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Kelly, J. T.; Parsons, C. E.; and Bacon, R. K., "Arkansas Small-Grain Cultivar Performance Tests 2004-2005" (2005). *Research Series*. 100.

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ARKANSAS AGRICULTURAL EXPERIMENT STATION

Division of Agriculture

University of Arkansas System

July 2005

Research Series 532

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, Ark. 72701.

Technical editing by Camilla Romund and cover design by Amalie Holland

Arkansas Agricultural Experiment Station, University of Arkansas System's 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. SG850QX6. The University of Arkansas Division of Agriculture follows a nondiscriminatory policy in programs and employment.

ISSN:1051-3140 CODEN:AKAMA6

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2004-2005

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**Arkansas Agricultural Experiment Station
Fayetteville, Arkansas 72701**

(a unit of the University of Arkansas System's statewide Division of Agriculture)

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 Crop, Soil and Environmental Sciences
University of Arkansas, Fayetteville
Mr. Nathan Fortner, Graduate Assistant
Mr. Keith King, Graduate Assistant
Mr. Tim Rainey, Undergraduate Assistant
Mr. Alejandro Paz, Undergraduate Assistant

Department of Plant Pathology, University of Arkansas, Fayetteville
Dr. Gene Milus, Associate Professor
Mr. Sam Markell, Research Specialist

Cooperative Extension Service, Little Rock
Dr. Jason Kelley, Wheat and Feed Grains Specialist
Dr. Rick Cartwright, Extension Plant Pathologist

Northeast Research and Extension Center, Keiser
Dr. Fred Bourland, Center Director
Mr. Shawn Lancaster, Research Specialist

Vegetable Substation, Kibler
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Cotton Branch Station, Marianna
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Rice Research and Extension Center, Stuttgart
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Southwest Research and Extension Center, Hope
Dr. Mike Phillips, Center Director
Mr. John Barham, Research Specialist

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ARKANSAS SMALL-GRAIN CULTIVAR PERFORMANCE TESTS¹ 2004-2005

J.T. Kelly², C.E. Parsons³, and R.K. Bacon²

INTRODUCTION

Small-grain cultivar performance tests are conducted each year in Arkansas by the Arkansas Agricultural Experiment Station, Department of Crop, Soil and Environmental Sciences. The tests provide information to companies developing cultivars and/or marketing seed within the state and aid the Arkansas Cooperative Extension Service in formulating cultivar recommendations for small-grain producers.

The tests are conducted at the Northeast Research and Extension Center at Keiser, the Vegetable Substation near Kibler, the Cotton Branch Station near Marianna, the Southeast Branch Station near Rohwer, the Rice Research and Extension Center near Stuttgart, and the Southwest Research and Extension Center at Hope. Wheat tests were planted at all locations; oat tests were planted at Marianna and Hope. The wheat test conducted by the personnel of the Southwest Research and Extension Center was located at Lewisville, 23 miles south of Hope.

Two wheat tests were planted at Stuttgart. The Standard Input Wheat Test and the High Input Wheat Test contained the same entries and were treated identically with respect to cultural practices except the High Input Test received more topdress nitrogen and a foliar fungicide application. This dual approach is utilized to give information on cultivar performance under conventional and high-input production strategies employed by Arkansas farmers. Specific location and cultural practice information accompanies each table.

METHODS

Each wheat test contained 100 entries and each oat test contained 30 entries. A randomized complete block experimental design with four replications was used for all tests. Seeding rates of 105 lb/A for wheat and 64 lb/A for oat were used to establish plots 20 feet in length and 49 inches in

width (seven rows, seven inches apart). The test at Keiser was planted using a grain drill with 9 rows seven inches apart. Due to the larger area planted (plot width) the effective seeding rate was reduced to 82 lb/A. All sites used conventional seedbed preparation. Plots were end-trimmed and harvested with a plot combine.

The stands were very poor at Stuttgart and at Kibler due to excessive rainfall after planting. The tests were determined to be unusable at both locations, but due to continued rainfall, there was not an opportunity for replanting. Therefore, no data are reported for Kibler or Stuttgart. The stands at Marianna for the first planting were poor due to heavy rains after planting, so the test was replanted 15 days later (November 9). Stands were good in the second planting with the exception of the area of the fourth replication (west end). After harvest it was determined that better precision was obtained without the data from this replication, so only data from the first three replications are reported. Stands were also affected by wet conditions at Lewisville. Much of the plots was washed away so at harvest the usable plot length was measured and the yield data were subsequently adjusted. Bird feeding affected the yield on a number of plots in the first replication at Keiser. Those plots with significant visual damage were discarded and not used in the yield calculation at Keiser.

Characters evaluated

Yield: Yields were calculated from the weight of seed from each plot as measured by the Harvest Master Pro 4100 and are expressed as bushels per acre (bu/A) at 13% moisture content.

Test weight: Test weights, expressed in pounds per bushel (lb/bu), were determined using the Harvest Master Pro 4100.

¹ 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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Lodging: Lodging is reported as an estimated percentage of plants prostrate at maturity: 10 = 10% lodged; 100 = 100% lodged. The lodging ratings are usually taken at harvest, so many of the earlier maturing lines may have higher ratings resulting from a delay in harvest. Also, high lodging scores are sometimes directly associated with more seeds per head or high grain yields.

Heading Date: Heading dates are reported as the day an estimated 50% of the heads had emerged.

Maturity Date: Maturity dates are reported as the day an estimated 90% of the culms were yellow.

Disease Ratings: Disease infections are rated visually based on the percentage of leaf or glume area displaying symptoms.

WEATHER SUMMARY

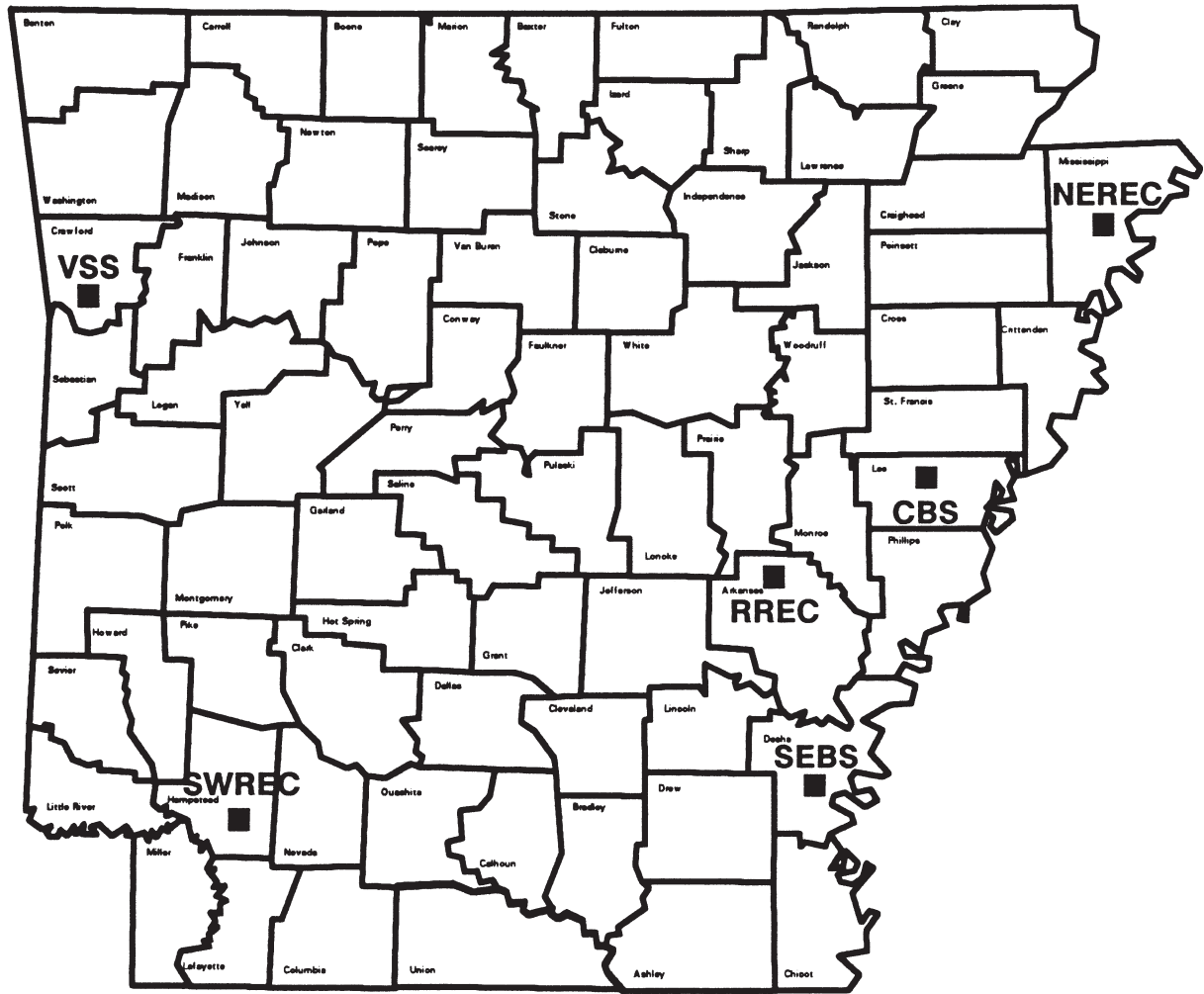
Prior to the planting season, there was very low soil moisture. However, rainfall was frequent in the fall as all locations received above-average rainfall during October-November. This excessive rainfall caused a delay in planting and resulted in less than optimal stand establishment at many locations. Planting conditions were so poor in Arkansas that farmers planted approximately 200,000 acres of wheat compared to an average of 926,000 acres the last five years. Spring growing conditions were relatively dry with all locations reporting below normal rainfall during the

period March through May. Monthly rainfall totals from October through May and the departure from normal (30-year average) are given for each test.

RESULTS

Grain yields were generally good for all tests. Stripe rust was widespread and had significant impact on yields at Marianna, Lewisville, and Rohwer. Stripe rust ratings for Marianna were taken on April 25 and for Lewisville on April 14 by Dr. Gene Milus, Department of Plant Pathology. Dr. Milus also rated the test at Lewisville for leaf rust reaction (April 14). Wheat spindle-streak mosaic virus was evident in the test at Marianna but symptoms quickly disappeared with spring growth. Yields of wheat cultivars at all locations are summarized in Table 1. Yields and other agronomic measurements are given in Tables 2-5 along with cultural practice and site information including precipitation summaries. The results from the oat tests are presented in Tables 6-7. Yields are not reported from Stuttgart and Kibler.

SMALL-GRAIN TEST LOCATIONS



- CBS** - Cotton Branch Station, Marianna, Arkansas
- NEREC** - Northeast Research and Extension Center, Keiser, Arkansas
- RREC** - Rice Research and Extension Center, Stuttgart, Arkansas
- SEBS** - Southeast Branch Station, Rohwer, Arkansas
- SWREC** - Southwest Research and Extension Center, Hope, Arkansas
- VSS** - Vegetable Substation, Kibler, Arkansas

Table 1. Summary of wheat yields in the Standard Input Tests at four locations.

	Keiser	Marianna	Rohwer	Lewisville	Average
	-----bu/A-----				
AGRIPRO/COKER APW 742	76.2	82.6	80.7	80.6	80.0
AGRIPRO/COKER APW 749	71.8	94.3	83.7	94.9	86.2
AGRIPRO/COKER BERETTA	70.1	75.4	72.4	55.9	68.5
AGRIPRO/COKER COOPER	64.7	47.2	59.2	35.9	51.8
AGRIPRO/COKER NATCHEZ	47.0	97.1	79.9	84.6	77.2
AGRIPRO/COKER PANOLA	68.8	69.9	77.2	65.4	70.3
AGRIPRO/COKER SAVAGE	56.4	82.1	72.5	64.0	68.8
AGRIPRO/COKER B980582	66.0	80.2	57.4	50.6	63.6
AGRIPRO/COKER B980696	55.8	79.2	71.5	69.8	69.1
AGRIPRO/COKER COKER 9152	70.9	83.7	59.9	53.2	66.9
AGRIPRO/COKER COKER 9375	64.4	82.1	61.1	63.4	67.8
AGRIPRO/COKER COKER 9663	53.5	77.4	70.7	40.0	60.4
AGS 2000	66.9	66.8	69.6	58.1	65.4
AGS 2050	63.0	82.7	66.1	46.2	64.5
ARMOR 2010	74.1	67.1	80.9	46.8	67.2
ARMOR 3035	66.3	78.7	80.6	69.6	73.8
ARMOR 3330	65.9	100.9	76.1	73.4	79.1
ARX 5099	70.9	93.9	80.4	82.0	81.8
ARX 5109	65.4	84.5	70.0	78.7	74.7
ARX 5299	70.8	73.0	65.5	60.4	67.4
ARX 5667	64.6	64.6	70.7	79.3	69.8
CHOPTANK	55.2	72.7	60.1	36.6	56.2
CROPLAN GENET. 514W	65.9	64.6	42.8	29.5	50.7
CROPLAN GENET. 554W	72.5	41.6	58.7	32.8	51.4
CROPLAN GENET. 8302	58.1	91.8	69.9	59.1	69.7
DELTA GROW 4100	64.1	87.6	73.4	79.4	76.1
DELTA GROW 4200	62.8	75.5	67.3	72.3	69.5
DELTA GROW 4500	68.5	77.5	68.7	65.4	70.0
DELTA KING 1551	69.1	52.0	75.1	76.1	68.1
DELTA KING 7710	67.7	96.9	75.4	78.9	79.7
DELTA KING 7830	64.3	88.8	81.5	71.5	76.5
DELTA KING 7900	61.3	82.8	67.2	68.1	69.9
DELTA KING GR9108	69.1	92.2	74.7	90.2	81.6
DELTA KING 9216	70.2	72.3	65.8	52.6	65.2
DELTA KING 9410	72.7	78.2	76.9	85.8	78.4
DELTA KING 9577	75.9	89.1	69.9	74.3	77.3
DELTA KING 9650	68.3	60.7	63.6	42.3	58.7
DELTA KING XTJ321	55.2	98.5	62.3	52.3	67.1
DELTA KING XTJ322	48.0	76.3	69.8	70.5	66.2
DELTA KING XTJ323	65.6	59.7	61.0	35.5	55.5
DIXIE 357	64.2	78.3	79.9	69.8	73.1
DIXIE 500	60.4	77.1	66.5	52.6	64.2
DIXIE 900	68.9	88.0	72.6	82.4	78.0
DIXIE 922	67.1	71.7	76.2	73.2	72.1
DIXIE 9512	62.5	69.5	77.0	55.6	66.2
DIXIE 9812	66.1	72.5	78.3	62.1	69.8
DIXIE BELL DB1170	68.8	83.3	77.4	59.9	72.4
DIXIE BELL DB2125	70.3	72.6	73.5	70.1	71.6
DIXIE BELL DB2150	70.8	80.3	83.5	72.5	76.8

Table 1. Summary of wheat yields in the Standard Input Tests at four locations.

	Keiser	Marianna	Rohwer	Lewisville	Average
	-----bu/A-----				
EK EXP 125	60.9	66.3	63.8	38.0	57.3
EK EXP 155	64.6	47.6	66.8	49.2	57.1
EXP SABRE	67.2	59.9	61.2	39.3	56.9
EXP SENNA	57.5	64.9	55.3	62.5	60.1
FFR 556	70.5	67.0	60.1	39.8	59.4
FFR 8302	65.5	91.8	80.7	83.4	80.4
HBK 3266	61.3	64.2	87.6	49.5	65.7
LA95125BUB73-2-2-B	68.0	72.3	55.3	68.5	66.0
LA95135D54-2-3-C	65.4	67.1	81.3	79.9	73.4
LA95181BUB40-1	68.7	92.8	77.1	96.7	83.8
LA95283CA78-1-2-B	58.6	91.0	51.6	94.3	73.9
LA952D3-1-3-C	63.1	72.8	66.9	67.2	67.5
LA9560CA22-1	58.2	69.6	73.7	90.6	73.0
LA96140BUA70-2	65.6	91.0	67.7	85.8	77.5
LA97113UC-124-B	55.9	83.4	74.7	99.0	78.3
McCORMICK	54.2	69.4	56.1	35.4	53.8
MVS-46	61.4	61.0	63.1	56.6	60.5
PAT	63.1	88.7	57.9	73.6	70.8
PIONEER 26R12	67.1	74.9	66.2	60.3	67.1
PIONEER 26R15	69.0	85.6	76.0	70.6	75.3
PIONEER 26R58	67.6	70.6	66.0	47.7	63.0
PIONEER XW03X	80.2	83.3	70.4	79.8	78.4
PROGENY 110	70.7	75.8	74.0	74.3	73.7
PROGENY 133	58.3	84.5	70.3	75.3	72.1
PROGENY 145	72.6	85.6	70.8	60.2	72.3
PROGENY 156	58.8	73.5	69.8	70.6	68.2
PROGENY 166	66.3	92.3	82.5	64.0	76.3
PROGENY 185	75.1	94.4	74.4	67.5	77.9
ROANE	61.2	70.4	72.1	61.2	66.2
SABBE	47.0	75.6	66.5	57.7	61.7
SOUTH. STATES SS560	73.7	79.1	56.7	35.6	61.3
TERRAL LA841	61.6	80.8	79.9	86.8	77.3
TERRAL TV8450	67.2	80.2	74.4	64.0	71.5
TERRAL TV8466	58.0	86.4	73.2	78.8	74.1
TERRAL TV8502	62.1	87.0	72.9	77.9	75.0
TERRAL TV8565	67.1	78.5	71.9	65.6	70.8
TERRAL TVX83W479	79.7	95.4	82.3	84.5	85.5
TERRAL TVX84W451	67.6	56.0	68.6	39.1	57.8
UGA 951079-2E31	55.6	86.1	71.9	91.2	76.2
UGA 951216-2E26	67.4	86.6	72.8	122.3	87.3
USG 3209	70.9	83.8	67.0	69.3	72.8
USG 3350	66.5	91.4	74.4	66.8	74.8
USG 3592	67.7	74.2	70.9	47.2	65.0
USG EXP 910	60.3	60.6	60.3	42.6	56.0
VA00W-526	69.2	100.3	67.5	68.3	76.3
VAN98W-342	62.2	55.1	33.8	34.5	46.4
Grand mean	65.3	77.8	70.0	65.4	69.6
LSD (5%)	10.8	22.0	12.7	15.9	
C.V. (%)	11.9	17.7	13.1	17.5	

**STANDARD INPUT WHEAT TEST
NORTHEAST RESEARCH & EXTENSION CENTER, KEISER, AR**

SOIL SERIES....Sharkey silty clay
 PREVIOUS CROP...Fallow
 PLANTING DATE....November 10, 2004
 FERTILIZER....70 lb N/A on Jan. 27, 2005; 110 lb N/A on March 4, 2005
 HERBICIDE....2.7 pt/A Hoelon on Nov. 9, 2004; 0.6 oz/A Harmony Extra on March 14, 2005
 INSECTICIDE....None
 HARVEST DATE....June 13, 2005
 PRECIPITATION

	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Total</u>
	----- Inches -----								
2004-2005	3.7	4.0	3.7	4.5	4.0	5.2	5.5	0.5	31.1
Normal	2.4	4.1	4.7	3.4	3.0	4.8	5.1	5.3	32.8
Departure	+1.3	-0.1	-1.0	+1.1	+1.0	+0.4	+0.4	-4.8	-1.7

Table 2. Performance of Wheat Cultivars in the Standard Input Test, Keiser.

Entry Name	Yield	Test wt	Ldg	Head date	Mat date	2-Yr avg
	bu/A	lb/bu	%			bu/A
PIONEER XW03X	80.2	54.1	0	4-25	5-27	
TERRAL TVX83W479	79.7	52.8	0	4-24	5-25	
AGRIPRO/COKER APW742	76.2	54.6	0	4-20	5-25	
DELTA KING 9577	75.9	54.3	0	4-24	5-26	72.2
PROGENY 185	75.1	53.3	0	4-25	5-27	
ARMOR 2010	74.1	52.8	0	4-25	5-28	61.8
SOUTH. STATES SS560	73.7	51.8	0	4-25	5-26	67.5
DELTA KING 9410	72.7	53.4	0	4-26	5-27	61.6
PROGENY 145	72.6	52.2	0	4-25	5-27	62.5
CROPLAN GENET. 554W	72.5	51.2	0	4-25	5-26	71.6
AGRIPRO/COKER APW749	71.8	55.8	0	4-20	5-24	
AGRIPRO/COKER COKER 9152	70.9	54.4	0	4-24	5-25	60.9
USG 3209	70.9	51.5	0	4-24	5-27	63.9
ARX 5099	70.9	51.4	0	4-24	5-25	
ARX 5299	70.8	51.9	0	4-25	5-28	
DIXIE BELL DB2150	70.8	53.0	0	4-26	5-27	64.1
PROGENY 110	70.7	53.4	0	4-25	5-26	60.8
FFR 556	70.5	51.5	0	4-24	5-26	64.6
DIXIE BELL DB2125	70.3	53.4	0	4-27	5-28	63.0
DELTA KING 9216	70.2	54.4	0	4-27	5-27	64.1
AGRIPRO/COKER BERETTA	70.1	50.7	0	4-28	5-28	68.4
VA00W-526	69.2	52.8	0	4-24	5-26	
DELTA KING 1551	69.1	55.2	0	4-25	5-26	62.1
DELTA KING GR9108	69.1	52.5	0	4-24	5-26	55.1
PIONEER 26R15	69.0	55.0	0	4-26	5-28	70.8
DIXIE 900	68.9	52.3	0	4-26	5-28	63.9
AGRIPRO/COKER PANOLA	68.8	55.6	0	4-22	5-25	66.0

Table 2. Continued.

Entry Name	Yield	Test wt	Ldg	Head date	Mat date	2-Yr avg
	bu/A	lb/bu	%			bu/A
DIXIE BELL DB1170	68.8	52.9	0	4-25	5-26	62.6
LA95181BUB40-1	68.7	52.3	0	4-24	5-25	
DELTA GROW 4500	68.5	53.3	0	4-26	5-26	60.5
DELTA KING 9650	68.3	53.1	0	4-26	5-27	69.7
LA95125BUB73-2-2-B	68.0	54.1	0	4-18	5-22	
DELTA KING 7710	67.7	53.5	0	4-26	5-26	63.8
USG 3592	67.7	53.3	0	4-24	5-24	64.4
TERRAL TVX84W451	67.6	53.6	0	4-27	5-28	
PIONEER 26R58	67.6	54.1	0	4-24	5-25	68.2
UGA 951216-2E26	67.4	53.0	0	4-23	5-24	
EXP SABRE	67.2	52.5	0	4-25	5-27	
TERRAL TV8450	67.2	52.8	0	4-25	5-25	59.3
PIONEER 26R12	67.1	55.5	0	4-25	5-26	67.5
TERRAL TV8565	67.1	53.6	0	4-28	5-27	57.4
DIXIE 922	67.1	53.3	0	4-27	5-28	60.5
AGS 2000	66.9	53.7	0	4-24	5-27	64.3
USG 3350	66.5	54.3	0	4-26	5-27	58.9
PROGENY 166	66.3	53.8	0	4-27	5-28	57.2
ARMOR 3035	66.3	53.0	0	4-29	5-27	55.2
DIXIE 9812	66.1	52.8	0	4-25	5-26	60.2
AGRIPRO/COKER B980582	66.0	55.2	0	4-24	5-25	
CROPLAN GENET. 514W	65.9	52.2	0	4-21	5-23	59.5
ARMOR 3330	65.9	52.8	0	4-27	5-28	59.7
DELTA KING XTJ323	65.6	53.6	0	4-28	5-27	
LA96140BUA70-2	65.6	54.0	0	4-24	5-26	
FFR 8302	65.5	53.3	0	4-27	5-29	64.3
ARX 5109	65.4	53.3	0	4-28	5-29	64.0
LA95135D54-2-3-C	65.4	52.1	0	4-24	5-27	
AGRIPRO/COKER COOPER	64.7	51.7	0	4-28	5-28	66.3
EK EXP 155	64.6	50.5	0	4-29	5-27	
ARX 5667	64.6	54.1	0	4-24	5-28	
AGRIPRO/COKER COKER 9375	64.4	50.3	0	4-26	5-26	62.8
DELTA KING 7830	64.3	53.2	0	4-25	5-26	59.0
DIXIE 357	64.2	53.3	0	4-27	5-28	57.8
DELTA GROW 4100	64.1	53.1	0	4-28	5-26	
PAT	63.1	55.1	0	5-02	5-30	58.7
LA952D3-1-3-C	63.1	52.0	0	4-23	5-24	
AGS 2050	63.0	54.1	0	4-24	5-25	
DELTA GROW 4200	62.8	53.5	0	4-26	5-27	57.6
DIXIE 9512	62.5	52.6	0	4-24	5-27	59.1
VAN98W-342	62.2	52.6	0	4-24	5-24	
TERRAL TV8502	62.1	52.4	0	4-28	5-26	57.8
TERRAL LA841	61.6	53.6	0	4-22	5-24	61.1
MVS-46	61.4	52.3	0	4-26	5-27	
HBK 3266	61.3	54.7	0	4-24	5-27	62.1
DELTA KING 7900	61.3	51.6	0	4-26	5-29	55.1

Table 2. Continued.

Entry Name	Yield	Test wt	Ldg	Head date	Mat date	2-Yr avg
	bu/A	lb/bu	%			bu/A
ROANE	61.2	53.9	0	4-29	5-29	61.3
EK EXP 125	60.9	51.3	0	4-27	5-27	
DIXIE 500	60.4	51.3	0	4-27	5-28	55.8
USG EXP 910	60.3	51.3	0	4-27	5-27	
PROGENY 156	58.8	52.3	0	4-29	5-28	57.1
LA95283CA78-1-2-B	58.6	53.5	0	4-21	5-23	
PROGENY 133	58.3	52.8	0	4-27	5-28	56.3
LA9560CA22-1	58.2	55.7	0	4-24	5-25	56.5
CROPLAN GENET. 8302	58.1	54.0	0	4-27	5-28	
TERRAL TV8466	58.0	51.8	0	4-27	5-28	57.4
EXP SENNA	57.5	52.6	0	4-26	5-27	
AGRIPRO/COKER SAVAGE	56.4	53.9	0	4-24	5-26	60.2
LA97113UC-124-B	55.9	54.8	0	4-25	5-28	54.3
AGRIPRO/COKER B980696	55.8	53.4	0	4-16	5-27	
UGA 951079-2E31	55.6	53.6	0	4-19	5-22	
CHOPTANK	55.2	51.6	0	4-25	5-26	57.1
DELTA KING XTJ321	55.2	50.3	0	4-25	5-27	
McCORMICK	54.2	52.2	0	4-27	5-27	58.3
AGRIPRO/COKER COKER 9663	53.5	53.7	0	4-23	5-26	52.0
DELTA KING XTJ322	48.0	55.3	0	5-01	5-28	
SABBE	47.0	51.1	0	4-29	5-30	53.2
AGRIPRO/COKER NATCHEZ	47.0	50.3	0	4-20	5-27	49.6
Grand mean	65.3	53.1	0	4-25	5-27	61.1
LSD (5%)	10.8	1.8	ns	3	2	12.2
C.V. (%)	11.9	2.4		4	1	10.8

Ldg = Lodging

**STANDARD INPUT WHEAT TEST
COTTON BRANCH STATION, MARIANNA, AR**

SOIL SERIES....Loring silt loam
 PREVIOUS CROP....Fallow
 PLANTING DATE....November 9, 2004
 FERTILIZER.... 90 lb N/A on Feb. 15, 2005; 60 lb N/A + 24 lb S/A on Feb. 28, 2005
 HERBICIDE....0.6 oz/A Harmony Extra
 INSECTICIDE....None
 HARVEST DATE....June 7, 2005
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2004-2005	4.0	10.0	3.9	6.1	2.8	4.6	4.9	1.0	37.3
Normal	3.0	4.4	4.8	4.4	4.1	5.4	5.5	5.2	36.8
Departure	+1.0	+5.6	-0.9	+1.7	-1.3	-0.8	-0.6	-4.2	+0.5

Table 3. Performance of Wheat Cultivars In the Standard Input Test, Marianna.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Stripe rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in		%	----bu/A----	
ARMOR 3330	100.9	53.9	0	38	*	0	95.3	87.7
VA00W-526	100.3	56.5	0	32	4-17	0		
DELTA KING XTJ321	98.5	55.8	0	38	4-17	1		
AGRIPRO/COCKER NATCHEZ	97.1	57.2	0	42	*	0	88.7	83.2
DELTA KING 7710	96.9	57.8	0	41	*	0	92.9	
TERRAL TVX83W479	95.4	56.6	0	37	4-16	1		
PROGENY 185	94.4	54.7	0	36	4-18	8		
AGRIPRO/COCKER APW749	94.3	60.1	0	38	4-15	0		
ARX 5099	93.9	56.8	0	37	4-17	2		
LA95181BUB40-1	92.8	57.0	0	40	4-17	0		
PROGENY 166	92.3	54.9	0	39	*	0	92.2	85.5
DELTA KING GR9108	92.2	57.4	0	41	4-17	1	91.0	85.7
FFR 8302	91.8	56.9	0	39	4-17	0	92.0	
CROPLAN GENET. 8302	91.8	58.6	0	36	*	0		
USG 3350	91.4	56.0	0	39	*	0	93.1	87.1
LA95283CA78-1-2-B	91.0	58.7	0	36	4-15	0		
LA96140BUA70-2	91.0	54.9	0	37	4-17	0		
DELTA KING 9577	89.1	57.0	0	36	4-17	1	95.8	
DELTA KING 7830	88.8	53.6	0	39	*	1	87.1	
PAT	88.7	58.4	0	40	*	1	84.5	77.6
DIXIE 900	88.0	56.7	0	41	*	0	88.5	83.1
DELTA GROW 4100	87.6	54.8	0	38	*	0		
TERRAL TV8502	87.0	57.1	0	40	*	0	91.3	83.8
UGA 951216-2E26	86.6	56.5	0	37	4-17	0		
TERRAL TV8466	86.4	55.3	0	37	*	2	86.2	84.4
UGA 951079-2E31	86.1	57.9	0	37	4-15	1		
PIONEER 26R15	85.6	54.5	0	38	4-16	2	88.6	

Table 3. Continued.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Stripe rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in		%	----bu/A----	
PROGENY 145	85.6	55.3	0	39	4-19	1	85.4	79.7
PROGENY 133	84.5	56.2	0	41	*	0	83.1	
ARX 5109	84.5	57.8	0	39	*	0	85.1	
USG 3209	83.8	54.8	0	35	4-15	5	87.6	82.2
AGRIPRO/COKER COKER 9152	83.7	55.4	0	43	4-17	2	87.2	83.7
LA97113UC-124-B	83.4	57.4	0	38	4-17	0	84.6	
PIONEER XW03X	83.3	57.4	0	38	4-15	1		
DIXIE BELL DB1170	83.3	53.8	0	41	*	1	87.4	82.1
DELTA KING 7900	82.8	55.9	0	41	*	0	85.5	78.5
AGS 2050	82.7	57.3	0	38	*	3		
AGRIPRO/COKER APW742	82.6	58.6	0	38	4-15	0		
AGRIPRO/COKER SAVAGE	82.1	55.5	0	35	*	1	80.0	75.2
AGRIPRO/COKER COKER 9375	82.1	53.8	0	37	*	1	81.8	78.1
TERRAL LA841	80.8	56.9	0	37	4-15	0	85.8	80.3
DIXIE BELL DB2150	80.3	53.9	0	38	*	1	86.0	79.6
AGRIPRO/COKER B980582	80.2	58.9	0	40	4-17	5		
TERRAL TV8450	80.2	54.2	0	38	4-19	1	84.8	80.4
AGRIPRO/COKER B980696	79.2	58.3	0	36	*	0		
SOUTH. STATES SS560	79.1	52.2	0	36	4-17	15	82.4	79.2
ARMOR 3035	78.7	53.8	0	41	*	0	82.8	78.7
TERRAL TV8565	78.5	57.4	0	41	*	0	82.9	76.9
DIXIE 357	78.3	56.1	0	40	*	0	83.4	
DELTA KING 9410	78.2	54.3	0	40	*	10	86.0	80.4
DELTA GROW 4500	77.5	54.7	0	40	*	1	87.1	82.1
AGRIPRO/COKER COKER 9663	77.4	58.1	0	41	4-19	5	83.3	79.4
DIXIE 500	77.1	54.2	0	39	4-18	1	82.8	
DELTA KING XTJ322	76.3	57.9	0	43	*	0		
PROGENY 110	75.8	56.9	0	38	4-19	1	80.2	76.3
SABBE	75.6	54.7	0	39	*	2	79.7	76.8
DELTA GROW 4200	75.5	56.4	0	40	4-21	0	82.5	79.6
AGRIPRO/COKER BERETTA	75.4	54.8	0	35	*	0	84.2	78.3
PIONEER 26R12	74.9	55.6	0	37	*	4	84.2	79.4
USG 3592	74.2	56.6	0	38	*	27	81.5	75.8
PROGENY 156	73.5	57.5	0	37	*	1	75.0	74.9
ARX 5299	73.0	50.5	0	38	4-18	15		
LA952D3-1-3-C	72.8	55.0	0	38	4-15	0		
CHOPTANK	72.7	54.6	0	34	*	10	82.7	
DIXIE BELL DB2125	72.6	56.2	0	38	*	0	80.1	76.3
DIXIE 9812	72.5	55.1	0	39	*	1	82.5	78.6
DELTA KING 9216	72.3	53.8	0	38	*	11	82.4	78.1
LA95125BUB73-2-2-B	72.3	56.1	0	36	4-10	10		
DIXIE 922	71.7	55.3	0	41	*	1	81.9	77.5
PIONEER 26R58	70.6	51.8	0	36	4-16	5	82.5	77.1
ROANE	70.4	58.0	0	31	4-22	11	76.3	75.6
AGRIPRO/COKER PANOLA	69.9	55.7	0	37	4-17	0	79.0	
LA9560CA22-1	69.6	56.4	0	40	4-17	2	82.3	

Table 3. Continued.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Stripe rust	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in		%	----bu/A----	
DIXIE 9512	69.5	57.0	0	40	*	0	82.3	78.0
McCORMICK	69.4	55.0	0	33	4-17	2	77.6	73.9
LA95135D54-2-3-C	67.1	51.9	0	39	4-19	0		
ARMOR 2010	67.1	54.4	0	39	*	1	77.8	74.7
FFR 556	67.0	53.4	0	36	4-18	31	80.4	76.3
AGS 2000	66.8	52.1	0	38	4-16	17	81.0	78.8
EK EXP 125	66.3	54.2	0	36	4-16	21		
EXP SENNA	64.9	54.1	0	38	*	5		
CROPLAN GENET. 514W	64.6	54.3	0	38	4-15	85	78.1	75.5
ARX 5667	64.6	54.0	0	34	4-16	1		
HBK 3266	64.2	53.6	0	39	4-17	30	81.8	
MVS-46	61.0	56.8	0	33	4-18	45		
DELTA KING 9650	60.7	53.0	0	36	*	22	76.2	
USG EXP 910	60.6	49.9	0	35	*	34		
EXP SABRE	59.9	51.3	0	35	*	34		
DELTA KING XTJ323	59.7	48.5	0	35	*	43		
TERRAL TVX84W451	56.0	52.4	0	36	*	27		
VAN98W-342	55.1	52.2	0	33	4-17	32		
DELTA KING 1551	52.0	53.1	0	36	4-19	1	69.7	69.9
EK EXP 155	47.6	53.6	0	35	*	62		
AGRIPRO/COKER COOPER	47.2	48.5	0	35	*	20	76.8	
CROPLAN GENET. 554W	41.6	44.7	0	34	4-18	43	67.5	69.5
Grand mean	77.8	55.2	0	38	4-17	7	83.5	79.0
LSD (5%)	22.0	3.8	ns	3		16		
C.V. (%)	17.7	4.3		5		131		

Ldg = Lodging

Pt ht = Plant height

* Heading date was later than 4/22

**STANDARD INPUT WHEAT TEST
SOUTHEAST BRANCH STATION, ROHWER, AR**

SOIL SERIES....Sharkey/Desha silt loam
 PREVIOUS CROP...Soybeans
 PLANTING DATE....October 25, 2004
 FERTILIZER.... 50 lb N + 60 lb P₂O₅ + 30 lb K₂O + 10 lb S/A on Feb.17, 2005; 70 lb N/A on March 31, 2005
 HERBICIDE....2.7 pt/A Hoelon on Jan. 25, 2005; 0.5 oz/A Harmony Extra on Jan. 26, 2005
 INSECTICIDE....None
 HARVEST DATE....June 8, 2005
 PRECIPITATION

	<u>Oct</u>	<u>Nov</u>	<u>Dec</u>	<u>Jan</u>	<u>Feb</u>	<u>Mar</u>	<u>Apr</u>	<u>May</u>	<u>Total</u>
	----- Inches -----								
2004-2005	8.2	5.3	5.8	5.5	3.4	3.5	4.4	5.1	41.2
Normal	4.5	5.6	6.7	3.4	5.5	5.2	3.5	4.7	39.1
Departure	+3.7	-0.3	-0.9	+2.1	-2.1	-1.7	+0.9	+0.4	+2.1

Table 4. Performance of Wheat Cultivars in the Standard Input Test, Rohwer.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date
	bu/A	lb/bu	in		
HBK 3266	87.6	59.5	45	4-16	5-20
AGRIPRO/COKER APW749	83.7	60.5	45	4-15	5-19
DIXIE BELL DB2150	83.5	58.2	44	4-17	5-24
PROGENY 166	82.5	57.8	46	4-19	5-24
TERRAL TVX83W479	82.3	57.9	40	4-19	5-23
DELTA KING 7830	81.5	57.8	47	4-17	5-22
LA95135D54-2-3-C	81.3	58.2	47	4-13	5-22
ARMOR 2010	80.9	58.3	45	4-16	5-22
AGRIPRO/COKER APW742	80.7	60.0	43	4-17	5-18
FFR 8302	80.7	59.0	39	4-20	5-24
ARMOR 3035	80.6	58.4	48	4-18	5-21
ARX 5099	80.4	58.4	45	4-19	5-20
TERRAL LA841	79.9	58.2	39	4-13	5-16
DIXIE 357	79.9	58.1	44	4-19	5-24
AGRIPRO/COKER NATCHEZ	79.9	58.7	46	4-20	5-24
DIXIE 9812	78.3	58.8	45	4-15	5-19
DIXIE BELL DB1170	77.4	57.1	44	4-17	5-23
AGRIPRO/COKER PANOLA	77.2	57.9	40	4-19	5-20
LA95181BUB40-1	77.1	58.9	41	4-14	5-18
DIXIE 9512	77.0	58.6	47	4-16	5-21
DELTA KING 9410	76.9	57.5	43	4-18	5-23
DIXIE 922	76.2	57.1	43	4-20	5-23
ARMOR 3330	76.1	57.8	42	4-19	5-23
PIONEER 26R15	76.0	57.5	40	4-21	5-25
DELTA KING 7710	75.4	59.0	43	4-20	5-26
DELTA KING 1551	75.1	57.5	38	4-22	5-25
DELTA KING GR9108	74.7	58.3	42	4-14	5-20

Table 4. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date
	bu/A	lb/bu	in		
LA97113UC-124-B	74.7	60.7	42	4-17	5-21
USG 3350	74.4	57.7	44	4-18	5-22
PROGENY 185	74.4	57.8	41	4-19	5-24
TERRAL TV8450	74.4	57.9	47	4-18	5-23
PROGENY 110	74.0	57.8	45	4-15	5-21
LA9560CA22-1	73.7	59.8	41	4-14	5-20
DIXIE BELL DB2125	73.5	57.7	46	4-18	5-25
DELTA GROW 4100	73.4	58.8	45	4-19	5-23
TERRAL TV8466	73.2	57.7	37	4-20	5-25
TERRAL TV8502	72.9	57.1	43	4-20	5-25
UGA 951216-2E26	72.8	60.0	42	4-15	5-20
DIXIE 900	72.6	57.9	44	4-22	5-24
AGRIPRO/COKER SAVAGE	72.5	56.9	38	4-20	5-25
AGRIPRO/COKER BERETTA	72.4	57.2	39	4-22	5-27
ROANE	72.1	60.8	42	4-21	5-26
UGA 951079-2E31	71.9	61.2	41	4-14	5-19
TERRAL TV8565	71.9	57.9	41	4-20	5-25
AGRIPRO/COKER B980696	71.5	61.2	40	4-24	5-26
USG 3592	70.9	58.3	41	4-19	5-20
PROGENY 145	70.8	58.3	41	4-17	5-21
AGRIPRO/COKER COKER 9663	70.7	58.0	43	4-15	5-21
ARX 5667	70.7	57.6	38	4-21	5-24
PIONEER XW03X	70.4	56.4	40	4-21	5-27
PROGENY 133	70.3	58.0	41	4-18	5-20
ARX 5109	70.0	59.7	45	4-18	5-25
CROPLAN GENET. 8302	69.9	58.8	40	4-20	5-25
DELTA KING 9577	69.9	57.7	38	4-20	5-21
PROGENY 156	69.8	58.0	42	4-21	5-23
DELTA KING XTJ322	69.8	61.0	38	4-21	5-26
AGS 2000	69.6	59.8	42	4-12	5-15
DELTA GROW 4500	68.7	57.4	43	4-18	5-20
TERRAL TVX84W451	68.6	56.5	41	4-20	5-24
LA96140BUA70-2	67.7	59.3	40	4-13	5-16
VA00W-526	67.5	58.7	36	4-17	5-22
DELTA GROW 4200	67.3	57.7	39	4-20	5-25
DELTA KING 7900	67.2	57.6	43	4-19	5-23
USG 3209	67.0	59.6	34	4-15	5-20
LA952D3-1-3-C	66.9	58.8	40	4-13	5-17
EK EXP 155	66.8	56.6	39	4-21	5-22
DIXIE 500	66.5	57.3	43	4-20	5-25
SABBE	66.5	56.0	39	4-18	5-24
PIONEER 26R12	66.2	59.5	41	4-20	5-26
AGS 2050	66.1	58.8	39	4-18	5-22
PIONEER 26R58	66.0	57.2	35	4-19	5-20
DELTA KING 9216	65.8	55.1	42	4-20	5-23
ARX 5299	65.5	56.8	42	4-20	5-27

Table 4. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date
	bu/A	lb/bu	in		
EK EXP 125	63.8	57.5	43	4-21	5-24
DELTA KING 9650	63.6	56.8	38	4-22	5-26
MVS-46	63.1	58.7	37	4-15	5-21
DELTA KING XTJ321	62.3	55.9	40	4-15	5-19
EXP SABRE	61.2	57.0	43	4-21	5-25
AGRIPRO/COKER COKER 9375	61.1	55.1	42	4-20	5-23
DELTA KING XTJ323	61.0	57.1	41	4-21	5-24
USG EXP 910	60.3	56.9	42	4-20	5-25
CHOPTANK	60.1	58.6	34	4-17	5-23
FFR 556	60.1	56.5	37	4-20	5-24
AGRIPRO/COKER COKER 9152	59.9	55.6	43	4-18	5-20
AGRIPRO/COKER COOPER	59.2	57.3	36	4-20	5-24
CROPLAN GENET. 554W	58.7	57.0	35	4-21	5-23
PAT	57.9	59.6	39	4-25	5-27
AGRIPRO/COKER B980582	57.4	59.3	37	4-14	5-20
SOUTH. STATES SS560	56.7	57.0	33	4-20	5-22
McCORMICK	56.1	57.7	39	4-19	5-26
EXP SENNA	55.3	56.8	39	4-20	5-25
LA95125BUB73-2-2-B	55.3	60.5	41	4-04	5-13
LA95283CA78-1-2-B	51.6	60.7	42	4-06	5-13
CROPLAN GENET. 514W	42.8	55.3	38	4-18	5-20
VAN98W-342	33.8	55.2	32	4-19	5-18
Grand mean	70.0	58.1	41	4-18	5-22
LSD (5%)	12.7	1.6	3	1	1
C.V. (%)	13.1	2.0	5	2	1

Pt ht = Plant height

STANDARD INPUT WHEAT TEST
SOUTHWEST RESEARCH & EXTENSION CENTER, HOPE (Lewisville*), AR

SOIL SERIES....Bowie silt loam
 PREVIOUS CROP....Soybeans
 PLANTING DATE....November 17, 2004
 FERTILIZER....300 lb 17-17-17/A on Dec. 14, 2004; 41 lb N/A on Feb. 18, 2005; 29 lb N/A on March 14, 2005
 HERBICIDE....0.6 oz Harmony Extra + 2.7 pt/A Hoelon on Jan. 26, 2005
 INSECTICIDE....None
 HARVEST DATE....June 2, 2005
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2004-2005	6.8	8.1	2.3	5.3	2.9	2.9	3.3	1.7	33.3
Normal	3.3	4.4	4.6	3.8	3.8	4.6	5.6	5.4	35.5
Departure	+3.5	+3.7	-2.3	+1.5	-0.9	-1.8	-2.3	-3.7	-2.3

Table 5. Performance of Wheat Cultivars in the Standard Input Test, Lewisville.

Entry Name	Yield	Test wt	Ldg	Pt ht	Leaf rust	Stripe rust
	bu/A	lb/bu	%	in	%	%
UGA 951216-2E26	122.3	50.8	3	44	0	0
LA97113UC-124-B	99.0	48.6	3	43	0	2
LA95181BUB40-1	96.7	49.8	3	43	0	0
AGRIPRO/COKER APW749	94.9	51.0	3	42	0	0
LA95283CA78-1-2-B	94.3	46.8	0	39	0	0
UGA 951079-2E31	91.2	49.0	3	41	0	0
LA9560CA22-1	90.6	51.1	5	44	0	5
DELTA KING GR9108	90.2	42.2	10	45	0	1
TERRAL LA841	86.8	47.3	10	39	0	0
DELTA KING 9410	85.8	46.7	3	45	0	3
LA96140BUA70-2	85.8	47.3	5	39	0	0
AGRIPRO/COKER NATCHEZ	84.6	39.2	8	41	0	1
TERRAL TVX83W479	84.5	51.2	3	39	0	2
FFR 8302	83.4	47.3	0	42	0	1
DIXIE 900	82.4	48.9	5	44	0	2
ARX 5099	82.0	40.4	5	39	0	4
AGRIPRO APW742	80.6	51.2	0	39	0	0
LA95135D54-2-3-C	79.9	47.1	3	43	0	1
PIONEER XW03X	79.8	44.7	3	40	0	0
DELTA GROW 4100	79.4	51.9	3	44	1	0
ARX 5667	79.3	48.2	8	38	0	3
DELTA KING 7710	78.9	48.1	0	42	0	0
TERRAL TV8466	78.8	45.5	3	40	0	0
ARX 5109	78.7	47.3	0	43	0	0
TERRAL TV8502	77.9	47.5	0	43	0	1
DELTA KING 1551	76.1	47.0	8	41	0	6
PROGENY 133	75.3	45.0	3	42	0	1

Table 5. Continued.

Entry Name	Yield	Test wt	Ldg	Pt ht	Leaf rust	Stripe rust
	bu/A	lb/bu	%	in	%	%
PROGENY 110	74.3	45.6	3	42	0	2
DELTA KING 9577	74.3	51.0	5	37	0	1
PAT	73.6	48.8	3	43	0	2
ARMOR 3330	73.4	49.4	3	43	0	1
DIXIE 922	73.2	36.3	3	43	0	3
DIXIE BELL DB2150	72.5	48.0	0	44	0	2
DELTA GROW 4200	72.3	42.7	0	41	0	2
DELTA KING 7830	71.5	48.0	5	43	1	1
PROGENY 156	70.6	50.6	5	42	0	6
PIONEER 26R15	70.6	46.5	0	37	0	15
DELTA KING XTJ322	70.5	50.4	8	49	0	0
DIXIE BELL DB2125	70.1	47.6	3	42	0	0
AGRIPRO/COKER B980696	69.8	34.0	5	42	0	0
DIXIE 357	69.8	50.9	3	42	0	1
ARMOR 3035	69.6	41.3	3	42	1	2
USG 3209	69.3	46.9	5	33	0	12
LA95125BUB73-2-2-B	68.5	51.8	3	39	0	20
VA00W-526	68.3	42.7	3	35	0	20
DELTA KING 7900	68.1	47.2	0	42	0	1
PROGENY 185	67.5	48.1	5	38	0	70
LA952D3-1-3-C	67.2	45.0	18	38	1	0
USG 3350	66.8	47.0	3	41	0	1
TERRAL TV8565	65.6	42.9	3	42	1	3
DELTA GROW 4500	65.4	44.9	3	43	1	1
AGRIPRO/COKER PANOLA	65.4	47.8	0	40	0	0
TERRAL TV8450	64.0	43.0	8	42	0	24
AGRIPRO/COKER SAVAGE	64.0	45.8	3	39	0	12
PROGENY 166	64.0	44.6	0	42	0	1
AGRIPRO/COKER COKER 9375	63.4	45.0	8	41	0	11
EXP SENNA	62.5	45.2	0	38	0	38
DIXIE 9812	62.1	45.7	5	41	0	5
ROANE	61.2	48.5	5	36	0	25
ARX 5299	60.4	39.9	5	38	0	49
PIONEER 26R12	60.3	49.0	0	40	0	38
PROGENY 145	60.2	41.9	3	43	0	4
DIXIE BELL DB1170	59.9	48.0	3	44	1	7
CROPLAN GENET. 8302	59.1	51.3	3	37	0	29
AGS 2000	58.1	40.2	0	40	0	83
SABBE	57.7	44.7	0	40	0	4
MVS-46	56.6	46.3	0	37	0	25
AGRIPRO/COKER BERETTA	55.9	43.6	0	36	0	2
DIXIE 9512	55.6	37.9	3	42	0	1
AGRIPRO/COKER COKER 9152	53.2	46.8	5	42	0	83
DELTA KING 9216	52.6	41.4	10	39	0	78
DIXIE 500	52.6	50.2	3	40	0	31
DELTA KING XTJ321	52.3	47.0	5	40	0	7

Table 5. Continued.

Entry Name	Yield	Test wt	Ldg	Pt ht	Leaf rust	Stripe rust
	bu/A	lb/bu	%	in	%	%
AGRIPRO/COKER B980582	50.6	51.4	5	39	0	69
HBK 3266	49.5	43.9	0	35	0	84
EK EXP 155	49.2	49.8	0	36	0	63
PIONEER 26R58	47.7	46.3	0	37	0	57
USG 3592	47.2	48.0	10	40	0	83
ARMOR 2010	46.8	46.4	0	40	1	6
AGS 2050	46.2	45.4	8	38	0	83
USG EXP 910	42.6	40.3	3	40	0	83
DELTA KING 9650	42.3	44.7	0	35	0	88
AGRIPRO/COKER COKER 9663	40.0	45.5	23	40	0	93
FFR 556	39.8	43.4	15	35	0	90
EXP SABRE	39.3	50.7	3	40	0	83
TERRAL TVX84W451	39.1	39.7	5	35	0	88
EK EXP 125	38.0	49.0	0	38	0	85
CHOPTANK	36.6	50.6	3	32	0	88
AGRIPRO/COKER COOPER	35.9	41.9	3	36	0	90
SOUTH. STATES SS560	35.6	43.0	5	32	0	90
DELTA KING XTJ323	35.5	41.1	0	37	0	80
McCORMICK	35.4	42.3	13	33	0	57
VAN98W-342	34.5	44.4	10	33	0	65
CROPLAN GENET. 554W	32.8	44.5	8	33	0	90
CROPLAN GENET. 514W	29.5	31.2	25	33	0	98
Grand mean	65.4	45.9	4	40	0	25
LSD (5%)	15.9	8.8	8	3	1	19
C.V. (%)	17.5	13.9	133	5	399	48

Ldg = Lodging

Pt ht = Plant height

*Appreciation to Mr. Gary Cox for allowing this test to be conducted on his farm.

OAT TEST
COTTON BRANCH STATION, MARIANNA, AR

SOIL SERIES....Loring silt loam
 PREVIOUS CROP....Fallow
 PLANTING DATE....October 25, 2004
 FERTILIZER.... 90 lb N/A on Feb. 15, 2005; 60 lb N/A + 24 lb S/A on Feb. 28, 2005
 HERBICIDE....0.6 oz/A Harmony Extra
 INSECTICIDE....None
 HARVEST DATE....June 7, 2005
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2004-2005	4.0	10.0	3.9	6.1	2.8	4.6	4.9	1.0	37.3
Normal	3.0	4.4	4.8	4.4	4.1	5.4	5.5	5.2	36.8
Departure	+1.0	+5.6	-0.9	+1.7	-1.3	-0.8	-0.6	-4.2	+0.5

Table 6. Performance of Oat Cultivars, Marianna.

Entry Name	Yield	Test wt	2-Yr avg	3-Yr avg
	bu/A	lb/bu	-----bu/A-----	
LA99016SBSB-98-S	100.5	36.3		
ARO 289-9	94.1	35.0	111.9	109.3
LA95033D63-1-C-S3	93.4	35.4		
ARO 231-3	92.6	32.6	115.3	
ARO 336-1	90.5	34.5	119.4	
LA9825SBSB-59-C	89.8	33.7		
ARO 336-3	89.4	33.2	113.9	
ARO 336-12	87.4	35.0	113.0	
NC97-8885	87.3	35.0	105.0	
ARO 258-7	86.4	33.6	114.8	119.3
LA98002SBS-26-B-S1	84.2	31.7		
ARO 213-10	81.7	35.6	99.9	
ARO 213-12	81.4	34.5	107.7	106.8
SECRETARIAT LA495	81.3	35.3	115.9	114.4
LA9810SBS-58	80.9	36.2	91.3	
LA966BSB-270-S2-C	80.8	34.5		
LA976GBS22-B-S2	79.4	36.5	98.7	
HARRISON	78.1	33.1	99.7	100.2
ARNO-10*	77.1	33.7	82.8	
OZARK	74.9	33.2		
LA989SBSB-58-B	74.0	33.7		
BOB	72.8	35.7		
HORIZON 474	72.4	37.2	89.2	92.1
ARO 213-3	71.9	33.8	105.0	106.0
HORIZON 321	69.9	35.1	95.8	98.5
LA966BSB119-1	69.5	30.1		
ARNO-4*	64.7	35.9	64.5	

Table 6. Continued.

Entry Name	Yield	Test wt	2-Yr avg	3-Yr avg
	bu/A	lb/bu	-----bu/A-----	
ARNO-9*	63.1	34.0	68.3	
ARNO-6*	57.8	32.3	58.8	
ARNO-7*	52.6	35.5	61.0	
Grand mean	79.3	34.4	96.8	105.8
LSD (5%)	14.9	3.9	30.1	13.7
C.V. (%)	13.3	8.1	14.6	8.4

* Hull-less entry

OAT TEST
SOUTHWEST RESEARCH & EXTENSION CENTER, HOPE, AR

SOIL SERIES....Bowie silt loam
 PREVIOUS CROP....Soybeans
 PLANTING DATE....November 11, 2004
 FERTILIZER....300 lb 17-17-17/A on Jan. 25, 2005; 50 lb N/A + 24 lb S/A on March 16, 2005
 HERBICIDE....0.6 oz Harmony Extra on Dec 2, 2004
 INSECTICIDE....None
 HARVEST DATE....June 2, 2005
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2004-2005	6.8	8.1	2.3	5.3	2.9	2.9	3.3	1.7	33.3
Normal	3.3	4.4	4.6	3.8	3.8	4.6	5.6	5.4	35.5
Departure	+3.5	+3.7	-2.3	+1.5	-0.9	-1.8	-2.3	-3.7	-2.3

Table 7. Performance of Oat Cultivars, Hope.

Entry Name	Yield	Test wt	Ldg
	bu/A	lb/bu	%
LA966BSB-270-S2-C	63.9	26.6	0
ARO 289-9	58.9	24.5	0
LA989SBSB-58-B	57.9	23.2	0
LA95033D63-1-C-S3	57.2	26.6	0
ARNO-10*	53.8	28.5	0
SECRETARIAT LA495	53.4	23.6	0
LA966BSB119-1	52.6	23.6	0
OZARK	51.8	25.4	0
ARO 258-7	51.1	25.0	0
HORIZON 321	50.8	22.1	0
BOB	49.9	25.6	0
ARNO-7*	49.9	37.0	0
LA98002SBS-26-B-S1	49.4	24.3	0
HORIZON 474	49.2	27.2	0
ARO 336-3	49.1	24.8	0
ARO 231-3	47.7	24.9	0
ARO 213-10	45.4	22.9	0
ARO 336-1	45.3	19.8	0
ARNO-9*	43.2	27.5	0
ARNO-6*	42.7	31.1	0
LA9825SBSB-59-C	41.0	21.9	0
ARO 213-12	39.9	24.5	0
NC97-8885	39.6	27.9	0
LA99016SBSB-98-S	39.4	24.2	0
LA9810SBS-58	38.0	26.1	0
LA976GBS22-B-S2	37.8	26.8	0
ARNO-4*	35.7	25.7	0

Table 7. Continued.

Entry Name	Yield	Test wt	Ldg
	bu/A	lb/bu	%
HARRISON	33.5	22.3	0
ARO 336-12	32.8	23.6	0
ARO 213-3	25.9	22.4	0
	—	—	—
Grand mean	46.2	25.3	0
LSD (5%)	17.9	5.0	ns
C.V. (%)	23.5	11.9	

Ldg = Lodging
* Hull-less entry

PARTICIPANTS AND ENTRIES
2004 - 2005 ARKANSAS SMALL-GRAIN CULTIVAR PERFORMANCE TESTS

Companies

AGSouth Genetics
P.O. Box 72246
Albany, GA 31708-2246
229-881-7455

AGS 2000
AGS 2050

Arkansas County Seed Co., Inc.
P.O. Box 43
Stuttgart, AR 72160
870-673-2706

Harrison (oat)

B & S Seed Company, Inc.
1283 Hwy 444
Duncan, MS 38740
662-627-2521

Dixie Bell DB1170
Dixie Bell DB2125
Dixie Bell DB2150

Cache River Valley Seed
12470 Hwy 226
P.O. Box 10
Cash, AR 72421
870-477-5427

Dixie 900
Dixie 922
Dixie 9812
Dixie 9512

Dixie 500
Dixie 357

Land O'Lakes/Croplan Genetics
4990 No. Co. Rd. 583
Blytheville, AR 72315
870-623-5093

Croplan Genetics 514W
Croplan Genetics 554W
Croplan Genetics 8302

Cullum Seed, LLC
P.O. Box 178
Fisher, AR 72429
870-579-2286

Armor 3035
Armor 3330
Armor 2010
ARX 5109

ARX 5099
ARX 5299
ARX 5667

Delta Grow Seed
P.O. Box 219
England, AR 72046
501-842-2572

Delta Grow 4200
Delta Grow 4500
Delta Grow 4100

Delta King Seed Co.
P.O. Box 970
McCrory, AR 72101
870-731-2992

Delta King 1551
Delta King 7710
Delta King 7900
Delta King 9216

Delta King 9410
Delta King 7830
Delta King 9577
Delta King 9650

Delta King XTJ321
Delta King XTJ322
Delta King XTJ323
Delta King GR9108

FFR Seed
969 Cloverleaf Dr.
Southhaven, MS 38671
901-652-0903

FFR 556
FFR 8302

Hornbeck Seed Co., Inc. P.O. Box 472, 210 Drier Rd DeWitt, AR 72042-0472 870-946-2087	HBK 3266	
JGL, Inc. 3540 South US 231 Greencastle, IN 46135 765-653-5402	EXP Sabre EXP Senna	
Pioneer , A DuPont Co. 7501 S. Memorial PKWY, STE 205 Huntsville, AL 35802 256-650-4223	Pioneer 26R12 Pioneer 26R15 Pioneer 26R58	Pioneer XW03X
Plantation Seed Conditioners, Inc. PO Box 398 Newton, GA 39870-0398 229-881-2700	Horizon 321 (oat) Horizon 474 (oat)	
Progeny Ag Products 1529 Hwy 193 Wynne, AR 72396 888-535-7333	Progeny 110 Progeny 133 Progeny 145 Progeny 166	Progeny 185 EK Exp 125 EK Exp 155 EK Exp 156
Southern States Coop. P.O. Box 26234 Richmond, VA 23260 804-281-1203	Southern States SS 560 Southern States SS 76-40 (oat)	
Syngenta Seeds, Inc. P.O. Box 729 778 CR 680 Bay, AR 72411 870-483-7691	AgriPro/COKER Coker 9152 AgriPro/COKER Coker 9375 AgriPro/COKER Coker 9663 AgriPro/COKER B980582 AgriPro/COKER B980696 AgriPro/COKER Natchez	AgriPro/COKER Savage AgriPro/COKER Panola AgriPro/COKER Beretta AgriPro/COKER Cooper AgriPro/COKER APW 742 AgriPro/COKER APW 749
Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254 318-559-2840	Terral LA841 Terral TV8502 Terral TV8565 Terral TV8466	Terral TV8450 Terral TVX83W479 Terral TVX84W451 Terral Secretariat LA495 (oat)
UniSouth Genetics 2640-C Nolensville Rd. Nashville, TN 37211 800-505-3133	USG 3209 USG 3350 USG 3592	USG Exp. 910

Public Institutions

University of Arkansas
Department of CSES
Fayetteville, AR 72701
479-575-5725

Pat
Sabbe
AR 839
Bob (oat)
Ozark (oat)
ARO 213-3 (oat)

ARO 213-10 (oat)
ARO 213-12 (oat)
ARO 231-3 (oat)
ARO 258-7 (oat)
ARO 289-9 (oat)
ARO 336-1 (oat)

ARO 336-3 (oat)
ARNO 4 (oat)
ARNO 6 (oat)
ARNO 7 (oat)
ARNO 9 (oat)
ARNO 10 (oat)

University of Georgia
UGA-CAES, Griffin Campus
1109 Experiment St.
Griffin, GA 30223
770-228-7321

UGA 951079-2E31
UGA 951216-2E26

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LA97113UC-124-3-B
LA9560CA22-1
LA95283CA78-1-2-B
LA95125BUB73-2-2-B
LA 952D3-1-3-C
LA95135D54-2-3-C
LA96140BUBA70-2
LA95181BUB40-1
LA9810SBS-58 (oat)
LA989SBSB-58-B (oat)
LA966BSB119-1 (oat)
LA976GBS-22-B-52 (oat)

LA9825SBSB-59-C (oat)
LA966BSB270-52-C (oat)
LA95033D63-1-C-53 (oat)
LA98002SBS-26-B-S1 (oat)
LA99016SBSB-98-S (oat)

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27664 Nanticoke Road
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P.O. Box 7629
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919-513-0000

NC 97-8885 (oat)

Virginia PI & State University
EVAREC
2229 Menokin Road
Warsaw, VA 22572
840-333-3485

McCormick
Roane
VA00W-526
VAN98W-342

