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ARKANSAS AGRICULTURAL EXPERIMENT STATION

Division of Agriculture

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ARKANSAS SMALL-GRAIN CULTIVAR PERFORMANCE TESTS¹ 2006-2007

J.T. Kelly², M.J. Emerson³, R.K. Bacon², and E.A. Milus⁴

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 Lon Mann Cotton Research 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. This year the test was also conducted in Jackson County near Newport. Wheat tests were planted at all locations; oat tests were planted at Marianna and Stuttgart.

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 80 entries and each oat test contained 18 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 plant-

ed 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. Bird feeding affected the yield on a number of plots at Hope and Keiser. Those plots with significant visual damage were discarded and not used in the yield calculation.

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.

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.

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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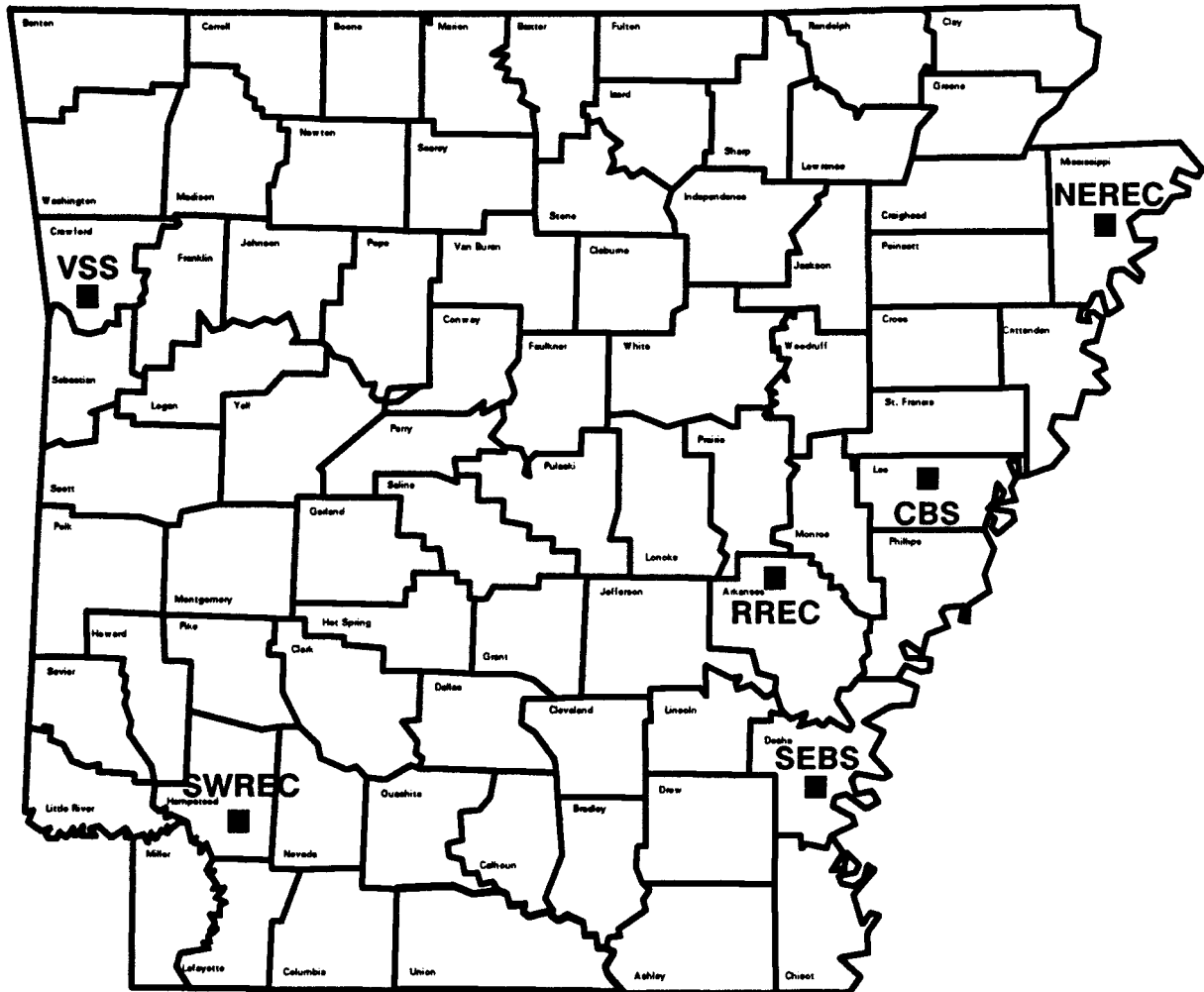
WEATHER SUMMARY

Prior to the planting season there was low soil moisture. Rainfall was generally below or near normal at all locations throughout the growing season. Several locations did record above normal rainfalls for various months, but most locations recorded a deficit for the growing season. Above average temperature in late winter allowed for early spring growth at all locations. The warm weather during the spring caused the crop to head and flower approximately two weeks earlier than normal and was impacted greatly by an early April freeze. Monthly rainfall totals from October through May and the departure from normal (30-year average) are given for each test except Newport.

RESULTS

The freeze in early April affected the grain yield of all the cultivars tested. The yields of those cultivars that may have been at a more sensitive growth stage during the freeze were impacted more severely. Following the freeze, the crop at all locations matured prematurely. The results of the 2007 tests may not be representative of the performance potential of a particular cultivar, but the information is indicative of the consequence of a late freeze. The data are reported for all locations, but due to the variability within the test at the two southern locations (Hope and Rohwer), no two or three year averages were reported. The yield data were averaged into the two and three averages for Hope and Rohwer only. For the other locations the 2005-06 yield data is presented. Disease reaction ratings based on average for stripe rust are reported in Table 10 and were compiled by Dr. Gene Milus, Department of Plant Pathology. Yields of wheat cultivars at all locations are summarized in Table 1. Grain yields and other agronomic measurements are given in Tables 2-9 along with cultural practice and site information including precipitation summaries. The results from the oat tests are presented in Tables 11-12.

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

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Map of Testing Sites	(inside back cover)

Table 1. Summary of wheat yields in the Standard and High Input Tests at seven locations.

	Hope	Keiser	Kibler	Marianna	Newport	Rohwer	Stuttgart	Stuttgart
	Standard Input						High Input	
	-----bu/A-----							
AG ALUMNI 5057	58.0	35.9	33.1	67.9	44.5	88.1	72.3	89.8
AG ALUMNI 5058	83.3	42.2	31.5	61.3	43.5	107.2	94.3	84.0
AGRIPRO/COKER BERETTA	64.4	36.5	38.1	42.5	43.1	97.0	74.8	75.6
AGRIPRO/COKER COKER9553	73.1	37.0	24.8	4.8	37.2	51.0	28.1	19.8
AGRIPRO/COKER D02-8486	37.5	13.9	19.9	28.0	20.6	14.7	56.4	52.3
AGRIPRO/COKER MAGNOLIA	74.7	41.6	32.4	10.0	45.9	45.8	43.1	41.8
AGRIPRO/COKER PANOLA	71.3	38.8	20.3	28.5	38.7	82.0	42.3	51.5
AGS 2000	81.4	34.5	16.1	20.2	33.7	41.8	44.7	43.4
AGS 2010	57.4	9.7	15.4	4.6	17.7	31.6	20.5	20.7
AGS 2050	72.1	40.1	20.2	24.8	35.6	92.4	50.5	51.2
AGS 2060	91.1	31.2	30.3	11.5	36.6	60.9	48.0	39.8
AR 850-1-1	68.5	54.3	44.6	73.1	47.8	85.1	70.1	77.7
AR96077-10-1	75.6	32.0	16.5	13.8	37.3	65.3	28.1	22.9
AR96077-7-2	80.1	39.4	28.3	27.5	41.3	73.4	20.1	19.5
ARMOR 260Z	72.9	41.0	29.3	42.4	50.1	105.7	66.6	58.9
ARMOR 5110	56.1	40.5	34.5	56.9	39.8	94.3	84.8	66.6
ARTX5406	75.2	29.5	12.8	22.7	32.7	68.9	55.1	22.0
ARX 3603	62.5	36.3	15.0	48.5	34.8	95.5	68.0	68.3
ARX 6202	79.8	40.8	33.0	83.7	49.4	98.5	100.1	98.9
ARX 8804	66.8	33.9	35.6	69.3	37.5	89.1	92.4	89.6
ARX 9901	66.2	48.9	29.4	19.2	27.0	85.0	68.0	66.5
CHESAPEAKE	82.7	28.2	15.2	35.3	40.7	86.6	46.5	59.8
CROPLAN GENET. 554W	65.9	37.3	13.6	36.6	35.8	76.4	58.1	38.5
CROPLAN GENET. 8302	75.3	41.2	32.1	40.4	46.5	91.8	36.3	45.6
DELTA GROW 1600	77.5	34.8	28.7	78.4	38.3	108.1	91.7	87.3
DELTA GROW 4100	49.2	34.1	35.2	48.1	43.2	92.9	86.5	59.2
DELTA GROW 4500	48.6	30.0	29.3	41.8	37.7	93.5	73.3	70.9
DELTA GROW 5200	46.8	42.2	31.5	57.8	46.7	100.6	65.6	79.5
DELTA KING 7710	76.4	34.1	38.2	46.0	49.8	104.0	86.7	68.5
DELTA KING 7830	46.8	37.4	34.8	49.5	36.9	86.0	78.9	74.4
DELTA KING 9410	48.2	38.4	35.0	59.0	36.2	94.0	85.2	68.4
DELTA KING 9577	76.5	52.9	28.1	39.6	48.8	98.9	67.6	60.8
DELTA KING GR9108	68.4	35.8	35.5	3.1	53.4	59.8	70.3	68.7
DELTA KING XTJ724	77.0	35.8	32.0	65.2	46.7	96.8	90.6	92.1
DELTA KING XTJ730	72.1	44.7	27.7	88.9	40.5	108.3	86.6	93.3
DELTA KING XTJ732	63.1	63.4	32.6	70.5	41.7	105.0	94.0	61.5
DELTA KING XTJ734	74.2	33.0	32.6	49.8	47.7	103.0	65.4	57.2
DIXIE X427	62.5	34.2	23.8	42.9	33.5	105.4	74.8	72.3
DIXIE 900	56.5	36.1	28.7	52.5	41.5	99.1	71.2	78.8
DIXIE 989	76.2	40.3	30.1	78.8	35.5	103.3	83.2	85.0

Table 1. Continued.

	Hope	Keiser	Kibler	Marianna	Newport	Rohwer	Stuttgart	Stuttgart
	Standard Input						High Input	
	-----bu/A-----							
DIXIE BELL DB3440	53.7	37.9	35.3	54.1	44.5	87.8	58.6	80.8
DIXIE BELL DB7440	50.4	31.3	29.6	25.9	46.4	87.2	69.3	75.7
FFR 556	60.0	38.8	14.4	36.5	43.5	80.3	54.6	56.3
FFR 8302	74.1	50.9	34.6	39.5	50.0	86.3	48.8	54.5
GA951231-4E25	79.6	14.0	18.8	2.4	35.1	41.7	39.1	43.9
GA951231-4E26	75.9	20.1	20.0	3.1	41.1	45.7	49.3	40.8
GA96693-4E16	62.9	22.8	24.2	24.0	35.8	31.1	66.9	35.6
HBK 3266	82.4	34.5	20.0	15.2	33.5	77.2	51.0	45.8
JAMESTOWN	75.9	23.8	17.4	2.7	24.4	47.4	33.1	21.8
JGL EXP 701	75.2	39.0	33.6	81.3	41.3	90.5	85.7	73.1
JGL EXP 703	72.2	58.4	28.9	69.3	41.8	101.5	72.8	61.5
LA95135	85.4	30.2	24.7	13.4	49.1	60.2	51.6	36.0
LA978UC-101-1-1-1-C	58.5	26.3	18.4	8.6	31.8	55.9	52.5	26.9
LA978UC-36-1-1-B	70.3	33.8	22.5	4.3	31.9	60.2	45.5	43.6
LA98133D-160-3-C	56.7	19.8	16.6	6.2	28.4	35.2	41.6	38.4
LA98202D-64-1-C	70.4	24.6	23.4	5.6	41.2	48.3	37.4	26.5
LA99005UC-31-3-C	57.1	19.2	15.9	6.7	21.4	29.1	38.1	41.5
PAT	64.2	59.6	48.0	63.6	53.2	83.4	76.9	78.3
PIONEER 26R15	60.1	63.8	39.0	52.7	43.3	89.9	49.6	62.0
PIONEER 26R22	74.0	53.5	27.5	46.7	45.8	103.6	50.0	43.4
PIONEER 26R87	100.5	27.8	19.5	6.4	40.0	61.6	56.6	50.2
PROGENY 133	44.7	35.9	28.0	50.0	36.4	87.9	76.3	71.5
PROGENY 145	45.4	27.5	27.2	33.7	38.5	84.7	74.3	65.6
PROGENY 166	54.4	36.8	27.0	62.4	39.1	90.2	75.2	75.1
PROGENY 185	77.1	46.6	19.6	30.3	42.2	98.2	68.4	47.3
ROANE	65.7	40.5	33.2	66.1	34.9	98.8	78.4	79.6
SABBE	61.5	22.1	23.5	55.4	34.9	86.3	71.1	90.3
TERRAL LA482	61.4	23.3	14.1	11.0	34.2	40.8	48.9	51.2
TERRAL LA841	61.6	14.3	8.9	3.2	15.8	42.4	60.8	38.7
TERRAL TV8331	60.9	46.6	25.2	37.3	37.4	84.4	36.9	27.0
TERRAL TV8466	65.2	33.8	30.5	33.9	31.2	92.1	58.8	66.2
TERRAL TV8558	69.6	39.9	23.9	57.3	39.1	96.9	68.2	49.7
TERRAL TVX81170	63.5	19.1	26.4	41.3	42.3	103.3	60.3	66.7
USG 3209	77.1	32.2	9.9	7.3	36.9	66.9	22.7	27.1
USG 3295	81.0	48.2	27.2	18.8	39.5	81.8	52.4	37.2
USG 3342	75.6	36.7	13.8	13.6	32.0	78.8	14.7	7.5
USG 3350	57.0	34.8	36.0	45.3	49.1	92.3	73.4	65.4
USG 3665	78.2	34.4	19.9	54.7	39.3	98.2	81.6	79.4
USG 3X633	71.8	34.7	21.5	38.4	44.9	83.1	41.8	37.8
VA02W-555	87.1	40.4	25.7	9.1	44.4	79.4	42.9	25.1
Grand mean	67.9	35.9	26.2	37.3	39.1	79.7	61.0	56.6
LSD (5%)	12.3	12.2	7.8	15.5	9.0	12.4	24.3	24.4
C.V. (%)	13.1	24.6	21.5	30.0	16.7	11.2	28.8	31.1

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

SOIL SERIES....Bowie silt loam
 PREVIOUS CROP...Fallow
 PLANTING DATE....October 31, 2006
 FERTILIZER.....120 lb 34-0-0/A on Jan. 29, 2007; 100 lb 21-0-0 +24% S/A on Feb. 26, 2007; 150 lb 34-0-0/A on March 16, 2007.
 HERBICIDE.... 4.75oz/A Ospray on Dec.12, 2006.
 INSECTICIDE....None
 HARVEST DATE....June 6, 2007
 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 -----								
2006-2007	0.01	1.6	3.6	10.9	3.2	2.7	3.7	5.3	31.0
Normal	2.4	4.1	4.7	3.4	3.0	4.8	5.1	5.3	32.8
Departure	-1.3	-2.5	-1.1	+7.5	+0.2	-2.1	-1.4	0	-1.8

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

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			bu/A	bu/A
PIONEER 26R87	100.5	53.3	0	36	4-02	5-10	97.7	
AGS 2060	91.1	56.4	0	41	4-01	5-14	84.8	86.7
VA02W-555	87.1	51.1	0	35	4-04	5-11		
LA95135	85.4	51.3	0	40	4-04	5-11	77.0	78.0
AG ALUMNI 5058	83.3	50.4	0	38	4-09	5-20		
CHESAPEAKE	82.7	50.6	0	38	4-07	5-16	84.5	75.2
HBK 3266	82.4	53.7	0	39	4-02	5-10	75.5	66.9
AGS 2000	81.4	51.1	0	37	3-31	5-11	85.3	76.2
USG 3295	81.0	49.4	0	36	4-09	5-13	88.7	
AR96077-7-2	80.1	47.1	0	34	4-09	5-11		
ARX 6202	79.8	52.6	0	38	4-14	5-16		
GA951231-4E25	79.6	53.2	0	34	3-31	5-13		
USG 3665	78.2	48.6	2	40	4-06	5-18	75.2	
DELTA GROW 1600	77.5	49.9	0	41	4-13	5-18	83.3	
USG 3209	77.1	48.1	0	34	4-02	5-10	81.0	77.1
PROGENY 185	77.1	47.2	0	39	4-09	5-16	78.2	74.6
DELTA KING XTJ724	77.0	52.8	6	40	4-14	5-21		
DELTA KING 9577	76.5	50.7	0	41	4-07	5-13	78.4	77.0
DELTA KING 7710	76.4	54.4	0	43	4-16	5-16	70.7	73.4
DIXIE 989	76.2	50.8	0	40	4-13	5-15	75.3	
GA951231-4E26	75.9	49.3	0	35	3-29	5-15		
JAMESTOWN	75.9	54.6	0	33	3-28	5-10		
AR96077-10-1	75.6	42.7	0	36	4-11	5-11	74.2	

Table 2. Continued.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			bu/A	bu/A
USG 3342	75.6	51.0	0	34	4-09	5-13		
CROPLAN GENET. 8302	75.3	50.0	0	38	4-11	5-13	76.5	70.7
JGL EXP 701	75.2	49.7	0	41	4-11	5-14		
ARTX5406	75.2	52.7	0	35	4-13	5-10		
AGRIPRO/COKER MAGNOLIA	74.7	50.3	0	38	4-02	5-10	81.7	
DELTA KING XTJ734	74.2	47.7	1	42	4-07	5-16		
FFR 8302	74.1	49.6	0	40	4-08	5-15	81.7	82.3
PIONEER 26R22	74.0	50.8	0	38	4-11	5-14	82.9	81.9
AGRIPRO/COKER COKER9553	73.1	54.2	0	36	4-01	5-11	72.9	75.5
ARMOR 260Z	72.9	50.1	0	40	4-09	5-13	76.9	
JGL EXP 703	72.2	46.6	0	41	4-09	5-18		
AGS 2050	72.1	50.3	0	38	4-06	5-16	74.9	65.3
DELTA KING XTJ730	72.1	47.2	1	38	4-11	5-15		
USG 3X633	71.8	50.7	0	38	4-09	5-16		
AGRIPRO/COKER PANOLA	71.3	49.5	1	39	4-06	5-16	72.7	70.3
LA98202D-64-1-C	70.4	53.3	1	38	3-31	5-11		
LA978UC-36-1-1-B	70.3	50.2	0	36	3-31	5-08		
TERRAL TV8558	69.6	50.4	1	37	4-09	5-14	72.2	76.3
AR 850-1-1	68.5	52.8	0	42	4-16	5-20	71.9	
DELTA KING GR9108	68.4	48.0	3	40	3-29	5-15	61.6	71.1
ARX 8804	66.8	47.6	0	36	4-16	5-15		
ARX 9901	66.2	51.9	0	35	4-09	5-11		
CROPLAN GENET. 554W	65.9	47.6	0	37	4-09	5-16	62.9	52.8
ROANE	65.7	53.5	1	36	4-16	5-18	74.7	70.2
TERRAL TV8466	65.2	44.9	0	39	4-09	5-16	74.0	75.6
AGRIPRO/COKER BERETTA	64.4	46.3	0	37	4-09	5-14	64.7	61.8
PAT	64.2	50.6	0	43	4-16	5-20	64.7	67.7
TERRAL TVX81170	63.5	48.4	1	41	4-09	5-14		
DELTA KING XTJ732	63.1	46.5	1	38	4-14	5-18		
GA96693-4E16	62.9	49.3	1	36	3-28	5-11		
DIXIE X427	62.5	46.0	2	38	4-09	5-13		
ARX 3603	62.5	47.4	0	36	4-16	5-16		
TERRAL LA841	61.6	49.0	0	38	3-29	5-08	63.7	71.4
SABBE	61.5	46.7	0	42	4-16	5-16	59.7	59.0
TERRAL LA482	61.4	45.8	3	40	3-28	5-11		
TERRAL TV8331	60.9	47.3	0	41	4-09	5-10	74.6	
PIONEER 26R15	60.1	47.8	0	36	4-13	5-10	76.2	74.3
FFR 556	60.0	46.3	1	37	4-05	5-13		
LA978UC-101-1-1-1-C	58.5	50.5	28	38	3-29	5-09		
AG ALUMNI 5057	58.0	42.1	0	37	4-11	5-18		
AGS 2010	57.4	52.9	8	40	3-31	5-15	56.6	68.1
LA99005UC-31-3-C	57.1	51.5	1	36	3-28	5-10		
USG 3350	57.0	48.0	0	45	4-04	5-18	60.5	62.6
LA98133D-160-3-C	56.7	50.7	0	36	3-28	5-11		

Table 2. Continued.

Entry Name	Yield	Test wt	Ldg	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	%	in			bu/A	bu/A
DIXIE 900	56.5	45.5	0	42	4-09	5-16	60.5	67.8
ARMOR 5110	56.1	44.6	0	42	4-11	5-19	59.1	
PROGENY 166	54.4	42.8	0	42	4-09	5-18	58.6	60.4
DIXIE BELL DB3440	53.7	46.3	3	41	4-13	5-13	61.5	
DIXIE BELL DB7440	50.4	43.6	0	42	4-09	5-13		
DELTA GROW 4100	49.2	42.6	0	41	4-13	5-16	56.3	64.0
DELTA GROW 4500	48.6	43.4	0	42	4-13	5-18	54.7	58.3
DELTA KING 9410	48.2	44.8	0	45	4-09	5-17	50.0	61.9
DELTA GROW 5200	46.8	41.6	0	44	4-11	5-16	55.6	
DELTA KING 7830	46.8	43.9	0	42	4-09	5-18	49.0	56.5
PROGENY 145	45.4	43.4	0	41	4-07	5-14	55.5	57.1
PROGENY 133	44.7	45.8	0	43	4-09	5-16	51.3	59.3
AGRIPRO/COKER D02-8486	<u>37.5</u>	<u>55.4</u>	<u>0</u>	<u>34</u>	<u>3-28</u>	<u>5-08</u>	—	—
Grand mean	67.9	49.0	1	39	4-07	5-14	70.4	69.4
LSD (5%)	12.3	3.6	6	2	4	4	15.0	19.1
C.V. (%)	13.1	5.3	555	5	8	4	16.4	17.3

Pt. Ht = Plant height; Ldg = Lodging.

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

SOIL SERIES....Sharkey silty clay
 PREVIOUS CROP...Fallow
 PLANTING DATE....October 10, 2006
 FERTILIZER....60lb N/A on Feb. 22, 2007; 70 lb N/A on March 22, 2007
 HERBICIDE....0.6 oz/A Harmony Extra on March 7, 2007
 INSECTICIDE....None
 HARVEST DATE....June 5, 2007
 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 -----								
2006-2007	3.4	3.6	6.3	7.1	2.0	0.6	4.2	1.7	28.9
Normal	2.4	4.1	4.7	3.4	3.0	4.8	5.1	5.3	32.8
Departure	1.0	-0.5	1.6	3.7	-1.0	-4.2	-0.9	-3.6	-3.9

Table 3. Performance of Wheat Cultivars in the Standard Input Test, Keiser.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
PIONEER 26R15	63.8	59.2	33	4-20	5-19	87.3
DELTA KING XTJ732	63.4	60.8	36	4-19	5-23	
PAT	59.6	60.8	36	4-21	5-23	74.1
JGL EXP 703	58.4	57.0	35	4-15	5-09	
AR 850-1-1	54.3	60.8	36	4-21	5-23	72.9
PIONEER 26R22	53.5	58.8	33	4-18	5-18	87.0
DELTA KING 9577	52.9	57.9	34	4-18	5-18	82.5
FFR 8302	50.9	59.9	34	4-19	5-17	79.3
ARX 9901	48.9	59.8	30	4-14	5-15	
USG 3295	48.2	58.2	30	4-13	5-16	74.7
PROGENY 185	46.6	57.4	31	4-16	5-15	
TERRAL TV8331	46.6	58.5	34	4-18	5-20	
DELTA KING XTJ730	44.7	57.2	35	4-18	5-18	
DELTA GROW 5200	42.2	59.2	36	4-18	5-18	76.9
AG ALUMNI 5058	42.2	58.8	33	4-19	5-18	
AGRIPRO/COKER MAGNOLIA	41.6	60.1	34	4-08	5-14	79.4
CROPLAN GENET. 8302	41.2	58.8	34	4-19	5-18	80.4
ARMOR 260Z	41.0	59.1	34	4-17	5-17	79.2
ARX 6202	40.8	56.9	32	4-21	5-21	
ROANE	40.5	60.5	31	4-19	5-17	81.7
ARMOR 5110	40.5	59.4	37	4-18	5-16	76.0
VA02W-555	40.4	56.5	28	4-06	5-15	
DIXIE 989	40.3	57.0	34	4-19	5-17	85.3
AGS 2050	40.1	58.0	30	4-11	5-16	80.7
TERRAL TV8558	39.9	52.8	33	4-17	5-16	82.7
AR96077-7-2	39.4	58.5	30	4-12	5-17	
JGL EXP 701	39.0	55.2	32	4-19	5-17	

Table 3. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
AGRIPRO/COKER PANOLA	38.8	59.1	30	4-08	5-16	81.1
FFR 556	38.8	56.8	32	4-12	5-16	
DELTA KING 9410	38.4	58.0	38	4-18	5-19	73.1
DIXIE BELL DB3440	37.9	57.7	34	4-19	5-18	74.6
DELTA KING 7830	37.4	58.7	36	4-17	5-16	72.4
CROPLAN GENET. 554W	37.3	58.7	31	4-16	5-16	82.8
AGRIPRO/COKER COKER9553	37.0	60.7	31	4-05	5-14	79.4
PROGENY 166	36.8	48.9	36	4-18	5-17	83.9
USG 3342	36.7	58.8	29	4-16	5-15	
AGRIPRO/COKER BERETTA	36.5	56.6	34	4-18	5-17	86.1
ARX 3603	36.3	55.5	31	4-21	5-21	
DIXIE 900	36.1	58.5	36	4-18	5-17	71.8
AG ALUMNI 5057	35.9	55.4	31	4-21	5-19	
PROGENY 133	35.9	58.7	36	4-18	5-17	71.3
DELTA KING GR9108	35.8	55.5	34	4-08	5-16	73.9
DELTA KING XTJ724	35.8	58.1	35	4-20	5-20	
USG 3350	34.8	58.0	38	4-16	5-17	72.0
DELTA GROW 1600	34.8	58.4	32	4-18	5-16	81.9
USG 3X633	34.7	56.5	34	4-18	5-15	
HBK 3266	34.5	57.3	33	4-08	5-16	77.2
AGS 2000	34.5	58.8	33	4-05	5-13	86.7
USG 3665	34.4	56.0	34	4-18	5-17	84.4
DIXIE X427	34.2	57.5	31	4-15	5-15	
DELTA GROW 4100	34.1	59.5	36	4-18	5-17	78.3
DELTA KING 7710	34.1	58.6	34	4-20	5-19	
ARX 8804	33.9	52.5	33	4-21	5-21	
TERRAL TV8466	33.8	57.5	33	4-18	5-16	77.2
LA978UC-36-1-1-B	33.8	57.0	30	4-07	5-14	
DELTA KING XTJ734	33.0	55.8	35	4-13	5-16	
USG 3209	32.2	59.2	32	4-05	5-15	82.9
AR96077-10-1	32.0	54.6	33	4-08	5-16	75.4
DIXIE BELL DB7440	31.3	58.2	35	4-12	5-16	
AGS 2060	31.2	59.4	31	4-04	5-13	74.2
LA95135	30.2	57.7	33	4-09	5-16	71.4
DELTA GROW 4500	30.0	58.8	37	4-17	5-16	70.7
ARTX5406	29.5	59.0	30	4-13	5-18	
CHESAPEAKE	28.2	58.1	30	4-15	5-16	86.1
PIONEER 26R87	27.8	60.4	30	4-05	5-12	79.4
PROGENY 145	27.5	56.9	34	4-16	5-16	72.2
LA978UC-101-1-1-1-C	26.3	57.6	29	4-05	5-13	
LA98202D-64-1-C	24.6	60.6	32	4-04	5-13	
JAMESTOWN	23.8	60.9	30	4-01	5-13	
TERRAL LA482	23.3	56.1	31	4-07	5-15	
GA96693-4E16	22.8	58.4	33	3-25	5-05	
SABBE	22.1	55.5	32	4-20	5-20	74.6
GA951231-4E26	20.1	57.2	28	4-06	5-13	

Table 3. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
LA98133D-160-3-C	19.8	60.3	31	4-03	5-12	
LA99005UC-31-3-C	19.2	56.2	30	4-01	5-12	
TERRAL TVX81170	19.1	55.4	34	4-16	5-15	
TERRAL LA841	14.3	56.5	30	4-04	5-11	72.5
GA951231-4E25	14.0	56.6	29	4-05	5-13	
AGRIPRO/COKER D02-8486	13.9	53.2	31	4-05	5-12	
AGS 2010	<u>9.7</u>	<u>52.4</u>	<u>32</u>	<u>4-02</u>	<u>5-11</u>	<u>74.6</u>
Grand mean	35.9	57.7	33	4-13	5-16	76.4
LSD (5%)	12.2	3.8	4	4	4	5.6
C.V. (%)	24.6	4.7	8	7	4	5.3

Pt. ht. = Plant height. Due to the high variability within the test no two or three year averages were reported.

**STANDARD INPUT WHEAT TEST
VEGETABLE SUBSTATION, KIBLER, AR**

SOIL SERIES....Roxanna silt loam
 PREVIOUS CROP...Fallow
 PLANTING DATE....November 11, 2006
 FERTILIZER....90 lb N/A + 24 lb S/A on Feb. 26, 2007
 HERBICIDE....0.6 oz /A Harmony Extra + 4.75 oz/A Osprey on Feb. 28, 2007
 INSECTICIDE....None
 HARVEST DATE....June 11, 2007
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2006-2007	0.2	8.6	3.3	5.9	2.7	0.2	3.7	3.9	28.5
Normal	3.3	3.2	2.8	2.4	2.7	3.9	4.2	4.6	27.1
Departure	-3.1	5.4	0.5	3.5	0	-3.4	-0.5	-0.7	1.4

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

Entry Name	Yield	Test wt	Pt ht	Head date	2005-06 Yield
	bu/A	lb/bu	in		bu/A
PAT	48.0	52.3	28	4-20	90.4
AR 850-1-1	44.6	51.9	30	4-20	73.2
PIONEER 26R15	39.0	48.5	28	4-18	65.7
DELTA KING 7710	38.2	47.7	25	4-12	59.6
AGRIPRO/COKER BERETTA	38.1	48.2	26	4-24	34.0
USG 3350	36.0	47.9	29	4-19	57.8
ARX 8804	35.6	48.0	29	4-19	
DELTA KING GR9108	35.5	48.0	29	4-16	53.5
DIXIE BELL DB3440	35.3	47.3	28	4-18	49.3
DELTA GROW 4100	35.2	47.8	28	4-21	58.6
DELTA KING 9410	35.0	48.9	31	4-20	54.2
DELTA KING 7830	34.8	47.9	29	4-18	51.6
FFR 8302	34.6	48.4	25	4-18	78.2
ARMOR 5110	34.5	49.0	26	4-19	54.3
JGL EXP 701	33.6	47.6	28	4-19	
ROANE	33.2	49.9	26	4-20	64.3
AG ALUMNI 5057	33.1	46.6	27	4-18	
ARX 6202	33.0	48.1	30	4-20	
DELTA KING XTJ732	32.6	48.0	29	4-18	
DELTA KING XTJ734	32.6	47.9	28	4-22	
AGRIPRO/COKER MAGNOLIA	32.4	49.4	26	4-17	67.6
CROPLAN GENET. 8302	32.1	47.6	25	4-18	72.7
DELTA KING XTJ724	32.0	47.3	28	4-21	
DELTA GROW 5200	31.5	48.8	26	4-15	52.4
AG ALUMNI 5058	31.5	49.5	27	4-16	
TERRAL TV8466	30.5	47.0	28	4-21	57.3
AGS 2060	30.3	47.9	25	4-17	72.8
DIXIE 989	30.1	47.3	28	4-17	63.3
DIXIE BELL DB7440	29.6	47.9	28	4-17	
ARX 9901	29.4	51.3	26	4-18	

Table 4. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	2005-06 Yield
	bu/A	lb/bu	in		bu/A
DELTA GROW 4500	29.3	47.9	27	4-18	44.2
ARMOR 260Z	29.3	46.8	27	4-20	60.7
JGL EXP 703	28.9	46.7	26	4-19	
DIXIE 900	28.7	50.1	27	4-16	44.5
DELTA GROW 1600	28.7	46.2	27	4-20	57.0
AR96077-7-2	28.3	47.1	25	4-17	
DELTA KING 9577	28.1	47.9	29	4-21	63.4
PROGENY 133	28.0	46.8	30	4-20	44.9
DELTA KING XTJ730	27.7	47.7	26	4-19	
PIONEER 26R22	27.5	49.4	27	4-19	72.4
USG 3295	27.2	48.5	25	4-19	83.2
PROGENY 145	27.2	46.1	27	4-20	50.9
PROGENY 166	27.0	48.5	27	4-21	54.7
TERRAL TVX81170	26.4	47.4	26	4-22	
VA02W-555	25.7	47.4	24	4-15	
TERRAL TV8331	25.2	44.8	28	4-24	74.8
AGRIPRO/COKER COKER9553	24.8	48.5	26	4-20	74.0
LA95135	24.7	47.3	30	4-23	70.3
GA96693-4E16	24.2	49.4	23	4-11	
TERRAL TV8558	23.9	48.5	24	4-12	73.6
DIXIE X427	23.8	47.6	26	4-16	
SABBE	23.5	47.4	26	4-17	61.9
LA98202D-64-1-C	23.4	48.5	30	4-22	
LA978UC-36-1-1-B	22.5	46.7	25	4-16	
USG 3X633	21.5	47.9	29	4-18	
AGRIPRO/COKER PANOLA	20.3	47.9	26	4-16	71.5
AGS 2050	20.2	47.9	25	4-15	50.9
GA951231-4E26	20.0	47.3	30	4-22	
HBK 3266	20.0	48.4	30	4-22	62.5
AGRIPRO/COKER D02-8486	19.9	48.3	30	4-19	
USG 3665	19.9	47.3	26	4-13	53.1
PROGENY 185	19.6	47.5	27	4-15	72.9
PIONEER 26R87	19.5	48.1	29	4-19	79.0
GA951231-4E25	18.8	48.2	28	4-19	
LA978UC-101-1-1-1-C	18.4	48.1	28	4-21	
JAMESTOWN	17.4	47.9	26	4-18	
LA98133D-160-3-C	16.6	50.5	27	4-19	
AR96077-10-1	16.5	44.8	28	4-16	73.3
AGS 2000	16.1	47.7	29	4-16	73.9
LA99005UC-31-3-C	15.9	49.4	27	4-21	
AGS 2010	15.4	48.1	27	4-18	51.0
CHESAPEAKE	15.2	47.8	27	4-18	65.8
ARX 3603	15.0	46.7	29	4-19	
FFR 556	14.4	48.1	26	4-19	
TERRAL LA482	14.1	49.1	26	4-16	
USG 3342	13.8	48.3	28	4-21	
CROPLAN GENET. 554W	13.6	48.3	28	4-21	63.1
ARTX5406	12.8	49.0	27	4-09	

Table 4. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	2005-06 Yield
	bu/A	lb/bu	in		bu/A
USG 3209	9.9	48.5	28	4-17	66.2
TERRAL LA841	8.9	48.3	27	4-20	70.7
Grand mean	26.2	48.1	27	4-18	61.5
LSD (5%)	7.8	2.1	4	7	19.5
C.V. (%)	21.5	3.2	10	11	22.9

Pt ht = Plant height; Due to the high variability within the test no two or three year averages were reported.

**STANDARD INPUT WHEAT TEST
LON MANN COTTON RESEARCH STATION, MARIANNA, AR**

SOIL SERIES....Loring silt loam
 PREVIOUS CROP....Fallow
 PLANTING DATE....October 23, 2006
 FERTILIZER.... 90 lb N/A + 24 lb/S/A on Feb. 21, 2007; 60 lb N/A on March 26, 2006
 HERBICIDE....0.6 oz/A Harmony Extra on March 7, 2007
 INSECTICIDE....None
 HARVEST DATE....June 5, 2007
 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 -----								
2006-2007	2.4	5.0	7.6	5.2	2.1	0.8	4.3	2.7	30.1
Normal	3	4.4	4.8	4.4	4.1	5.4	5.5	5.2	36.8
Departure	-0.6	+0.6	+2.8	+0.8	-2.0	-4.6	-1.2	-2.5	-6.7

Table 5. Performance of Wheat Cultivars In the Standard Input Test, Marianna.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
DELTA KING XTJ730	88.9	52.8	36	4-07	5-10	
ARX 6202	83.7	56.3	34	4-09	5-09	
JGL EXP 701	81.3	54.5	36	4-05	5-12	
DIXIE 989	78.8	53.9	36	4-06	5-09	92.3
DELTA GROW 1600	78.4	56.0	34	4-06	5-11	96.3
AR 850-1-1	73.1	56.0	37	4-12	5-12	91.9
DELTA KING XTJ732	70.5	57.1	37	4-09	5-12	
JGL EXP 703	69.3	53.9	39	4-04	5-10	
ARX 8804	69.3	54.7	35	4-12	5-09	
AG ALUMNI 5057	67.9	52.6	36	4-10	5-10	
ROANE	66.1	57.9	33	4-11	5-10	76.5
DELTA KING XTJ724	65.2	57.7	38	4-09	5-09	
PAT	63.6	58.3	38	4-10	5-10	82.9
PROGENY 166	62.4	53.7	40	4-07	5-09	80.4
AG ALUMNI 5058	61.3	57.0	30	4-06	5-09	
DELTA KING 9410	59.0	55.1	40	4-08	5-07	79.6
DELTA GROW 5200	57.8	55.2	39	4-08	5-09	94.4
TERRAL TV8558	57.3	51.8	33	4-05	5-09	93.7
ARMOR 5110	56.9	53.0	39	4-09	5-09	68.8
SABBE	55.4	55.3	35	4-04	5-10	88.3
USG 3665	54.7	55.5	34	4-04	5-10	93.1
DIXIE BELL DB3440	54.1	55.8	37	4-10	5-11	69.1
PIONEER 26R15	52.7	53.9	31	4-05	5-12	81.6
DIXIE 900	52.5	54.6	39	4-09	5-10	81.6
PROGENY 133	50.0	56.2	39	4-07	5-09	71.0
DELTA KING XTJ734	49.8	54.3	37	4-04	5-08	

Table 5. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
DELTA KING 7830	49.5	50.5	39	4-06	5-09	75.2
ARX 3603	48.5	57.7	32	4-09	5-14	
DELTA GROW 4100	48.1	54.6	39	4-09	5-11	63.5
PIONEER 26R22	46.7	54.5	35	4-06	5-08	91.4
DELTA KING 7710	46.0	54.9	38	4-08	5-08	66.7
USG 3350	45.3	55.4	39	4-05	5-10	79.2
DIXIE X427	42.9	54.0	33	4-05	5-08	
AGRIPRO/COKER BERETTA	42.5	55.3	36	4-03	5-09	89.1
ARMOR 260Z	42.4	54.6	35	4-04	5-07	88.7
DELTA GROW 4500	41.8	54.3	38	4-06	5-08	71.9
TERRAL TVX81170	41.3	52.3	36	4-04	5-08	
CROPLAN GENET. 8302	40.4	52.9	33	4-05	5-09	97.8
DELTA KING 9577	39.6	54.7	33	4-02	5-07	84.1
FFR 8302	39.5	55.3	34	4-04	5-11	86.7
USG 3X633	38.4	55.0	35	4-04	5-09	
TERRAL TV8331	37.3	54.2	35	4-06	5-11	84.3
CROPLAN GENET. 554W	36.6	57.2	35	4-02	5-07	94.9
FFR 556	36.5	53.2	33	4-02	5-07	
CHESAPEAKE	35.3	54.0	33	4-02	5-07	77.8
TERRAL TV8466	33.9	51.3	34	4-03	5-07	72.2
PROGENY 145	33.7	53.4	35	4-05	5-09	74.9
PROGENY 185	30.3	52.0	32	4-04	5-09	74.8
AGRIPRO/COKER PANOLA	28.5	56.3	34	3-30	5-07	76.2
AGRIPRO/COKER D02-8486	28.0	56.2	35	3-31	5-07	
AR96077-7-2	27.5	54.9	31	4-02	5-09	
DIXIE BELL DB7440	25.9	52.0	38	4-04	5-08	
AGS 2050	24.8	54.6	31	4-01	5-08	84.5
GA96693-4E16	24.0	57.2	35	3-27	5-07	
ARTX5406	22.7	56.8	31	4-01	5-08	
AGS 2000	20.2	54.0	35	3-27	5-08	94.0
ARX 9901	19.2	52.2	31	4-04	5-06	
USG 3295	18.8	55.2	33	3-30	5-08	86.8
HBK 3266	15.2	54.8	35	3-28	5-08	87.8
AR96077-10-1	13.8	55.7	34	3-31	5-06	87.7
USG 3342	13.6	52.4	30	4-03	5-09	
LA95135	13.4	53.8	35	3-27	5-06	68.5
AGS 2060	11.5	55.5	38	3-27	5-08	83.5
TERRAL LA482	11.0	55.7	37	3-29	5-07	
AGRIPRO/COKER MAGNOLIA	10.0	56.5	36	3-30	5-07	86.6
VA02W-555	9.1	56.6	29	3-30	5-07	
LA978UC-101-1-1-1-C	8.6	55.8	34	3-28	5-07	
USG 3209	7.3	54.6	30	3-30	5-06	90.0
LA99005UC-31-3-C	6.7	54.6	33	3-27	5-07	
PIONEER 26R87	6.4	55.2	34	3-27	5-06	81.5
LA98133D-160-3-C	6.2	56.4	34	3-27	5-07	

Table 5. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
LA98202D-64-1-C	5.6	55.5	35	3-28	5-06	
AGRIPRO/COKER COKER9553	4.8	55.7	36	3-28	5-07	86.5
AGS 2010	4.6	56.0	35	3-29	5-06	74.7
LA978UC-36-1-1-B	4.3	55.7	32	3-28	5-06	
TERRAL LA841	3.2	55.5	33	3-28	5-06	75.1
DELTA KING GR9108	3.1	56.0	37	3-29	5-06	96.9
GA951231-4E26	3.1	54.2	33	3-29	5-06	
JAMESTOWN	2.7	55.3	31	3-27	5-06	
GA951231-4E25	<u>2.4</u>	<u>56.3</u>	<u>33</u>	<u>3-29</u>	<u>5-06</u>	—
Grand mean	37.3	54.9	35	4-03	5-08	81.0
LSD (5%)	15.5	3.9	3	2	1	20.6
C.V. (%)	30.0	5.1	6	4	1	18.4

Pt ht = Plant height; Due to the high variability within the test no two or three year averages were reported.

**STANDARD INPUT WHEAT TEST
NEWPORT, AR**

SOIL SERIES....
 PREVIOUS CROP...Fallow
 PLANTING DATE...October 24, 2006
 FERTILIZER....70 lb N/A + 24 lb S/A on Feb. 15, 2007; 50 lb N/A on March 5, 2007
 HERBICIDE....0.5 oz /A Harmony Extra on Feb. 14, 2007
 INSECTICIDE....None
 HARVEST DATE....June 12, 2007
 PRECIPITATION....Not Recorded

Table 6. Performance of Wheat Cultivars in the Standard Input Test, Newport.

Entry Name	Yield bu/A	Test wt lb/bu	Ldg %	Pt ht in
DELTA KING GR9108	53.4	51.0	24	35
PAT	53.2	52.1	93	36
ARMOR 260Z	50.1	48.9	16	32
FFR 8302	50.0	50.8	21	33
DELTA KING 7710	49.8	49.3	49	35
ARX 6202	49.4	50.2	71	32
USG 3350	49.1	45.8	75	35
LA95135	49.1	50.2	4	32
DELTA KING 9577	48.8	46.1	13	32
AR 850-1-1	47.8	51.0	85	35
DELTA KING XTJ734	47.7	47.5	30	33
DELTA KING XTJ724	46.7	48.4	81	34
DELTA GROW 5200	46.7	51.8	93	35
CROPLAN GENET. 8302	46.5	50.5	5	33
DIXIE BELL DB7440	46.4	48.0	54	34
AGRIPRO/COKER MAGNOLIA	45.9	50.4	30	33
PIONEER 26R22	45.8	53.0	16	33
USG 3X633	44.9	49.4	20	32
AG ALUMNI 5057	44.5	47.9	50	33
DIXIE BELL DB3440	44.5	46.6	80	34
VA02W-555	44.4	49.9	1	28
FFR 556	43.5	46.9	15	30
AG ALUMNI 5058	43.5	50.7	26	32
PIONEER 26R15	43.3	46.2	86	32
DELTA GROW 4100	43.2	50.5	88	34
AGRIPRO/COKER BERETTA	43.1	48.8	20	31
TERRAL TVX81170	42.3	48.2	30	33
PROGENY 185	42.2	47.5	6	31
JGL EXP 703	41.8	47.8	58	34
DELTA KING XTJ732	41.7	50.1	40	32
DIXIE 900	41.5	47.2	76	35
AR96077-7-2	41.3	39.6	6	28
JGL EXP 701	41.3	47.4	86	32
LA98202D-64-1-C	41.2	53.0	3	31
GA951231-4E26	41.1	50.0	4	28

Table 6. Continued.

Entry Name	Yield	Test wt	Ldg	Pt ht
	bu/A	lb/bu	%	in
CHESAPEAKE	40.7	51.3	13	30
DELTA KING XTJ730	40.5	49.3	24	32
PIONEER 26R87	40.0	54.9	3	30
ARMOR 5110	39.8	48.8	80	35
USG 3295	39.5	51.5	5	29
USG 3665	39.3	50.0	11	32
PROGENY 166	39.1	47.5	83	34
TERRAL TV8558	39.1	48.2	33	31
AGRIPRO/COKER PANOLA	38.7	50.8	10	32
PROGENY 145	38.5	44.1	65	34
DELTA GROW 1600	38.3	43.7	26	32
DELTA GROW 4500	37.7	45.4	85	34
ARX 8804	37.5	50.0	55	31
TERRAL TV8331	37.4	47.6	46	32
AR96077-10-1	37.3	48.1	1	31
AGRIPRO/COKER COKER9553	37.2	55.0	3	32
DELTA KING 7830	36.9	49.6	65	35
USG 3209	36.9	48.2	3	27
AGS 2060	36.6	56.1	0	35
PROGENY 133	36.4	45.9	89	35
DELTA KING 9410	36.2	46.3	90	35
CROPLAN GENET. 554W	35.8	47.9	43	29
GA96693-4E16	35.8	52.5	1	30
AGS 2050	35.6	49.8	10	32
DIXIE 989	35.5	46.8	25	30
GA951231-4E25	35.1	47.6	0	27
ROANE	34.9	51.2	87	30
SABBE	34.9	47.0	48	33
ARX 3603	34.8	45.4	89	30
TERRAL LA482	34.2	50.3	8	35
AGS 2000	33.7	54.3	3	31
HBK 3266	33.5	51.4	24	30
DIXIE X427	33.5	47.6	28	30
ARTX5406	32.7	49.8	13	30
USG 3342	32.0	52.0	18	29
LA978UC-36-1-1-B	31.9	48.5	16	28
LA978UC-101-1-1-1-C	31.8	47.1	23	30
TERRAL TV8466	31.2	47.2	53	31
LA98133D-160-3-C	28.4	51.2	25	30
ARX 9901	27.0	52.4	3	30
JAMESTOWN	24.4	53.0	3	28
LA99005UC-31-3-C	21.4	48.0	0	28
AGRIPRO/COKER D02-8486	20.6	51.9	0	28
AGS 2010	17.7	51.0	0	28
TERRAL LA841	<u>15.8</u>	<u>50.5</u>	<u>4</u>	<u>26</u>
Grand mean	39.1	49.2	35	32
LSD (5%)	9.0	4.2	25	2
C.V. (%)	16.7	6.2	52	5

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

SOIL SERIES....Sharkey/Desha silt loam

PREVIOUS CROP...Soybeans

PLANTING DATE....October 24, 2006

FERTILIZER.... 175 lb/A of 0-40-60 on October 23, 2006; 90 lb N/A + 24 lb S/A on Feb. 18, 2007; 60 lb N/A on March 19, 2007.

HERBICIDE....0.6 oz/A Harmony Extra on March 4, 2007; 8.19 oz/A Axial on March 6, 2007

INSECTICIDE....None

HARVEST DATE....May 24, 2007

PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2006-2007	6.8	3.1	6.8	5.7	1.7	0.5	4.6	3.9	33.1
Normal	4.5	5.6	6.7	3.4	5.5	5.2	3.5	4.7	39.1
Departure	2.3	-2.5	0.1	2.3	-3.8	-4.7	1.1	-0.8	-6

Table 7. Performance of Wheat Cultivars in the Standard Input Test, Rohwer.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	Freeze damage	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			%	bu/A	bu/A
DELTA KING XTJ730	108.3	61.4	35	4-05	5-11	24		
DELTA GROW 1600	108.1	62.3	33	4-04	5-12	33	97.2	
AG ALUMNI 5058	107.2	62.7	36	4-05	5-15	23		
ARMOR 260Z	105.7	62.4	36	4-02	5-11	40	93.3	
DIXIE X427	105.4	60.8	36	4-02	5-11	48		
DELTA KING XTJ732	105.0	61.9	38	4-07	5-17	6		
DELTA KING 7710	104.0	61.8	41	4-06	5-11	10	93.2	87.2
PIONEER 26R22	103.6	59.9	38	4-05	5-16	18	99.3	89.7
TERRAL TVX81170	103.3	60.4	41	4-02	5-10	40		
DIXIE 989	103.3	61.8	35	4-04	5-12	29	93.8	
DELTA KING XTJ734	103.0	60.1	41	4-02	5-10	53		
JGL EXP 703	101.5	59.2	40	4-04	5-15	31		
DELTA GROW 5200	100.6	61.9	42	4-06	5-12	6	91.5	
DIXIE 900	99.1	61.5	42	4-04	5-13	11	84.4	80.5
DELTA KING 9577	98.9	62.5	34	4-01	5-11	40	93.7	85.8
ROANE	98.8	63.5	32	4-07	5-17	5	89.4	83.6
ARX 6202	98.5	62.9	34	4-07	5-12	33		
PROGENY 185	98.2	60.5	37	4-03	5-12	29	86.4	82.4
USG 3665	98.2	59.4	34	4-03	5-12	38	94.2	
AGRIPRO/COKER BERETTA	97.0	61.7	36	4-03	5-15	36	85.0	80.8
TERRAL TV8558	96.9	62.5	33	4-02	5-10	46	92.7	89.3
DELTA KING XTJ724	96.8	61.2	40	4-07	5-15	14		
ARX 3603	95.5	59.7	34	4-06	5-16	21		
ARMOR 5110	94.3	61.8	41	4-05	5-12	10	86.4	
DELTA KING 9410	94.0	61.8	41	4-05	5-12	14	86.3	83.1
DELTA GROW 4500	93.5	61.5	39	4-03	5-11	24	82.8	78.1

Table 7. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	Freeze damage	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			%	bu/A	bu/A
DELTA GROW 4100	92.9	62.3	41	4-04	5-12	11	81.9	79.1
AGS 2050	92.4	62.4	35	4-01	5-08	45	86.9	80.0
USG 3350	92.3	61.9	39	4-03	5-12	13	85.8	82.0
TERRAL TV8466	92.1	60.6	37	4-01	5-09	59	89.1	83.8
CROPLAN GENET. 8302	91.8	61.7	34	4-03	5-14	41	93.7	85.8
JGL EXP 701	90.5	58.7	39	4-06	5-15	19		
PROGENY 166	90.2	61.5	42	4-04	5-12	15	79.5	80.5
PIONEER 26R15	89.9	59.9	34	4-05	5-14	23	89.1	84.7
ARX 8804	89.1	59.3	36	4-07	5-15	18		
AG ALUMNI 5057	88.1	58.9	36	4-08	5-15	18		
PROGENY 133	87.9	61.7	42	4-03	5-12	24	79.9	76.7
DIXIE BELL DB3440	87.8	61.2	40	4-06	5-14	19	77.6	
DIXIE BELL DB7440	87.2	60.2	40	4-02	5-10	48		
CHESAPEAKE	86.6	62.1	34	4-01	5-08	73	83.0	76.4
FFR 8302	86.3	61.5	34	4-04	5-13	20	91.6	88.0
SABBE	86.3	58.9	36	4-04	5-13	21	77.7	74.0
DELTA KING 7830	86.0	61.1	40	4-03	5-11	18	79.9	80.4
AR 850-1-1	85.1	60.5	36	4-07	5-13	11	79.1	
ARX 9901	85.0	62.4	32	4-03	5-10	39		
PROGENY 145	84.7	61.5	39	4-03	5-10	25	73.9	72.9
TERRAL TV8331	84.4	60.2	37	4-04	5-12	31	86.3	
PAT	83.4	60.5	39	4-07	5-16	8	79.7	72.4
USG 3X633	83.1	61.2	36	4-04	5-13	33		
AGRIPRO/COKER PANOLA	82.0	60.9	38	4-01	5-09	71	84.8	82.3
USG 3295	81.8	62.2	33	3-30	5-07	79	85.2	
FFR 556	80.3	61.0	35	4-01	5-10	58		
VA02W-555	79.4	61.6	34	3-30	5-09	83		
USG 3342	78.8	61.3	30	4-03	5-10	60		
HBK 3266	77.2	61.5	38	3-30	5-07	86	83.7	85.0
CROPLAN GENET. 554W	76.4	61.0	33	4-02	5-11	59	73.9	68.8
AR96077-7-2	73.4	60.4	31	4-01	5-08	90		
ARTX5406	68.9	61.9	33	4-01	5-10	78		
USG 3209	66.9	59.3	34	3-29	5-07	80	75.8	72.9
AR96077-10-1	65.3	61.8	34	3-31	5-08	86	74.5	
PIONEER 26R87	61.6	63.9	33	3-29	5-07	79	77.2	
AGS 2060	60.9	62.8	39	3-29	5-07	93	76.3	75.4
LA95135	60.2	60.7	38	3-30	5-08	66	67.6	72.2
LA978UC-36-1-1-B	60.2	59.0	35	3-29	5-07	93		
DELTA KING GR9108	59.8	59.6	40	3-29	5-06	85	70.3	71.7
LA978UC-101-1-1-1-C	55.9	59.2	36	3-28	5-05	91		
AGRIPRO/COKER COKER9553	51.0	62.1	35	3-31	5-09	76	66.7	71.3
LA98202D-64-1-C	48.3	61.5	36	3-28	5-05	93		
JAMESTOWN	47.4	62.3	34	3-27	5-07	93		
AGRIPRO/COKER MAGNOLIA	45.8	61.6	39	3-30	5-07	83	65.2	
GA951231-4E26	45.7	61.6	35	3-28	5-06	88		
TERRAL LA841	42.4	60.6	35	3-28	5-04	89	62.5	68.3

Table 7. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	Freeze damage	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			%	bu/A	bu/A
AGS 2000	41.8	61.7	38	3-28	5-07	96	63.2	65.3
GA951231-4E25	41.7	61.5	35	3-28	5-05	91		
TERRAL LA482	40.8	60.5	38	3-27	5-06	95		
LA98133D-160-3-C	35.2	59.6	35	3-27	5-06	94		
AGS 2010	31.6	61.3	38	3-28	5-05	100	48.9	56.6
GA96693-4E16	31.1	62.3	36	3-28	5-05	89		
LA99005UC-31-3-C	29.1	58.7	35	3-27	5-06	95		
AGRIPRO/COKER D02-8486	<u>14.7</u>	<u>55.3</u>	<u>35</u>	<u>3-26</u>	<u>5-04</u>	<u>99</u>	—	—
Grand mean	79.7	61.1	37	4-02	5-10	49	82.1	78.5
LSD (5%)	12.4	2.2	2	1	2	18	28.9	20.1
C.V. (%)	11.2	2.6	4	3	2	27	10.7	11.7

Pt ht = Plant height; Freeze damage rating were taken three weeks following the April freeze.

**STANDARD INPUT WHEAT TEST
RICE RESEARCH & EXTENSION CENTER, STUTTGART, AR**

SOIL SERIES....Crowley silt loam
 PREVIOUS CROP....Fallow
 PLANTING DATE....October 23, 2006
 FERTILIZER.... 100 lb/A 0-0-60 and 200 lb/A 0-46-0 on Sept. 6, 2006; 70 lb N/A on Feb. 18, 2007; 50 lb N/A on March 5, 2007
 HERBICIDE....2 oz Sencor on Dec.6, 2006
 INSECTICIDE....3.84 oz/A Warrior on March 27, 2007
 HARVEST DATE....May 31, 2007
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2006-2007	2.0	4.2	6.1	6.4	1.8	1.6	4.5	2.8	29.4
Normal	3.3	4.4	4.6	3.8	3.8	4.6	5.6	5.4	35.5
Departure	-1.3	-0.2	+1.5	2.6	-2.0	-3.0	-1.1	-2.6	-6.1

Table 8. Performance of Wheat Cultivars in the Standard Input Test, Stuttgart.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
ARX 6202	100.1	59.4	35	4-09	5-07	
AG ALUMNI 5058	94.3	60.1	35	4-02	5-07	
DELTA KING XTJ732	94.0	59.1	36	4-07	5-11	
ARX 8804	92.4	58.2	35	4-09	5-09	
DELTA GROW 1600	91.7	56.9	36	4-01	5-07	87.2
DELTA KING XTJ724	90.6	59.8	36	4-09	5-10	
DELTA KING 7710	86.7	57.6	39	4-03	5-07	
DELTA KING XTJ730	86.6	58.2	36	4-03	5-08	
DELTA GROW 4100	86.5	59.2	38	4-06	5-09	78.4
JGL EXP 701	85.7	58.8	36	4-02	5-07	
DELTA KING 9410	85.2	59.7	40	4-05	5-09	77.6
ARMOR 5110	84.8	59.0	38	4-07	5-10	77.8
DIXIE 989	83.2	57.4	36	4-01	5-07	83.8
USG 3665	81.6	57.7	36	4-01	5-07	86.7
DELTA KING 7830	78.9	58.1	39	4-04	5-09	74.6
ROANE	78.4	59.0	34	4-05	5-10	83.6
PAT	76.9	58.7	37	4-07	5-06	86.1
PROGENY 133	76.3	59.2	37	4-03	5-09	78.3
PROGENY 166	75.2	58.3	39	4-03	5-10	77.9
AGRIPRO/COKER BERETTA	74.8	52.4	34	4-01	5-07	75.7
DIXIE X427	74.8	57.6	35	3-31	5-06	
PROGENY 145	74.3	58.8	39	4-02	5-09	73.7
USG 3350	73.4	58.5	39	4-01	5-10	72.2
DELTA GROW 4500	73.3	59.0	37	4-05	5-08	73.7
JGL EXP 703	72.8	57.3	37	4-01	5-08	
AG ALUMNI 5057	72.3	56.7	36	4-04	5-10	
DIXIE 900	71.2	54.0	38	4-02	5-10	72.2

Table 8. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
SABBE	71.1	55.5	37	4-03	5-08	60.9
DELTA KING GR9108	70.3	55.8	39	3-30	5-07	88.1
AR 850-1-1	70.1	55.1	36	4-04	5-07	85.5
DIXIE BELL DB7440	69.3	56.3	37	3-30	5-07	
PROGENY 185	68.4	58.5	36	3-31	5-07	78.9
TERRAL TV8558	68.2	57.6	35	3-31	5-06	88.0
ARX 9901	68.0	57.0	35	3-31	5-06	
ARX 3603	68.0	55.5	34	4-05	5-09	
DELTA KING 9577	67.6	53.7	38	3-30	5-06	89.0
GA96693-4E16	66.9	60.3	36	3-28	5-07	
ARMOR 260Z	66.6	57.6	36	3-31	5-06	85.3
DELTA GROW 5200	65.6	57.6	38	4-02	5-09	80.7
DELTA KING XTJ734	65.4	57.7	38	3-31	5-08	
TERRAL LA841	60.8	56.0	36	3-26	5-05	77.6
TERRAL TVX81170	60.3	58.0	40	3-31	5-08	
TERRAL TV8466	58.8	55.3	36	4-01	5-06	79.5
DIXIE BELL DB3440	58.6	56.7	37	4-08	5-10	76.7
CROPLAN GENET. 554W	58.1	50.7	34	3-30	5-07	75.2
PIONEER 26R87	56.6	55.0	35	3-26	5-05	75.8
AGRIPRO/COKER D02-8486	56.4	57.5	36	3-25	5-04	
ARTX5406	55.1	59.2	35	3-29	5-06	
FFR 556	54.6	57.5	34	3-31	5-06	
LA978UC-101-1-1-1-C	52.5	55.2	35	3-28	5-06	
USG 3295	52.4	56.4	34	3-28	5-07	76.9
LA95135	51.6	55.8	38	3-29	5-06	73.2
HBK 3266	51.0	56.1	37	3-28	5-05	86.9
AGS 2050	50.5	56.0	36	3-29	5-06	78.8
PIONEER 26R22	50.0	56.8	36	4-03	5-08	86.2
PIONEER 26R15	49.6	54.6	35	4-03	5-10	80.8
GA951231-4E26	49.3	57.5	35	3-26	5-05	
TERRAL LA482	48.9	57.7	37	3-26	5-05	
FFR 8302	48.8	56.3	36	4-03	5-07	87.0
AGS 2060	48.0	58.3	40	3-26	5-06	75.4
CHESAPEAKE	46.5	57.5	35	3-30	5-04	83.6
LA978UC-36-1-1-B	45.5	56.8	36	3-28	5-05	
AGS 2000	44.7	60.3	36	3-27	5-06	82.9
AGRIPRO/COKER MAGNOLIA	43.1	58.3	37	3-28	5-06	89.7
VA02W-555	42.9	57.7	35	3-28	5-07	
AGRIPRO/COKER PANOLA	42.3	57.0	36	3-30	5-06	68.3
USG 3X633	41.8	55.7	35	4-02	5-06	
LA98133D-160-3-C	41.6	56.8	34	3-24	5-05	
GA951231-4E25	39.1	55.8	35	3-26	5-05	
LA99005UC-31-3-C	38.1	58.0	35	3-24	5-04	
LA98202D-64-1-C	37.4	58.5	36	3-27	5-06	
TERRAL TV8331	36.9	52.6	36	4-02	5-06	79.1
CROPLAN GENET. 8302	36.3	57.3	35	4-01	5-06	82.7

Table 8. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
JAMESTOWN	33.1	55.5	35	3-24	5-05	
AR96077-10-1	28.1	54.4	36	3-29	5-05	79.0
AGRIPRO/COKER COKER9553	28.1	58.3	35	3-28	5-06	77.5
USG 3209	22.7	55.6	35	3-22	5-04	71.3
AGS 2010	20.5	57.4	36	3-27	5-05	75.3
AR96077-7-2	20.1	56.7	34	3-30	5-05	
USG 3342	<u>14.7</u>	<u>56.2</u>	<u>32</u>	<u>4-01</u>	<u>5-04</u>	—
Grand mean	61.0	57.1	36	3-31	5-07	77.2
LSD (5%)	24.3	3.8	2	4	2	7.9
C.V. (%)	28.8	4.9	4	8	2	7.4

Pt ht = Plant height; Due to the high variability within the test no two or three year averages were reported.

**HIGH INPUT WHEAT TEST
RICE RESEARCH & EXTENSION CENTER, STUTTGART, AR**

SOIL SERIES....Crowley silt loam
 PREVIOUS CROP....Fallow
 PLANTING DATE....October 23, 2006
 FERTILIZER.... 100 lb/A 0-0-60 and 200 lb/A 0-46-0 on Sept. 6, 2006; 90 lb N/A on Feb. 18, 2007; 60 lb N/A on March 5, 2007
 HERBICIDE....2 oz Sencor on Dec. 6, 2006; 4 oz/A Tilt on March 25, 2007
 INSECTICIDE....None
 HARVEST DATE....May 31, 2007
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2006-2007	2.0	4.2	6.1	6.4	1.8	1.6	4.5	2.8	29.4
Normal	3.3	4.4	4.6	3.8	3.8	4.6	5.6	5.4	35.5
Departure	-1.3	-0.2	+1.5	2.6	-2.0	-3.0	-1.1	-2.6	-6.1

Table 9. Performance of Wheat Cultivars in the High Input Test, Stuttgart.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
ARX 6202	98.9	57.9	36	4-08	5-09	
DELTA KING XTJ730	93.3	57.1	36	4-04	5-08	
DELTA KING XTJ724	92.1	57.8	37	4-09	5-11	
SABBE	90.3	56.8	38	4-04	5-09	74.0
AG ALUMNI 5057	89.8	55.3	36	4-05	5-11	
ARX 8804	89.6	56.9	36	4-08	5-11	
DELTA GROW 1600	87.3	58.2	36	4-03	5-08	92.0
DIXIE 989	85.0	56.8	37	4-01	5-09	94.4
AG ALUMNI 5058	84.0	58.5	35	4-05	5-07	
DIXIE BELL DB3440	80.8	57.2	37	4-07	5-11	87.6
ROANE	79.6	59.8	33	4-06	5-11	87.0
DELTA GROW 5200	79.5	58.2	38	4-07	5-11	94.5
USG 3665	79.4	56.2	36	3-31	5-08	88.6
DIXIE 900	78.8	55.9	39	4-02	5-10	97.4
PAT	78.3	57.7	38	4-08	5-10	87.3
AR 850-1-1	77.7	54.0	39	4-08	5-10	85.3
DIXIE BELL DB7440	75.7	57.5	38	3-31	5-07	
AGRIPRO/COKER BERETTA	75.6	56.7	34	4-02	5-10	89.1
PROGENY 166	75.1	56.3	38	4-03	5-10	91.5
DELTA KING 7830	74.4	57.7	39	4-04	5-06	90.3
JGL EXP 701	73.1	57.6	35	4-03	5-09	
DIXIE X427	72.3	58.2	36	4-01	5-07	
PROGENY 133	71.5	57.5	39	4-02	5-10	91.3
DELTA GROW 4500	70.9	58.3	38	4-05	5-09	90.4
DELTA KING GR9108	68.7	54.2	38	3-29	5-06	92.3
DELTA KING 7710	68.5	58.6	40	4-04	5-07	87.3
DELTA KING 9410	68.4	56.2	40	4-04	5-09	96.3
ARX 3603	68.3	56.9	34	4-07	5-11	

Table 9. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
TERRAL TVX81170	66.7	57.4	39	3-30	5-08	
ARMOR 5110	66.6	58.3	39	4-05	5-10	93.1
ARX 9901	66.5	58.8	32	3-31	5-07	
TERRAL TV8466	66.2	53.0	36	3-31	5-06	95.6
PROGENY 145	65.6	57.0	39	4-02	5-08	91.1
USG 3350	65.4	57.8	39	4-01	5-11	96.1
PIONEER 26R15	62.0	56.6	35	4-05	5-10	65.2
JGL EXP 703	61.5	55.8	37	4-01	5-09	
DELTA KING XTJ732	61.5	58.0	37	4-08	5-11	
DELTA KING 9577	60.8	56.8	36	3-30	5-06	99.6
CHESAPEAKE	59.8	54.4	34	3-30	5-08	92.4
DELTA GROW 4100	59.2	58.6	38	4-06	5-09	92.6
ARMOR 260Z	58.9	56.9	36	3-31	5-07	98.7
DELTA KING XTJ734	57.2	56.7	39	3-31	5-07	
FFR 556	56.3	54.2	35	3-30	5-07	
FFR 8302	54.5	56.8	37	4-01	5-11	88.1
AGRIPRO/COKER D02-8486	52.3	54.7	35	3-24	5-05	
AGRIPRO/COKER PANOLA	51.5	56.3	34	3-29	5-07	81.3
TERRAL LA482	51.2	55.8	39	3-26	5-05	
AGS 2050	51.2	57.4	35	3-30	5-07	88.2
PIONEER 26R87	50.2	59.6	36	3-27	5-06	81.7
TERRAL TV8558	49.7	56.6	36	3-30	5-07	100.2
PROGENY 185	47.3	57.1	36	3-30	5-10	95.8
HBK 3266	45.8	58.4	36	3-28	5-06	75.2
CROPLAN GENET. 8302	45.6	55.0	37	4-01	5-08	87.7
GA951231-4E25	43.9	56.5	35	3-25	5-06	
LA978UC-36-1-1-B	43.6	56.5	36	3-27	5-06	
AGS 2000	43.4	57.3	37	3-28	5-07	80.1
PIONEER 26R22	43.4	57.7	36	4-03	5-10	92.4
AGRIPRO/COKER MAGNOLIA	41.8	56.3	38	3-28	5-06	89.8
LA99005UC-31-3-C	41.5	55.5	36	3-24	5-06	
GA951231-4E26	40.8	48.4	33	3-24	5-05	
AGS 2060	39.8	57.4	41	3-26	5-07	71.1
TERRAL LA841	38.7	56.6	36	3-27	5-06	83.3
CROPLAN GENET. 554W	38.5	55.1	35	4-01	5-08	95.7
LA98133D-160-3-C	38.4	57.3	36	3-24	5-06	
USG 3X633	37.8	54.8	36	4-02	5-06	
USG 3295	37.2	56.5	34	3-28	5-06	86.9
LA95135	36.0	57.0	38	3-28	5-07	69.9
GA96693-4E16	35.6	57.0	36	3-26	5-06	
USG 3209	27.1	55.8	34	3-28	5-06	90.7
TERRAL TV8331	27.0	57.0	37	4-02	5-06	84.8
LA978UC-101-1-1-1-C	26.9	56.4	37	3-27	5-05	
LA98202D-64-1-C	26.5	56.7	36	3-26	5-05	
VA02W-555	25.1	56.2	32	3-28	5-08	
AR96077-10-1	22.9	55.2	36	3-28	5-07	90.4

Table 9. Continued.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2005-06 Yield
	bu/A	lb/bu	in			bu/A
ARTX5406	22.0	56.6	35	3-29	5-07	
JAMESTOWN	21.8	57.9	33	3-24	5-05	
AGS 2010	20.7	57.8	35	3-26	5-05	73.1
AGRIPRO/COKER COKER9553	19.8	56.8	36	3-28	5-05	90.6
AR96077-7-2	19.5	56.9	33	3-29	5-06	
USG 3342	<u>7.5</u>	<u>55.5</u>	<u>31</u>	<u>4-01</u>	<u>5-05</u>	—
Grand mean	56.6	56.7	36	3-31	5-08	87.7
LSD (5%)	24.4	3.2	2	2	2	14.0
C.V. (%)	31.1	4.1	3	4	3	11.5

Pt ht = Plant height; Due to the high variability within the test no two or three year averages were reported.

Table 10. Percentage of leaf area with sporulating stripe rust pustules averaged across three replications in an inoculated and irrigated field nursery at Fayetteville, AR.

	%
AG ALUMNI 5057	25
AG ALUMNI 5058	50
AGRIPRO/COKER BERETTA	12
AGRIPRO/COKER COKER9553	4
AGRIPRO/COKER D02-8486	0
AGRIPRO/COKER MAGNOLIA	3
AGRIPRO/COKER PANOLA	0
AGS 2000	83
AGS 2010	45
AGS 2050	3
AGS 2060	5
AR 850-1-1	1
AR96077-10-1	1
AR96077-7-2	25
ARMOR 260Z	32
ARMOR 5110	0
ARTX5406	4
ARX 3603	50
ARX 6202	10
ARX 8804	27
ARX 9901	5
CHESAPEAKE	96
CROPLAN GENET. 554W	83
CROPLAN GENET. 8302	2
DELTA GROW 1600	20
DELTA GROW 4100	0
DELTA GROW 4500	3
DELTA GROW 5200	2
DELTA KING 7710	1
DELTA KING 7830	1
DELTA KING 9410	1
DELTA KING 9577	25
DELTA KING GR9108	3
DELTA KING XTJ724	37
DELTA KING XTJ730	25
DELTA KING XTJ732	10
DELTA KING XTJ734	83
DIXIE X427	1
DIXIE 900	17
DIXIE 989	12
DIXIE BELL DB3440	1
DIXIE BELL DB7440	10
FFR 556	87
FFR 8302	3
GA951231-4E25	0
GA951231-4E26	1
GA96693-4E16	8
HBK 3266	70
JAMESTOWN	0

Table 10. Continued.

	%
JGL EXP 701	6
JGL EXP 703	5
LA95135	5
LA978UC-101-1-1-1-C	4
LA978UC-36-1-1-B	8
LA98133D-160-3-C	8
LA98202D-64-1-C	2
LA99005UC-31-3-C	32
PAT	1
PIONEER 26R15	17
PIONEER 26R22	7
PIONEER 26R87	0
PROGENY 133	5
PROGENY 145	1
PROGENY 166	1
PROGENY 185	62
ROANE	68
SABBE	10
TERRAL LA482	5
TERRAL LA841	0
TERRAL TV8331	38
TERRAL TV8466	15
TERRAL TV8558	32
TERRAL TVX81170	85
USG 3209	20
USG 3295	3
USG 3342	96
USG 3350	13
USG 3665	12
USG 3X633	57
VA02W-555	<u>0</u>
LSD (5%)	15

OAT TEST
COTTON BRANCH STATION, MARIANNA, AR

SOIL SERIES....Loring silt loam
 PREVIOUS CROP....Fallow
 PLANTING DATE....October 23, 2006
 FERTILIZER.... 60 lb N/A + 24 lb S/A on Feb. 12, 2007; 40 lb N/A on March 6, 2007
 HERBICIDE.... None
 INSECTICIDE....3.84 oz/A Warrior on March 28, 2007
 HARVEST DATE....June 6, 2007
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2006-2007	2.4	5.0	7.6	5.2	2.1	0.8	4.3	2.7	30.1
Normal	3	4.4	4.8	4.4	4.1	5.4	5.5	5.2	36.8
Departure	-0.6	+0.6	+2.8	+0.8	-2.0	-4.6	-1.2	-2.5	-6.7

Table 11. Performance of Oat Cultivars, Marianna.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2-Yr avg	3-Yr avg
	bu/A	lb/bu	in			bu/A	bu/A
YORK	129.4	34.9	27	4-16	5-10	110.8	102.6
ARO 231-3	125.9	31.9	30	4-18	5-08	118.0	109.5
ARO 213-12	120.9	32.8	30	4-12	5-08	113.9	103.1
ARO 336-3	120.1	31.6	31	4-13	5-09	101.2	97.3
OZARK	118.6	34.8	35	4-12	5-09	105.0	94.9
ARO 336-12	114.7	33.1	35	4-13	5-09	112.2	103.9
ARO 289-9	114.4	32.8	34	4-02	5-08	105.1	101.4
ARNO-9	113.0	32.9	35	4-12	5-09	100.6	88.1
ARNO-4	109.3	35.3	37	4-05	5-09	102.4	89.8
LA966BSB-270-S2-C	103.1	31.7	30	4-01	5-09	105.5	97.2
BOB	102.3	35.6	34	4-04	5-08	103.6	93.3
HORIZON 321	100.3	34.8	31	4-06	5-09	101.3	90.8
LA95033D63-1-C-S3	99.6	31.7	33	4-05	5-09	96.6	95.6
LA99016SBSB-98-S	97.6	34.0	36	4-02	5-09		
TERRAL TROPHY	93.7	34.0	36	3-30	5-08	93.1	89.0
HORIZON 474	87.4	33.4	33	3-28	5-08		
ARNO-7	69.2	40.4	34	3-28	5-09	62.9	59.5
LA02030-S-B-171-S2	<u>64.2</u>	<u>32.1</u>	<u>32</u>	<u>3-28</u>	<u>5-10</u>	---	---
Grand mean	104.6	33.8	33	4-06	5-09	102.1	94.4
LSD (5%)	11.6	2.1	2	2	2	20.7	15.5
C.V. (%)	7.8	4.4	5	4	2	14.1	13.9

Pt ht = Plant height.

OAT TEST
RICE RESEARCH & EXTENSION CENTER, STUTTGART, AR

SOIL SERIES....Crowley silt loam
 PREVIOUS CROP....Fallow
 PLANTING DATE....October 24, 2006
 FERTILIZER....60 lb N/A on Feb. 18, 2007; 40 lb N/A on March 5, 2007
 HERBICIDE....None
 INSECTICIDE....3.84 oz/A Warrior on March 27,2007
 HARVEST DATE....May 30, 2007
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	----- Inches -----								
2006-2007	2.0	4.2	6.1	6.4	1.8	1.6	4.5	2.8	29.4
Normal	3.3	4.4	4.6	3.8	3.8	4.6	5.6	5.4	35.5
Departure	-1.3	-0.2	+1.5	2.6	-2.0	-3.0	-1.1	-2.6	-6.1

Table 12. Performance of Oat Cultivars, Stuttgart.

Entry Name	Yield	Test wt	Pt ht	Head date	Mat. date	2-Yr avg
	bu/A	lb/bu	in			bu/A
ARNO-4	169.5	35.5	45	4-02	5-03	124.5
YORK	167.4	37.1	39	4-12	5-05	103.5
LA99016SBSB-98-S	165.8	35.7	48	4-02	5-03	
BOB	161.4	37.1	41	4-01	5-02	137.5
ARO 336-12	159.6	34.6	48	4-08	5-05	135.4
HORIZON 321	158.8	36.7	42	4-02	5-02	133.2
OZARK	154.9	36.2	44	4-12	5-09	108.4
ARO 231-3	153.3	34.0	42	4-16	5-06	109.4
TERRAL TROPHY	153.3	37.7	45	3-30	5-07	133.6
ARO 213-12	152.9	33.3	44	4-11	5-06	116.0
LA966BSB-270-S2-C	151.1	34.8	36	3-30	5-06	131.0
ARO 336-3	150.9	34.3	44	4-10	5-06	119.7
LA02030-S-B-171-S2	150.4	35.1	42	3-27	5-05	
LA95033D63-1-C-S3	145.8	32.1	44	4-03	5-08	123.6
HORIZON 474	141.4	38.6	41	3-30	5-03	
ARO 289-9	141.3	34.5	42	4-03	5-08	116.9
ARNO-9	124.4	36.4	45	4-12	5-02	78.0
ARNO-7	<u>113.0</u>	<u>37.3</u>	<u>44</u>	<u>3-30</u>	<u>5-03</u>	<u>70.8</u>
Grand mean	150.8	35.6	43	4-05	5-05	116.1
LSD (5%)	18.2	2.2	2	2	3	39.7
C.V. (%)	8.5	4.3	4	4	3	12.2

Pt ht = Plant height;

PARTICIPANTS AND ENTRIES
2006 - 2007 ARKANSAS SMALL-GRAIN CULTIVAR PERFORMANCE TESTS

Companies

Ag Alumni Seed
 702 State Rd. 28E
 P.O. Box 158
 Romney, IN 47981
 800-822-7134

Ag Alumni 5057
 Ag Alumni 5058

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

AGS 2000
 AGS 2050
 AGS 2060
 AGS 2010

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

Dixie Bell DB7440
 Dixie Bell DB3440

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

Dixie 900
 Dixie 989
 Dixie X427

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

Croplan Genetics 554W
 Croplan Genetics 8302

Cullum Seed, LLC
 P.O. Box 9
 Waldenburg, AR 72475
 870-579-2286

Armor 260Z
 Armor 5110
 ARX 3603
 ARX 6202
 ARX 8804
 ARX 9901

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

Delta Grow 5200
 Delta Grow 4500
 Delta Grow 4100
 Delta Grow 1600

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

Delta King 9410
 Delta King 7710
 Delta King 9577
 Delta King XTJ 730
 Delta King GR9108
 Delta King 7830
 Delta King XTJ724
 Delta King XTJ732
 Delta King XTJ734

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

FFR 8302
 FFR 556

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	JGL EXP 701 JGL EXP 703	
Petrus Seed & Grain Co., Inc. 4100 Hanson Rd. Hazen, AR 72064 870-255-3346	AR 850-1-1 York (oat)	
Pioneer , A DuPont Co. 7501 S. Memorial PKWY, STE 205 Huntsville, AL 35802 256-650-4223	Pioneer 26R22 Pioneer 26R15 Pioneer 26R87	
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 185 Progeny 133 Progeny 145 Progeny 166	
Ragan & Massey, Inc. 100 Ponchatoula Pky. Ponchatoula, LA 70454 985-386-6042	LA 95135	
Syngenta Seeds, Inc. P.O. Box 729 778 CR 680 Bay, AR 72411 870-483-7691	AgriPro/COKER Coker Magnolia AgriPro/COKER Panola AgriPro/COKER Coker DO2-8486	AgriPro/COKER 9553 AgriPro/COKER Beretta
Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254 318-559-2840	Terral LA841 Terral TV8331 Terral TVX81170 Terral TV8466	Terral TV8558 Terral LA482 Terral Trophy (oat)
UniSouth Genetics 2640-C Nolensville Rd. Nashville, TN 37211 800-505-3133	USG 3209 USG 3350 USG 3665	USG 3242 USG 3X633 USG 3295

Public Institutions

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

Pat
Sabbe
AR96077-7-2
AR96077-10-1
ARNO 4 (oat)

Bob (oat)
Ozark (oat)
ARTX5406
ARO 213-12(oat)
ARNO 9 (oat)

ARO 231-3 (oat)
ARO 289-9 (oat)
ARO 336-12 (oat)
ARO 336-3 (oat)
ARNO 7 (oat)

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

UGA 96693-4E16
UGA 951231-4E25

UGA 951231-4E26

Louisiana State University
Agronomy Department
Baton Rouge, LA 70803-2110
225-578-1380

LA99005UC-31-3-C
LA98202D-64-1-C
LA98133D-160-3-C

LA978UC-101-1-1-1-C
LA966BSB-270-S2-C (oat)
LA95033D63-1-C-S3 (oat)
LA02030-S-B-171-S2 (oat)
LA99016SBSB-98-S (oat)
LA978UC-36-1-1-B

University of Maryland
27664 Nanticoke Road
Salisbury, MD
410-742-1178 Ext 308

Chesapeake

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

Roane
VA02W-555
VA02W-370

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DIVISION OF AGRICULTURE