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Arkansas Wheat Cultivar Performance Tests 2013-2014

R. E. Mason

University of Arkansas, Fayetteville

R. G. Miller

University of Arkansas, Fayetteville

J. P. Kelley

University of Arkansas, Fayetteville

E. A. Milus

University of Arkansas, Fayetteville

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R.E. Mason, R.G. Miller, J.P. Kelley, and E.A. Milus

UofA

**DIVISION OF AGRICULTURE
RESEARCH & EXTENSION**

University of Arkansas System

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ARKANSAS WHEAT CULTIVAR PERFORMANCE TESTS

2013-2014

R.E. Mason
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E.A. Milus



**Arkansas Agricultural Experiment Station
University of Arkansas System
Division of Agriculture
Fayetteville, Arkansas 72701**

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Christopher Addison, Graduate Student

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David Moon, Program Associate

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Shawn Lancaster, Program Technician

Brittany Hallett, Program Technician

Vegetable Substation, Kibler

Dennis Motes, Resident Director

Steven Eaton, Program Associate

Lon Mann Cotton Research Station, Marianna

Claude Kennedy, Resident Director

Bob Glover, Volunteer

Newport Extension Center, Newport

Bob Scott, Resident Director

Rohwer Research Station, Rohwer

Larry Earnest, Resident Director

Scott Hayes, Program Technician

Rice Research and Extension Center, Stuttgart

Chuck Wilson, Center Director

Ronnie Sherman, Program Technician

CONTENTS

	Page
Introduction.....	4
Methods.....	4
Weather Summary.....	5
Results.....	5
Map of Testing Sites	6
Table 1. Summary of wheat yields in six Arkansas locations in 2013-2014.....	7
Table 2. Performance of wheat cultivars in the standard input test, Keiser.....	9
Table 3. Performance of wheat cultivars in the standard input test, Kibler.....	12
Table 4. Performance of wheat cultivars in the standard input test, Marianna.....	15
Table 5. Performance of wheat cultivars in the standard input test, Newport.....	18
Table 6. Performance of wheat cultivars in the standard input test, Rohwer	21
Table 7. Performance of wheat cultivars in the standard input test, Stuttgart.....	24
Participants and Entries (companies).....	27
Participants and Entries (public institutions).....	30
Map of Testing Sites	(inside back cover)

ARKANSAS WHEAT CULTIVAR PERFORMANCE TESTS¹ 2013-2014

R.E. Mason², R.G. Miller², J.P. Kelley², and E.A. Milus³

INTRODUCTION

Wheat 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 Newport Extension Center near Newport, the Rohwer Research Station near Rohwer, and the Rice Research and Extension Center near 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 top-dress nitrogen and a 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 96 entries. A randomized complete block experimental design with four replications was used for all tests. A seeding rate of 105 lb/A was used to establish plots 20 feet in length and 49 inches in width (7 rows, 7 inches apart). The test at Rohwer was planted using a grain drill with 9 rows 6 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, with the exception of Rohwer where raised beds were used. Plots were end-trimmed, and harvested with a plot combine.

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 13.0% moisture content.

Test weight: Test weights, expressed in pounds per bushel (lbs/bu), were determined using the Harvest Master Pro 4100 at 13.0% moisture.

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 of year that an estimated 50% of the heads had emerged.

Maturity Date: Maturity dates are reported as the day of year 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 on a whole plot basis unless otherwise noted. Scabby seed in Marianna was estimated from a grain sample as the percent of kernels damaged by *Fusarium* head blight infection.

Variety Testing Website

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

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.

²Assistant Professor, Program Associate I, and Associate Professor, respectively, Department of Crop, Soil and Environmental Sciences, University of Arkansas, Fayetteville, Ark. 72701.

³Professor, Department of Plant Pathology, University of Arkansas, Fayetteville, Ark. 72701.

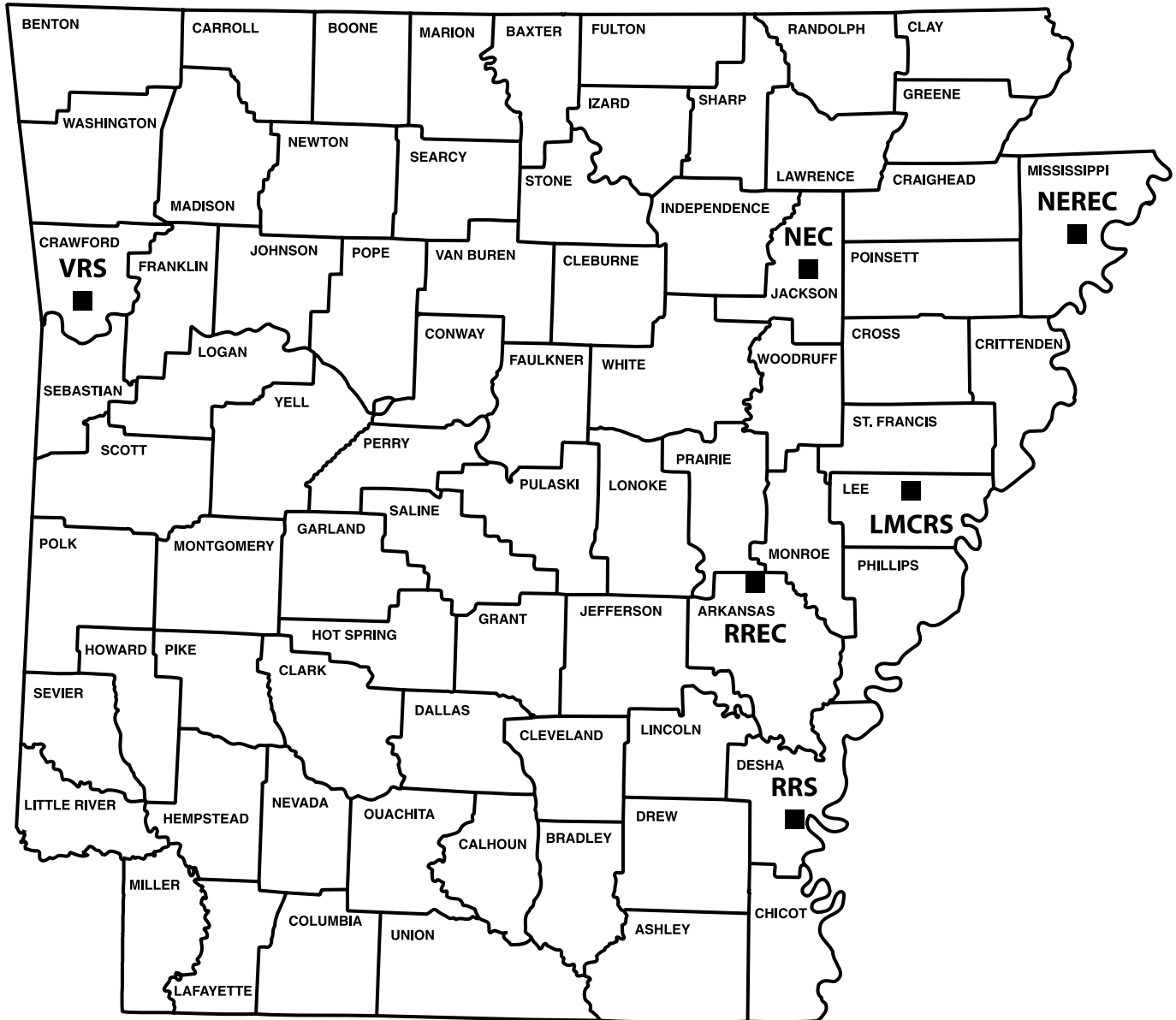
WEATHER SUMMARY

Soil moisture was adequate prior to planting with most locations experiencing timely rain following planting. Fall rainfall totals were below normal for October, November and January but above normal for December. Rainfall totals for February through harvest were generally above normal resulting in above average seasonal totals for all locations with the exception of Kibler. Cool temperatures combined with the above average rainfall resulted in delayed heading dates in all locations compared to normal.

RESULTS

Grain yields ranged from average to very good across locations (Table 1). The highest average yield was recorded in Marianna (96.0 bu/A) and the lowest was recorded in Keiser (61.6 bu/A). Only the standard input test was harvested in Stuttgart due to a lack of disease pressure and poor stands. Overall, very little disease was present across the state with the exception of leaf rust in Stuttgart and bacterial streak in Kibler. Ratings were taken by Gene Milus and Esten Mason.

WHEAT TEST LOCATIONS



- LMCRS** - Lon Mann Cotton Research Station, Marianna
- NEC** - Newport Extension Center, Newport
- NEREC** - Northeast Research and Extension Center, Keiser
- RREC** - Rice Research and Extension Center, Stuttgart
- RRS** - Rohwer Research Station, Rohwer
- VRS** - Vegetable Research Station, Kibler

Table 1. Summary of wheat yields at six Arkansas locations in 2013-2014.

Entry Name	Keiser	Kibler	Marianna	Newport	Rohwer	Stuttgart
	Standard Input Yield (bu/A)					
AgriMAXX 413	65.7	92.9	95.0	81.7	97.5	77.9
AgriMAXX 415	73.8	87.5	96.0	80.5	95.1	75.8
AgriMAXX 447	55.4	92.4	102.0	89.5	91.0	89.1
AgriMAXX Exp 1444	76.3	104.8	104.0	90.8	97.5	90.1
AgriMAXX Exp 1465	65.6	96.2	100.0	81.5	93.3	86.2
AGS 2035	48.8	99.6	96.0	83.7	91.3	43.8
AGS 2038	46.7	84.6	93.0	58.5	93.9	56.2
AGS 2040	44.6	84.4	87.0	76.2	91.4	49.0
AGS 2056	56.7	101.6	98.0	92.5	96.3	80.2
AGS 2057	66.5	92.0	104.0	91.7	91.2	82.2
Armor ARX1313	55.1	102.2	103.0	86.3	95.3	75.3
Armor ARX1325	73.7	98.9	95.0	83.8	95.8	88.1
Armor ARX1327	69.1	97.0	96.0	89.7	96.3	84.7
Armor ARX1329	66.4	95.5	93.0	74.8	94.9	80.0
Armor ARX1332	61.3	93.8	95.0	84.4	98.1	68.6
Armor ARX1336	68.5	98.8	99.0	86.3	91.8	63.8
Armor ARX1339	77.9	97.8	103.0	79.7	96.6	60.7
Armor Havoc	57.8	95.9	99.0	85.7	98.4	76.9
Armor Octane	66.8	96.4	97.0	84.9	93.3	94.1
Armor Vandal	70.2	90.8	103.0	90.2	99.1	76.0
Deltagrow 2100	54.1	89.3	83.0	65.3	93.8	67.2
Deltagrow 3200	63.7	91.0	101.0	95.6	96.2	62.7
Deltagrow 7100	62.1	90.4	92.0	75.1	92.5	65.0
Deltagrow 7200	76.4	92.6	104.0	80.8	96.7	74.6
Deltagrow 720X	68.9	93.1	98.0	82.9	98.2	86.9
Deltagrow 7500	65.9	93.1	95.0	78.1	96.2	77.0
Deltagrow 9700	71.6	100.6	102.0	81.6	94.1	74.4
Dixie Bell 412	60.8	83.6	83.0	70.5	93.0	62.7
Dixie Bell 620	66.6	96.5	100.0	94.4	95.2	77.8
Dixie Bell 7880	57.2	89.2	98.0	86.1	96.4	80.6
Dixie Bell 8980	53.6	89.4	97.0	73.9	96.6	72.9
Dixie Extreme	64.5	99.1	97.0	91.9	95.3	80.4
Dixie McAlister	71.1	98.4	99.0	82.1	96.0	80.1
Dixie DXEX 13-3	70.9	95.0	88.0	82.0	94.1	69.8
Dixie Glory	39.0	86.7	88.0	82.0	91.6	69.7
Dixie DXEX 14-2	42.9	95.5	91.0	80.3	93.1	67.9
Dyna-Gro 9012	69.6	94.3	101.0	84.0	89.1	77.4
Dyna-Gro 9171	76.0	96.5	99.0	84.0	98.1	85.6
Dyna-Gro 9223	70.8	100.6	100.0	95.8	96.5	76.5
Dyna-Gro 9373	68.4	95.5	92.0	78.1	88.6	79.3
Dyna-Gro WX13622	62.5	92.7	105.0	82.5	91.0	88.7
Dyna-Gro Yorktown	53.9	92.5	91.0	87.1	94.7	51.0
GA-041052-11E51	57.6	93.5	97.0	82.6	93.1	47.6
GA-041293-11E54	45.9	94.9	101.0	67.3	94.8	60.0
GA-041293-11LE37	65.1	98.9	100.0	66.5	92.7	60.1
GA-04434-11E44	55.6	88.6	104.0	64.8	92.9	43.7
Jamestown	60.5	80.4	83.0	61.4	95.3	49.5
LA03200E-2	56.8	96.7	96.0	83.9	95.0	64.4
LA03200E-23	49.9	92.8	96.0	76.7	97.2	64.8
LA05032D-136	59.4	74.8	91.0	67.4	91.0	48.0

Table 1. Continued.

Entry Name	Keiser	Kibler	Marianna	Newport	Rohwer	Stuttgart
	Standard Input Yield (bu/A)					
LA05130D-P5	68.4	86.5	90.0	76.9	92.7	65.9
LCS L-Brand343	47.2	91.7	81.0	72.7	88.4	45.3
LCS L-Brand448	52.3	90.6	91.0	78.1	94.8	71.6
NC09-22402	53.0	90.6	99.0	78.2	94.8	60.3
Pembroke 2008	54.2	88.5	89.0	77.5	92.2	70.3
Pioneer 26R20	68.0	85.3	91.0	65.2	96.1	80.3
Pioneer 26R10	65.6	95.8	95.0	83.9	94.4	81.6
Pioneer 26R41	65.5	102.3	99.0	93.5	101.0	79.8
Pioneer 26R53	62.4	90.4	95.0	89.9	98.7	73.5
Pioneer 26R87	48.1	92.8	95.0	82.4	93.9	50.7
Progeny 117	58.0	89.7	86.0	63.6	92.6	65.0
Progeny 125	55.8	97.8	93.0	88.1	96.4	66.8
Progeny 185	60.0	90.7	93.0	77.7	94.0	75.3
Progeny 357	75.7	82.8	87.0	63.4	94.5	79.3
Progeny 870	74.2	95.4	105.0	82.4	98.6	83.7
Progeny PGX 13-1	54.6	94.0	96.0	74.7	89.0	82.9
Progeny PGX 13-2	48.0	104.0	98.0	87.2	95.1	70.1
Progeny PGX 13-4	55.0	81.5	94.0	65.5	93.2	74.3
Progeny PGX 13-6	70.3	98.5	99.0	91.7	91.9	91.7
Syngenta Oakes	66.8	82.3	90.0	77.1	93.7	68.4
Syngenta SY Cypress	58.1	91.2	91.0	69.5	92.1	54.8
Syngenta SX102	55.4	99.6	102.0	84.0	93.9	62.3
Syngenta SX103	56.9	103.1	103.0	85.4	92.3	63.6
Syngenta SY Harrison	66.6	102.5	101.0	83.6	95.7	79.3
Terral LA 754	48.7	88.6	93.0	84.9	89.6	54.1
Terral LA 841	46.6	82.4	82.0	66.9	90.9	56.5
Terral TV 8525	75.0	94.5	94.0	73.0	94.9	79.7
Terral TV 8535	67.3	95.0	102.0	79.3	97.8	84.8
Terral TV 8848	71.6	94.4	105.0	77.8	97.6	92.1
Terral TV 8861	60.8	94.7	101.0	95.5	96.8	76.3
TXGA04417-11E21	58.7	94.5	102.0	73.4	93.3	57.9
USG 3013	77.9	95.8	98.0	88.2	95.6	83.1
USG 3024	57.4	81.9	88.0	64.2	91.3	50.8
USG 3201	73.9	91.9	91.0	80.3	98.8	86.1
USG 3251	60.5	93.9	95.0	76.6	91.8	85.8
USG 3404	61.4	96.7	103.0	92.8	98.1	88.1
USG 3438	69.9	96.4	104.0	80.4	97.1	80.4
USG 3523	73.2	91.6	90.0	84.0	94.6	80.9
USG 3833	57.3	98.2	103.0	80.5	93.1	87.9
USG 3993	54.1	86.5	95.0	72.2	90.6	87.0
ARGA04510-11LE24	64.5	89.4	97.0	66.5	95.7	77.2
AR04002-3	43.4	88.9	95.0	74.9	94.3	74.9
AR04008-5	58.8	86.3	95.0	69.0	94.3	73.6
AR00343-5-1	71.0	91.7	101.0	83.0	94.6	70.2
AR01040-4-1	58.4	86.4	102.0	87.4	96.9	70.0
AR01044-1-1	51.0	91.9	93.0	73.9	94.4	64.3
Mean	61.6	92.9	96.0	79.9	94.5	72.1
LSD (5%)	17.4	11.1	15.0	15.8	8.0	14.1
CV (%)	14.4	6.0	8.0	10.1	4.3	9.9

**STANDARD INPUT WHEAT TEST
NORTHEAST RESEARCH AND EXTENSION CENTER, KEISER, ARK.**

SOIL SERIES Sharkey silty clay
 PREVIOUS CROP Fallow
 PLANTING DATE..... October 10, 2013
 FERTILIZER 75lb of N/A on Feb 24, 2014, 85lb of N/A on March 25, 2014
 HERBICIDE Axial XL at 16.4oz/A on Feb 28, 2014, Harmony Extra at 0.9oz/A on April 15, 2014
 INSECTICIDE..... None
 HARVEST DATE June 20, 2014
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	-----Inches-----								
Keiser	2.66	3.06	6.90	1.69	5.74	4.24	5.29	5.78	35.36
Keiser Normal	2.40	4.10	4.70	3.40	3.00	4.80	5.10	5.30	32.80
Keiser Departure	0.26	-1.04	2.20	-1.71	2.74	-0.56	0.19	0.48	2.56

Table 2. Performance of wheat cultivars in the standard input test, Keiser.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)
USG 3013	77.9	83.0		59.2	5/5	6/3	31
Armor ARX1339	77.9			59.8	5/1	5/29	32
Deltagrow 7200	76.4	80.3		59.9	5/3	6/4	31
AgriMAXX Exp 1444	76.3			59.3	5/4	6/5	28
Dyna-Gro 9171	76.0	82.0		57.9	5/2	6/1	30
Progeny 357	75.7	77.2	72.0	59.1	5/5	6/4	28
Terral TV 8525	75.0	81.9	79.9	60.6	5/3	6/1	29
Progeny 870	74.2	77.2	73.3	59.7	5/2	6/3	29
USG 3201	73.9	83.3	76.2	60.8	5/2	6/1	30
AgriMAXX 415	73.8	83.7	79.4	61.0	5/1	5/31	30
Armor ARX1325	73.7			58.6	5/5	6/3	28
USG 3523	73.2	83.5		57.8	5/2	6/3	31
Deltagrow 9700	71.6	80.6		58.8	5/3	6/3	31
Terral TV 8848	71.6	76.3	71.7	58.3	5/2	6/3	30
Dixie McAlister	71.1	81.0	77.0	59.6	5/4	6/3	29
AR00343-5-1	71.0	80.9		61.3	5/5	6/2	34
Dixie DXEX 13-3	70.9	83.7		58.7	5/4	6/4	31
Dyna-Gro 9223	70.8	73.9		59.3	5/4	6/2	32
Progeny PGX 13-6	70.3			59.3	5/4	6/2	28
Armor Vandal	70.2	81.5		58.0	5/4	6/2	30
USG 3438	69.9	79.5	75.3	59.2	5/2	6/2	27
Dyna-Gro 9012	69.6	80.8	77.0	61.5	5/2	5/31	29
Armor ARX1327	69.1			59.3	5/4	6/3	30
Deltagrow 720X	68.9			60.3	5/4	6/3	30
Armor ARX1336	68.5			60.9	5/1	5/31	31
Dyna-Gro 9373	68.4			59.1	5/4	6/4	31
LA05130D-P5	68.4			62.4	5/3	6/4	28
Pioneer 26R20	68.0	75.6	77.3	61.2	5/4	6/1	28
Terral TV 8535	67.3	75.2	73.3	59.4	5/2	5/31	29

Table 2. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)
Armor Octane	66.8	73.5		58.8	5/4	6/6	29
Syngenta Oakes	66.8	71.5	70.6	62.2	5/4	6/3	29
Syngenta SY Harrison	66.6	78.9	75.8	58.2	5/2	6/2	30
Dixie Bell 620	66.6	80.7	75.9	59.0	5/3	6/3	30
AGS 2057	66.5			60.2	5/4	6/4	30
Armor ARX1329	66.4			58.5	5/1	6/1	30
Deltagrow 7500	65.9	78.7	74.8	58.9	5/2	6/2	28
AgriMAXX 413	65.7	77.5	73.8	57.5	5/2	6/1	28
AgriMAXX Exp 1465	65.6			58.3	5/5	6/4	28
Pioneer 26R10	65.6	77.9	75.0	59.1	5/5	6/1	28
Pioneer 26R41	65.5	79.1	77.1	59.1	5/4	5/31	27
GA-041293-11LE37	65.1			62.1	5/2	5/31	29
ARGA04510-11LE24	64.5			59.9	5/3	6/4	31
Dixie Extreme	64.5	80.0		59.1	5/4	6/3	31
Deltagrow 3200	63.7			62.7	5/2	6/1	28
Dyna-Gro WX13622	62.5			59.0	5/4	6/3	27
Pioneer 26R53	62.4	78.3	74.6	59.3	5/5	6/2	27
Deltagrow 7100	62.1			57.9	5/4	6/4	29
USG 3404	61.4			58.0	5/5	6/4	29
Armor ARX1332	61.3			60.8	5/3	6/1	28
Terral TV 8861	60.8	72.2	71.2	57.4	5/4	6/3	29
Dixie Bell 412	60.8	73.4	70.1	58.1	5/5	6/5	29
USG 3251	60.5	76.0		59.5	5/5	6/4	30
Jamestown	60.5	75.0	70.6	60.7	4/30	5/30	29
Progeny 185	60.0	68.6	65.6	59.0	5/2	6/3	30
LA05032D-136	59.4			61.4	5/3	5/28	32
AR04008-5	58.8			59.3	5/2	5/30	32
TXGA04417-11E21	58.7			60.0	5/5	6/1	26
AR01040-4-1	58.4	69.2		57.6	5/5	6/6	35
Syngenta SY Cypress	58.1			60.5	4/30	6/2	27
Progeny 117	58.0	66.3	63.6	59.0	5/1	5/29	28
Armor Havoc	57.8	77.6	73.3	59.6	5/3	5/31	30
GA-041052-11E51	57.6			59.5	4/29	5/31	27
USG 3024	57.4			59.4	5/1	5/30	19
USG 3833	57.3	71.0		60.6	5/6	6/5	28
Dixie Bell 7880	57.2	72.2		60.0	5/2	5/31	31
Syngenta SX103	56.9			59.2	4/30	5/30	28
LA03200E-2	56.8	71.3		61.7	5/2	5/28	33
AGS 2056	56.7	68.9	66.9	58.8	5/2	6/1	27
Progeny 125	55.8	68.6	67.5	58.2	5/1	5/30	26
GA-04434-11E44	55.6			60.0	5/4	6/3	25
Syngenta SX102	55.4			58.3	5/2	5/30	33
AgriMAXX 447	55.4	67.4		58.8	5/2	6/4	28
Armor ARX1313	55.1			55.0	5/3	5/31	30
Progeny PGX 13-4	55.0			59.1	5/6	6/5	31
Progeny PGX 13-1	54.6			60.1	5/6	6/4	28
Pembroke 2008	54.2			59.9	5/2	5/31	28

Table 2. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)
Deltagrow 2100	54.1			57.5	5/2	6/1	30
USG 3993	54.1	65.7		57.8	5/5	6/6	31
Dyna-Gro Yorktown	53.9	65.6	63.3	59.9	5/5	6/1	28
Dixie Bell 8980	53.6			40.6	5/3	6/1	31
NC09-22402	53.0			60.0	5/5	6/3	28
LCS L-Brand448	52.3			57.3	5/6	6/5	29
AR01044-1-1	51.0			61.7	5/2	6/2	30
LA03200E-23	49.9			61.4	5/2	6/1	28
AGS 2035	48.8	65.9	65.8	62.0	5/3	6/4	29
Terral LA 754	48.7	58.7	57.5	60.8	5/1	5/29	31
Pioneer 26R87	48.1	66.9	66.0	60.3	4/29	5/30	29
Progeny PGX 13-2	48.0			58.6	5/3	5/31	26
LCS L-Brand343	47.2	69.6		59.3	5/3	5/29	27
AGS 2038	46.7	65.1	68.8	61.9	5/7	6/5	33
Terral LA 841	46.6			59.0	5/2	5/29	28
GA-041293-11E54	45.9			60.2	5/3	5/31	28
AGS 2040	44.6	60.7	57.2	62.6	5/2	5/30	27
AR04002-3	43.4			58.4	5/5	6/4	30
Dixie DXEX 14-2	42.9			58.7	5/5	6/5	31
Dixie Glory	39.0			56.9	5/6	6/5	27
Mean	61.6	74.9	71.5	59.3	5/3	6/2	29
LSD (5%)	17.4			7.8	5	3	5
CV (%)	14.4			6.7	0	0	9

**STANDARD INPUT WHEAT TEST
VEGETABLE SUBSTATION, KIBLER, ARK.**

SOIL SERIES Roxanna silt loam
 PREVIOUS CROP Fallow
 PLANTING DATE..... November 11, 2013
 FERTILIZER..... 44.5lbs N/A + 50lb S/A on Mar. 20, 2014; 45.5lb N/A + 50lbs S/A on Apr. 16, 2014
 HERBICIDE None
 INSECTICIDE..... None
 HARVEST DATE June 24, 2014
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	-----Inches-----								
Kibler	3.96	2.63	4.93	0.92	0.64	4.51	3.52	5.62	26.73
Kibler Normal	3.30	3.20	2.80	2.40	2.70	3.90	4.20	4.60	27.10
Kibler Departure	0.66	-0.57	2.13	-1.48	-2.06	0.61	-0.68	1.02	-0.370

Table 3. Performance of wheat cultivars in the standard input test, Kibler.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging at Maturity (0-9)	Bacterial Streak (%)
AgriMAXX Exp 1444	104.8			61.2	5/3	6/6	36.0	1	4
Progeny PGX 13-2	104.0			62.4	4/29	6/5	32.5	1	15
Syngenta SX103	103.1			63.2	4/26	6/4	35.3	0	1
Syngenta SY Harrison	102.5	87.5	87.8	61.9	4/29	6/5	34.0	0	1
Pioneer 26R41	102.3	85.3	89.4	62.2	4/28	6/6	34.8	0	5
Armor ARX1313	102.2			61.9	4/29	6/5	34.5	0	2
AGS 2056	101.6	89.7	81.9	62.3	4/27	6/5	33.8	0	1
Deltagrow 9700	100.6	81.8		60.3	4/30	6/6	37.0	3	6
Dyna-Gro 9223	100.6	87.9		61.8	5/6	6/7	35.5	2	3
AGS 2035	99.6	86.7	82.8	64.2	4/29	6/6	43.0	0	1
Syngenta SX102	99.6			60.3	4/27	6/5	36.0	0	4
Dixie Extreme	99.1	86.8		60.9	5/1	6/6	35.5	1	2
GA-041293-11LE37	98.9			64.3	4/28	6/6	35.0	0	9
Armor ARX1325	98.9			62.0	5/3	6/5	34.5	0	1
Armor ARX1336	98.8			62.9	4/26	6/4	34.8	0	7
Progeny PGX 13-6	98.5			62.2	5/3	6/6	36.0	0	8
Dixie McAlister	98.4	94.0	86.2	61.6	4/28	6/5	35.3	0	3
USG 3833	98.2	81.8		61.2	5/3	6/7	36.0	0	1
Progeny 125	97.8	87.2	81.6	61.5	4/26	6/3	34.3	1	14
Armor ARX1339	97.8			61.2	4/26	6/4	35.5	0	3
Armor ARX1327	97.0			61.9	5/3	6/7	35.5	0	5
LA03200E-2	96.7	86.0		63.7	4/30	6/5	33.5	0	1
USG 3404	96.7			61.8	5/2	6/7	36.0	0	5
Dixie Bell 620	96.5	81.9	85.9	61.6	5/1	6/6	34.0	0	3
Dyna-Gro 9171	96.5	93.4		62.1	4/28	6/4	36.0	0	3
Armor Octane	96.4	84.0		61.2	5/3	6/8	36.8	0	1
USG 3438	96.4	86.9	84.2	60.8	4/28	6/6	34.5	0	5

Table 3. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging at Maturity (0-9)	Bacterial Streak (%)
AgriMAXX Exp 1465	96.2			63.3	5/2	6/6	34.5	0	5
Armor Havoc	95.9	90.4	86.0	61.7	4/30	6/3	32.8	0	1
Pioneer 26R10	95.8	84.8	85.1	62.2	5/1	6/6	34.8	0	3
USG 3013	95.8	81.4		59.7	4/30	6/7	37.3	3	2
Dyna-Gro 9373	95.5			60.6	5/3	6/7	35.5	0	2
Armor ARX1329	95.5			63.7	4/28	6/5	36.5	0	5
Dixie DSEX 14-2	95.5			61.4	5/3	6/8	35.3	0	2
Progeny 870	95.4	85.7	80.4	62.3	4/27	6/5	35.3	0	6
Terral TV 8535	95.0	85.9	82.5	61.2	4/28	6/5	34.0	0	4
Dixie DSEX 13-3	95.0	82.7		61.4	4/30	6/6	35.8	1	8
GA-041293-11E54	94.9			63.7	4/30	6/6	34.5	0	12
Terral TV 8861	94.7	83.4	82.6	61.3	5/2	6/7	35.8	0	1
Terral TV 8525	94.5	82.2	86.4	62.6	4/28	6/4	35.3	0	2
TXGA04417-11E21	94.5			61.3	4/30	6/2	33.5	2	9
Terral TV 8848	94.4	86.5	79.3	62.1	4/30	6/7	34.8	1	1
Dyna-Gro 9012	94.3	91.0	85.3	63.4	4/28	6/3	33.5	0	1
Progeny PGX 13-1	94.0			60.3	5/3	6/9	35.0	0	2
USG 3251	93.9	81.6		61.8	5/3	6/8	35.8	0	3
Armor ARX1332	93.8			62.0	4/29	6/5	34.5	2	29
GA-041052-11E51	93.5			63.8	4/27	6/5	33.3	1	31
Deltagrow 7500	93.1	81.2	83.9	60.5	4/30	6/6	34.3	0	3
Deltagrow 720X	93.1			61.6	5/2	6/7	35.5	0	5
AgriMAXX 413	92.9	88.7	82.9	61.2	4/28	6/5	34.0	0	8
Pioneer 26R87	92.8	79.8	80.9	66.2	4/26	6/2	36.3	0	43
LA03200E-23	92.8			65.1	4/28	6/5	35.0	0	2
Dyna-Gro WX13622	92.7			61.4	5/3	6/7	34.5	0	3
Deltagrow 7200	92.6	82.0		60.4	5/2	6/7	33.8	1	1
Dyna-Gro Yorktown	92.5	84.3	76.2	61.4	4/30	6/5	35.5	1	1
AgriMAXX 447	92.4	81.0		62.4	5/3	6/7	36.3	0	2
AGS 2057	92.0			62.4	5/1	6/3	35.8	0	9
AR01044-1-1	91.9			62.3	5/1	6/6	34.5	0	2
USG 3201	91.9	88.7	82.3	63.6	5/6	6/6	35.3	0	3
LCS L-Brand343	91.7	80.5		63.1	4/28	6/3	33.3	0	12
AR00343-5-1	91.7	88.4		61.6	5/3	6/7	36.0	2	1
USG 3523	91.6	82.6		59.0	5/1	6/7	35.3	0	1
Syngenta SY Cypress	91.2			63.4	4/27	6/6	34.5	1	8
Deltagrow 3200	91.0			61.7	4/30	6/6	31.5	1	29
Armor Vandal	90.8	84.7		61.7	4/30	6/4	35.3	0	8
Progeny 185	90.7	76.8	75.8	62.2	4/27	6/5	36.5	0	12
NC09-22402	90.6			60.9	5/1	6/6	35.5	2	3
LCS L-Brand448	90.6			61.8	5/3	6/6	34.8	2	33
Deltagrow 7100	90.4			59.2	5/2	6/6	34.3	0	2
Pioneer 26R53	90.4	83.3	83.9	63.0	5/1	6/6	34.3	0	4
Progeny 117	89.7	75.1	74.1	62.1	4/28	6/4	35.8	1	3
ARGA04510-11LE24	89.4			62.2	5/1	6/5	35.5	0	9
Dixie Bell 8980	89.4			59.7	5/2	6/5	36.3	0	14
Deltagrow 2100	89.3			60.5	4/26	6/5	35.5	5	11
Dixie Bell 7880	89.2	86.2		60.4	4/30	6/7	35.8	0	6

Table 3. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging	
								Maturity (0-9)	Bacterial Streak (%)
AR04002-3	88.9			61.6	4/28	6/6	34.3	0	2
Terral LA 754	88.6	78.4	70.8	61.3	4/29	6/5	35.0	0	16
GA-04434-11E44	88.6			61.8	5/3	6/5	33.5	0	14
Pembroke 2008	88.5			62.8	4/29	6/6	34.3	0	13
AgriMAXX 415	87.5	84.1	83.9	63.7	4/28	6/5	36.0	0	2
Dixie Glory	86.7			59.3	5/3	6/6	34.0	0	1
LA05130D-P5	86.5			62.9	4/30	6/8	35.8	0	4
USG 3993	86.5	76.8		60.6	5/2	6/9	35.5	1	4
AR01040-4-1	86.4	86.8		59.9	5/3	6/8	37.8	2	1
AR04008-5	86.3			63.5	4/29	6/3	36.3	1	1
Pioneer 26R20	85.3	75.3	83.0	61.4	4/29	6/5	35.5	3	4
AGS 2038	84.6	78.2	81.4	61.6	5/5	6/9	36.0	0	1
AGS 2040	84.4	71.3	70.5	64.3	4/28	6/2	35.8	1	12
Dixie Bell 412	83.6	74.8	77.8	59.5	4/30	6/5	35.5	1	2
Progeny 357	82.8	84.0	74.4	58.3	5/3	6/7	35.3	0	5
Terral LA 841	82.4			61.6	5/2	6/3	32.8	0	1
Syngenta Oakes	82.3	74.2	75.7	62.0	5/1	6/4	35.5	2	55
USG 3024	81.9			62.3	4/27	6/3	34.3	0	24
Progeny PGX 13-4	81.5			58.0	5/4	6/8	36.0	0	4
Jamestown	80.4	73.6	77.3	64.3	4/26	6/2	33.8	2	12
LA05032D-136	74.8			61.5	5/4	6/6	35.8	2	2
Mean	92.9	83.4	81.3	61.8	4/30	6/5	35.1	1	7
LSD (5%)	11.1			2.4	4	4	4.7	2	16
CV (%)	6.0			2.0	2	1	6.8	216	121

STANDARD INPUT WHEAT TEST
LON MANN COTTON RESEARCH STATION, MARIANNA, ARK.

SOIL SERIES Loring silt loam
PREVIOUS CROP Grain sorghum
PLANTING DATE..... November 13, 2013
FERTILIZER..... 90 lb of N/A + 24 lb of S/A on March 13, 2014; 60 lb of N/A, April 10, 2014
HERBICIDE None
INSECTICIDE..... Karate at 1.5oz/A on May 15, 2014
HARVEST DATE June 12, 2014
PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	-----Inches-----								
Marianna	2.69	3.92	7.09	2.11	4.42	5.78	7.22	6.32	39.55
Marianna Normal	3.00	4.40	4.80	4.40	4.10	5.40	5.50	5.20	36.80
Marianna Departure	-0.31	-0.48	2.29	-2.29	0.32	0.38	1.72	1.12	2.75

Table 4. Performance of wheat cultivars in the standard input test, Marianna.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging at Maturity (0-9)	Lodging at Harvest (0-9)
Dyna-Gro WX13622	105.0			62.0	5/3	6/2	34	0	0
Progeny 870	105.0	91.2	87.9	62.0	4/29	5/30	35	0	1
Terral TV 8848	105.0	96.4	92.9	60.0	5/2	6/1	36	0	0
AgriMAXX Exp 1444	104.0			61.0	5/3	6/1	33	0	0
AGS 2057	104.0			63.0	5/5	6/3	36	0	0
Deltagrow 7200	104.0	90.6		60.0	4/30	5/31	34	0	1
GA-04434-11E44	104.0			63.0	5/2	5/31	34	0	2
USG 3438	104.0	97.9	93.2	62.0	4/29	5/31	34	0	0
Armor ARX1313	103.0			60.0	5/1	6/1	35	0	2
Armor ARX1339	103.0			60.0	4/27	5/29	36	0	0
Armor Vandal	103.0	95.9		62.0	5/1	6/1	35	0	1
Syngenta SX103	103.0			64.0	4/28	5/30	35	0	1
USG 3404	103.0			61.0	5/3	6/3	37	0	1
USG 3833	103.0	91.4		61.0	5/5	6/3	36	0	0
AgriMAXX 447	102.0	94.1		62.0	5/5	6/3	38	0	0
Deltagrow 9700	102.0	95.9		60.0	5/4	6/2	35	0	2
Syngenta SX102	102.0			61.0	4/28	5/28	37	0	0
Terral TV 8535	102.0	87.9	84.3	62.0	4/30	6/1	34	0	2
TXGA04417-11E21	102.0			62.0	5/3	5/31	32	0	1
AR01040-4-1	102.0	90.7		62.0	5/4	6/3	42	0	0
Deltagrow 3200	101.0			62.0	5/2	6/1	33	0	2
Dyna-Gro 9012	101.0	92.5	86.4	64.0	5/1	6/1	34	0	0
GA-041293-11E54	101.0			63.0	4/30	5/31	35	0	0
Syngenta SY Harrison	101.0	94.9	90.1	59.0	5/2	6/1	32	0	0
Terral TV 8861	101.0	88.7	85.5	62.0	5/4	6/2	32	0	0
AR00343-5-1	101.0	93.5		61.0	5/1	6/2	40	1	1
AgriMAXX Exp 1465	100.0			62.0	5/4	6/2	34	0	0
Dixie Bell 620	100.0	92.4	88.3	61.0	5/1	6/1	34	0	0
Dyna-Gro 9223	100.0	94.1		61.0	5/3	6/2	34	0	2

Table 4. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging at Maturity (0-9)	Lodging at Harvest (0-9)
GA-041293-11LE37	100.0			63.0	4/29	5/30	35	0	0
Armor ARX1336	99.0			62.0	4/29	5/30	36	2	3
Armor Havoc	99.0	92.2	90.4	62.0	5/1	6/1	34	0	3
Dixie McAlister	99.0	92.7	87.0	61.0	4/29	5/31	33	0	1
Dyna-Gro 9171	99.0	90.9		61.0	4/30	5/30	34	0	1
NC09-22402	99.0			62.0	5/4	6/2	35	0	0
Pioneer 26R41	99.0	92.6	89.9	62.0	5/2	6/1	33	0	1
Progeny PGX 13-6	99.0			61.0	5/4	6/2	36	1	0
AGS 2056	98.0	89.8	85.9	61.0	4/30	5/31	34	0	1
Deltagrow 720X	98.0			61.0	5/4	6/2	35	0	0
Dixie Bell 7880	98.0	92.0		61.0	4/30	5/30	37	0	1
Progeny PGX 13-2	98.0			62.0	5/1	6/1	33	0	3
USG 3013	98.0	95.2		61.0	5/4	6/3	38	0	2
Armor Octane	97.0	93.4		61.0	5/5	6/3	36	0	0
Dixie Bell 8980	97.0			61.0	5/4	6/4	39	1	0
Dixie Extreme	97.0	91.3		60.0	5/2	6/3	37	1	4
GA-041052-11E51	97.0			63.0	4/27	5/29	33	0	2
ARGA04510-11LE24	97.0			62.0	5/4	6/1	35	0	2
AgriMAXX 415	96.0	87.5	83.1	63.0	4/28	5/29	32	0	0
AGS 2035	96.0	90.0	85.0	62.0	4/27	5/31	39	0	1
Armor ARX1327	96.0			61.0	5/4	6/2	33	0	0
LA03200E-2	96.0	88.1		64.0	4/30	5/31	34	0	1
LA03200E-23	96.0			63.0	4/29	5/29	34	0	0
Progeny PGX 13-1	96.0			61.0	5/6	6/5	37	0	0
AgriMAXX 413	95.0	90.9	88.0	61.0	4/29	6/1	35	0	2
Armor ARX1325	95.0			63.0	5/3	6/3	36	1	1
Armor ARX1332	95.0			63.0	5/1	6/1	29	0	3
Deltagrow 7500	95.0	86.4	82.6	62.0	5/1	6/1	33	0	1
Pioneer 26R10	95.0	90.1	87.6	62.0	5/4	6/2	37	0	5
Pioneer 26R53	95.0	89.2	87.4	63.0	5/3	6/2	33	0	1
Pioneer 26R87	95.0	87.1	85.1	65.0	4/27	5/29	34	0	2
USG 3251	95.0	90.4		61.0	5/2	6/1	37	1	1
USG 3993	95.0	84.1		61.0	5/2	6/2	38	2	2
AR04002-3	95.0			62.0	4/28	5/30	34	0	0
AR04008-5	95.0			63.0	4/29	5/30	38	0	2
Progeny PGX 13-4	94.0			61.0	5/5	6/3	36	0	0
Terral TV 8525	94.0	88.1	86.8	63.0	5/1	5/31	34	0	0
AGS 2038	93.0	89.7	88.3	60.0	5/5	6/5	39	0	0
Armor ARX1329	93.0			61.0	4/30	5/31	36	0	4
Progeny 125	93.0	86.8	84.8	61.0	4/26	5/28	35	0	0
Progeny 185	93.0	83.4	78.8	62.0	4/28	5/30	34	0	0
Terral LA 754	93.0	92.6	85.5	62.0	4/28	5/29	34	0	2
AR01044-1-1	93.0			62.0	4/30	5/31	34	0	1
Deltagrow 7100	92.0			59.0	5/4	6/3	32	0	1
Dyna-Gro 9373	92.0			61.0	5/5	6/3	35	0	0
Dixie DXEX 14-2	91.0			62.0	5/4	6/4	35	0	0

Table 4. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging at Maturity (0-9)	Lodging at Harvest (0-9)
Dyna-Gro Yorktown	91.0	84.5	83.2	63.0	4/30	5/30	34	0	3
LA05032D-136	91.0			64.0	5/3	5/31	37	0	2
LCS L-Brand448	91.0			61.0	5/3	6/2	35	2	5
Pioneer 26R20	91.0	87.1	83.2	62.0	5/2	6/1	35	2	6
Syngenta SY Cypress	91.0			63.0	4/28	5/30	32	1	2
USG 3201	91.0	90.8	84.2	62.0	4/30	5/30	33	0	1
LA05130D-P5	90.0			63.0	4/30	6/2	36	0	1
Syngenta Oakes	90.0	82.9	80.8	63.0	5/2	6/1	37	1	3
USG 3523	90.0	86.5		60.0	5/2	6/3	35	2	3
Pembroke 2008	89.0			63.0	4/29	5/30	34	0	1
Dixie DSEX 13-3	88.0	88.3		62.0	5/2	6/3	33	0	3
Dixie Glory	88.0			61.0	5/5	6/4	35	0	0
USG 3024	88.0			63.0	4/30	5/31	33	0	1
AGS 2040	87.0	86.3	82.1	63.0	4/27	5/27	34	0	1
Progeny 357	87.0	79.6	77.2	59.0	5/2	6/3	34	1	6
Progeny 117	86.0	76.4	70.9	61.0	4/29	5/29	39	2	3
Deltagrow 2100	83.0			61.0	4/30	5/31	37	2	6
Dixie Bell 412	83.0	81.5	79.1	59.0	5/3	6/2	35	0	3
Jamestown	83.0	75.3	75.7	64.0	4/27	5/28	35	0	5
Terral LA 841	82.0			61.0	5/1	5/31	33	0	2
LCS L-Brand343	81.0	75.2		62.0	4/29	5/29	32	0	2
Mean	96.0	89.2	84.9	62.0	5/1	6/1	35	0	1
LSD (5%)	15.0			2.0	2	3	3	2	4
CV (%)	8.0			2.0	1	1	5	474	153

**STANDARD INPUT WHEAT TEST,
NEWPORT EXTENSION CENTER, NEWPORT, ARK.**

SOIL SERIES Beulah fine sandy loam
 PREVIOUS CROP Fallow
 PLANTING DATE October 14, 2013
 FERTILIZER 90 lb N/A + 24 lb S/A on March 12, 2014; 60lb N/A on April 11, 2014
 HERBICIDE Pre-Plant Finesse at 0.5oz/A; at Planting 4.75 oz/A Osprey; 0.9 oz/A Harmony Extra on April
 HARVEST DATE June 17, 2014
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	-----Inches-----								
Newport	5.09	3.97	7.47	2.21	2.63	5.16	6.89	5.04	38.46
Newport Normal	3.30	3.20	2.80	2.40	2.70	3.90	4.20	4.60	27.10
Newport Departure	1.79	0.77	4.67	-0.19	-0.07	1.26	2.69	0.44	11.36

Table 5. Performance of wheat cultivars in the standard input test, Newport.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	Test Weight (lbs/bu)	Plant Height (in.)
Dyna-Gro 9223	95.8	79.7	58.6	38
Deltagrow 3200	95.6		60.6	29
Terral TV 8861	95.5	83.4	58.8	34
Dixie Bell 620	94.4	81.9	58.1	34
Pioneer 26R41	93.5	81.5	59.6	34
USG 3404	92.8		58.5	34
AGS 2056	92.5	78.2	59.1	33
Dixie Extreme	91.9	82.0	59.3	33
AGS 2057	91.7		59.4	35
Progeny PGX 13-6	91.7		59.8	34
AgriMAXX Exp 1444	90.8		58.3	35
Armor Vandal	90.2	84.7	58.5	34
Pioneer 26R53	89.9	80.4	59.7	33
Armor ARX1327	89.7		58.9	34
AgriMAXX 447	89.5	78.1	57.3	36
USG 3013	88.2	75.8	57.5	36
Progeny 125	88.1	74.2	59.1	35
AR01040-4-1	87.4	84.9	58.8	42
Progeny PGX 13-2	87.2		60.7	31
Dyna-Gro Yorktown	87.1	77.4	58.5	36
Armor ARX1336	86.3		61.6	38
Armor ARX1313	86.3		57.4	34
Dixie Bell 7880	86.1	75.2	59.2	40
Armor Havoc	85.7	78.9	58.9	34
Syngenta SX103	85.4		62.0	35
Armor Octane	84.9	71.5	56.1	37
Terral LA 754	84.9	78.9	60.2	35
Armor ARX1332	84.4		60.9	29

Table 5. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	Test Weight (lbs/bu)	Plant Height (in.)
USG 3523	84.0	75.8	58.8	34
Dyna-Gro 9171	84.0	76.9	59.6	34
Syngenta SX102	84.0		61.1	39
Dyna-Gro 9012	84.0	78.3	61.0	33
Pioneer 26R10	83.9	73.1	57.3	34
LA03200E-2	83.9	76.8	59.1	36
Armor ARX1325	83.8		58.2	35
AGS 2035	83.7	74.0	57.0	37
Syngenta SY Harrison	83.6	81.3	59.0	34
AR00343-5-1	83.0	76.2	58.9	37
Deltagrow 720X	82.9		57.9	34
GA-041052-11E51	82.6		57.3	34
Dyna-Gro WX13622	82.5		58.5	32
Pioneer 26R87	82.4	79.5	60.7	33
Progeny 870	82.4	72.0	59.4	34
Dixie McAlister	82.1	79.0	58.3	33
Dixie DXEX 13-3	82.0	76.4	57.9	33
Dixie Glory	82.0		56.2	34
AgriMAXX 413	81.7	79.6	59.2	34
Deltagrow 9700	81.6	71.2	57.6	34
AgriMAXX Exp 1465	81.5		58.4	31
Deltagrow 7200	80.8	76.3	58.6	35
USG 3833	80.5	76.6	57.3	36
AgriMAXX 415	80.5	79.8	61.1	36
USG 3438	80.4	75.5	59.4	33
Dixie DXEX 14-2	80.3		58.0	35
USG 3201	80.3	72.9	60.8	36
Armor ARX1339	79.7		60.7	36
Terral TV 8535	79.3	74.5	59.2	34
NC09-22402	78.2		57.4	33
Dyna-Gro 9373	78.1		54.2	38
Deltagrow 7500	78.1	72.4	58.7	32
LCS L-Brand448	78.1		57.8	33
Terral TV 8848	77.8	73.1	57.5	38
Progeny 185	77.7	63.7	61.3	37
Pembroke 2008	77.5		60.7	36
Syngenta Oakes	77.1	75.0	58.6	37
LA05130D-P5	76.9		59.4	35
LA03200E-23	76.7		60.4	36
USG 3251	76.6	74.2	57.3	35
AGS 2040	76.2	73.3	61.4	35
Deltagrow 7100	75.1		56.9	32
AR04002-3	74.9		57.3	36
Armor ARX1329	74.8		59.0	38
Progeny PGX 13-1	74.7		57.2	33
Dixie Bell 8980	73.9		58.4	36
AR01044-1-1	73.9		59.6	34
TXGA04417-11E21	73.4		56.8	34
Terral TV 8525	73.0	68.6	60.2	34

Table 5. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	Test Weight (lbs/bu)	Plant Height (in.)
LCS L-Brand343	72.7	74.2	54.1	32
USG 3993	72.2	60.0	56.9	34
Dixie Bell 412	70.5	67.7	55.8	35
Syngenta SY Cypress	69.5		60.8	34
AR04008-5	69.0		60.0	41
LA05032D-136	67.4		58.1	37
GA-041293-11E54	67.3		56.7	35
Terral LA 841	66.9		57.1	34
GA-041293-11LE37	66.5		56.4	34
ARGA04510-11LE24	66.5		55.2	37
Progeny PGX 13-4	65.5		55.9	36
Deltagrow 2100	65.3		57.0	38
Pioneer 26R20	65.2	65.9	57.0	35
GA-04434-11E44	64.8		53.2	33
USG 3024	64.2		55.0	33
Progeny 117	63.6	57.4	60.4	38
Progeny 357	63.4	59.0	52.7	33
Jamestown	61.4	65.2	61.8	34
AGS 2038	58.5	67.9	50.1	39
Mean	79.9	74.8	58.4	34.6
LSD (5%)	15.8		2.8	3.7
CV (%)	10.1		2.5	5.4

**STANDARD INPUT WHEAT TEST
ROHWER RESEARCH STATION, ROHWER, ARK.**

SOIL SERIES Herbert Silt Loam
 PREVIOUS CROP Soybeans
 PLANTING DATE..... November 11, 2013
 FERTILIZER..... 101.5 lb N/A, 24 lb S/A on March 13, 2014; 46 lb N/A on April 2, 2014.
 HERBICIDE..... 4.75 oz/A Osprey on March 21, 2014
 INSECTICIDE..... None
 HARVEST DATE June 5-6, 2014
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	-----Inches-----								
Rohwer	5.58	6.9	3.05	1.74	6.24	4.62	6.09	6.12	40.34
Rohwer Normal	4.50	5.60	6.70	3.40	5.50	5.20	3.50	4.70	39.10
Rohwer Departure	1.08	1.30	-3.65	-1.66	0.74	-0.58	2.59	1.42	1.24

Table 6. Performance of wheat cultivars in the standard input test, Rohwer.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging at Maturity (0-9)
Pioneer 26R41	101.0	95.7	94.8	55.4	4/25	5/29	34	1
Armor Vandal	99.1	95.6		55.1	4/26	5/30	35	1
USG 3201	98.8	94.4	96.2	56.4	4/26	5/30	35	2
Pioneer 26R53	98.7	92.4	95.0	56.1	4/26	5/30	35	1
Progeny 870	98.6	93.9	95.8	56.8	4/26	5/31	34	2
Armor Havoc	98.4	94.3	89.0	56.7	4/26	5/29	35	1
Deltagrow 720X	98.2			56.2	4/27	5/29	35	2
Armor ARX1332	98.1			55.8	4/26	5/31	32	1
USG 3404	98.1			54.8	4/27	5/31	37	1
Dyna-Gro 9171	98.1	89.2		56.4	4/24	5/28	37	2
Terral TV 8535	97.8	90.7	95.0	55.7	4/26	5/29	34	2
Terral TV 8848	97.6	90.9	90.7	54.5	4/27	6/1	37	2
AgriMAXX 413	97.5	97.0	96.5	56.5	4/25	5/29	36	2
AgriMAXX Exp 1444	97.5			55.6	4/27	6/1	38	1
LA03200E-23	97.2			56.8	4/24	5/30	35	1
USG 3438	97.1	93.8	93.8	55.8	4/25	5/28	37	2
AR01040-4-1	96.9	80.6		55.1	4/27	5/31	38	2
Terral TV 8861	96.8	92.2	90.2	52.9	4/27	5/30	36	2
Deltagrow 7200	96.7	94.2		55.8	4/25	5/30	35	2
Armor ARX1339	96.6			55.5	4/23	5/28	35	2
Dixie Bell 8980	96.6			54.2	4/27	6/1	36	1
Dyna-Gro 9223	96.5	89.6		55.9	4/27	5/31	37	2
Dixie Bell 7880	96.4	83.4		56.3	4/26	5/28	34	2
Progeny 125	96.4	62.7	66.1	56.7	4/24	5/29	35	1
AGS 2056	96.3	89.3	91.8	54.9	4/25	5/29	34	2
Armor ARX1327	96.3			54.2	4/28	5/31	35	1
Deltagrow 3200	96.2			54.6	4/26	5/31	32	1
Deltagrow 7500	96.2	93.7	96.2	55.4	4/26	5/29	35	1
Pioneer 26R20	96.1	89.8	95.9	54.8	4/26	5/30	35	3
Dixie McAlister	96.0	92.7	94.7	55.8	4/26	5/30	34	1

Table 6. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging at Maturity (0-9)
Armor ARX1325	95.8			54.9	4/27	5/30	35	1
Syngenta SY Harrison	95.7	91.5	94.9	54.2	4/26	5/30	36	2
ARGA04510-11LE24	95.7			57.7	4/26	5/28	34	1
USG 3013	95.6	93.2		54.9	4/26	5/31	38	2
Dixie Extreme	95.3	91.8		54.7	4/27	5/30	39	2
Jamestown	95.3	69.6	76.3	55.7	4/23	5/28	33	1
Armor ARX1313	95.3			54.9	4/26	5/28	34	1
Dixie Bell 620	95.2	94.0	95.3	54.7	4/26	5/31	34	3
AgriMAXX 415	95.1	94.0	95.1	54.8	4/25	5/29	35	1
Progeny PGX 13-2	95.1			55.5	4/26	5/29	34	1
LA03200E-2	95.0	74.8		54.9	4/25	5/31	34	1
Armor ARX1329	94.9			54.3	4/25	5/29	37	3
Terral TV 8525	94.9	87.6	88.7	55.7	4/23	5/28	36	2
NC09-22402	94.8			55.2	4/27	5/31	36	1
GA-041293-11E54	94.8			56.2	4/24	5/28	35	1
LCS L-Brand448	94.8			54.2	4/27	5/30	37	3
Dyna-Gro Yorktown	94.7	69.5	80.0	53.4	4/26	5/30	34	1
USG 3523	94.6	86.8		57.4	4/25	5/31	36	2
AR00343-5-1	94.6	80.1		53.8	4/27	5/31	37	3
Progeny 357	94.5	93.5	90.3	54.2	4/27	5/31	36	2
AR01044-1-1	94.4			56.4	4/25	5/30	35	2
Pioneer 26R10	94.4	90.9	90.5	54.6	4/26	5/30	37	1
AR04008-5	94.3			56.3	4/25	5/29	35	4
AR04002-3	94.3			55.2	4/24	5/31	36	3
Dixie DXEX 13-3	94.1	90.4		54.7	4/27	5/29	37	1
Deltagrow 9700	94.1	86.9		53.7	4/26	5/29	38	2
Progeny 185	94.0	75.4	77.0	54.7	4/26	5/29	38	3
AGS 2038	93.9	79.4	90.5	51.0	4/30	5/31	40	1
Pioneer 26R87	93.9	74.7	83.7	56.3	4/23	5/30	33	1
Syngenta SX102	93.9			54.6	4/25	5/30	37	2
Deltagrow 2100	93.8			54.4	4/25	5/30	37	4
Syngenta Oakes	93.7	84.2	87.7	55.5	4/25	5/29	36	4
AgriMAXX Exp 1465	93.3			54.5	4/26	5/30	34	1
Armor Octane	93.3	89.6		50.9	4/30	6/2	36	1
TXGA04417-11E21	93.3			57.4	4/25	5/28	35	1
Progeny PGX 13-4	93.2			52.0	4/30	5/31	36	1
GA-041052-11E51	93.1			54.4	4/25	5/30	36	2
Dixie DXEX 14-2	93.1			51.4	4/28	6/1	38	1
USG 3833	93.1	89.9		52.1	4/29	5/30	36	1
Dixie Bell 412	93.0	92.8	93.6	52.5	4/27	5/31	36	2
GA-04434-11E44	92.9			54.8	4/26	5/30	33	1
GA-041293-11LE37	92.7			56.5	4/24	5/27	37	1
LA05130D-P5	92.7			54.4	4/25	5/28	36	2
Progeny 117	92.6	66.0	63.8	54.4	4/24	5/28	38	3
Deltagrow 7100	92.5			53.2	4/26	5/29	36	1
Syngenta SX103	92.3			56.1	4/24	5/29	37	1
Pembroke 2008	92.2			54.0	4/25	5/29	36	1

Table 6. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Lodging at Maturity (0-9)
Syngenta SY Cypress	92.1			55.4	4/24	5/31	35	2
Progeny PGX 13-6	91.9			55.4	4/27	5/29	38	1
Armor ARX1336	91.8			54.6	4/24	5/30	38	2
USG 3251	91.8	90.7		53.4	4/27	5/30	37	2
Dixie Glory	91.6			52.4	5/1	5/30	35	1
AGS 2040	91.4	59.0	65.6	57.0	4/25	5/27	35	1
USG 3024	91.3			55.2	4/23	5/27	36	2
AGS 2035	91.3	65.0	75.4	55.6	4/25	5/31	35	2
AGS 2057	91.2			50.7	4/29	5/30	36	1
AgriMAXX 447	91.0	87.1		50.9	4/29	5/31	37	1
Dyna-Gro WX13622	91.0			54.0	4/27	5/30	35	1
LA05032D-136	91.0			56.2	4/28	5/30	36	2
Terral LA 841	90.9			56.9	4/25	5/30	35	2
USG 3993	90.6	67.8		50.5	4/28	5/30	37	1
Terral LA 754	89.6	67.7	78.8	55.2	4/23	5/27	36	2
Dyna-Gro 9012	89.1	89.8	91.4	54.5	4/26	6/1	36	2
Progeny PGX 13-1	89.0			50.8	4/30	6/1	36	1
Dyna-Gro 9373	88.6			49.2	4/29	5/31	38	1
LCS L-Brand343	88.4	81.0		55.3	4/23	5/28	32	2
Mean	94.5	85.6	87.9	54.8	4/26	5/30	36	2
LSD (5%)	8.0			5.1	2	4	4	1
CV (%)	4.3			4.7	0	0	6	35

**STANDARD INPUT WHEAT TEST
RICE RESEARCH AND EXTENSION CENTER, STUTTGART, ARK.**

OIL SERIES Silt Clay Loam
 PREVIOUS CROP Fallow
 PLANTING DATE..... October 28, 2013
 FERTILIZER..... 90 units of N/A on Feb 28, 2014; 60 units of N/A on April 17, 2014
 HERBICIDE..... 0.6 oz/A of Harmony Extra, and 4.75 oz/A of Osprey on March 26, 2014
 INSECTICIDE..... None
 FUNGICIDE..... None
 HARVEST DATE June 25, 2014
 PRECIPITATION

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Total
	-----Inches-----								
Stuttgart	3.63	2.91	10.75	2.11	3.82	5.12	6.67	5.83	40.84
Stuttgart Normal	3.70	5.50	4.70	3.50	3.40	4.90	5.00	4.80	35.50
Stuttgart Departure	-0.07	-2.59	6.05	-1.39	0.42	0.22	1.67	1.03	5.34

Table 7. Performance of wheat cultivars in the standard input test, Stuttgart.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Leaf Rust (%)
Armor Octane	94.1	85.8		57.5	4/29	6/2	31.5	2
Terral TV 8848	92.1	82.2	77.4	58.6	4/29	6/2	31.5	5
Progeny PGX 13-6	91.7			57.3	4/30	6/2	30.0	4
AgriMAXX Exp 1444	90.1			58.5	4/28	6/2	32.5	6
AgriMAXX 447	89.1	84.6		57.0	5/1	6/2	32.0	1
Dyna-Gro WX13622	88.7			59.1	4/29	6/2	30.0	5
Armor ARX1325	88.1			58.4	4/29	6/1	29.5	6
USG 3404	88.1			56.3	4/29	6/2	31.0	5
USG 3833	87.9	82.0		57.7	4/29	6/2	32.5	2
USG 3993	87.0	76.3		55.6	5/1	6/6	31.5	1
Deltagrow 720X	86.9			57.6	4/30	6/3	31.0	6
AgriMAXX Exp 1465	86.2			59.6	4/29	6/1	28.0	5
USG 3201	86.1	83.1	80.7	59.4	4/28	6/1	29.5	0
USG 3251	85.8	82.3		57.2	4/29	6/1	30.5	11
Dyna-Gro 9171	85.6	81.8		58.3	4/28	6/1	28.0	0
Terral TV 8535	84.8	79.2	75.8	57.9	4/26	6/2	32.0	2
Armor ARX1327	84.7			57.7	4/30	6/1	30.5	4
Progeny 870	83.7	78.5	75.8	58.7	4/27	6/1	30.5	5
USG 3013	83.1	80.0		56.8	5/1	6/2	32.0	21
Progeny PGX 13-1	82.9			58.1	5/3	6/5	32.0	1
AGS 2057	82.2			60.5	4/29	6/1	32.5	0
Pioneer 26R10	81.6	75.9	72.7	58.8	4/30	6/1	28.5	16
USG 3523	80.9	79.0		57.6	4/29	6/1	29.5	21
Dixie Bell 7880	80.6	79.9		58.5	4/28	6/1	33.5	22
USG 3438	80.4	81.1	75.1	56.8	4/27	6/2	30.0	6

Table 7. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Leaf Rust (%)
Dixie Extreme	80.4	78.2		56.7	4/29	6/1	32.0	34
Pioneer 26R20	80.3	72.3	70.2	59.5	4/29	6/1	30.5	22
AGS 2056	80.2	71.7	69.4	59.4	4/27	6/2	29.0	3
Dixie McAlister	80.1	76.5	75.0	58.3	4/27	6/1	29.0	7
Armor ARX1329	80.0			58.3	4/27	6/1	30.5	2
Pioneer 26R41	79.8	76.1	72.1	58.8	4/29	6/1	28.0	2
Terral TV 8525	79.7	78.8	77.8	59.8	4/28	6/1	29.0	22
Dyna-Gro 9373	79.3			56.3	5/2	6/3	29.5	2
Syngenta SY Harrison	79.3	78.5	76.6	57.1	4/29	6/2	29.0	2
Progeny 357	79.3	73.6	70.3	57.2	5/1	6/1	29.0	7
AgriMAXX 413	77.9	77.1	74.0	57.8	4/29	6/2	29.0	0
Dixie Bell 620	77.8	78.6	76.0	56.8	4/30	6/1	28.0	24
Dyna-Gro 9012	77.4	78.3	74.3	59.9	4/30	6/2	28.5	8
ARGA04510-11LE24	77.2			58.6	4/30	6/1	30.0	0
Deltagrow 7500	77.0	72.1	70.9	58.5	4/27	6/1	29.0	4
Armor Havoc	76.9	77.6	76.1	59.2	4/29	6/1	29.5	7
Dyna-Gro 9223	76.5	74.1		57.5	5/1	6/2	31.5	8
Terral TV 8861	76.3	69.9	70.7	57.9	4/30	6/3	29.0	13
Armor Vandal	76.0	71.2		58.7	4/29	6/1	27.5	0
AgriMAXX 415	75.8	77.2	73.7	58.9	4/29	6/2	26.5	3
Progeny 185	75.3	70.4	69.1	58.4	4/26	6/1	31.0	2
Armor ARX1313	75.3			58.8	4/29	6/1	29.5	30
AR04002-3	74.9			59.3	4/27	6/2	30.0	2
Deltagrow 7200	74.6	72.5		57.3	4/28	6/1	27.5	18
Deltagrow 9700	74.4	69.6		56.6	5/1	6/2	30.5	20
Progeny PGX 13-4	74.3			56.4	5/4	6/5	30.0	0
AR04008-5	73.6			59.2	5/1	6/1	30.5	0
Pioneer 26R53	73.5	73.5	72.5	57.4	4/29	6/2	28.0	2
Dixie Bell 8980	72.9			57.4	4/30	6/2	30.0	5
LCS L-Brand448	71.6			57.3	5/1	6/2	29.0	0
Pembroke 2008	70.3			58.9	4/28	6/1	29.5	4
AR00343-5-1	70.2	73.5		58.6	5/3	6/2	31.5	2
Progeny PGX 13-2	70.1			57.2	4/28	6/1	26.5	2
AR01040-4-1	70.0	78.8		58.2	5/2	6/5	36.0	1
Dixie DXEX 13-3	69.8	73.7		58.3	4/29	6/1	31.5	8
Dixie Glory	69.7			56.4	5/1	6/3	31.0	1
Armor ARX1332	68.6			58.0	4/28	6/1	26.5	2
Syngenta Oakes	68.4	68.0	65.8	58.7	4/28	6/1	30.0	4
Dixie DXEX 14-2	67.9			57.4	5/2	6/8	33.0	0
Deltagrow 2100	67.2			58.1	4/28	6/1	28.5	4
Progeny 125	66.8	66.0	63.7	57.2	4/26	6/1	28.5	26
LA05130D-P5	65.9			59.0	5/1	6/5	26.5	4
Deltagrow 7100	65.0			57.5	5/1	6/2	28.5	2
Progeny 117	65.0	61.2	61.3	56.9	4/29	6/1	31.0	0
LA03200E-23	64.8			58.7	4/29	6/2	28.5	2
LA03200E-2	64.4	66.2		55.4	4/30	6/1	26.5	2
AR01044-1-1	64.3			58.0	4/28	6/1	29.5	6
Armor ARX1336	63.8			57.7	4/28	6/1	27.5	8
Syngenta SX103	63.6			58.6	4/28	6/2	28.0	0

Table 7. Continued.

Entry Name	Yield (bu/A)	2-year Average (bu/A)	3-year Average (bu/A)	Test Weight (lbs/bu)	Head Date	Maturity Date	Plant Height (in.)	Leaf Rust (%)
Dixie Bell 412	62.7	69.3	66.8	58.4	5/3	6/1	28.0	11
Deltagrow 3200	62.7			57.3	4/29	6/1	26.0	2
Syngenta SX102	62.3			59.1	4/28	6/2	30.5	3
Armor ARX1339	60.7			58.5	4/28	6/1	26.5	2
NC09-22402	60.3			57.4	5/4	6/8	28.0	1
GA-041293-11LE37	60.1			57.8	5/1	6/5	23.5	0
GA-041293-11E54	60.0			56.8	4/29	6/1	26.5	1
TXGA04417-11E21	57.9			57.4	5/1	6/1	24.5	0
Terral LA 841	56.5			59.8	4/30	6/1	27.0	2
AGS 2038	56.2	61.6	63.7	56.9	5/3	6/7	31.5	0
Syngenta SY Cypress	54.8			59.1	4/29	6/2	28.5	1
Terral LA 754	54.1	64.3	64.2	59.2	5/2	6/1	27.5	0
Dyna-Gro Yorktown	51.0	62.3	63.2	57.8	5/1	6/3	29.5	2
USG 3024	50.8			56.5	4/29	6/1	26.5	2
Pioneer 26R87	50.7	56.1	57.7	57.5	4/29	6/1	26.5	0
Jamestown	49.5	55.2	56.4	60.1	4/27	6/1	24.5	1
AGS 2040	49.0	53.0	53.9	60.5	4/28	6/1	27.0	0
LA05032D-136	48.0			58.7	5/4	6/2	30.0	1
GA-041052-11E51	47.6			55.9	4/29	6/4	27.5	0
LCS L-Brand343	45.3	52.5		58.8	5/1	6/2	26.0	0
AGS 2035	43.8	49.5	54.2	55.6	5/2	6/8	29.5	0
GA-04434-11E44	43.7			58.0	5/5	6/8	25.0	0
Mean	72.1	72.9	69.6	58.0	4/29	6/2	29.3	5
LSD (5%)	14.1			3.3	3	2	2.9	19
CV (%)	9.9			2.9	1	0	4.9	186

**PARTICIPANTS AND ENTRIES
2013-2014 WHEAT VARIETY TEST**

<u>Company</u>	<u>Variety</u>
AgriMaxx Wheat Company 7167 Highbanks Road Mascoutah, IL 62258	AgriMAXX 413 AgriMAXX 415 AgriMAXX 447 AgriMAXX EXP1444 AgriMAXX EXP1465
AG South Genetics P.O. Box 72246 Albany, GA 31708-2246	AGS 2035 AGS 2038 AGS 2040 AGS 2056 AGS 2057
Armor Seed P.O. Box 178 Fisher, AR 72429	Armor Havoc Armor Octane Armor Vandal Armor ARX1313 Armor ARX1325 Armor ARX1327 Armor ARX1329 Armor ARX1332 Armor ARX1336 Armor ARX1339
B & S Seed Company, Inc. 1283 HWY. 444 Duncan, MS 38740	Dixie Bell 412 Dixie Bell 620 Dixie Bell 7880 Dixie Bell 8980
Cache River Valley Seed, LLC P.O. Box 10 Cash, AR 72421	Dixie Extreme Dixie McAlister Dixie DXEX13-3 Dixie Glory Dixie DXEX14-2

PARTICIPANTS AND ENTRIES, Continued.

<u>Company</u>	<u>Variety</u>
Delta Grow Seed 220 NW 2nd Street England, AR 72046	Deltagrow 2100 Deltagrow 3200 Deltagrow 7100 Deltagrow 7200 Deltagrow 720X Deltagrow 7500 Deltagrow 9700
Dyna-Gro Seed 6221 Riverside Dr. Suite One Dublin, OH 43017	Dyna-Gro 9012 Dyna-Gro 9171 Dyna-Gro 9223 Dyna-Gro 9373 Dyna-Gro WX13622 Dyna-Gro Yorktown
Limagrain Cereal Seeds 4846 E 450N Lafayette, IN 47905	LCS L-Brand 343 LCS L-Brand 448
Pioneer Hi-Bred Int'l, Inc. 700 Boulevard South Ste. 302 Huntsville, AL 35802	Pioneer 26R20 Pioneer 26R10 Pioneer 26R41 Pioneer 26R53 Pioneer 26R87
Progeny Ag Products 1529 Hwy 192 South Wynne, AR 72396	Progeny 117 Progeny 125 Progeny 185 Progeny 357 Progeny 870 Progeny PGX 13-1 Progeny PGX 13-2 Progeny PGX 13-4 Progeny PGX 13-6

PARTICIPANTS AND ENTRIES, Continued.

<u>Company</u>	<u>Variety</u>
Syngenta Seed 778 CR 680 Bay, AR 72411	Syngenta Oakes Syngenta SY Cypress Syngenta SX102 Syngenta SX103 Syngenta SY Harrison
Terral Seed, Inc. P.O. Box 826 Lake Providence, LA 71254	Terral LA 754 Terral LA 841 Terral TV 8525 Terral TV 8535 Terral TV 8848 Terral TV 8861
UniSouth Genetics, Inc. 2640-C Nolensville Road Nashville, TN 37211	USG 3013 USG 3024 USG 3201 USG 3251 USG 3404 USG 3438 USG 3523 USG 3833 USG 3993

Public Institutions

Variety

Kentucky Small Grain Growers Association
P.O. Box 90
Eastwood, KY 40018

Pembroke 2008

Louisiana State University
Agronomy Department
221 M.B. Sturgis Hall
Baton Rouge, LA 70803-2110

LA03200E-2
LA03200E-23
LA05032D-136
LA05130D-P5

North Carolina State University
840 Unit Method Rd, Unit 3
Raleigh, NC 27695

NC09-22402

Texas A&M Agrilife Research
2600 S Neal
Commerce, TX 75429

TXGA04417-11E21

University of Georgia
1109 Experiment St.
Griffin, GA 30223

GA-041052-11E51
GA-041293-11E54
GA-041293-11LE37
GA-04434-11E44

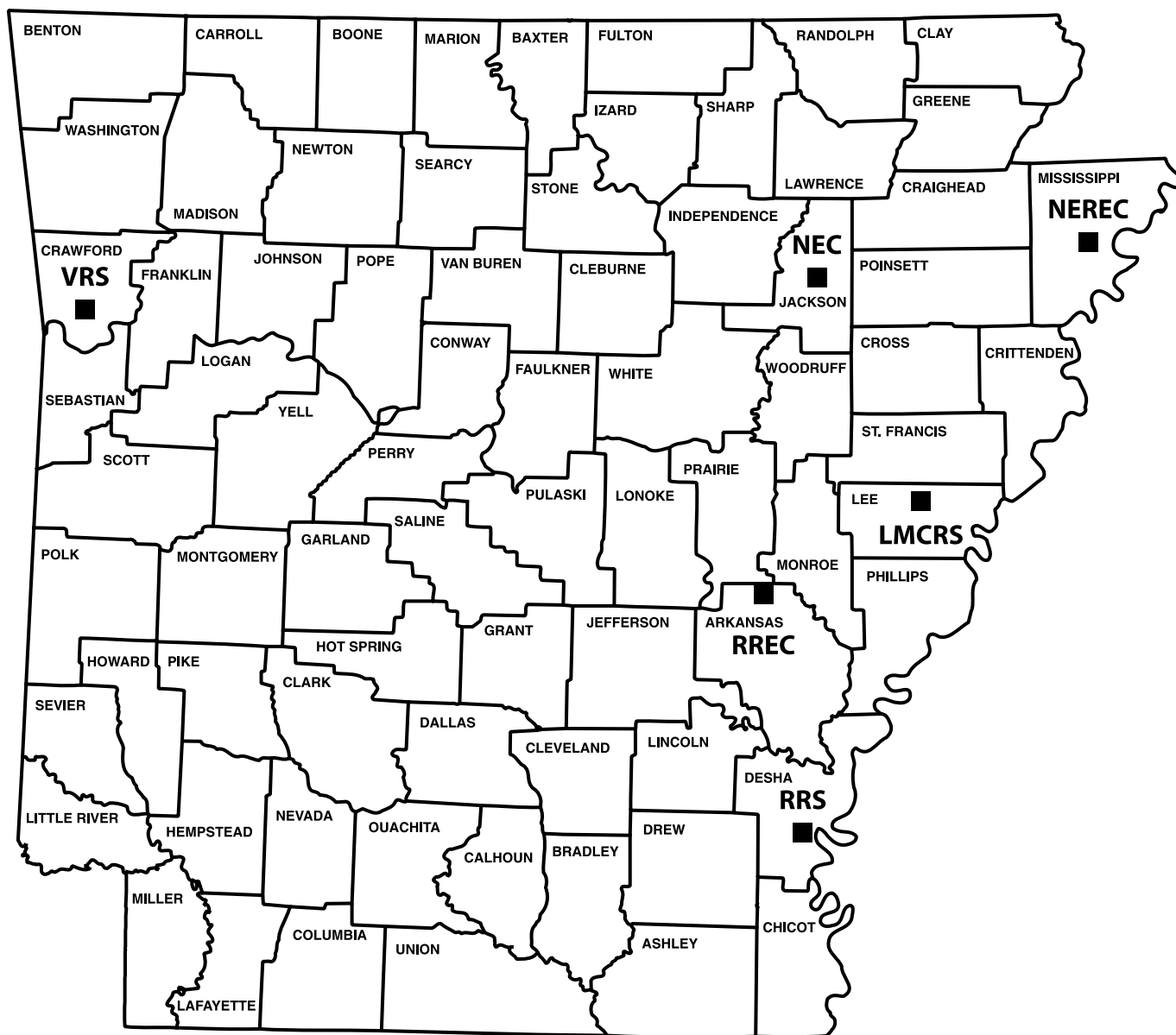
University of Arkansas
115 Plant Sciences Building
Fayetteville, AR 72701

AR04002-3
AR04008-5
AR00343-5-1
AR01040-4-1
AR01044-1-1
ARGA04510-11LE24

VA Tech EVAREC
2229 Menokin Road
Warsaw, VA 22572

Jamestown

WHEAT TEST LOCATIONS



- LMCRS** - Lon Mann Cotton Research Station, Marianna
- NEC** - Newport Extension Center, Newport
- NEREC** - Northeast Research and Extension Center, Keiser
- RREC** - Rice Research and Extension Center, Stuttgart
- RRS** - Rohwer Research Station, Rohwer
- VRS** - Vegetable Research Station, Kibler

UofA

DIVISION OF AGRICULTURE

RESEARCH & EXTENSION

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