



Wheat Update 2015



ARKANSAS WHEAT PERFORMANCE TRIALS AND VARIETY SELECTION

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Wheat performance trials were conducted during the 2014-2015 growing season by the Arkansas Wheat Variety Testing Program under the direction of Dr. Esten Mason to provide information about yield potential, agronomic characteristics, and disease reaction of commercially available varieties of wheat. Variety selection is important for successful wheat production. This publication is a summary of the Arkansas Wheat Variety Testing Program results and is designed to help producers select adapted, high-yielding, and disease-resistant varieties.

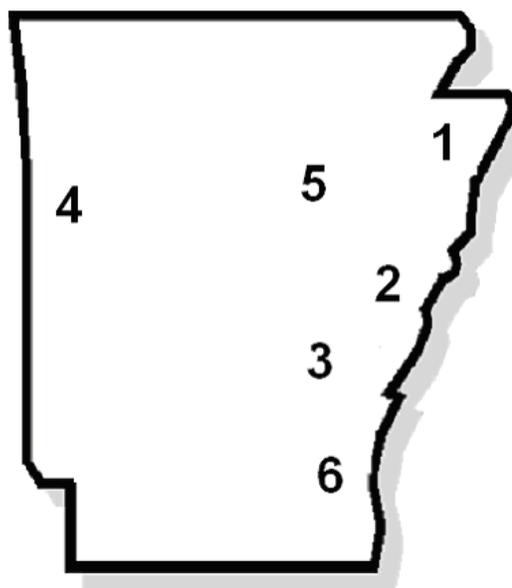


FIGURE 1. LOCATIONS OF ARKANSAS WHEAT PERFORMANCE TESTS

- 1 – Northeast Research and Extension Center, Keiser – Sharkey Silty Clay
- 2 – Lon Mann Cotton Research Station, Marianna – Loring Silt Loam
- 3 – Rice Research and Extension Center, Stuttgart – Crowley Silt Loam
- 4 – Vegetable Substation, Kibler – Roxanna Silt Loam
- 5 – Newport Station – Beulah Fine Sandy Loam
- 6 – Southeast Branch Station, Rohwer – Herbert Silt Loam

Methods

Wheat varieties and experimental lines were entered by seed companies and public institutions and evaluated for an unbiased comparison of their performance. In general, recommended cultural practices for wheat production in Arkansas were used. All locations were planted between October 25th and November 2nd into conventionally tilled seedbeds using small plot planters.

Each trial consisted of 108 varieties and experimental lines replicated four times in a randomized complete block design. A seeding rate of 105 lb/A was used for all varieties at each location, with the exception Keiser which was 82 lb/A. Recommended weed control practices were used as needed. Plots were harvested with a small plot combine to determine yields, which were adjusted to 13 percent moisture.

For further details concerning methods, consult the *Small-Grain Cultivar Performance Tests 2014-15*, Arkansas Agricultural Experiment Station, located at www.arkansasvarietytesting.com.

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Wheat yields of commercially available varieties from the 2014-2015 growing season are reported in Table 1. Yields in some trials were reduced by wet weather from February through May. Stripe rust was heavy on susceptible varieties leading to large differences in yield between stripe rust resistant and susceptible varieties. None of the trials had a foliar fungicide applied for disease control. Fusarium head blight (scab) was very noticeable in the trial at Marianna and variety maturity had a large role in how much head blight was present (Table 4). In general, early heading varieties had more fusarium head blight than later heading varieties. Leaf rust appeared late in the season at heavy levels on susceptible varieties. The Arkansas state average wheat yield was estimated at 53 bu/acre this year, down from 63 bu/acre the previous year.

Two and three year average yields are reported in Tables 2 and 3. Multiple years of yield data should provide a better indicator of how a variety will perform compared to just one year. Not all locations have data available for three year average yields. Disease reactions from 2015 from commercially available varieties are listed in Table 4. In 2015, only stripe rust, leaf rust, and fusarium head blight (scab) ratings were obtained. Some varieties have not been tested in Arkansas long enough to obtain reliable ratings for each disease. Agronomic data such as test weight, plant height, lodging, heading date, and relative maturity for selected varieties tested in 2014-2015 are found in Table 5.

Variety Selection

Variety selection is an important management decision in wheat production. There are many factors that producers should consider when evaluating potential wheat varieties in addition to yield potential. Genetic diversity is very important as no single variety will be the best performer every year. Planting more than one variety with differing maturity is the best way to spread risks. Always look at two and three-year average yields rather than yield from any particular season (See Tables 2 and 3) to get a better understanding of the varieties' performance. In addition to yield, the following characteristics should be evaluated:

Disease Resistance

Stripe rust resistance is very important for Mid-South wheat producers to consider. Foliar fungicides can help control stripe rust, but can add additional production expense that could be avoided with a variety that is resistant to stripe rust. Varieties that are rated susceptible may need more than one fungicide application to control stripe rust if conditions are conducive for disease development. Leaf rust and fusarium head blight resistance should also be considered when choosing wheat varieties. Foliar disease ratings taken in the spring of 2015 are found in Table 4.

Maturity

Variety maturity is a very important factor to consider when selecting varieties. Producers should select several different varieties with differing maturity to reduce risks for a late spring freeze. Early maturing varieties typically should not be planted early in the planting season. These varieties do not have as much of a vernalization requirement as later maturing varieties and can begin jointing very early in the spring, which increases the likelihood of freeze injury from a late spring freeze. Late maturity varieties require a greater vernalization period and generally do not begin to joint as quickly as early maturing varieties. An ideal planting order by maturity would be to plant late maturity varieties first, medium maturity varieties second and early maturing varieties last. Planting varieties with differing maturity may help spread out harvest operations so that wheat can be harvested when ready. An estimated maturity rating based on heading date can be found in Table 5.

Test Weight

Many producers experienced low test weight wheat in 2014 and 2015 as a result of excessive rainfall and or delayed harvest. Harvesting wheat timely is important for high test weight wheat. Some varieties have characteristically higher test weights than others. When environmental conditions cause poor test weights, varieties with high test weight potential usually have heavier test weights than other varieties. Selecting a variety with a good test weight can reduce the likelihood of having dockage due to low test weight wheat. Differences in test weight of 3 to 4 lbs/bu between varieties is not uncommon.

Lodging Resistance

Lodging resistance is important to prevent yield losses and to allow for efficient harvest. Variety, nitrogen rate, and seeding rate all have an impact on lodging. Varieties with low lodging scores and high yields are preferred. Lodging ratings taken in 2015 are shown in Table 5.

Insect Resistance

Hessian fly has been a problem in scattered fields in central and northeast Arkansas in previous years. There are several biotypes of Hessian fly, but the predominant biotype of the Hessian fly present in Arkansas is Biotype 'L'. Delayed planting is a recommended practice for avoiding Hessian fly problems. Contact your county Extension office for further management information regarding Hessian fly management.

Table 1. Arkansas Wheat Performance Trials Summary at Five Locations in 2014-2015.

	Keiser	Kibler	Marianna	Rohwer	Stuttgart	Delta Avg.*
Variety/Brand Name	-----Standard Input Yield (bu/a)-----					
AgriMAXX 413	55.8	45.1	91.6	97.2	63.5	77.0
AgriMAXX 415	63.1	41.9	88.7	89.3	61.5	75.6
AgriMAXX 438	37.9	38.9	86.4	76.4	59.4	65.0
AgriMAXX 444	53.3	34.1	89.4	89.2	52.0	71.0
AgriMAXX 446	52.9	43.3	92.6	86.0	51.8	70.8
AgriMAXX 447	50.8	40.0	92.0	94.1	60.7	74.4
AGS 2027	25.9	27.3	69.0	60.7	17.6	43.3
AGS 2035	52.3	38.4	64.8	64.2	16.2	49.4
AGS 2038	55.2	49.3	76.6	77.3	43.8	63.2
AGS 2040	33.4	35.3	71.5	57.6	22.3	46.2
Armor Havoc	61.1	29.7	88.7	94.6	63.8	77.0
Armor Vandal	64.2	60.0	92.9	92.7	60.5	77.6
Delta Grow 2700	55.1	43.1	84.8	77.9	50.4	67.1
Delta Grow 3000	33.1	36.6	78.6	76.2	75.5	65.9
Delta Grow 3200	54.3	47.2	92.6	93.3	58.3	74.6
Delta Grow 9700	36.0	31.6	80.8	79.2	62.2	64.5
Dixie Xtreme	42.4	37.3	84.6	86.7	58.1	67.9
Dixie Kelsey	58.3	46.1	90.0	90.5	57.0	73.9
Dixie McAlister	61.5	40.7	92.3	91.1	61.1	76.5
Dixie Bell 500	50.7	40.6	89.8	92.9	60.3	73.4
Dixie Bell 620	41.2	41.2	86.9	85.3	57.3	67.7
Dixie Bell 7880	38.1	22.8	78.0	84.3	55.8	64.0
Dyna-Gro 9012	45.4	42.9	90.9	92.0	57.0	71.3
Dyna-Gro 9171	48.0	44.8	90.4	92.1	55.6	71.5
Dyna-Gro 9223	36.2	38.1	80.2	77.0	53.7	61.8
Dyna-Gro 9522	45.7	43.1	88.0	92.2	52.4	69.6
Dyna-Gro 9552	55.1	32.9	93.1	84.3	56.2	72.2
Dyna-Gro 9591	38.1	42.4	79.0	79.4	45.8	60.6
GW2056	51.4	42.6	91.6	85.9	63.3	73.1
GW2057	44.2	22.5	75.1	76.0	56.8	63.0
GW2058	51.4	45.5	92.1	97.2	59.7	75.1
LCS1171	11.8	15.3	64.3	59.4	32.4	42.0
LCS2347	47.5	12.5	53.1	63.3	58.7	55.6
LCS3211	28.7	25.1	69.8	62.0	34.0	48.6
Pat	43.9	28.8	73.9	64.4	57.1	59.8
Pioneer 26R10	47.2	51.3	90.4	88.2	56.0	70.4
Pioneer 26R41	67.6	55.8	91.8	88.1	52.1	74.9
Pioneer 26R53	49.4	49.3	94.1	99.5	50.6	73.4
Pioneer 26R87	52.7	45.0	78.1	66.4	34.5	57.9
Progeny 117	45.5	16.0	52.0	57.6	38.4	48.4
Progeny 125	40.5	5.6	50.1	57.3	42.8	47.6
Progeny 357	23.6	28.9	66.8	67.9	49.4	51.9
Progeny 410	26.2	6.8	53.2	51.9	48.3	44.9
Progeny 870	53.1	35.5	91.5	87.6	60.3	73.1
Syngenta Oakes	28.1	32.2	83.3	85.5	45.3	60.5

Table 1. Continued. Arkansas Wheat Performance Trials Summary at Five Locations in 2014-2015.						
	Keiser	Kibler	Marianna	Rohwer	Stuttgart	Delta Avg.*
Variety/Brand Name	-----Standard Input Yield (bu/a)-----					
Syngenta SY Cypress	38.8	41.5	70.0	63.3	44.5	54.2
Syngenta SY Harrison	50.3	48.0	87.1	81.3	63.8	70.6
Syngenta SY Viper	49.0	39.4	89.7	89.9	42.6	67.8
Terral LA754	44.1	41.0	68.2	67.5	34.5	53.6
Terral LA841	24.5	44.8	64.4	54.1	36.9	44.9
Terral TV8848	45.2	42.4	85.2	77.7	61.8	67.5
Terral TV8861	45.7	41.5	86.4	99.8	56.1	72.0
USG 3013	46.4	40.8	84.6	85.3	53.7	67.5
USG 3201	55.5	43.0	91.8	86.7	56.1	72.5
USG 3225	55.3	49.6	74.2	60.8	29.7	55.0
USG 3251	49.4	49.6	86.8	76.2	60.0	68.1
USG 3404	43.6	41.7	86.8	81.6	49.8	65.4
USG 3438	53.1	43.4	93.6	91.3	58.4	74.1
USG 3523	58.7	43.7	83.1	90.5	50.5	70.7
USG 3833	45.6	31.9	88.2	80.1	51.7	66.4
VA Hilliard	57.2	48.9	89.8	88.0	50.0	71.2
Mean	45.1	38.7	81.2	79.1	49.4	63.8
LSD (0.05)	10.8	15.2	7.1	13.1	10.8	---

*Delta average is calculated from Keiser, Marianna, Rohwer, and Stuttgart locations

Table 2. Two-Year Average Yields (Bu/a) in Arkansas Wheat Performance Trials at Six Locations (2014-15).

Variety/Brand Name	Keiser	Kibler	Marianna	Newport*	Rohwer	Stuttgart	Delta Avg.**
AgriMAXX 413	60.8	69.0	93.3	79.6	97.4	70.7	80.4
AgriMAXX 415	68.5	64.7	92.4	79.8	92.2	68.6	80.3
AgriMAXX 444	64.8	69.4	96.7	---	93.4	71.1	81.5
AgriMAXX 446	59.2	69.7	96.3	---	89.6	69.0	78.5
AgriMAXX 447	53.1	66.2	97.0	78.1	92.5	74.9	79.1
AGS 2035	50.6	69.0	80.4	74.0	77.7	30.0	62.5
AGS 2038	51.0	66.9	84.8	67.9	85.6	50.0	67.9
AGS 2040	39.0	59.9	79.2	73.3	74.5	35.6	60.3
ARGA04510-11LE24	63.2	72.2	95.2	---	94.2	64.1	79.2
Armor Havoc	59.4	62.8	93.9	78.9	96.5	70.3	79.8
Armor Vandal	67.2	75.4	97.9	84.7	95.9	68.2	82.8
Delta Grow 2700	62.0	68.1	91.4	---	88.1	68.7	77.6
Delta Grow 3200	59.0	69.1	96.8	---	94.8	60.5	77.8
Delta Grow 9700	53.8	66.1	91.4	71.2	86.6	68.3	74.3
Dixie Xtreme	53.5	68.2	90.8	82.0	91.0	69.2	77.3
Dixie McAlister	66.3	69.6	95.7	79.0	93.5	70.6	81.0
Dixie Bell 620	53.9	68.9	93.4	81.9	90.2	67.6	77.4
Dixie Bell 7880	47.6	56.0	88.0	75.2	90.3	68.2	73.9
Dyna-Gro 9012	57.5	68.6	95.9	78.3	90.5	67.2	77.9
Dyna-Gro 9171	62.0	70.7	94.7	76.9	95.1	70.6	79.9
Dyna-Gro 9223	53.5	69.3	90.1	79.7	86.8	65.1	75.0
Dyna-Gro 9522	54.1	67.9	96.5	---	91.6	70.5	78.2
GW2056	54.1	72.1	94.8	---	91.1	71.8	78.0
GW2057	55.3	57.3	89.6	---	83.6	69.5	74.5
Pioneer 26R10	56.4	73.5	92.7	73.1	91.3	68.8	76.5
Pioneer 26R41	66.6	79.0	95.4	81.5	94.5	66.0	80.8
Pioneer 26R53	55.9	69.8	94.6	80.4	99.1	62.0	78.4
Pioneer 26R87	50.4	68.9	86.5	79.5	80.2	42.6	67.8
Progeny 117	51.8	52.8	69.0	57.4	75.1	51.7	61.0
Progeny 125	48.1	51.7	71.5	74.2	76.8	54.8	65.1
Progeny 357	49.6	55.9	76.9	59.0	81.2	64.3	66.2
Progeny 870	63.6	65.4	98.3	72.0	93.1	72.0	79.8
Syngenta SY Cypress	48.4	66.3	80.5	---	77.7	49.7	64.1
Syngenta SY Harrison	58.5	75.3	94.0	81.3	88.5	71.5	78.8
Syngenta Oakes	47.4	57.3	86.6	75.0	89.6	56.9	71.1
Terral LA754	46.4	64.8	80.6	78.9	78.5	44.3	65.7
Terral LA841	35.5	63.6	73.2	---	72.5	46.7	57.0
Terral TV8848	58.4	68.4	95.1	73.1	87.6	77.0	78.2
Terral TV8861	53.3	68.1	93.7	83.4	98.3	66.2	79.0
USG 3013	62.1	68.3	91.3	75.8	90.5	68.4	77.6
USG 3201	64.7	67.5	91.4	72.9	92.7	71.1	78.6
USG 3251	54.9	71.7	90.9	74.2	84.0	72.9	75.4
USG 3404	52.5	69.2	94.9	---	89.8	68.9	76.5
USG 3438	61.5	69.9	98.8	75.5	94.2	69.4	79.9

Table 2. Cont. Two-Year Average Yields (Bu/a) in Arkansas Wheat Performance Trials at Six Locations (2014-15).							
Variety/Brand Name	Keiser	Kibler	Marianna	Newport*	Rohwer	Stuttgart	Delta Avg.**
USG 3523	65.9	67.6	86.5	75.8	92.6	65.7	77.3
USG 3833	51.4	65.0	95.6	76.6	86.6	69.8	76.0
Mean	55.7	66.9	90.3	75.9	88.6	64.0	74.8

*Newport data from 2013 and 2014

**Delta average is calculated from Keiser, Marianna, Newport, Rohwer, and Stuttgart locations

Table 3. Three-Year Average Yields (Bu/a) in Arkansas Wheat Performance Trials at Five Locations (2013-15).

Variety/Brand Name	Keiser	Kibler	Marianna	Rohwer	Stuttgart	Delta Avg.*
AgriMAXX 413	70.3	74.2	91.2	97.1	72.6	82.8
AgriMAXX 415	76.8	70.0	87.9	92.4	72.0	82.3
AgriMAXX 447	61.9	67.3	93.4	89.4	76.6	80.3
AGS 2035	61.4	70.6	81.6	64.7	38.4	61.5
AGS 2038	61.8	68.6	85.3	78.7	55.7	70.4
AGS2040	51.6	59.3	81.3	58.5	42.8	55.6
Armor Havoc	72.1	70.2	91.1	94.4	73.0	82.7
Armor Vandal	75.7	76.5	94.9	94.6	67.6	83.2
Delta Grow 9700	65.7	65.1	90.8	84.4	67.1	77.0
Dixie Xtreme	67.5	70.3	89.1	90.1	71.5	79.6
Dixie McAlister	74.5	76.2	92.6	92.2	71.3	82.7
Dixie Bell 620	67.5	68.4	90.6	91.1	71.5	80.2
Dixie Bell 7880	60.8	65.1	87.3	83.7	71.9	75.9
Dyna-Gro 9012	69.0	75.0	92.0	90.5	71.2	80.7
Dyna-Gro 9171	70.7	77.2	90.7	90.2	73.1	81.2
Dyna-Gro 9223	61.3	71.3	89.5	85.4	67.3	75.9
GW2056	63.0	74.0	90.4	88.1	68.9	77.6
Pioneer 26R10	67.7	73.7	90.2	90.0	69.3	79.3
Pioneer 26R41	75.3	75.5	92.3	93.1	68.1	82.2
Pioneer 26R53	68.7	72.0	90.8	94.8	65.9	80.1
Pioneer 26R87	62.2	68.2	84.1	72.0	48.9	66.8
Progeny 117	59.3	55.4	68.3	63.2	53.6	61.1
Progeny 125	59.3	60.0	74.5	60.9	58.3	63.3
Progeny 357	59.3	65.7	75.3	84.9	65.5	71.3
Progeny 870	69.2	69.0	91.3	91.8	72.4	81.2
Syngenta SY Harrison	69.4	74.3	92.3	88.1	73.6	80.9
Syngenta Oakes	57.0	60.2	83.0	84.7	60.5	71.3
Terral LA754	53.8	65.9	84.5	67.6	54.4	65.1
Terral TV8848	65.9	71.8	92.6	86.5	75.4	80.1
Terral TV8861	63.3	69.4	87.9	94.7	65.3	77.8
USG 3013	70.8	67.9	91.7	90.6	71.2	81.1
USG 3201	74.0	73.5	91.1	91.9	74.1	82.8
USG 3251	67.1	70.9	89.2	85.9	74.9	79.3
USG 3438	70.7	72.4	96.5	93.0	73.5	83.4
USG 3523	75.2	69.6	85.4	88.1	69.5	79.6
USG 3833	62.5	65.2	90.3	86.6	71.9	77.8
Mean	66.0	69.5	87.9	85.0	66.5	76.4

*Delta average is calculated from Keiser, Marianna, Rohwer, and Stuttgart locations

Table 4. Disease Reactions of Commercially Available Wheat Varieties in Arkansas Performance Trials, 2014-2015.

	Stripe Rust	Leaf Rust	Fusarium Head Blight Severity (%)	Fusarium Head Blight Severity (%)	Fusarium Head Blight Severity (%)
Variety/Brand Name			Marianna	Newport	Fayetteville
AgriMAXX 413	R	MS	17	30	32
AgriMAXX 415	R	MS	17	23	28
AgriMAXX 438	R	S	20	28	32
AgriMAXX 444	R	MS	13	30	42
AgriMAXX 446	R	R	20	33	52
AgriMAXX 447	R	R	20	25	37
AGS 2027	R	R	90	83	72
AGS 2035	S	R	90	62	78
AGS 2038	R	R	57	48	80
AGS 2040	R	R	77	58	58
Armor Havoc	R	S	27	25	47
Armor Vandal	R	R	43	25	52
Delta Grow 2700	R	S	13	15	40
Delta Grow 3000	MS	R	33	25	38
Delta Grow 3200	R	R	23	30	60
Delta Grow 9700	R	S	27	28	27
Dixie Xtreme	R	S	27	25	30
Dixie Kelsey	R	MS	20	28	32
Dixie McAlister	R	S	17	37	33
Dixie Bell 500	R	R	10	18	40
Dixie Bell 620	R	MS	23	30	58
Dixie Bell 7880	S	R	20	27	38
Dyna-Gro 9012	R	MS	17	20	32
Dyna-Gro 9171	R	MS	10	35	40
Dyna-Gro 9223	R	S	23	25	32
Dyna-Gro 9522	R	MS	13	25	43
Dyna-Gro 9552	R	R	10	37	55
Dyna-Gro 9591	MS	R	10	32	62
GW2056	R	MS	10	43	28
GW2057	S	R	17	23	32
GW2058	R	MR	27	18	42
LCS1171	S	R	27	60	53
LCS2347	S	R	33	63	64
LCS3211	S	R	30	53	87
Pat	MR	MR	37	33	47
Pioneer 26R10	R	S	13	32	32
Pioneer 26R41	R	R	23	33	37
Pioneer 26R53	R	MS	27	38	42
Pioneer 26R87	R	R	87	90	38
Progeny 117	S	R	57	77	87
Progeny 125	S	R	60	57	80
Progeny 357	R	S	17	25	50
Progeny 410	S	R	40	62	87
Progeny 870	R	MS	10	27	23

Table 4. Disease Reactions of Commercially Available Wheat Varieties in Arkansas Performance Trials, 2014-2015.

Variety/Brand Name	Stripe Rust	Leaf Rust	Fusarium Head Blight Severity (%)	Fusarium Head Blight Severity (%)	Fusarium Head Blight Severity (%)
			Marianna	Newport	Fayetteville
Syngenta Oakes	MR	MR	43	42	28
Syngenta SY Cypress	MR	R	83	53	87
Syngenta SY Harrison	R	S	23	33	58
Syngenta SY Viper	R	MS	43	32	27
Terral LA754	MR	R	90	87	72
Terral LA841	R	R	90	95	92
Terral TV8848	R	S	17	20	35
Terral TV8861	R	S	17	27	35
USG 3013	R	S	23	23	32
USG 3201	R	MS	20	18	32
USG 3225	R	R	87	93	95
USG 3251	R	MR	10	30	40
USG 3404	R	S	17	28	40
USG 3438	R	S	13	25	38
USG 3523	R	MR	17	23	30
USG 3833	R	R	23	18	33
Mean	--	--	32	38	48
LSD (5%)	--	--	17	46	21

R = Resistant; MR = Moderately Resistant; MS = Moderately Susceptible; S = Susceptible.

Stripe and Leaf Rust Ratings were compiled from multiple sources in Arkansas during 2015.

Table 5. Agronomic Characteristics of Commercially Available Varieties in Arkansas Performance Trials, 2014-2015.

	Test Wt.	Lodging	Plant Ht	Heading	Maturity	Relative	Awned
<u>Variety/Brand Name</u>	<u>Lb/bu</u>	<u>0-9 scale</u>	<u>Inches</u>	<u>Date</u>	<u>Date</u>	<u>Maturity</u>	<u>Heads</u>
AgriMAXX 413	58.1	0.0	33	21-Apr	26-May	Medium	Yes
AgriMAXX 415	60.1	0.0	33	21-Apr	26-May	Medium	Yes
AgriMAXX 438	56.7	1.4	35	24-Apr	28-May	Late	No
AgriMAXX 444	58.4	0.0	33	23-Apr	28-May	Medium	Yes
AgriMAXX 446	59.1	0.1	33	22-Apr	28-May	Medium	Yes
AgriMAXX 447	57.4	0.8	34	24-Apr	29-May	Late	No
AGS 2027	56.6	1.3	29	20-Apr	24-May	Early	No
AGS 2035	57.9	0.3	34	20-Apr	28-May	Early	Yes
AGS 2038	56.0	2.5	37	24-Apr	29-May	Late	Yes
AGS 2040	58.8	0.0	30	20-Apr	24-May	Early	Yes
Armor Havoc	58.8	1.6	34	22-Apr	26-May	Medium	Yes
Armor Vandal	58.2	0.0	34	22-Apr	26-May	Medium	Yes
Delta Grow 2700	58.3	0.1	33	22-Apr	24-May	Medium	Yes
Delta Grow 3000	57.4	1.6	39	22-Apr	27-May	Medium	No
Delta Grow 3200	60.0	0.1	30	22-Apr	27-May	Medium	Yes
Delta Grow 9700	56.8	0.5	35	23-Apr	28-May	Medium	No
Dixie Xtreme	57.1	1.4	35	24-Apr	28-May	Late	No
Dixie Kelsey	59.9	0.0	33	22-Apr	26-May	Medium	Yes
Dixie McAlister	58.9	0.0	32	21-Apr	27-May	Medium	Yes
Dixie Bell 500	58.6	0.0	34	23-Apr	29-May	Medium	Yes
Dixie Bell 620	57.3	1.9	34	23-Apr	27-May	Medium	Yes
Dixie Bell 7880	58.0	0.1	36	23-Apr	29-May	Medium	No
Dyna-Gro 9012	59.3	0.4	34	22-Apr	26-May	Medium	Yes
Dyna-Gro 9171	58.4	0.9	33	21-Apr	27-May	Medium	Yes
Dyna-Gro 9223	56.3	1.0	34	23-Apr	27-May	Medium	No
Dyna-Gro 9522	58.2	0.1	34	23-Apr	27-May	Medium	Yes
Dyna-Gro 9552	58.8	0.1	33	23-Apr	28-May	Medium	Yes
Dyna-Gro 9591	59.4	0.3	33	21-Apr	27-May	Medium	Yes
GW2056	57.8	0.8	32	21-Apr	28-May	Medium	Yes
GW2057	59.7	0.1	35	23-Apr	28-May	Medium	Yes
GW2058	59.7	0.8	30	21-Apr	27-May	Medium	Yes
LCS1171	58.3	0.3	34	18-Apr	24-May	Early	No
LCS2347	58.8	3.0	36	22-Apr	27-May	Medium	No
LCS3211	57.3	4.5	34	23-Apr	27-May	Medium	No
Pat	59.5	0.1	36	25-Apr	28-May	Late	Yes
Pioneer 26R10	57.9	0.8	33	22-Apr	27-May	Medium	Yes
Pioneer 26R41	59.1	0.4	31	21-Apr	27-May	Medium	Yes
Pioneer 26R53	59.7	0.9	33	21-Apr	26-May	Medium	Yes
Pioneer 26R87	59.9	0.5	31	18-Apr	24-May	Early	Yes
Progeny 117	56.7	4.5	35	20-Apr	25-May	Early	No
Progeny 125	57.0	6.3	35	20-Apr	24-May	Early	No
Progeny 357	56.3	0.8	34	24-Apr	28-May	Late	Yes
Progeny 410	56.5	0.1	34	20-Apr	26-May	Early	No
Progeny 870	58.6	0.3	33	22-Apr	27-May	Medium	Yes
Syngenta Oakes	58.2	5.0	33	21-Apr	25-May	Medium	No

Table 5. Agronomic Characteristics of Commercially Available Varieties in Arkansas Performance Trials, 2014-2015.

	Test Wt.	Lodging	Plant Ht	Heading	Maturity	Relative	Awned
<u>Variety/Brand Name</u>	Lb/bu	0-9 scale	Inches	Date	Date	Maturity	Heads
Syngenta SY Cypress	58.4	1.3	32	19-Apr	27-May	Early	Yes
Syngenta SY Harrison	57.3	0.3	33	22-Apr	28-May	Medium	Yes
Syngenta SY Viper	58.7	3.9	36	20-Apr	26-May	Early	No
Terral LA754	57.8	2.4	33	20-Apr	25-May	Early	Yes
Terral LA841	57.5	1.1	32	21-Apr	24-May	Medium	Yes
Terral TV8848	57.8	3.3	35	23-Apr	28-May	Medium	Yes
Terral TV8861	58.9	0.8	33	24-Apr	28-May	Late	Yes
USG 3013	57.1	0.6	35	24-Apr	28-May	Late	No
USG 3201	60.0	0.3	34	22-Apr	27-May	Medium	Yes
USG 3225	58.3	0.0	32	19-Apr	25-May	Early	Yes
USG 3251	58.0	2.0	35	23-Apr	29-May	Medium	Yes
USG 3404	57.9	0.0	33	24-Apr	29-May	Late	Yes
USG 3438	58.7	0.0	32	22-Apr	28-May	Medium	Yes
USG 3523	58.0	0.1	34	23-Apr	28-May	Medium	Yes
USG 3833	57.6	1.1	35	24-Apr	28-May	Late	No
Mean	58.0	1.0	34	22-Apr	27-May	---	---

Test weight, lodging (0-9 scale with 0 having no lodging), plant height, heading date and maturity date are averages from all trials conducted during the 2014-15 growing season. Heading date is the average date that 50% of heads had emerged. Maturity date is the average date that 90% of the culms were yellow. Relative maturity rating is based on heading date.