

# 2019 Kentucky Small Grain

## VARIETY PERFORMANCE TEST

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[www.uky.edu/ag/WheatVarietyTest](http://www.uky.edu/ag/WheatVarietyTest)

The 2019 soft red winter wheat growing season ended with Kentucky farmers harvesting approximately 340,000 acres of the 450,000 acres planted, for a total production of 26.2 million bushels of grain. An average yield of 77 bushels per acre was estimated by NASS (Table 1). The acreage not harvested for grain was primarily used for cover cropping and forage production.

Small grain performance tests were conducted in six of the seven agroclimatic regions of Kentucky (Table 2). Agricultural areas within each region are considered to have similar soil types and climatic conditions. Each region having a substantial acreage of a small grain commodity had at least one trial conducted in that region for that commodity.

The objective of the Kentucky small grain variety performance test is to evaluate varieties of wheat, oat, barley, triticale, and cereal rye that are commercially available or may soon be available to Kentucky farmers. New varieties continually are being developed by agricultural experiment stations and commercial firms. Annual evaluation of small grain varieties and selections provides farmers, seed producers, and other agricultural workers with current information to help them select the varieties best adapted to their locality and individual requirements.

Because weather, soil, and other environmental factors may alter varietal performance from one location to another, seven wheat tests were conducted at seven locations throughout the state (Table 2). In addition, wheat tests for varietal differences in forage yield and straw yield were conducted at one location.

### Experimental Methods

A total of 83 wheat entries were evaluated under either conventional or no-till cultural practices. No-till tests were grown at one location, and conventional tests were grown at six locations. The experimental design was a randomized complete block. The tests had four replications per entry, and the data presented are the average response from the four replications.

The plots were planted with specially built multi-row conventional and no-till cone seeders. Conventional test plots consisted of six rows to form a plot 4 feet wide and 15 feet long, which was later trimmed to 12 feet in length. No-till plots consisted of

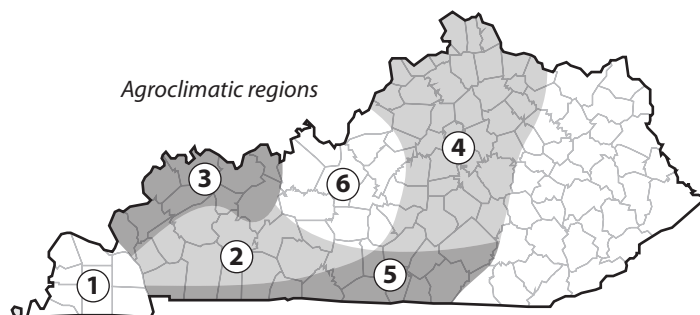
seven rows to form a plot 5 feet wide and 25 feet long, which was later trimmed to 20 feet in length. Plots were harvested with a small-plot combine. The preceding crop for all tests was corn.

Tests were conducted using intensive management practices. Typical herbicide applications included a spring application for broadleaf control and a fall preplanting burn-down (no-till tests only) application. Fungicides were applied in the spring on all but two (disease rating) tests. An insecticide for aphid control

**Table 1. Wheat Acreage Harvested and Yields (bu/ac) in Kentucky, 2017-19.\***

2019		2018		2017	
Harvested	Yield	Harvested	Yield	Harvested	Yield
340,000	77	300,000	66	310,000	77

\*June 12, 2019, National Agricultural Statistics Service.



**Table 2. Agroclimatic Regions of Kentucky Small Grain Variety Tests.**

Region	Location	Cooperator	Crop Tested	
1	Purchase	Fulton Co.	Henry Sanger	Wheat*
2	Western Coal Field	Caldwell Co.	Princeton Research and Education Ctr.	No-till wheat, barley
3	Ohio Valley	Crittenden Co.	Cody & Van Hunt	Wheat*
4	Bluegrass	Fayette Co.	Kentucky Ag. Exp. Station	Wheat*, Small Grains
5	Southern Tier	Logan Co.	Halcomb Farm	Wheat*
		Todd Co.	Tim, Wade and Maurice Chester	Wheat*
6	North Central	Woodford Co.	UK Woodford Farm Shannon Rudd	Wheat*

\* Conventional tillage.

was typically applied in the fall and spring. Nitrogen was applied in a February/March split application at a rate of approximately 30/60 pounds per acre (conventional tests) or 40/70 pounds per acre (no-till).

The forage test was planted using conventional tillage and was harvested using a small plot forage combine at the soft dough stage. Straw yield was measured using a small plot forage combine following grain harvest in the Bluegrass region test.

## Characteristics Evaluated

Grain yields were calculated from the weight of grain from each plot and reported in bushels per acre (bu/ac) based on 60-pound, 56-pound, 48-pound, and 32-pound standard bushel weights for wheat, cereal rye, barley, and oats, respectively, at 13.5 percent moisture content. Test weights (lb/bu) were determined using a HarvestMaster Classic GrainGage and adjusted to 13.5 percent moisture. Lodging was reported as the percentage of plant lodging at maturity; winter survival was reported as the percentage of survival after spring green-up. Winter survival was 100 percent for all wheat, barley, triticale, and cereal rye tests. Plant height was measured in inches from the soil surface to the top of the grain head. Heading dates were reported as the day an estimated 50 percent of the heads had extended above the flag leaf collar. Disease ratings: Septoria leaf blotch was recorded at the Logan County (non-fungicide) test; Head Scab was rated at the Woodford County and Princeton, Kentucky tests. Forage and straw yields are expressed as dry matter in tons per acre.

## Results and Interpretation

Since genetic expression of a variety is greatly influenced by environmental conditions, it is best to have several years' data at multiple locations from which to draw conclusions. Performance of a variety tested for only one year should not be compared with a multi-year average of another variety because it is possible that results in one of the other years were extremely good or poor and thus not comparable.

The yield of a variety is relative and should be compared with the yields of the other varieties in the same experiment and at the same location or within the same analysis across locations. Small differences in yield of only a few bushels per acre between two varieties from an individual test should not be interpreted to indicate the superiority of one variety over another. However, if one variety consistently out yields another over a period of several years, the chances are that the differences are real. LSD (least significant difference) values are listed at the bottom of table columns to indicate whether differences are statistically significant.

Lodging data are difficult to interpret. A high-yielding variety should not necessarily be downgraded because of a high percentage of lodging for a given year at a given location.

Local weather conditions, such as wind and rain, may cause a variety to lodge much more than it normally does. Variety trials normally have a greater degree of lodging than do farmer fields. It also should be emphasized that a variety reported to be 50 percent lodged does not imply that only 50 percent of the grain could be harvested. With good equipment, most of the grain can often be saved.

Kentucky's climate and soils are well-suited for the production of high-quality soft red winter wheat. No single variety has all the desirable characteristics, but each has certain advantages. Yield potential, straw strength and yield, height, heading date, grain quality, disease resistance, and forage potential are important in choosing a variety.

Winter barley is less winter-hardy than winter wheat but more hardy than winter oats. The degree of winter-hardiness, straw strength, and maturity are important characteristics when choosing a variety. Barley (hulless and hulled) variety performance data are presented in tables 15 and 16. Cereal rye, triticale, and oat variety performance data are presented in tables 17, 18, and 19, respectively.

## Test Conditions

Unusually high temperatures in early October were followed by wet and cool conditions from mid-October through the remainder of the planting season. This reduced the amount of wheat acreage planted in Kentucky. The 2019 Kentucky small grain variety tests were planted from October 8 to October 24. Prolonged cool temperatures and frequent precipitation from October into May slowed plant growth and development, particularly in late planted fields. High temperatures throughout the 2nd half of May accelerated reproductive growth. Lower temperatures and frequent rainfall during June slowed dry-down and delayed harvest in many regions of the state.

## Acknowledgments

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**Table 3. 2019 Kentucky Wheat Variety Test - State Summary.\***

VARIETY	Yield (Bu/A)			Test Wt. (Lb/bu)	Height (In)	Heading Date > April 1
	2019	2018-19	2017-19	2019	2019	2019
Pioneer variety 26R59	102.5	88.5	90.7	58.3	31	25
ARMOR RAGE	101.7	89.1	90.7	59.3	35	27
Dyna-Gro WX19713	100.9			61.0	36	27
USG 3316	99.9	88.8	89.4	59.1	35	27
Dyna-Gro WX19714	99.9			57.6	34	26
GoWheat 2058	99.7	84.5	87.4	59.5	31	25
KWS 19X09	99.7			58.1	36	24
Pioneer variety 26R36	99.7	86.6	88.4	59.6	36	26
Pioneer variety 26R10	98.9	86.6	89.6	58.7	35	26
USG 3404	98.4	85.7	88.0	58.7	36	28
ARMOR ARW1815	98.4			61.3	36	27
Dyna-Gro 9941	98.3	85.5		58.4	35	26
AgriMAXX 454	98.2	87.8	90.1	59.2	35	27
AgriMAXX EXP 1902	98.0			59.1	34	27
Dyna-Gro WX19711	97.7			59.8	33	26
SYNGENTA SY 100	97.7	83.5	86.3	56.1	34	26
Pioneer variety 26R45	97.7	83.7	86.5	57.3	36	26
Dyna-Gro WX18416	97.7			59.1	36	25
ARMOR ARW1816	97.5			57.9	34	27
KY06C-1178-16-10-3-34	97.5			59.3	37	26
PROGENY #WARRIOR	97.4	84.1	86.8	58.3	34	24
Go Wheat EXP18-2	97.2			58.8	35	25
LOCAL LW 2937	96.8			58.6	34	26
PROGENY #BULLET	96.8	84.5	86.6	58.9	37	27
KAS Roosevelt	96.7	84.7		58.4	36	26
LCS L11713	96.7			60.4	34	23
AgriMAXX EXP 1913	96.5			60.3	34	23
Dyna-Gro 9701	96.3	85.0	86.4	58.9	37	27
CROPLAN CP8550	96.3	84.0	86.4	58.9	37	26
ARMOR MAYHEM	96.3	83.8	86.5	59.0	37	26
KY07C-1145-94-12-5	96.2	83.8	83.8	59.6	34	24
AgriMAXX 473	96.1	83.5	85.8	58.9	37	26
LCS L11719	96.0	83.0		58.8	33	26
X11-0420-120-13-3	96.0			59.2	37	26
Pioneer variety 26R41	95.8	82.8	85.4	59.1	33	26
PROGENY PGX 18-2	95.6			60.5	34	23
KY09C-1245-99-12-3	95.6	82.4		59.3	35	24
SYNGENTA SX 8146	95.4			58.3	38	30
ARMOR VELOCITY	95.3			59.4	35	25
ARMOR SPIRIT	95.2			60.1	34	23
CROPLAN CP8800	95.2			58.2	37	26
SYNGENTA SY VIPER	95.2	84.7	84.5	59.8	37	24
X12-3010-3-5-3	95.1			58.9	33	25
KY09C-1245-99-1-5	95.1			60.7	35	25

**Table 3 (continued)**

VARIETY	Yield (Bu/A)			Test Wt. (Lb/bu)	Height (In)	Heading Date > April 1
	2019	2018-19	2017-19	2019	2019	2019
ARMOR ARW1819	95.0			58.9	33	26
Dyna-Gro 9932	94.9	83.9		60.1	35	26
KAS 19X9EX	94.8			59.6	33	24
KAS Truman 18X6	94.7			59.9	36	27
LOCAL LW 2848	94.6			58.7	36	26
PEMBROKE 2016	94.6	81.8	82.4	59.0	33	24
USG 3329	94.6	83.6		58.2	36	26
LOCAL LW Ex19D	94.5			59.2	33	26
PROGENY #BLAZE	94.3	84.1	87.8	58.1	36	26
ARMOR ARW1766	94.2	86.5		60.5	36	24
PROGENY PGX 18-8	94.1			59.2	33	26
AgriMAXX 486	94.0	84.6	86.7	59.1	37	27
CROPLAN CP9606	93.7	82.5	85.2	57.7	35	25
KY10-0178-1-2-5	93.7			60.7	34	25
AgriMAXX 485	93.6	84.1	86.9	59.5	35	28
SYNGENTA SX 8186	93.2			57.9	32	22
X10-0594-7-1-3	93.1			59.2	35	25
CROPLAN CP9415	93.1	83.5	87.3	58.9	34	26
PROGENY PGX 17-16	93.0	83.5		60.2	37	26
AgriMAXX EXP 1906	92.9			59.9	36	24
Dyna-Gro 9862	92.9	83.3	86.2	59.8	35	28
DH12SRW056-058	92.8			59.3	35	25
AgriMAXX 495	92.8			59.4	35	26
SYNGENTA SY 547	92.7	83.6	82.7	58.9	39	25
Go Wheat EXP18-1	92.5			59.7	34	29
KWS 19X03	92.3			58.5	32	28
LOCAL LW 2958	92.2			59.9	36	27
X12-619-205-14-1	92.1			60.1	35	25
GoWheat 2059	92.0	80.6	83.4	58.3	32	24
AgriMAXX 463	91.6	80.9	83.6	58.1	32	24
KAS Lincoln	91.3	82.5		59.7	34	28
LOCAL LW 2867	91.0			59.4	34	29
PEMBROKE 2014	90.8	79.2	79.7	59.5	31	23
PEMBROKE 2008	89.6	77.2	78.1	59.6	34	24
Truman	89.4	76.4	75.9	58.5	43	32
ARMOR VENOM	88.8			59.2	37	27
DH12SRW057-006	87.3			60.9	32	25
Dyna-Gro 9980	87.1			59.3	32	24
Bess	85.6	74.5		60.2	39	26
<b>Average</b>	<b>95.1</b>	<b>83.6</b>	<b>85.8</b>	<b>59.2</b>	<b>35</b>	<b>26</b>
C.V.	6.8	7.4	7.7			
LSD (0.10)	5.4	7.6	6.4			

\* Summary of four tests - (Caldwell, Logan, Todd, Fulton Co.).

**Table 4. 2019 Kentucky Wheat Variety Forage Test - Dry Matter Yield.**

VARIETY	Soft Dough Stage Tons/acre			Boot Stage Tons/acre	Cover Crop / Grazing Tons/acre	Head Type
	2019	2018-19	2017-19	2019	2019	
PROGENY #BLAZE	3.06	3.20	3.59	1.69	0.14	Bearded
USG 3404	3.05	3.25	3.51	1.65	0.12	Bearded
KWS 19X09	3.02			1.73	0.21	Bearded
CROPLAN CP9606	3.02	3.21	3.59	1.78	0.14	Bearded
ARMOR ARW1816	2.98			1.97	0.17	Bearded
ARMOR ARW1815	2.96			1.90	0.14	Bearded
Go Wheat EXP18-2	2.91			1.83	0.17	Bearded
Dyna-Gro 9941	2.90	2.97		2.22	0.15	Bearded
AgriMAXX 486	2.88	3.21	3.73	1.67	0.15	Bearded
KAS Truman 18X6	2.88	3.39		1.80	0.13	Bearded
Dyna-Gro WX19714	2.85			1.84	0.12	Bearded
LOCAL LW Ex19D	2.84			1.67	0.13	Bearded
ARMOR VELOCITY	2.84			1.88	0.16	Bearded
KWS 19X03	2.81			1.64	0.13	Awnless
X12-619-205-14-1	2.78			1.97	0.15	Bearded
USG 3316	2.75	3.13	3.54	1.75	0.13	Bearded
GoWheat 2058	2.75	3.07	3.25	1.72	0.12	Bearded
SYNGENTA SX 8146	2.75			1.26	0.10	Bearded
KY09C-1245-99-12-3	2.74	3.06		1.86	0.19	Tip-Awned
ARMOR ARW1819	2.74			1.81	0.11	Bearded
Dyna-Gro WX19713	2.73			1.44	0.14	Bearded
SYNGENTA SY 100	2.67	3.00	3.30	1.38	0.14	Awnless
AgriMAXX EXP 1906	2.66			1.87	0.14	Bearded
X10-0594-7-1-3	2.66			2.08	0.13	Awnless
Pioneer variety 26R59	2.65	3.23	3.58	1.94	0.11	Awnless
PEMBROKE 2016	2.63	2.89	3.26	1.56	0.13	Bearded
KY07C-1145-94-12-5	2.61	2.95	3.49	1.39	0.11	Awnless
LCS L11719	2.60	3.09		1.62	0.12	Bearded
Sunny South SS700	2.59			1.42	0.14	Awnless
LOCAL LW 2958	2.59			1.64	0.12	Bearded
X12-3010-3-5-3	2.58			1.79	0.10	Tip-Awned
Dyna-Gro WX18416	2.58			1.54	0.10	Bearded
USG 3329	2.56	2.95		1.69	0.11	Bearded
ARMOR ARW1766	2.56	3.18		1.89	0.18	Bearded
Go Wheat EXP18-1	2.55			1.55	0.11	Awnless
Dyna-Gro 9862	2.55	2.96	3.36	1.58	0.10	Awnless
X11-0420-120-13-3	2.52			1.71	0.12	Bearded
KY09C-1245-99-1-5	2.52			1.46	0.13	Awnless
LOCAL LW 2867	2.50			1.31	0.09	Awnless
AgriMAXX 485	2.50	2.92	3.28	1.51	0.08	Awnless
AgriMAXX 454	2.49	3.02	3.36	1.49	0.12	Bearded
DH12SRW057-006	2.48			1.58	0.16	Awnless
AgriMAXX 463	2.47	2.80	3.28	1.68	0.12	Awnless
ARMOR RAGE	2.46	3.02	3.49	1.39	0.12	Bearded

**Table 4 (continued)**

VARIETY	Soft Dough Stage Tons/acre			Boot Stage Tons/acre	Cover Crop / Grazing Tons/acre	Head Type
	2019	2018-19	2017-19	2019	2019	
Dyna-Gro WX19711	2.45			1.69	0.12	Bearded
KAS 19X9EX	2.45			1.72	0.14	Bearded
LCS L11713	2.45			1.81	0.13	Bearded
SYNGENTA SY 547	2.44	2.92	3.36	1.78	0.15	Awnless
KAS Roosevelt	2.43	2.80		1.69	0.09	Bearded
SYNGENTA SY VIPER	2.43	3.32	3.61	1.43	0.09	Awnless
Pioneer variety 26R41	2.42	3.05	3.40	1.77	0.14	Bearded
KY06C-1178-16-10-3-34	2.42			1.40	0.10	Bearded
PEMBROKE 2008	2.42	3.01	3.22	1.53	0.07	Bearded
PROGENY PGX 18-8	2.42			2.32	0.10	Bearded
PROGENY PGX 18-2	2.41			1.68	0.11	Bearded
ARMOR MAYHEM	2.41	2.87	3.53	1.63	0.17	Bearded
PROGENY PGX 17-16	2.40	2.99		1.31	0.12	Bearded
AgriMAXX 473	2.39	2.88	3.29	1.53	0.16	Bearded
CROPLAN CP8800	2.38			1.65	0.13	Bearded
AgriMAXX EXP 1913	2.37			1.65	0.12	Bearded
SYNGENTA SX 8186	2.36			1.72	0.14	Awnless
CROPLAN CP9415	2.35	3.02	3.41	1.73	0.15	Bearded
Dyna-Gro 9701	2.33	2.81	3.33	1.80	0.15	Bearded
PEMBROKE 2014	2.32	2.87	3.31	2.13	0.11	Bearded
CROPLAN CP8550	2.31	2.82	3.42	1.62	0.14	Bearded
PROGENY #WARRIOR	2.30	2.69	3.00	1.46	0.12	Awnless
KY10-0178-1-2-5	2.27			1.48	0.11	Tip-Awned
Dyna-Gro 9932	2.26	2.84		1.47	0.11	Bearded
ARMOR SPIRIT	2.26	1.45		1.75	0.12	Bearded
GoWheat 2059	2.26	2.69	3.01	1.69	0.12	Awnless
DH12SRW056-058	2.26			1.41	0.10	Bearded
ARMOR VENOM	2.24	2.45		1.89	0.10	Bearded
Truman	2.24	2.75	3.18	1.15	0.10	Awnless
KAS Lincoln	2.21	2.78		1.36	0.10	Awnless
Pioneer variety 26R10	2.19	2.88	3.39	1.71	0.09	Bearded
AgriMAXX 495	2.17			1.56	0.11	Bearded
LOCAL LW 2848	2.16			1.49	0.11	Bearded
Dyna-Gro 9980	2.14			1.95	0.14	Bearded
PROGENY #BULLET	2.14	2.84	3.34	1.45	0.11	Bearded
AgriMAXX EXP 1902	2.11			1.86	0.12	Bearded
Pioneer variety 26R36	2.06	2.47	2.91	1.40	0.11	Bearded
Pioneer variety 26R45	1.93	2.40	2.92	1.35	0.08	Awnless
LOCAL LW 2937	1.85			1.72	0.12	Bearded
<b>Average</b>	<b>2.51</b>	<b>2.91</b>	<b>3.35</b>	<b>1.66</b>	<b>0.12</b>	
C.V.	16.00	15.99	15.80	18.86	22.5	
LSD (0.10)	0.67	0.52	0.46	0.52	0.05	

Location: Bluegrass Region - Fayette Co.; Conventional tillage.  
 Planting date: 10-17-18; Soft dough harvest date: 5-28-19.  
 Winter Grazing / Cover Crop biomass sample date: 3-13-19;  
 Boot stage biomass sample date: 4-30-19.



**Table 5. 2019 Kentucky Wheat Variety Straw Test.**

VARIETY	DM Yield* Tons/acre		
	2019	2018-19	2017-19
Truman	1.88	1.61	1.74
SYNGENTA SX 8146	1.73		
KY06C-1178-16-10-3-34	1.58		
SYNGENTA SY 547	1.55	1.34	1.52
USG 3404	1.38	1.32	1.50
AgriMAXX 486	1.37	1.17	1.38
KAS Roosevelt	1.32	1.27	
CROPLAN CP8550	1.29	1.21	1.07
Pioneer variety 26R36	1.27	1.34	1.31
Go Wheat EXP18-2	1.26		
Dyna-Gro WX18416	1.23		
X10-0594-7-1-3	1.23		
Dyna-Gro WX19713	1.21		
PROGENY PGX 17-16	1.20	1.24	
KY09C-1245-99-1-5	1.19		
Dyna-Gro 9941	1.18	1.08	
ARMOR MAYHEM	1.17	1.05	1.25
CROPLAN CP9415	1.17	1.24	1.53
KAS Truman 18X6	1.16		
KWS 19X09	1.16		
USG 3316	1.16	1.33	1.33
ARMOR RAGE	1.15	1.21	1.61
CROPLAN CP9606	1.15	1.15	1.11
ARMOR ARW1816	1.14		
Bess	1.13	1.06	
CROPLAN CP8800	1.13		
AgriMAXX EXP 1913	1.12		
Pioneer variety 26R10	1.12	1.15	1.46
Dyna-Gro WX19711	1.11		
ARMOR VOODOO	1.10		
LOCAL LW 2848	1.10		
DH12SRW057-006	1.09		
PROGENY #WARRIOR	1.09	1.10	1.38
SYNGENTA SY VIPER	1.09	1.34	1.45
ARMOR ARW1815	1.08		
AgriMAXX 473	1.08	1.07	1.33
Dyna-Gro 9932	1.08	1.10	
Pioneer variety 26R45	1.08	0.95	1.23
Dyna-Gro 9701	1.07	1.17	1.00
PROGENY #BULLET	1.07	1.13	1.21
X12-619-205-14-1	1.07		
AgriMAXX EXP 1906	1.06		
LOCAL LW 2867	1.06		
AgriMAXX 454	1.05	1.19	1.53

**Table 5 (continued)**

VARIETY	DM Yield* Tons/acre		
	2019	2018-19	2017-19
KAS Lincoln	1.05	1.13	
PROGENY PGX 18-2	1.05		
PEMBROKE 2008	1.04	1.22	1.34
DH12SRW056-058	1.03		
LOCAL LW 2958	1.03		
LOCAL LW 2937	1.01		
ARMOR ARW1766	1.00	1.09	
KY07C-1145-94-12-5	1.00	0.99	1.18
LCS L11713	0.99		
PROGENY PGX 18-8	0.96		
Dyna-Gro WX19714	0.95		
PEMBROKE 2014	0.95	0.99	1.21
Dyna-Gro 9862	0.94	1.11	1.61
KY09C-1245-99-12-3	0.94	1.09	
PEMBROKE 2016	0.94	1.07	1.18
X12-3010-3-5-3	0.94		
ARMOR VENOM	0.93	0.82	
Pioneer variety 26R59	0.93	1.07	1.08
LCS L11719	0.92	0.96	
PROGENY #BLAZE	0.92	0.90	1.14
AgriMAXX 485	0.91	0.98	1.21
X11-0420-120-13-3	0.91		
AgriMAXX EXP 1902	0.90		
GoWheat 2058	0.90	0.98	1.30
KWS 19X03	0.90		
USG 3329	0.88	1.05	
Go Wheat EXP18-1	0.87		
Dyna-Gro 9980	0.85		
KAS 19X9EX	0.85		
AgriMAXX 495	0.83		
SYNGENTA SY 100	0.81	1.11	1.53
ARMOR SPIRIT	0.80	1.07	
LOCAL LW Ex19D	0.79		
Pioneer variety 26R41	0.79	1.12	1.19
ARMOR ARW1819	0.77		
SYNGENTA SX 8186	0.73		
GoWheat 2059	0.72	0.78	0.96
AgriMAXX 463	0.71	0.77	1.12
KY10-0178-1-2-5	0.64		
<b>Average</b>	<b>1.06</b>	<b>1.12</b>	<b>1.31</b>
C.V.	23.88	26.29	29.91
LSD (0.10)	0.42	0.34	0.35

Location: Bluegrass Region - Fayette Co.; Conventional tillage  
Planting date: 10-18-18; Harvest date: 6-21-19.

\* Dry Matter straw yield following grain harvest.



**Table 6. 2019 Kentucky Wheat Variety Disease Ratings.**

VARIETY	Head Scab	Leaf Blotch*
AgriMAXX 454	3.5	4.3
AgriMAXX 463	1.4	4.3
AgriMAXX 473	3.1	4.3
AgriMAXX 485	2.9	4.3
AgriMAXX 486	3.0	4.5
AgriMAXX 495	3.5	4.0
AgriMAXX EXP 1902	3.9	3.0
AgriMAXX EXP 1906	6.8	4.0
AgriMAXX EXP 1913	5.5	5.3
ARMOR ARW1766	6.5	3.5
ARMOR ARW1815	3.6	5.0
ARMOR ARW1816	3.0	4.0
ARMOR ARW1819	5.4	6.3
ARMOR MAYHEM	3.0	4.3
ARMOR RAGE	3.6	4.0
ARMOR SPIRIT	4.1	5.8
ARMOR VELOCITY	3.0	5.5
ARMOR VENOM	3.5	5.8
Bess	2.9	6.3
CROPLAN CP8550	3.0	4.5
CROPLAN CP8800	4.9	5.3
CROPLAN CP9415	6.0	6.0
CROPLAN CP9606	5.6	7.3
DH12SRW056-058	4.6	7.5
DH12SRW057-006	5.8	3.5
Dyna-Gro 9701	3.3	4.0
Dyna-Gro 9862	3.3	4.5
Dyna-Gro 9932	4.0	4.5
Dyna-Gro 9941	3.6	3.0
Dyna-Gro 9980	2.5	3.5
Dyna-Gro WX18416	3.8	3.8
Dyna-Gro WX19711	2.6	4.5
Dyna-Gro WX19713	3.1	4.8
Dyna-Gro WX19714	3.1	4.5
Go Wheat EXP18-1	2.9	4.3
Go Wheat EXP18-2	4.4	5.3
GoWheat 2058	5.9	7.3
GoWheat 2059	1.5	4.5
KAS 19X9EX	3.5	5.3
KAS Lincoln	2.6	3.5
KAS Roosevelt	4.4	3.5
KAS Truman 18X6	3.9	3.5
KWS 19X03	5.6	5.5
KWS 19X09	5.6	2.3

**Table 6 (continued)**

VARIETY	Head Scab	Leaf Blotch*
KY06C-1178-16-10-3-34	3.9	4.5
KY07C-1145-94-12-5	4.9	4.5
KY09C-1245-99-12-3	5.0	3.3
KY09C-1245-99-1-5	4.8	2.8
KY10-0178-1-2-5	2.4	4.5
LCS L11713	4.6	4.5
LCS L11719	5.5	6.5
LOCAL LW 2848	3.0	4.3
LOCAL LW 2867	2.5	4.3
LOCAL LW 2937	3.9	3.3
LOCAL LW 2958	3.8	4.0
LOCAL LW Ex19D	5.8	6.3
PEMBROKE 2008	5.6	8.3
PEMBROKE 2014	3.6	7.0
PEMBROKE 2016	4.1	7.3
Pioneer variety 26R10	5.8	6.8
Pioneer variety 26R36	3.5	5.8
Pioneer variety 26R41	5.6	4.8
Pioneer variety 26R45	3.6	3.0
Pioneer variety 26R59	5.3	4.0
PROGENY #BLAZE	4.6	3.8
PROGENY #BULLET	3.3	4.3
PROGENY #WARRIOR	5.0	4.5
PROGENY PGX 17-16	3.9	3.8
PROGENY PGX 18-2	4.6	5.5
PROGENY PGX 18-8	5.3	6.8
SYNGENTA SX 8146	2.9	4.0
SYNGENTA SX 8186	5.0	5.8
SYNGENTA SY 100	4.8	6.5
SYNGENTA SY 547	5.9	2.8
SYNGENTA SY VIPER	4.8	4.0
Truman	2.1	5.3
USG 3316	3.3	4.3
USG 3329	4.4	4.8
USG 3404	4.1	5.5
X10-0594-7-1-3	7.5	3.0
X11-0420-120-13-3	4.6	4.8
X12-3010-3-5-3	5.5	3.3
X12-619-205-14-1	3.0	7.5
<b>Average</b>	<b>4.1</b>	<b>4.8</b>

\*Leaf Blotch associated with primarily Septoria tritici  
Disease Rating scale: 1 = resistant; 9 = susceptible.  
Leaf Blotch rated at Logan Co.; Head Scab rated at Woodford Co. & Princeton, KY.

**Table 7. 2019 Kentucky Wheat Variety Test - Purchase Region.**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/Bu)		Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019
Dyna-Gro WX19713	106.1		62.0		36	26
ARMOR ARW1815	105.5		61.8		36	26
ARMOR RAGE	101.3	89.9	59.2	59.5	37	26
KAS 19X9EX	99.8		60.4		34	22
Pioneer variety 26R36	99.6	90.4	60.3	60.9	35	25
Go Wheat EXP18-2	99.2		59.4		35	25
Dyna-Gro WX18416	98.7		58.9		37	24
GoWheat 2058	98.4	83.9	60.2	60.7	31	24
Dyna-Gro 9932	98.3	91.1	60.6	61.0	36	26
Dyna-Gro 9941	98.2	88.6	58.4	58.6	35	26
AgriMAXX 454	98.2	89.7	58.9	59.8	35	26
ARMOR ARW1819	98.1		59.7		33	25
KY06C-1178-16-10-3-34	97.9		59.5		38	25
KAS Roosevelt	97.7	85.0	59.3	59.3	36	24
AgriMAXX EXP 1902	97.6		59.1		35	26
Pioneer variety 26R45	97.5	84.2	57.8	58.2	37	25
X11-0420-120-13-3	97.5		59.8		38	25
ARMOR VELOCITY	97.2		60.3		36	24
LOCAL LW Ex19D	97.1		59.2		34	25
Pioneer variety 26R10	97.0	89.6	59.2	59.4	35	25
AgriMAXX EXP 1913	97.0		60.8		35	22
SYNGENTA SY 100	97.0	88.8	57.2	57.4	34	25
USG 3316	96.7	88.2	59.0	59.1	36	26
ARMOR SPIRIT	96.2	84.1	60.3	59.7	33	22
Pioneer variety 26R41	96.1	86.9	60.3	60.5	34	25
PEMBROKE 2016	96.0	85.8	59.9	60.1	33	23
Pioneer variety 26R59	96.0	86.3	58.0	59.3	30	24
LCS L11713	96.0		60.6		35	22
KWS 19X09	95.5		58.8		35	24
LCS L11719	95.3	81.5	59.2	58.3	34	25
PROGENY #BULLET	95.2	86.6	59.6	59.0	37	25
PROGENY PGX 18-2	95.1		60.4		34	22
PROGENY #BLAZE	95.0	87.1	59.3	59.9	36	24
CROPLAN CP8800	94.8		58.9		37	25
SYNGENTA SX 8186	94.4		58.2		33	22
AgriMAXX 495	94.1		59.8		34	25
ARMOR ARW1766	94.1	87.2	60.9	60.5	36	23
Dyna-Gro WX19711	94.1		60.0		33	25
Dyna-Gro WX19714	94.0		57.4		35	26
DH12SRW056-058	94.0		60.5		36	23
KY07C-1145-94-12-5	94.0	83.1	59.8	60.3	35	23
PROGENY PGX 18-8	94.0		59.5		33	26
ARMOR ARW1816	93.8		57.9		34	26

**Table 7 (continued)**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/Bu)		Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019
ARMOR MAYHEM	93.6	81.9	59.4	59.1	37	25
PROGENY #WARRIOR	93.3	81.1	58.1	57.8	34	24
X10-0594-7-1-3	93.2		59.6		35	25
AgriMAXX 473	93.1	83.9	59.0	59.0	37	25
KY10-0178-1-2-5	93.1		60.6		35	24
USG 3404	92.9	85.9	58.5	59.2	35	27
LOCAL LW 2937	92.9		58.3		34	25
X12-3010-3-5-3	92.8		59.6		33	24
CROPLAN CP8550	92.7	83.0	58.6	58.9	37	25
Dyna-Gro 9862	92.7	82.8	60.4	60.6	36	28
Dyna-Gro 9701	92.7	84.8	59.3	59.1	37	26
SYNGENTA SX 8146	92.7		59.2		38	29
SYNGENTA SY VIPER	92.4	84.5	59.8	60.2	38	22
KY09C-1245-99-12-3	92.3	83.0	59.8	59.4	35	23
KY09C-1245-99-1-5	92.1		61.0		35	23
CROPLAN CP9606	91.4	91.6	58.2	58.9	36	25
PEMBROKE 2014	91.4	81.3	61.0	61.0	32	22
SYNGENTA SY 547	91.4	87.6	60.1	59.3	39	24
AgriMAXX 485	91.4	83.4	59.9	60.8	35	27
USG 3329	91.1	81.5	59.0	59.6	35	25
LOCAL LW 2848	90.6		59.1		37	26
Go Wheat EXP18-1	90.4		60.3		35	28
PROGENY PGX 17-16	89.5	80.8	60.3	61.3	37	25
PEMBROKE 2008	89.5	75.7	60.8	60.4	33	22
AgriMAXX 486	89.4	82.3	59.0	59.5	37	26
GoWheat 2059	89.3	81.0	58.6	58.5	33	23
KAS Lincoln	89.2	79.5	59.6	60.3	35	28
Dyna-Gro 9980	89.2		60.0		33	24
X12-619-205-14-1	88.9		60.2		34	24
LOCAL LW 2958	88.8		60.0		36	26
AgriMAXX EXP 1906	88.3		60.2		36	22
AgriMAXX 463	87.9	80.1	58.3	58.6	32	23
ARMOR VENOM	86.5	79.0	59.6	58.6	36	25
LOCAL LW 2867	86.3		59.1		34	28
KAS Truman 18X6	86.2		59.9		36	26
DH12SRW057-006	85.9		62.9		33	24
Bess	84.3	75.4	60.1	60.4	39	25
Truman	84.0	76.3	57.5	58.0	42	31
KWS 19X03	77.6		58.9		31	27
CROPLAN CP9415	74.7	76.6	59.5	60.0	35	26
<b>Average</b>	<b>93.4</b>	<b>84.1</b>	<b>59.6</b>	<b>59.5</b>	<b>35</b>	<b>25</b>
C.V.	8.9	9.7				
LSD (0.10)	13.7	9.8				

Location: Fulton Co.  
 Planting date: 10-12-18; Conventional tillage; Harvest date: 6-11-19.  
 Lodging = 0%

**Table 8. 2019 Kentucky Wheat Variety Test - Western Coal Field Region.**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/Bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019	2019
Dyna-Gro WX19714	104.2		57.1		3	34	29
Pioneer variety 26R36	104.0	77.7	60.0	59.6	14	37	29
Pioneer variety 26R59	101.9	78.0	57.3	57.1	0	32	27
USG 3316	101.6	77.7	58.7	58.4	0	36	29
ARMOR RAGE	98.9	76.8	58.4	59.1	1	35	30
Dyna-Gro WX19713	97.3		60.5		0	36	30
Pioneer variety 26R10	96.9	73.2	57.8	57.1	1	34	29
ARMOR ARW1816	96.7		58.5		0	34	29
KY07C-1145-94-12-5	96.4	71.4	59.5	58.2	3	34	27
AgriMAXX 485	96.2	76.1	59.6	58.6	1	34	30
KY09C-1245-99-12-3	95.4	74.1	60.0	58.2	1	34	26
CROPLAN CP9606	95.0	70.9	57.5	56.9	0	35	29
Dyna-Gro WX19711	95.0		59.1		0	32	29
USG 3404	95.0	72.9	57.7	57.4	21	37	29
KWS 19X03	94.8		57.4		0	31	30
X11-0420-120-13-3	94.7		59.3		1	36	29
Pioneer variety 26R45	94.7	74.8	56.2	56.0	40	36	28
Dyna-Gro 9941	93.9	71.8	59.2	57.1	0	35	28
SYNGENTA SY VIPER	93.9	77.4	59.0	59.6	8	36	27
CROPLAN CP9415	93.9	72.4	58.6	58.4	0	33	29
PROGENY #BULLET	93.4	71.8	58.1	57.0	0	37	29
CROPLAN CP8550	93.4	73.8	58.1	57.5	0	37	29
AgriMAXX 495	93.3		59.3		13	34	28
ARMOR MAYHEM	93.1	75.0	58.5	57.4	0	36	28
AgriMAXX 454	92.8	74.5	59.7	58.9	0	36	29
SYNGENTA SX 8146	92.8		56.9		6	37	31
Dyna-Gro WX18416	92.7		58.9		1	36	28
Dyna-Gro 9701	92.4	72.8	58.0	56.8	0	36	29
GoWheat 2058	92.4	70.2	59.6	58.2	0	31	27
PROGENY PGX 17-16	92.1	72.2	60.0	59.3	4	37	28
KAS Roosevelt	92.1	71.7	57.6	55.5	15	35	28
LOCAL LW 2937	91.9		59.6		0	35	28
X12-619-205-14-1	91.8		62.9		0	35	28
Dyna-Gro 9862	91.5	75.6	60.1	58.9	1	35	30
LCS L11719	91.5	71.1	57.5	57.4	18	33	29
Go Wheat EXP18-2	91.4		59.1		3	34	27
Pioneer variety 26R41	91.3	70.7	58.3	58.0	6	33	28
AgriMAXX 473	91.1	72.1	58.9	57.4	0	35	29
PEMBROKE 2016	90.9	66.9	60.8	58.7	0	33	27
X12-3010-3-5-3	90.6		58.7		41	32	27
KAS Truman 18X6	90.6		59.3		1	36	29
AgriMAXX EXP 1902	90.6		59.0		3	34	29
KY06C-1178-16-10-3-34	90.5		58.4		43	38	29
ARMOR VENOM	90.5	71.6	60.0	57.6	16	37	29

**Table 8** (continued)

VARIETY	Yield (Bu/A)		Test Wt. (Lb/Bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019	2019
Go Wheat EXP18-1	90.3		59.3		21	34	30
KWS 19X09	90.1		56.1		54	36	26
LOCAL LW 2867	90.0		59.3		10	34	30
PROGENY #BLAZE	90.0	69.2	58.4	56.4	14	35	28
LOCAL LW 2848	89.6		58.3		1	36	29
ARMOR ARW1819	89.5		58.3		3	33	29
SYNGENTA SX 8186	89.5		58.8		6	32	26
PROGENY #WARRIOR	89.5	71.7	58.4	57.7	19	34	26
AgriMAXX 486	89.5	70.7	58.8	58.2	11	37	29
KAS Lincoln	89.4	73.2	60.0	58.4	0	34	30
ARMOR ARW1815	89.4		61.2		0	35	30
CROPLAN CP8800	89.2		58.0		0	37	29
GoWheat 2059	88.8	67.3	59.0	55.7	0	32	27
ARMOR SPIRIT	88.8	69.4	60.5	59.3	10	34	26
SYNGENTA SY 100	88.6	70.7	55.8	55.0	19	33	29
ARMOR VELOCITY	88.4		59.3		18	34	27
KY09C-1245-99-1-5	88.3		61.3		0	34	27
USG 3329	88.0	69.3	57.0	55.1	30	36	28
PROGENY PGX 18-8	87.9		58.7		0	32	29
SYNGENTA SY 547	87.9	71.2	58.0	58.0	4	38	26
LOCAL LW 2958	87.8		59.8		4	36	29
AgriMAXX 463	87.8	69.7	58.5	56.3	6	32	28
AgriMAXX EXP 1906	87.7		59.9		0	35	27
AgriMAXX EXP 1913	87.6		60.2		20	33	26
Dyna-Gro 9932	87.3	66.4	60.3	58.9	6	34	29
KY10-0178-1-2-5	87.0		61.0		3	33	28
LOCAL LW Ex19D	86.5		58.8		0	32	29
Truman	86.3	67.2	56.9	57.9	13	44	34
ARMOR ARW1766	86.2	70.1	61.0	59.3	0	36	27
PROGENY PGX 18-2	86.1		60.6		20	35	26
KAS 19X9EX	85.8		58.2		0	32	27
DH12SRW056-058	85.5		56.6		0	34	28
LCS L11713	84.9		60.8		5	34	26
X10-0594-7-1-3	84.9		58.7		0	34	28
PEMBROKE 2014	84.9	64.5	59.4	58.5	0	31	26
DH12SRW057-006	84.4		59.8		6	33	29
Dyna-Gro 9980	82.8		58.3		39	31	26
PEMBROKE 2008	82.0	63.6	59.2	58.2	0	34	27
Bess	77.1	62.6	60.3	60.0	23	39	29
<b>Average</b>	<b>91.0</b>	<b>71.6</b>	<b>58.9</b>	<b>57.8</b>	<b>8</b>	<b>35</b>	<b>28</b>
C.V.	6.1	6.8					
LSD (0.10)	9.2	6.2					

Location: Caldwell Co. (Princeton, KY)  
 Planting date: 10-8-18; No-Till; Harvest date: 6-13-19.

**Table 9. 2019 Kentucky Wheat Variety Test - Ohio Valley Region - Deer Damage.**

<b>VARIETY</b>	<b>Deer Damage (%)</b>	<b>Head Type</b>	<b>Height (In)</b>	<b>Heading Date &gt; April 1</b>
Dyna-Gro 9862	88	Awnless	35	34
AgriMAXX 485	86	Awnless	34	35
Pioneer variety 26R45	83	Awnless	37	32
Truman	76	Awnless	44	39
Bess	75	Awnless	42	31
Go Wheat EXP18-1	71	Awnless	35	34
SYNGENTA SX 8186	71	Awnless	34	29
PROGENY #WARRIOR	70	Awnless	36	30
AgriMAXX 463	69	Awnless	34	31
LOCAL LW 2867	68	Awnless	35	35
SYNGENTA SY 100	63	Awnless	36	32
KAS Lincoln	61	Awnless	34	34
GoWheat 2059	58	Awnless	34	31
KY09C-1245-99-12-3	58	Tip-Awned	36	30
SYNGENTA SY VIPER	51	Awnless	37	31
KY07C-1145-94-12-5	38	Awnless	35	30
Pioneer variety 26R59	38	Awnless	31	31
SYNGENTA SY 547	26	Awnless	39	31
DH12SRW057-006	23	Awnless	32	32
KY10-0178-1-2-5	21	Tip-Awned	35	32
KWS 19X03	16	Awnless	31	34
KY09C-1245-99-1-5	11	Awnless	35	30
X10-0594-7-1-3	5	Awnless	34	31
KAS Truman 18X6	3	Bearded	38	33
PROGENY #BLAZE	1	Bearded	36	32
PROGENY PGX 18-2	1	Bearded	35	30
AgriMAXX 454	0	Bearded	37	33
AgriMAXX 473	0	Bearded	37	32
AgriMAXX 486	0	Bearded	38	33
AgriMAXX 495	0	Bearded	36	32
AgriMAXX EXP 1902	0	Bearded	35	32
AgriMAXX EXP 1906	0	Bearded	37	30
AgriMAXX EXP 1913	0	Bearded	35	30
ARMOR ARW1766	0	Bearded	37	30
ARMOR ARW1815	0	Bearded	36	32
ARMOR ARW1816	0	Bearded	35	31
ARMOR ARW1819	0	Bearded	32	32
ARMOR MAYHEM	0	Bearded	39	33
ARMOR RAGE	0	Bearded	37	33
ARMOR SPIRIT	0	Bearded	36	30
ARMOR VELOCITY	0	Bearded	36	31
ARMOR VENOM	0	Bearded	36	32
CROPLAN CP8550	0	Bearded	36	32

**Table 9** (continued)

<b>VARIETY</b>	<b>Deer Damage (%)</b>	<b>Head Type</b>	<b>Height (In)</b>	<b>Heading Date &gt; April 1</b>
CROPLAN CP8800	0	Bearded	38	31
CROPLAN CP9415	0	Bearded	34	32
CROPLAN CP9606	0	Bearded	36	31
DH12SRW056-058	0	Bearded	37	31
Dyna-Gro 9701	0	Bearded	38	33
Dyna-Gro 9932	0	Bearded	36	33
Dyna-Gro 9941	0	Bearded	37	31
Dyna-Gro 9980	0	Bearded	33	30
Dyna-Gro WX18416	0	Bearded	38	31
Dyna-Gro WX19711	0	Bearded	32	32
Dyna-Gro WX19713	0	Bearded	36	32
Dyna-Gro WX19714	0	Bearded	35	32
Go Wheat EXP18-2	0	Bearded	35	31
GoWheat 2058	0	Bearded	31	31
KAS 19X9EX	0	Bearded	34	30
KAS Roosevelt	0	Bearded	34	31
KWS 19X09	0	Bearded	36	30
KY06C-1178-16-10-3-34	0	Bearded	37	33
LCS L11713	0	Bearded	36	30
LCS L11719	0	Bearded	33	33
LOCAL LW 2848	0	Bearded	38	32
LOCAL LW 2937	0	Bearded	36	31
LOCAL LW 2958	0	Bearded	36	32
LOCAL LW Ex19D	0	Bearded	33	32
PEMBROKE 2008	0	Bearded	33	30
PEMBROKE 2014	0	Bearded	34	30
PEMBROKE 2016	0	Bearded	34	30
Pioneer variety 26R10	0	Bearded	34	32
Pioneer variety 26R36	0	Bearded	35	32
Pioneer variety 26R41	0	Bearded	34	32
PROGENY #BULLET	0	Bearded	36	32
PROGENY PGX 17-16	0	Bearded	36	32
PROGENY PGX 18-8	0	Bearded	33	33
SYNGENTA SX 8146	0	Bearded	38	36
USG 3316	0	Bearded	36	33
USG 3329	0	Bearded	35	31
USG 3404	0	Bearded	34	33
X11-0420-120-13-3	0	Bearded	37	32
X12-3010-3-5-3	0	Tip-Awned	34	31
X12-619-205-14-1	0	Bearded	36	31
<b>Average</b>	<b>15</b>		<b>36</b>	<b>32</b>

Location: Crittenden Co.

Planting date: 10-24-18

Test not harvested due to severe deer damage



**Table 10. 2019 Kentucky Wheat Variety Test - Bluegrass Region.**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019
LOCAL LW 2937	63.7		52.8		30	35
Pioneer variety 26R59	63.1	62.0	54.9	57.0	27	36
Dyna-Gro 9941	62.2	58.0	53.2	55.5	30	35
CROPLAN CP9606	61.0	62.4	53.1	54.8	31	36
KWS 19X03	60.3		55.2		26	38
ARMOR ARW1815	59.3		56.0		31	36
SYNGENTA SX 8146	59.2		56.0		30	39
Dyna-Gro WX19713	59.1		56.8		31	36
KAS 19X9EX	58.2		56.0		30	34
KY09C-1245-99-1-5	58.1		56.5		30	35
KY06C-1178-16-10-3-34	57.8		56.1		32	37
ARMOR RAGE	57.6	62.5	55.4	56.5	30	37
ARMOR ARW1816	57.6		54.2		30	35
SYNGENTA SY 100	57.5	56.7	52.2	54.0	29	37
Go Wheat EXP18-2	57.5		55.8		30	35
AgriMAXX 486	57.2	59.4	55.0	57.2	33	37
SYNGENTA SY 547	57.0	60.1	55.4	57.6	35	35
Dyna-Gro WX19711	56.9		57.0		29	36
USG 3329	56.8	57.7	54.7	56.0	31	35
AgriMAXX 454	56.7	61.6	55.8	56.8	30	37
Dyna-Gro WX19714	56.5		54.3		30	36
ARMOR VOODOO	56.4		56.4		31	35
Dyna-Gro WX18416	56.1		56.7		32	36
KY09C-1245-99-12-3	55.9	57.9	54.9	56.8	30	35
KAS Roosevelt	55.8	59.1	54.6	55.6	30	35
Dyna-Gro 9932	55.5	56.1	56.5	58.4	31	36
Pioneer variety 26R36	55.5	57.9	55.5	57.6	29	36
AgriMAXX EXP 1902	55.4		53.6		28	36
PROGENY PGX 18-8	55.3		56.0		28	37
Pioneer variety 26R45	55.1	51.1	55.4	54.0	32	36
CROPLAN CP8800	55.1		54.7		31	36
LOCAL LW Ex19D	55.0		55.9		28	37
USG 3316	55.0	60.5	56.0	56.9	30	37
AgriMAXX EXP 1906	54.9		53.1		31	35
KWS 19X09	54.7		55.3		31	35
USG 3404	54.7	58.9	56.3	57.2	29	37
ARMOR ARW1819	54.6		55.8		28	37
X10-0594-7-1-3	54.4		55.5		28	36
LCS L11719	54.4	57.3	55.7	57.5	28	37
X11-0420-120-13-3	54.3		56.5		31	36
PROGENY #BLAZE	54.1	55.6	55.6	55.9	29	35
AgriMAXX 495	54.1		57.0		30	36
PROGENY PGX 18-2	54.0		56.6		31	36

**Table 10 (continued)**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019
LCS L11713	53.9		55.9		30	35
CROPLAN CP9415	53.8	58.1	54.7	56.4	28	36
KAS Truman 18X6	53.8		56.6		32	36
X12-619-205-14-1	53.5		56.9		27	36
Dyna-Gro 9980	53.3		56.6		30	35
LOCAL LW 2958	53.3		56.4		32	36
PROGENY PGX 17-16	53.1	54.6	57.0	58.3	31	36
ARMOR MAYHEM	53.1	56.9	55.7	56.6	33	36
KY10-0178-1-2-5	53.1		58.5		28	37
AgriMAXX 473	53.0	56.2	55.6	57.3	32	36
Pioneer variety 26R10	53.0	57.8	55.9	56.8	29	37
Truman	52.9	49.4	60.2	60.0	37	45
CROPLAN CP8550	52.8	57.2	55.5	56.5	33	36
Dyna-Gro 9701	52.8	60.7	55.3	56.3	31	36
KY07C-1145-94-12-5	52.7	55.6	57.7	58.4	29	35
LOCAL LW 2848	52.5		55.3		32	37
PEMBROKE 2016	52.4	55.1	55.9	57.8	28	36
PROGENY #WARRIOR	52.4	56.8	54.6	55.8	28	35
ARMOR SPIRIT	52.1	55.7	55.7	56.5	28	36
ARMOR ARW1766	52.1	60.0	52.2	55.1	31	35
DH12SRW056-058	51.9		58.1		31	35
PROGENY #BULLET	51.7	53.4	56.1	56.9	30	37
X12-3010-3-5-3	51.7		55.5		27	37
Pioneer variety 26R41	51.4	54.7	54.2	56.5	27	36
PEMBROKE 2014	51.3	53.0	55.9	57.5	26	35
SYNGENTA SX 8186	51.3		53.9		29	35
AgriMAXX EXP 1913	50.9		55.4		31	36
ARMOR VENOM	50.4	53.4	55.2	56.1	31	36
Dyna-Gro 9862	50.2	56.3	56.3	57.6	29	38
GoWheat 2059	50.0	50.0	55.9	55.2	27	35
AgriMAXX 463	49.9	50.4	55.6	55.2	28	35
PEMBROKE 2008	49.9	51.8	56.9	57.9	29	36
Go Wheat EXP18-1	49.3		54.9		29	37
AgriMAXX 485	49.2	59.3	55.6	56.7	29	38
DH12SRW057-006	49.1		55.3		28	36
LOCAL LW 2867	48.8		56.1		29	38
KAS Lincoln	48.7	56.8	56.1	57.7	30	38
GoWheat 2058	48.0	50.6	54.1	56.5	26	36
SYNGENTA SY VIPER	47.9	56.5	57.7	59.3	32	35
Bess	46.5	49.6	54.0	56.4	32	35
<b>Average</b>	<b>54.2</b>	<b>56.5</b>	<b>55.6</b>	<b>56.7</b>	<b>30</b>	<b>36</b>
C.V.	9.6	10.7				
LSD (0.10)	8.6	7.0				

Location: Fayette Co. (Lexington, KY)  
 Planting date: 10-18-18; Conventional tillage; Harvest date: 6-21-19.  
 Lodging = 0%.

**Table 11. 2019 Kentucky Wheat Variety Test - Southern Tier Region A.**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019	2019
KWS 19X09	110.7		57.6		1	37	23
GoWheat 2058	108.4	90.0	57.4	56.9	1	32	24
AgriMAXX EXP 1913	108.4		58.6		3	35	22
LCS L11713	108.1		58.5		1	35	22
PROGENY PGX 18-2	106.7		58.9		1	36	22
KY09C-1245-99-1-5	106.0		59.4		1	37	24
Dyna-Gro WX19711	105.7		59.2		0	34	25
Pioneer variety 26R59	104.7	90.1	57.7	56.8	0	32	25
Dyna-Gro WX18416	104.7		58.0		0	38	24
LOCAL LW 2848	104.5		57.6		0	38	25
AgriMAXX EXP 1902	104.0		58.2		0	35	26
LOCAL LW 2937	103.9		56.8		0	35	25
AgriMAXX 473	103.4	88.6	57.8	56.7	0	39	24
X12-3010-3-5-3	103.2		57.8		4	35	24
ARMOR SPIRIT	103.1	82.5	57.9	57.0	4	35	22
ARMOR RAGE	102.8	90.8	58.7	58.1	0	36	26
ARMOR MAYHEM	102.7	85.5	58.1	57.4	0	38	26
Dyna-Gro 9701	102.3	88.0	57.9	56.8	0	38	26
ARMOR ARW1816	102.1		57.5		0	35	26
KY06C-1178-16-10-3-34	101.7		58.0		1	38	25
KY10-0178-1-2-5	101.7		60.1		1	36	24
USG 3316	101.5	91.1	58.3	57.8	0	37	26
CROPLAN CP8550	101.2	86.5	58.6	57.7	0	38	25
Pioneer variety 26R45	101.2	90.5	56.6	56.1	0	36	25
PROGENY #BULLET	101.1	86.3	57.9	57.1	0	37	25
Dyna-Gro 9941	100.5	90.8	56.5	56.1	0	36	26
AgriMAXX 454	100.2	89.3	58.2	57.1	0	36	26
SYNGENTA SY VIPER	99.8	88.8	59.0	59.3	4	39	23
AgriMAXX 486	99.7	89.1	59.0	57.7	0	38	26
PROGENY #WARRIOR	99.4	87.1	56.9	56.5	0	35	24
Dyna-Gro WX19713	99.2		59.6		0	37	25
SYNGENTA SY 547	99.0	87.0	58.2	56.8	0	40	24
Pioneer variety 26R36	98.8	84.6	58.0	58.1	3	38	24
Go Wheat EXP18-2	98.8		56.6		0	37	24
LCS L11719	98.6	85.1	57.9	57.4	0	35	25
X10-0594-7-1-3	98.5		57.9		0	36	24
ARMOR ARW1766	98.4	87.8	58.0	57.2	0	37	24
Pioneer variety 26R41	98.2	84.8	57.7	56.7	0	35	24
Dyna-Gro WX19714	98.2		56.4		0	35	25
X11-0420-120-13-3	98.2		57.7		0	38	24
ARMOR VELOCITY	98.2		57.7		8	36	24
USG 3404	98.1	84.1	57.9	57.0	0	37	27
PROGENY PGX 18-8	97.9		57.7		0	34	25
KAS Lincoln	97.8	85.0	59.0	58.6	0	35	28

**Table 11** (continued)

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019	2019
PEMBROKE 2014	97.8	87.6	57.8	57.7	0	33	23
KY07C-1145-94-12-5	97.7	90.4	58.7	58.6	1	35	23
ARMOR ARW1815	97.6		59.2		0	37	26
ARMOR ARW1819	97.3		57.7		0	35	25
PROGENY #BLAZE	97.3	87.9	56.5	56.2	3	37	25
LOCAL LW Ex19D	97.2		57.7		0	34	25
CROPLAN CP8800	97.0		56.4		0	38	24
KAS Truman 18X6	97.0		59.5		0	38	26
KAS Roosevelt	96.8	85.1	57.7	57.2	0	37	25
Dyna-Gro 9932	96.8	85.4	58.5	57.8	0	35	26
KAS 19X9EX	96.8		59.2		0	34	23
USG 3329	96.8	86.3	57.3	56.7	3	37	25
AgriMAXX EXP 1906	96.5		57.9		0	37	24
Go Wheat EXP18-1	96.2		58.6		0	35	28
SYNGENTA SY 100	96.1	82.1	53.6	53.4	0	35	24
LOCAL LW 2867	95.8		58.5		1	36	28
PEMBROKE 2016	95.7	83.6	56.3	56.8	0	35	24
Dyna-Gro 9862	95.6	84.1	58.5	58.0	0	36	28
PROGENY PGX 17-16	95.5	87.7	59.5	58.7	5	38	25
AgriMAXX 485	95.4	81.4	58.9	58.4	0	36	29
SYNGENTA SX 8186	94.7		56.2		1	34	22
GoWheat 2059	94.6	83.8	56.2	56.1	0	33	24
DH12SRW056-058	94.2		59.1		9	37	23
KY09C-1245-99-12-3	94.0	83.0	57.7	56.6	0	36	23
Pioneer variety 26R10	93.9	82.6	56.9	56.4	0	35	25
KWS 19X03	93.9		57.6		0	33	28
CROPLAN CP9415	93.5	82.0	57.6	57.2	0	35	25
AgriMAXX 463	93.5	82.4	56.2	55.7	0	32	23
PEMBROKE 2008	93.0	80.5	57.7	57.6	0	35	23
Dyna-Gro 9980	92.7		58.5		3	33	23
LOCAL LW 2958	92.5		58.4		0	37	25
AgriMAXX 495	92.1		58.0		0	36	26
X12-619-205-14-1	91.9		57.1		1	36	24
SYNGENTA SX 8146	91.8		58.5		0	39	30
Bess	91.3	79.5	59.3	59.2	4	41	25
Truman	90.7	78.2	60.0	59.1	10	44	32
DH12SRW057-006	88.2		59.1		0	32	24
CROPLAN CP9606	87.1	74.6	55.8	55.1	0	36	24
ARMOR VENOM	86.0	82.6	56.5	56.2	4	37	26
<b>Average</b>	<b>98.4</b>	<b>85.5</b>	<b>58.0</b>	<b>57.2</b>	<b>1</b>	<b>36</b>	<b>25</b>
C.V.	5.8	6.4					
LSD (0.01)	9.5	6.8					

Location: Logan Co.  
 Planting date: 10-9-18; Conventional tillage; Harvest date: 6-13-19.

**Table 12. 2019 Kentucky Wheat Variety Test - Southern Tier Region B.**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019	2019
CROPLAN CP9415	110.2	100.9	60.1	61.7	3	34	26
SYNGENTA SY 100	109.2	95.6	58.0	57.5	24	33	26
USG 3404	107.8	94.8	60.8	58.9	10	36	28
Pioneer variety 26R10	107.6	97.6	61.0	59.5	19	34	27
Pioneer variety 26R59	107.4	103.7	60.3	62.0	0	31	24
PROGENY #WARRIOR	107.2	100.0	59.7	60.3	0	34	24
KAS Truman 18X6	105.1		60.9		25	36	27
SYNGENTA SX 8146	104.4		58.5		0	36	30
ARMOR RAGE	103.9	100.2	60.9	61.1	3	33	27
Dyna-Gro WX19714	103.4		59.8		43	33	27
KWS 19X03	103.1		60.2		0	32	29
KWS 19X09	102.4		60.2		0	36	24
USG 3329	102.3	97.7	59.6	59.4	0	36	25
AgriMAXX 454	101.6	101.2	60.1	61.6	0	34	28
CROPLAN CP9606	101.5	90.1	59.3	57.3	15	34	25
ARMOR ARW1815	101.3		63.2		0	36	27
Dyna-Gro WX19713	101.1		62.1		0	35	26
Dyna-Gro 9941	100.7	94.1	59.4	57.7	1	34	26
KY09C-1245-99-12-3	100.5	98.0	59.9	60.7	0	34	23
KAS Roosevelt	100.3	95.6	58.9	60.8	13	36	26
KY06C-1178-16-10-3-34	99.9		61.5		0	36	26
LOCAL LW 2958	99.7		61.4		5	36	27
AgriMAXX EXP 1902	99.7		60.1		0	33	27
CROPLAN CP8800	99.7		59.5		0	36	25
USG 3316	99.6	99.6	60.4	59.4	0	33	28
GoWheat 2058	99.6	94.1	60.9	60.7	0	30	24
Go Wheat EXP18-2	99.2		60.0		0	34	24
AgriMAXX EXP 1906	99.1		61.8		0	35	24
LCS L11719	98.6	92.9	60.7	60.1	18	32	25
LOCAL LW 2937	98.6		59.6		0	33	26
ARMOR ARW1766	98.1	98.2	62.1	61.4	0	35	24
CROPLAN CP8550	97.9	93.7	60.1	60.0	21	36	26
LCS L11713	97.8		61.7		0	32	22
Dyna-Gro 9701	97.8	92.1	60.3	59.9	0	37	27
DH12SRW056-058	97.7		61.0		3	33	25
ARMOR ARW1816	97.6		58.0		0	34	26
AgriMAXX 486	97.5	96.2	59.7	60.9	3	37	27
Pioneer variety 26R45	97.4	99.8	58.5	59.7	0	36	27
Pioneer variety 26R41	97.4	91.1	60.3	59.6	0	32	26
PROGENY #BULLET	97.3	96.4	60.0	59.8	20	36	28
ARMOR VELOCITY	97.3		60.5		0	34	24
AgriMAXX 463	97.3	98.4	59.6	59.9	0	33	24
Dyna-Gro 9932	97.2	90.4	61.0	59.9	5	34	25

**Table 12 (continued)**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019	2019
LOCAL LW Ex19D	97.1		60.9		5	32	25
KAS 19X9EX	97.0		60.5		0	32	23
AgriMAXX 473	96.7	90.3	59.9	58.2	0	36	27
Truman	96.6	95.0	59.4	60.6	3	41	32
KY07C-1145-94-12-5	96.6	94.1	60.3	60.6	0	33	23
PROGENY PGX 18-8	96.6		60.9		1	33	26
Dyna-Gro WX19711	96.2		60.9		0	31	27
Pioneer variety 26R36	96.1	85.8	60.3	59.2	23	35	27
X10-0594-7-1-3	96.0		60.6		0	34	24
PEMBROKE 2016	95.8	89.1	59.2	58.8	0	33	24
ARMOR MAYHEM	95.7	90.7	59.9	58.9	0	36	26
X12-619-205-14-1	95.6		60.1		0	35	24
ARMOR ARW1819	95.2		60.1		0	32	26
GoWheat 2059	95.1	95.5	59.3	59.5	4	32	24
PROGENY #BLAZE	95.1	97.4	58.4	59.6	20	36	26
PROGENY PGX 17-16	94.9	94.1	60.9	61.2	3	36	26
Dyna-Gro WX18416	94.6		60.6		0	35	25
PROGENY PGX 18-2	94.6		62.0		0	32	22
SYNGENTA SY VIPER	94.6	93.3	61.4	61.5	0	34	23
SYNGENTA SX 8186	94.1		58.5		0	31	21
X12-3010-3-5-3	94.0		59.4		6	32	24
KY09C-1245-99-1-5	93.9		61.0		0	35	24
LOCAL LW 2848	93.8		59.8		0	35	26
PEMBROKE 2008	93.7	85.9	60.8	60.2	0	33	24
X11-0420-120-13-3	93.5		60.0		0	36	25
Go Wheat EXP18-1	93.1		60.5		0	33	29
KY10-0178-1-2-5	93.1		61.0		0	32	25
AgriMAXX EXP 1913	93.0		61.8		1	32	22
ARMOR SPIRIT	92.8	86.4	61.6	60.7	0	33	22
SYNGENTA SY 547	92.6	93.3	59.3	59.8	0	37	24
ARMOR VENOM	92.3	89.1	60.6	58.4	0	36	27
LOCAL LW 2867	91.7		60.5		0	34	28
Dyna-Gro 9862	91.6	90.2	60.3	60.7	-1	33	28
AgriMAXX 485	91.6	91.4	59.6	59.7	5	33	29
AgriMAXX 495	91.5		60.6		0	34	26
DH12SRW057-006	90.7		61.8		0	31	24
Bess	89.6	84.8	61.1	60.8	1	37	25
PEMBROKE 2014	89.2	83.0	59.8	59.9	0	30	23
KAS Lincoln	88.6	91.7	60.3	62.0	0	33	28
Dyna-Gro 9980	83.9		60.6		1	31	24
<b>Average</b>	<b>97.5</b>	<b>93.9</b>	<b>60.3</b>	<b>60.0</b>	<b>4</b>	<b>34</b>	<b>25</b>
C.V.	6.2	7.5					
LSD (0.10)	13.5	8.3					

Location: Todd Co.

Planting date: 10-11-18; Conventional tillage; Harvest date: 6-12-19.

**Table 13. 2019 Kentucky Wheat Variety Test - North Central Region.**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019
Pioneer variety 26R59	82.1	82.1	55.6	56.4	30	35
CROPLAN CP9415	74.8	76.9	55.0	56.4	30	35
KWS 19X09	70.8		56.7		31	34
ARMOR ARW1815	69.9		56.4		32	35
USG 3329	68.9	71.1	56.1	55.5	31	35
CROPLAN CP8800	68.7		55.1		32	34
Go Wheat EXP18-2	68.2		56.1		29	34
USG 3404	68.2	73.7	56.6	56.8	32	36
CROPLAN CP9606	68.1	71.8	53.8	55.1	30	35
ARMOR MAYHEM	67.6	72.2	56.3	56.3	32	35
Pioneer variety 26R41	67.3	68.9	55.0	56.0	29	35
Dyna-Gro WX19713	67.3		56.9		31	35
KY06C-1178-16-10-3-34	66.5		55.4		32	35
KY07C-1145-94-12-5	66.1	69.2	57.9	57.1	31	34
ARMOR VOODOO	65.9		57.0		31	34
LOCAL LW 2937	65.9		53.8		31	34
Dyna-Gro 9701	65.9	70.4	55.9	55.8	33	35
KAS Truman 18X6	65.8		56.7		33	34
USG 3316	65.8	68.9	55.8	56.7	29	36
SYNGENTA SX 8146	65.4		54.9		32	38
KY09C-1245-99-1-5	65.2		57.2		31	35
Dyna-Gro 9932	64.7	71.5	56.9	57.7	30	35
DH12SRW056-058	64.3		57.9		31	34
Dyna-Gro 9941	64.3	69.4	53.7	53.6	30	34
KWS 19X03	64.0		53.7		27	36
KAS 19X9EX	63.7		57.3		28	34
ARMOR ARW1816	63.7		54.7		29	35
CROPLAN CP8550	63.4	68.0	56.0	56.4	32	35
SYNGENTA SY 100	63.4	65.0	53.0	53.1	29	36
AgriMAXX 473	63.1	67.9	56.1	56.0	31	35
Dyna-Gro WX19714	62.2		54.4		29	35
Truman	62.1	59.4	58.7	59.0	37	42
X12-3010-3-5-3	61.8		55.9		28	35
AgriMAXX EXP 1902	61.2		52.8		30	34
Pioneer variety 26R36	61.2	70.9	54.3	56.3	30	35
X11-0420-120-13-3	61.2		56.6		31	35
PROGENY #BLAZE	61.0	68.6	56.7	56.0	31	34
PROGENY PGX 17-16	60.9	68.3	56.4	57.7	30	35
ARMOR ARW1819	60.7		55.4		29	36
KAS Roosevelt	60.6	67.9	56.3	55.0	30	34
X10-0594-7-1-3	60.5		56.6		28	35
LOCAL LW 2848	60.4		56.5		33	36
PEMBROKE 2014	60.3	66.6	56.5	57.4	28	35
AgriMAXX 454	60.2	66.3	56.4	56.8	29	36



**Table 13 (continued)**

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Height (In)	Heading Date > April 1
	2019	2018-19	2019	2018-19	2019	2019
PROGENY #BULLET	60.2	67.6	56.8	55.8	31	35
KAS Lincoln	60.1	67.3	56.3	57.1	29	36
ARMOR RAGE	59.8	65.8	56.3	56.5	29	36
LOCAL LW 2867	59.8		56.5		30	36
ARMOR ARW1766	59.8	74.6	53.6	55.4	32	34
Go Wheat EXP18-1	59.7		56.3		29	36
SYNGENTA SY 547	59.6	63.6	55.7	57.2	34	34
AgriMAXX 486	59.3	67.7	54.5	56.6	30	36
SYNGENTA SY VIPER	58.9	65.2	58.5	57.8	34	34
ARMOR VENOM	58.5	64.6	56.7	55.4	30	35
LCS L11713	57.8		57.0		30	35
Pioneer variety 26R45	57.8	56.9	55.7	55.4	31	36
Dyna-Gro 9862	57.7	67.0	56.5	57.5	29	37
SYNGENTA SX 8186	57.6		54.5		30	35
Pioneer variety 26R10	57.4	69.8	55.5	56.0	29	35
LOCAL LW 2958	57.3		56.5		32	35
AgriMAXX EXP 1906	57.1		54.1		30	34
LCS L11719	57.1	59.7	56.0	56.9	29	36
AgriMAXX 485	57.1	67.2	56.4	57.7	29	36
PROGENY PGX 18-8	56.9		55.9		26	36
PROGENY #WARRIOR	56.8	60.2	55.5	55.6	29	35
LOCAL LW Ex19D	56.7		55.9		28	36
KY10-0178-1-2-5	56.7		56.7		29	36
KY09C-1245-99-12-3	56.7	57.4	56.5	56.2	30	34
GoWheat 2058	56.6	66.5	55.1	56.7	26	35
AgriMAXX 495	56.3		57.1		29	35
X12-619-205-14-1	55.9		56.4		27	35
Dyna-Gro WX18416	55.9		57.0		30	35
AgriMAXX 463	54.9	61.1	55.4	54.9	27	35
DH12SRW057-006	54.6		58.3		28	35
PEMBROKE 2016	54.4	64.2	55.2	56.6	28	35
GoWheat 2059	54.4	61.0	55.1	55.2	26	35
PEMBROKE 2008	53.8	62.3	57.1	57.6	28	35
Dyna-Gro WX19711	53.2		57.3		28	37
PROGENY PGX 18-2	50.9		56.8		29	35
AgriMAXX EXP 1913	49.6		57.0		28	35
ARMOR SPIRIT	49.2	57.6	57.4	55.7	29	35
Dyna-Gro 9980	47.5		57.3		29	35
Bess	46.1	51.0	56.2	56.4	31	36
<b>Average</b>	<b>60.8</b>	<b>66.7</b>	<b>56.0</b>	<b>56.3</b>	<b>30</b>	<b>35</b>
C.V.	13.8	10.9				
LSD (0.10)	13.9	8.3				

Location: Woodford Co.

Planting date: 10-18-18; Conventional tillage; Harvest date: 6-21-19.

Lodging = 0%

NOTE: DATA HIGHLY VARIABLE - DO NOT USE FOR VARIETY SELECTION

**Table 14. 2019 Kentucky Wheat Variety Test - Metribuzin Tolerance.**

VARIETY	Injury*	Yield (Bu/A)		Test Wt. (Lb/bu)		Height (in)		Heading Date > April 1	
		Control	TRT	Control	TRT	Control	TRT	Control	TRT
DH12SRW056-058	5.0	50.4	31.4	55.6	55.9	32	26	36	40
KY09C-0128-72-2-1	4.5	50.2	36.9	58.0	56.2	36	30	37	39
PEMBROKE 2016	4.5	52.4	35.7	54.3	54.7	27	24	37	38
X12-3010-3-5-3	4.5	47.9	36.8	54.1	52.8	27	22	36	39
Bess	4.0	55.3	53.0	56.6	58.0	34	31	36	38
KY06C-1178-16-10-3-34	4.0	60.3	49.8	55.4	57.0	32	30	36	39
X10-0594-7-1-3	4.0	48.8	43.8	52.9	55.3	27	25	36	38
AgriMAXX 486	3.5	58.9	56.9	54.4	54.2	32	30	37	38
AgriMAXX EXP 1906	3.5	55.1	45.2	51.3	53.1	31	27	34	36
ARMOR ARW1766	3.5	45.7	46.9	50.1	54.5	30	28	35	37
ARMOR SPIRIT	3.5	52.4	50.8	55.1	55.9	31	28	35	36
CROPLAN CP9415	3.5	59.0	52.4	52.2	53.7	31	29	36	39
KWS 19X09	3.5	60.7	49.1	54.0	55.1	34	26	36	37
LOCAL LW 2848	3.5	53.8	48.0	55.4	56.6	32	27	37	38
PEMBROKE 2008	3.5	45.3	46.2	55.0	56.3	27	27	35	37
PEMBROKE 2014	3.5	46.5	48.8	55.7	56.9	28	26	35	37
PROGENY #WARRIOR	3.5	57.3	48.1	52.1	54.9	32	27	35	38
PROGENY PGX 18-2	3.5	50.8	49.0	55.4	56.6	31	29	35	36
SYNGENTA SX 8186	3.5	46.4	44.9	52.5	54.3	29	27	35	37
SYNGENTA SY 547	3.5	48.9	49.5	54.1	54.5	33	29	35	37
AgriMAXX EXP 1913	3.5	52.5	48.4	55.7	55.0	31	28	35	35
LCS L11713	3.5	52.5	49.0	54.4	56.1	30	27	36	36
GoWheat 2059	3.0	49.5	52.7	55.2	54.8	27	26	36	36
AgriMAXX 463	3.0	50.2	53.2	54.8	55.4	29	26	37	37
AgriMAXX 495	3.0	54.2	67.3	56.1	57.3	31	30	36	36
ARMOR MAYHEM	3.0	57.5	52.0	55.1	56.2	34	31	37	38
CROPLAN CP8550	3.0	58.4	66.4	54.6	56.2	35	32	36	37
Dyna-Gro 9932	3.0	55.3	54.6	56.0	57.1	32	29	37	38
Dyna-Gro 9980	3.0	56.2	49.5	56.3	56.2	30	27	34	36
Dyna-Gro WX19713	3.0	59.5	55.7	55.9	56.4	32	28	36	37
KY09C-1245-99-1-5	3.0	58.3	63.8	55.2	58.0	31	29	35	36
LOCAL LW 2937	3.0	57.3	50.3	52.4	54.1	30	26	36	37
LOCAL LW 2958	3.0	47.2	51.2	55.9	57.6	32	30	36	38
Pioneer variety 26R45	3.0	55.5	57.2	54.8	55.6	32	30	36	37
Pioneer variety 26R59	3.0	61.8	55.2	53.6	55.4	28	26	36	37
SYNGENTA SY 100	3.0	57.4	52.5	52.0	53.4	29	27	36	38
SYNGENTA SY VIPER	3.0	47.4	51.4	57.0	56.9	33	31	36	37
Truman	3.0	52.6	60.8	59.2	59.8	38	36	45	45
USG 3329	3.0	56.0	51.9	55.1	55.0	31	27	35	37
AgriMAXX 473	2.5	56.8	61.9	54.6	55.9	34	31	36	37
AgriMAXX 485	2.5	48.7	51.9	54.9	55.6	30	28	37	39
AgriMAXX EXP 1902	2.5	50.8	59.7	50.6	51.7	28	29	35	36
ARMOR ARW1815	2.5	59.0	67.1	55.3	56.5	32	30	36	37
ARMOR ARW1816	2.5	59.3	65.8	53.5	54.3	32	31	36	37

**Table 14 (continued)**

VARIETY	Injury*	Yield (Bu/A)		Test Wt. (Lb/bu)		Height (in)		Heading Date > April 1	
		Control	TRT	Control	TRT	Control	TRT	Control	TRT
ARMOR VENOM	2.5	52.9	52.1	54.1	56.0	31	31	36	36
Dyna-Gro 9701	2.5	55.9	64.5	54.5	56.3	32	30	36	37
Go Wheat EXP18-1	2.5	47.8	54.7	55.2	56.9	30	29	37	38
Go Wheat EXP18-2	2.5	58.9	57.7	53.9	55.2	31	29	35	36
KAS 19X9EX	2.5	54.2	57.9	54.8	57.1	30	28	35	36
KAS Lincoln	2.5	48.5	52.0	54.6	55.5	29	28	38	38
KAS Truman 18X6	2.5	50.4	48.9	57.3	56.2	32	31	36	37
LOCAL LW 2867	2.5	48.5	56.4	55.0	55.3	28	29	38	39
Pioneer variety 26R41	2.5	50.6	56.1	53.9	55.1	28	27	37	37
PROGENY #BULLET	2.5	52.1	68.6	55.0	55.2	32	32	36	36
USG 3404	2.5	60.2	59.3	54.7	55.8	31	29	37	37
X12-619-205-14-1	2.5	48.7	48.7	54.7	55.8	27	25	36	37
ARMOR ARW1819	2.0	57.2	63.5	54.0	54.7	30	29	36	38
ARMOR RAGE	2.0	59.2	65.2	54.1	55.3	31	31	37	37
AgriMAXX 454	2.0	59.2	62.6	53.9	55.0	31	30	37	37
ARMOR VOODOO	2.0	61.4	61.6	55.6	56.2	32	30	36	36
CROPLAN CP8800	2.0	61.4	62.4	53.2	55.0	32	31	36	36
CROPLAN CP9606	2.0	59.3	59.0	52.1	53.6	32	30	36	36
DH12SRW057-006	2.0	52.0	53.4	55.2	57.5	29	27	36	36
Dyna-Gro 9862	2.0	49.3	57.8	54.9	56.2	32	29	38	38
Dyna-Gro 9941	2.0	62.4	60.1	51.1	53.1	32	29	35	37
Dyna-Gro WX19714	2.0	55.9	60.5	52.9	53.3	29	31	36	36
GoWheat 2058	2.0	49.1	51.9	53.0	54.4	28	27	36	36
KAS Roosevelt	2.0	62.3	62.5	54.1	55.7	33	31	35	36
KWS 19X03	2.0	60.3	64.8	51.2	53.8	28	28	37	37
KY09C-1245-99-12-3	2.0	49.8	53.3	53.8	55.0	30	30	35	36
KY10-0178-1-2-5	2.0	46.0	49.4	57.2	58.4	28	28	37	38
LCS L11719	2.0	56.4	58.9	52.5	54.3	29	27	36	37
LOCAL LW Ex19D	2.0	56.6	59.6	53.2	55.9	30	29	36	37
Pioneer variety 26R36	2.0	63.4	60.6	54.1	55.2	31	31	36	37
PROGENY #BLAZE	2.0	53.0	66.6	54.9	55.9	30	30	36	36
PROGENY PGX 17-16	2.0	52.1	59.0	55.2	56.4	33	30	37	36
SYNGENTA SX 8146	2.0	48.6	67.9	54.0	54.8	31	32	39	39
USG 3316	2.0	56.2	56.6	54.6	57.1	30	30	36	38
X11-0420-120-13-3	2.0	46.8	67.1	55.2	55.4	30	32	37	37
Dyna-Gro WX18416	1.5	52.2	65.7	55.5	57.1	30	32	36	35
KY07C-1145-94-12-5	1.5	54.4	61.7	57.1	56.6	30	30	35	35
Pioneer variety 26R10	1.5	57.2	54.8	53.8	54.8	31	29	36	37
Dyna-Gro WX19711	1.0	49.9	58.7	55.5	57.2	29	28	37	36
PROGENY PGX 18-8	1.0	57.7	63.9	53.1	54.9	29	29	36	37
<b>Average</b>	<b>2.7</b>	<b>54.0</b>	<b>55.2</b>	<b>54.5</b>	<b>55.6</b>	<b>31</b>	<b>29</b>	<b>36</b>	<b>37</b>

Location: Fayette Co. (Lexington, KY)

Planting date: 10-18-18; Conventional tillage; Harvest date: 6-26-19.

Lodging = 0%

Maximum labeled rate of 10 2/3 oz/A DimetricEXT (75%Metribuzin) applied 3-27-2019 (Feekes 4/5).

\*Injury Rating: 5=Severe, 1=No injury (Visual rating of chlorosis and necrosis recorded 4-10-19).

**Table 15. 2019 Kentucky Hulless Barley Variety Test.**

VARIETY	Yield (Bu/A)*	Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1
Dan	56.5	58.5	1	35	26
Eve	51.5	57.2	0	32	24
Doyce	51.0	52.5	0	31	25
AMAZE 10	50.5	57.8	43	32	27
<b>Average</b>	<b>52.4</b>	<b>56.5</b>	<b>11</b>	<b>33</b>	<b>25</b>

Location: Caldwell County, (Princeton, KY).

Planting date: 10-8-18; No-Till; Harvest Date: 6-11-19; \* 60-lb standard bushel weight.

**Table 16. 2019 Kentucky Barley Variety Test.**

VARIETY	Yield (Bu/A)* 2019	Yield (Bu/A)* 2018-19	Yield (Bu/A)* 2017-19	Test Wt. (Lb/bu) 2019	Lodging (%) 2019	Height (In) 2019	Heading Date > April 1 2019
VA11B-141 LA**	90.1	83.4		45.1	0	33	23
Secretariat**	87.3	79.9	88.0	46.1	1	28	25
Atlantic	84.3	64.9	80.8	44.3	3	28	24
FLAVIA**	81.6	79.7	92.4	44.9	27	27	27
Price	77.9	71.0	89.5	45.6	2	29	25
Hirondella**	73.1			44.5	7	30	30
LCS Violetta**	72.0	65.7	80.9	47.0	23	30	27
Thoroughbred**	71.2	71.2	86.5	42.3	45	31	26
Nomini	70.9	65.7	73.0	41.7	0	33	23
Barsoy	70.5	70.0	76.4	43.8	1	32	22
LCS Calypso**	68.2	73.1		45.2	44	34	29
<b>Average</b>	<b>77.0</b>	<b>72.5</b>	<b>83.4</b>	<b>44.6</b>	<b>14</b>	<b>30</b>	<b>25</b>

Location: Caldwell County, (Princeton, KY).

Planting date: 10-8-18; No-Till; Harvest Date: 6-11-19; \* 48-lb standard bushel weight.

\*\*Matling Barley

**Table 17. 2019 Kentucky Cereal Rye Variety Test.**

VARIETY	Yield (Bu/A)*	Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1
KWS-SH01**	68.8	51.2	0	50	35
KWS-SH02**	67.6	48.9	0	50	36
KWS Serafino**	67.3	52.0	0	55	38
KWS Fratello**	65.5	50.3	0	53	38
KWS Tayo**	64.7	49.5	0	55	38
KWS Brassetto**	61.9	51.5	0	55	39
KWS Trebiano**	60.6	50.5	0	55	38
KWS Bono**	60.3	52.1	0	54	38
Spooner	44.6	53.0	11	63	33
LAX Guardian	40.4	51.4	3	61	37
CCWRY1	40.3	51.3	3	61	38
Arookstook	40.1	48.8	22	61	25
KYSC1503	37.6	48.3	19	62	25
KYSC1704	36.5	49.2	9	64	26
KYSC1701	35.0	48.4	9	63	26
KYSC1707SP	33.2	46.2	10	64	27
KYSC1706	29.0	41.8	14	66	33
<b>Average</b>	<b>50.2</b>	<b>49.7</b>	<b>6</b>	<b>58</b>	<b>33</b>

Planted 10-18-18 and harvested 6-26-19 at Fayette Co., KY.

\*56-lb standard bushel weight; \*\* Hybrid Cereal Rye

**Table 18. 2019 Kentucky Triticale Variety Test.**

VARIETY	Yield (Bu/A)*	Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1
Hy Octane	60.1	51.9	0	48	38
Trical 154	59.0	49.6	0	47	30
SS1414	51.2	48.7	0	46	31
TriCal Exp 917	51.0	48.8	0	48	37
TriCal Exp 19T02	50.4	48.8	0	46	38
Arcia	48.8	46.7	0	45	31
Trical Flex 719	48.2	47.8	0	60	40
TriCal Exp 19T01	48.2	49.0	0	46	37
Merlin Max	45.2	48.0	0	50	39
Trical Surge	42.6	44.4	0	56	38
SY TF 813	37.7	43.7	0	59	40
TriCal Exp 19T03	36.6	46.5	7	66	36
<b>Average</b>	<b>48.3</b>	<b>47.8</b>	<b>1</b>	<b>51</b>	<b>36</b>

Planted 10-18-18 and harvested 6-26-19 at Fayette Co., KY.

\* 60-lb standard bushel weight

**Table 19. 2019 Kentucky Oat Variety Test.**

VARIETY	Yield (Bu/A)*	Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > May 1	Winter Survival
SCLA 0100214	79.7	36.8	2	31	11	99
NC12-3578	78.6	39.3	44	33	10	99
NC12-3447	76.1	37.6	23	34	10	98
CCWO1903	74.1	36.4	3	34	27	100
SS 76-50	73.0	37.1	5	34	10	94
CCWO1908	73.0	34.1	0	32	30	94
NC12-3922	71.0	39.7	4	33	10	99
Gerard 224	69.9	38.5	6	32	11	99
Gerard 229	69.1	38.3	53	31	11	100
GRAHAM	66.5	36.9	0	30	12	92
RAM 99016	61.5	36.4	0	35	10	89
NC09-4274N**	58.8	39.0	6	35	11	99
SCOP 86-4	57.7	37.5	4	33	10	98
<b>Average</b>	<b>69.9</b>	<b>37.5</b>	<b>12</b>	<b>33</b>	<b>13</b>	<b>97</b>

Planted 10-18-18 and harvested 6-26-19 at Fayette Co., KY.

\* 32-lb standard bushel weight; Winter Survival (%)

\*\* Hulless Oat.

**Table 20. 2019 Kentucky Spelt Variety Test.**

VARIETY	2019 Yield (Bu/A)*	Test Wt. (Lb/bu)	Height (In)	Heading Date > April 1	Head Scab Rating
Mavrick	68.6	n/a	50	18	2.0
Sungold	68.4	27	44	20	3.4
Comet	67.4	n/a	37	15	4.3
Sammy	66.5	29.5	44	16	4.4
Zollernperle	63.8	22.9	43	24	3.2
Sonic	50.7	25.8	49	25	4.0
Zollernspelz	39.3	21.7	41	26	4.4
<b>Average</b>	<b>60.7</b>	<b>25.4</b>	<b>44</b>	<b>20</b>	<b>3.7</b>

Planted 10-18-18 and harvested 7-1-19 at Fayette Co., KY.

\* 40-lb standard bushel weight

Head Scab Rating: 1=resistant, 9=susceptible

## Wheat Varieties Tested in 2019

### AgriMAXX Wheat Co.

7167 Highbanks Rd.  
Mascoutak, IL 62258

AgriMAXX 454  
AgriMAXX 463  
AgriMAXX 473  
AgriMAXX 485  
AgriMAXX 486  
AgriMAXX 495  
AgriMAXX EXP 1902  
AgriMAXX EXP 1906  
AgriMAXX EXP 1913

### AgriPro

14031 Trestle Rd.  
Highland, IL 62249

SYNGENTA SX 8146  
SYNGENTA SX 8186  
SYNGENTA SY 100  
SYNGENTA SY 547  
SYNGENTA SY VIPER

### Armor Seed

PO Box 9  
Waldenburg, AR 72475

ARMOR ARW 1766  
ARMOR ARW 1815  
ARMOR ARW 1816  
ARMOR ARW 1819  
ARMOR MAYHEM  
ARMOR RAGE  
ARMOR SPIRIT  
ARMOR VENOM  
ARMOR VELOCITY

### CORTEVA Agriscience

425 Abbeydale Way  
Columbia, SC 29229

Pioneer variety 26R10  
Pioneer variety 26R36  
Pioneer variety 26R41  
Pioneer variety 26R45  
Pioneer variety 26R59

### Dyna-Gro Seed

2660 Orr Rd.  
Bloomville, OH 44818

Dyna-Gro 9701  
Dyna-Gro 9862  
Dyna-Gro 9932  
Dyna-Gro 9941  
Dyna-Gro 9980  
Dyna-Gro WX 18416  
Dyna-Gro WX 19711  
Dyna-Gro WX 19713  
Dyna-Gro WX 19714

### Kentucky American Seeds, Inc.

205 Means Ave.  
Hopkinsville, KY 42240

KAS 19X9EX  
KAS Truman 18x6  
KAS Lincoln  
KAS Roosevelt

### Kentucky Foundation Seed Project

University of Kentucky PO Box  
11950

Lexington, KY 40579

KY06C-1178-16-10-3-34  
KY07C-1145-94-12-5  
KY09C-0128-72-2-1  
KY09C-1245-99-1-5  
KY09C-1245-99-12-3  
KY10-0178-1-2-5  
X10-0594-7-1-3  
X11-0420-120-13-3  
X12-3010-3-5-3  
X11-619-205-14-1

### Kentucky Small Grain Growers Association

PO Box 90  
Eastwood, KY 40018

PEMBROKE 2008  
PEMBROKE 2014  
PEMBROKE 2016

### KWS Seeds

4101 Colleen Dr.  
Champaign, IL 61822

KWS 19X03  
KWS 19X09

### Limagrain Cereal Seeds

7099 Parkborrk Lane  
Cordova, TN 38018

LCS L11713  
LCS L11719

### LOCAL SEED

802 Rozelle St.  
Memphis, TN 38104

LOCAL LW 2848  
LOCAL LW 2867  
LOCAL LW 2937  
LOCAL LW 2958  
LOCAL LW 2Ex19D

### Progeny AG Products

1529 Hwy 193  
Wynne, AR 72396

PROGENY #BLAZE  
PROGENY #BULLET  
PROGENY #WARRIOR  
PROGENY PGX 17-16  
PROGENY PGX 18-2  
PROGENY PGX 18-8

### Stratton Seed

PO Box 1088  
Stuttgart, AR 72160

AGS 2055  
Go Wheat EXP18-1  
Go Wheat EXP18-2  
Go Wheat 2058  
Go Wheat 2059

### University of Missouri

Columbia, MO 65211

Bess  
Truman

### UniSouth Genetics

3205-C Hwy. 46S  
Dickson, TN 37055

USG 3316  
USG 3329  
USG 3404

### Virginia Tech

PO Box 338  
Warsaw, VA 22572

DH12SRW056-058  
DH12SRW057-006

### Winfield

1080 County Road F West  
Shoreview, MN 55126

CROPLAN CP8550  
CROPLAN CP8800  
CROPLAN CP9415  
CROPLAN CP9606



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