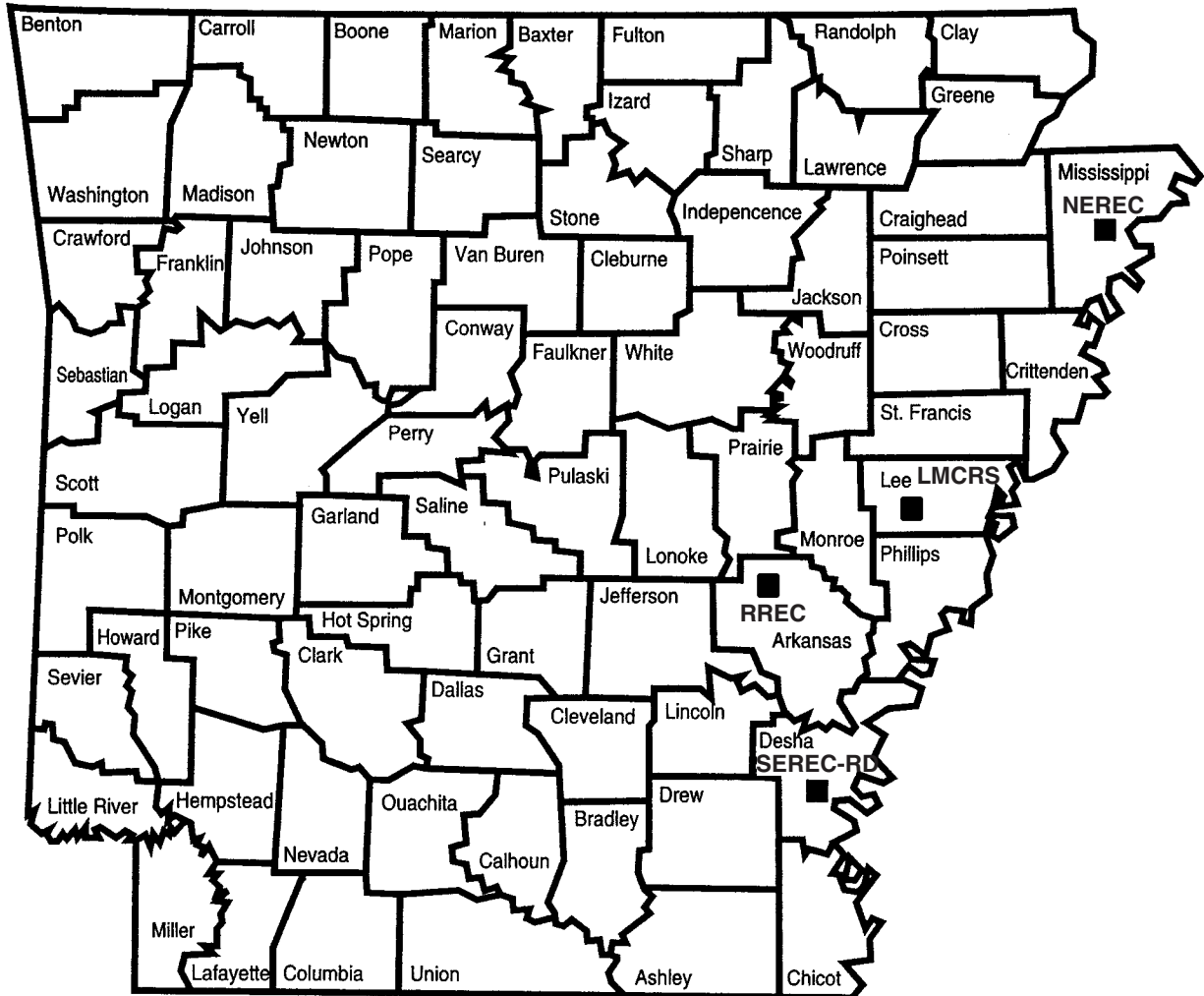
**Participants and Entries
2005 Corn Tests**

<u>Company/Institution</u>	<u>Hybrid</u>
Belle Southern Hybrids PO Box 9 Waldenburg, AR 72475	Belle 1515C Belle 1525R Belle 1533Y Belle 1545RY Belle 1824R Belle 1830Y BEXRY 455
Croplan Genetics 4990 N. County Road 583 Blytheville, AR 72315	Croplan 631 RR/BT Croplan 818 RR/BT Croplan 851 RR/BT
FFR Seed 969 Cloverleaf Drive Southaven, MS 38671	FFR 736BT FFR 746RRBT FFR 835BT FFR 843RRBT FFR 886RR FFR 900 BT
Garst Seed Company 2369 330th Street Slater, IA 50244	Garst 8225YG1/RR Garst 8292YG1 Garst 8364YG1/RR Garst 8380IT Garst 8454YG1
Golden Acres Genetics PO Box 579 Buchanan Dam, TX 78609	Golden Acres 2831RRB Golden Acres 2841RRB Golden Acres 2995RR Golden Acres X-6420BT Golden Acres X-6501BT Golden Acres X-6511LLHx
Golden Harvest PO Box 248 Pekin, IL 61555	Golden Harvest H-9166 Golden Harvest H-9498Bt Golden Harvest H-9563Bt
Monsanto 4312 Card Avenue Cortland, IL 60112	ASGROW RX715RR2 DEKALB DKC61-45 DEKALB DKC63-81 DEKALB DKC66-21 DEKALB DKC69-71
Pioneer Hi-Bred International 7501 Memorial Parkway Suite 205 Huntsville, AL 35802	Pioneer 31G97/RR2 Pioneer 31N28YGCB Pioneer 32D99 Pioneer 33M54 Pioneer 33N56 Pioneer 33R81YGCB/RR2

Participants and Entries
2005 Corn Tests Continued

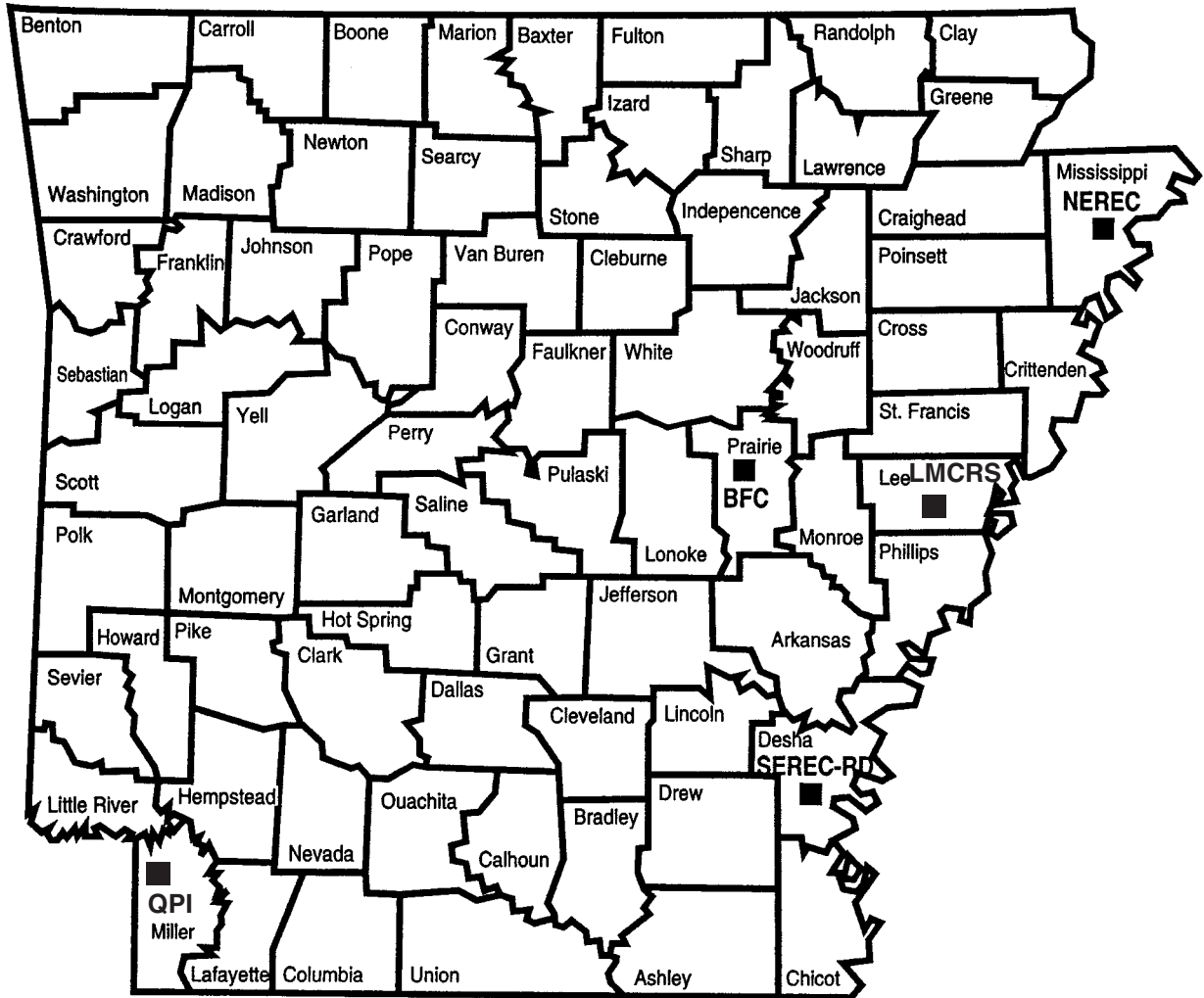
<u>Company/Institution</u>	<u>Hybrid</u>
Syngenta Seeds 535 Pennyrile Drive Madisonville, KY 42431	NK Brand N65-C5 NK Brand N70-T9 NK Brand N72-J5 NK Brand N76-D3
Terral Seed, Inc. PO Box 826 Lake Providence, LA 71254	Terral TV23R31 Terral TV25B30 Terral TV25BR232 Terral TV25R31 Terral TV26B23 Terral TV26B34 Terral TV26B82 Terral TV26BC10n Terral TV26BR41 Terral TV27C48 Terral TVX25R501RR
Triumph Seed Company, Inc. PO Box 1050 Ralls, TX 79357	Triumph 1416 Bt Triumph 1536CbRR
UniSouth Genetics, Inc. 2640-C Nolensville Road Nashville, TN 37211	Bio Gene BT 1150 Bio Gene CB 1143 Bio Gene RRCB 1163 CGF 812CB CGF 814CB CGF 904 CGF 909 CGF 938RR
United Agri Products 57 Germantown Court Suite 200 Cordova, TN 38018	Dyna Gro 5528Bt Dyna Gro 57F87 Dyna Gro 57K14 Dyna Gro 57N96 Dyna Gro 57P12 Dyna Gro 57P46 Dyna Gro 58P59 Dyna Gro CX03418 Dyna Gro CX05516

GRAIN SORGHUM TEST LOCATIONS



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

CORN TEST LOCATIONS



- NEREC** Northeast Research and Extension Center, Keiser, Arkansas
- LMCRS** Lon Mann Cotton Research Station, Marianna, Arkansas
- BFC** Bell Farming Company, Des Arc, Arkansas
- SEREC-RD** Southeast Research and Extension Center-Rohwer Division, Rohwer, Arkansas
- QPI** Queen's Plantation, Inc., near Texarkana, Arkansas

The logo features the letters 'U', 'of', and 'A' in a serif font. The 'U' is large and bold, with 'of' in a smaller, lowercase script font positioned between the 'U' and the 'A'. The 'A' is also large and bold, matching the 'U'. The entire logo is set against a light blue rectangular background.

UNIVERSITY OF ARKANSAS

DIVISION OF AGRICULTURE