

2017 Kentucky Small Grain

VARIETY PERFORMANCE TEST

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www.uky.edu/ag/WheatVarietyTest

The 2017 soft red winter wheat growing season ended with Kentucky farmers harvesting approximately 350,000 acres of the 490,000 acres planted, for a total production of 25.2 million bushels of grain. An average yield of 72 bushels per acre was expected (Table 1). The acreage not harvested for grain was primarily used for forage production and cover cropping.

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 103 wheat entries were evaluated under both conventional and no-till cultural practices. No-till tests were grown at two locations, and conventional tests were grown at five 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 one (disease rating) test. An insecticide for aphid control was typically applied in the fall and spring. Nitrogen was applied

Table 1. Wheat Acreage Harvested and Yields (bu/ac) in Kentucky, 2015-17.*

2017		2016		2015	
Harvested	Yield	Harvested	Yield	Harvested	Yield
350,000	72	400,000	80	470,000	73

*June 9, 2017, National Agricultural Statistics Service.

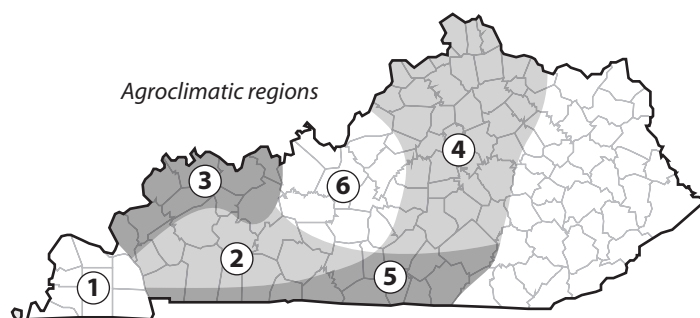


Table 2. Agroclimatic Regions of Kentucky Small Grain Variety Tests.

Region	Location	Cooperator	Crop Tested
1 Purchase	Calloway Co.	Mike Burchett	Wheat*
2 Western Coal Field	Caldwell Co.	Princeton Research and Education Ctr.	No-till wheat, barley
3 Ohio Valley	Union Co.	Randy Hagan	No-till wheat
4 Bluegrass	Fayette Co.	Kentucky Ag. Exp. Station	Wheat*
5 Southern Tier	Logan Co.	Don Halcomb	Wheat*
	Todd Co.	Tim, Wade and Maurice Chester	Wheat*
6 North Central	Woodford Co.	UK Woodford Farm Shannon Rudd	Wheat*, triticale, oat, cereal rye

* Conventional tillage.

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: powdery mildew, head scab, leaf rust, stripe rust and Septoria leaf blotch were recorded at the Fayette County (non-fungicide) forage test. 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 (hullless and hulled) variety performance data are presented in tables 14 and 15. Cereal rye, triticale, and oat variety performance data are presented in tables 16, 17, and 18, respectively.

Test Conditions

Average temperatures and precipitation during October favored timely planting throughout many areas of the state. The 2017 Kentucky small grain variety tests were planted from October 10 to October 19. Record warm temperatures in January and February accelerated growth and development. A severe freeze occurred in mid-March with multiple days of low temperatures in the mid-teens across the state. Temperatures were above average in April and normal in May. Wheat headed several weeks earlier than normal and matured about a week earlier than normal. Dry and warm conditions during early June favored dry-down and harvest. Heavy rains in mid-June slowed harvest in some area of the state.

Acknowledgments

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Wheat Varieties Tested in 2017

AgriMAXX Wheat Co.

7167 Highbanks Rd.
Mascoutak, IL 62258

AgriMAXX 438
AgriMAXX 444
AgriMAXX 446
AgriMAXX 454
AgriMAXX 463
AgriMAXX 473
AgriMAXX 474
AgriMAXX 475
AgriMAXX EXP 1785
AgriMAXX EXP 1786

Armor Seed

PO Box 9
Waldenburg, AR 72475

ARMOR ARW 1511
ARMOR ARW 1575
ARMOR ARW 1610
ARMOR ARW 1612
ARMOR ARW 1653
ARMOR MENACE
ARMOR RAGE

Beck's Hybrids

6767 E. 276th
Atlanta, IN 46031

BECK 120
BECK 123
BECK 125
BECK 128

Dupont Pioneer

59 Greif Parkway,
Ste. 200
Delaware, OH 43015

Pioneer variety 26R10
Pioneer variety 26R36
Pioneer variety 26R41
Pioneer variety 26R53
Pioneer variety 26R59
Pioneer variety XW15C

Dyna-Gro Seed

2760 Keller Rd.
Owensboro, KY 43201

Dyna-Gro 9223
Dyna-Gro 9522
Dyna-Gro 9701
Dyna-Gro 9750
Dyna-Gro 9772
Dyna-Gro WX 17782

Equity Seed

PO Box 978
Westfield, IN 46074

DEI 16053
DEI 16087

Kentucky American Seeds, Inc.

205 Means Ave.
Hopkinsville, KY 42240

KAS Jefferson
KAS Liberty IV
KAS Rumble
KAS S1300

Kentucky Foundation Seed Project

University of Kentucky
PO Box 11950
Lexington, KY 40579

KY06C-1178-16-10-3
KY06C-2067-16-7-1
KY07C-1145-94-12-5
X08C-1077-11-18-3
X08C-1181-61-15-5

Kentucky Small Grain Growers Association

PO Box 90
Eastwood, KY 40018

PEMBROKE 2008
PEMBROKE 2014
PEMBROKE 2016

Limagrain Cereal Seeds

257 E. Hail
Bushnell, IL 61422

L11538
L11550
L11610
L11621

Progeny AG Products

1529 Hwy 193
Wynne, AR 72396

PROGENY #Boss
PROGENY #Bullet
PROGENY #Turbo
PROGENY #Warrior
PROGENY P 243
PROGENY P 357
PROGENY PGX 14-5
PROGENY PGX 16-1
PROGENY PGX 16-3
PROGENY PGX 16-4

Seed Consultants, Inc.

648 Miami Trace Rd. SW
Washington Court House,
OH 43160

SC 13S07™
SC 13S17™
SC 13S26™
SC 13S37™

Steyer Seeds

PO Box 209
Old Fort, OH 44861

STEYER STex166
STEYER Wharton

Stratton Seed

PO Box 1088
Stuttgart, AR 72160

AGS 2055
Go Wheat 2058
Go Wheat 2059
Go Wheat Exp 100

Syngenta Seeds

14031 Trestle Rd.
Highland, IL 62249

SYNGENTA SY 100
SYNGENTA SY 547
SYNGENTA SY HARRISON
SYNGENTA VIPER

University of Missouri

Columbia, MO 65211
Truman

University of Tennessee

Knoxville, TN 37996

TN1501
TN1604

Texas A&M AgriLife Research

2600 S. Neal
Commerce, TX 75429

TX-EL2

UniSouth Genetics

3205-C Hwy. 46S
Dickson, TN 37055

USG 3197

USG 3228

USG 3316

USG 3404

USG 3448

USG 3536

USG 3895

Virginia Tech

PO Box 338
Warsaw, VA 22572

Hilliard
VA 11W-108PA
VA 12W-31
VA 12W-68
VA 13W-38

Winfield

15 Ringel Ave.
Wabash, IN 46992

CROPLAN SRW 9415
CROPLAN SRW 9606
CROPLAN SS 8550

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Table 3. 2017 Kentucky Wheat Test - Overall State Summary.*

VARIETY	Yield (Bu/A)			Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2015-17	2017	2017	2017	2017
Pioneer variety 26R10	95.4	93.4	92.0	59.0	2	34	19
PROGENY PGX 16-3	95.2			58.7	8	36	19
Pioneer variety 26R59	95.2	92.3		58.4	2	31	18
CROPLAN SRW 9415	95.1	92.6		58.4	4	35	20
BECK 128	94.8	90.8	90.4	58.7	1	35	19
AgriMAXX 454	94.7	90.3		58.8	0	35	19
EXPZ095	94.4			57.8	12	37	20
ARMOR RAGE	94.0			58.8	4	35	19
EXPZ133	94.0			59.4	5	36	17
SC 13S37TM	93.8			60.0	5	35	20
STEYER STex166	93.2			57.8	5	36	19
Dyna-Gro 9522	93.1	92.0	90.6	58.0	1	36	20
Go Wheat 2058	93.0			59.0	0	31	19
EXPZ127	92.8			58.4	2	36	19
AgriMAXX 446	92.6	92.4	92.1	58.5	4	35	20
USG 3404	92.5	93.3	92.3	57.8	3	36	20
AgriMAXX Exp. 1785	92.4			60.0	5	35	20
Pioneer variety XW15C	92.3			57.3	9	36	19
ARMOR ARW1511	92.1			59.0	4	37	19
PROGENY #Warrior	92.1	91.3		57.9	4	35	18
Pioneer variety 26R36	92.1	91.4	91.7	59.1	2	36	19
Dyna-Gro WX17782	92.0			60.3	4	35	20
SC 13S26TM	92.0	86.4		58.2	1	35	19
AgriMAXX 444	92.0	91.9	91.5	58.1	1	36	20
EXPZ050	91.7			61.5	2	31	19
SYNGENTA SY 100	91.7			56.5	1	33	20
BECK 120	91.4	90.1	89.6	56.3	7	33	18
CROPLAN SS 8550	91.3			59.0	7	37	19
AgriMAXX 474	91.2	89.8		57.5	6	34	18
AgriMAXX 438	91.0	92.2	92.2	58.2	10	37	19
PROGENY #Bullet	91.0	90.5		59.0	7	37	19
L11621	90.9			59.9	26	35	19
Pioneer variety 26R41	90.7	91.5	89.6	58.4	2	33	19
AgriMAXX Exp. 1786	90.7			58.7	9	37	20
USG 3316	90.7			58.6	1	35	19
CROPLAN SRW 9606	90.6			57.4	4	35	18
Dyna-Gro 9223	90.4	91.1	90.2	58.1	8	36	19
AgriMAXX 473	90.3			59.2	7	36	19
EXPZ136	90.3			58.2	14	34	19
EXPZ126	90.3			57.1	3	33	18
KY06C-1178-16-10-3	90.2	85.9		58.7	7	37	19
Pioneer variety 26R53	89.7	88.5	86.5	59.5	5	33	19
PROGENY P 357	89.4	86.8	87.2	56.6	5	35	21
PROGENY #BOSS	89.3			56.8	5	34	18
Dyna-Gro 9701	89.3			58.6	2	37	19
Go Wheat 2059	89.0			58.1	0	33	18
USG 3536	89.0			58.8	4	37	19
AgriMAXX 463	89.0	91.8		57.7	0	32	18
SYNGENTA SY HARRISON	88.6	87.5		56.9	2	34	19
BECK 125	87.5	87.4	86.9	59.3	9	36	19
SC 13S07TM	86.9	84.5		57.1	6	36	18
L11550	86.2			59.3	4	34	19
USG 3895	86.1	88.8		57.7	3	33	19
USG 3228	85.8			57.6	4	32	18

Table 3 (continued)

VARIETY	Yield (Bu/A)			Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2015-17	2017	2017	2017	2017
Dyna-Gro 9750	85.6			57.6	2	32	18
BECK 123	85.5	85.1	84.9	58.7	6	37	17
EXPZ141	85.5			60.6	2	34	19
ARMOR ARW1612	85.3			59.3	5	39	20
VA12W-31	85.2			59.2	11	34	19
USG 3197	85.1	87.2		57.1	14	35	18
KAS JEFFERSON	85.0			56.8	10	36	18
EXPZ122	84.9			58.9	9	37	20
L11538	84.7			58.1	8	36	20
TN 1604	84.7			58.0	7	35	19
KAS LIBERTY IV	84.4	84.3	86.0	56.8	13	34	19
KAS RUMBLE	84.4			58.2	19	37	19
L11610	84.3			59.2	13	34	18
SYNGENTA SY VIPER	84.1	85.7		59.3	10	37	18
KY06C-2067-16-7-1	84.1	81.0		58.5	1	34	18
AGS 2055	84.0			57.4	0	35	19
KY07C-1145-94-12-5	83.9			59.9	5	34	18
PEMBROKE 2016	83.7	84.2	83.8	59.0	5	33	18
ARMOR ARW1610	83.1			59.1	8	34	19
HILLIARD	83.1	86.9	85.8	58.5	5	35	18
X08C-1077-11-18-3	83.0			59.0	0	34	19
PROGENY PGX 14-5	82.8		79.7	61.2	10	38	18
X08C-1181-61-15-5	82.5			59.9	3	35	20
PROGENY P 243	82.4	81.6		58.9	4	36	18
VA11W-108PA	82.2			58.1	4	35	18
SC 13S17TM	82.1	84.3		58.3	5	34	18
STEYER Wharton	81.7	82.8		58.0	8	33	18
USG 3448	81.6			58.5	6	34	18
Go Wheat Exp 100	81.3			58.2	6	34	18
SYNGENTA SY 547	81.0	83.5	84.4	58.4	10	37	18
TN 1501	80.7			56.3	10	34	18
PEMBROKE 2014	80.7	79.6	80.1	59.6	0	31	17
VA12W-68	80.5			58.3	4	34	18
KAS S1300	80.4			58.4	5	33	18
Dyna-Gro 9772	80.1	84.0	83.5	57.0	9	35	18
PEMBROKE 2008	79.9	77.8	78.8	58.7	2	35	18
ARMOR ARW1575	79.4			58.9	1	35	19
ARMOR MENACE	79.3			58.5	4	34	18
AgriMAXX 475	78.8			58.3	10	34	18
DEI 16087	78.1			59.8	8	35	18
TX-EL2	77.5			58.3	11	33	19
PROGENY PGX 16-4	75.6			58.4	8	34	19
Truman	75.1	75.5	77.3	60.4	1	41	27
DEI 16053	74.4			58.7	11	35	16
PROGENY PGX 16-1	74.3			57.2	5	33	20
PROGENY #Turbo	74.2	79.1		58.1	0	31	19
VA13W-38	73.7			59.5	3	33	18
ARMOR ARW1653	72.0			59.3	8	36	18
Clark	61.5			58.1	3	39	17
AVERAGE	86.4	87.3	87.0	58.5	6	35	19
C.V.	8.5	8.0	7.9				
LSD (0.10)	4.9	8.0	6.5				

* Summary of six tests - (Caldwell, Woodford, Logan, Union, Calloway, and Fayette counties).

Table 4. 2017 Kentucky Wheat Forage Test.

VARIETY	DM Yield* at Soft Dough Stage Tons/acre			Head Type
	2017	2016-17	2015-17	
ARMOR ARW1511	4.85			Bearded
AgriMAXX Exp. 1786	4.77			Bearded
HILLIARD	4.75	4.23	3.86	Bearded
KY06C-2067-16-7-1	4.75	4.02		Smooth
X08C-1181-61-15-5	4.74			Smooth
CROPLAN SS 8550	4.64			Bearded
EXPZ136	4.60			Bearded
TN 1604	4.60			Smooth
L11621	4.58			Bearded
KY07C-1145-94-12-5	4.57			Smooth
ARMOR ARW1610	4.55			Bearded
L11550	4.54			Bearded
BECK 125	4.53	4.29	3.99	Bearded
ARMOR ARW1612	4.52			Smooth
AgriMAXX 444	4.48	3.72	3.59	Bearded
ARMOR RAGE	4.43			Bearded
Dyna-Gro 9522	4.42	3.84	3.81	Bearded
EXPZ133	4.42			Bearded
USG 3197	4.42	3.87		Bearded
Pioneer variety 26R10	4.41	4.13	4.02	Bearded
USG 3228	4.41			Smooth
EXPZ095	4.39			Smooth
KAS LIBERTY IV	4.39	3.83	3.67	Bearded
PROGENY PGX 16-4	4.37			Smooth
ARMOR ARW1575	4.36			Smooth
Dyna-Gro 9701	4.36			Bearded
PROGENY PGX 16-3	4.36			Bearded
SC 13S26TM	4.36	4.32		Bearded
USG 3316	4.36			Bearded
L11610	4.35			Smooth
PROGENY #Bullet	4.35	3.73		Bearded
CROPLAN SRW 9606	4.34			Bearded
VA12W-31	4.33			Bearded
VA12W-68	4.32			Bearded
Pioneer variety 26R59	4.29	3.69		Smooth
EXPZ141	4.26			Bearded
AgriMAXX 463	4.23	3.82		Smooth
SYNGENTA SY 547	4.23	3.79	3.66	Smooth
EXPZ127	4.21			Bearded
KY06C-1178-16-10-3	4.21	3.71		Bearded
SC 13S07TM	4.21	3.75		Bearded
PEMBROKE 2014	4.20	3.77	3.67	Bearded
VA11W-108PA	4.20			Bearded
AgriMAXX 438	4.19	3.89	3.80	Smooth
CROPLAN SRW 9415	4.19	3.91		Bearded
SYNGENTA SY HARRISON	4.19	3.80		Bearded
SYNGENTA SY VIPER	4.19	3.63		Smooth
AGS 2055	4.18			Bearded
L11538	4.18			Bearded
SC 13S37TM	4.18			Smooth
Dyna-Gro WX17782	4.16			Smooth
USG 3536	4.16			Bearded
VA13W-38	4.13			Bearded
Pioneer variety 26R41	4.11	3.86	3.61	Bearded
AgriMAXX 473	4.10			Bearded

VARIETY	DM Yield* at Soft Dough Stage Tons/acre			Head Type
	2017	2016-17	2015-17	
Dyna-Gro 9772	4.10	3.60	3.40	Bearded
BECK 128	4.09	3.81	3.68	Bearded
BECK 123	4.08	3.75	3.63	Bearded
PROGENY PGX 16-1	4.07			Smooth
Dyna-Gro 9223	4.06	3.81	3.78	Smooth
AgriMAXX 454	4.04	3.92	3.82	Bearded
BECK 120	4.04	3.69	3.63	Bearded
EXPZ050	4.04			Smooth
PROGENY P 357	4.04	3.47	3.62	Bearded
Truman	4.04	3.37	3.24	Smooth
USG 3404	4.03	3.88	3.69	Bearded
PROGENY #BOSS	4.02			Bearded
AgriMAXX Exp. 1785	4.01			Smooth
KAS RUMBLE	4.00			Bearded
PEMBROKE 2016	4.00	3.85	3.76	Bearded
DEI 16053	3.98			Smooth
TX-EL2	3.97			Bearded
X08C-1077-11-18-3	3.97			Smooth
EXPZ126	3.94			Bearded
Pioneer variety XW15C	3.94			Smooth
Clark	3.93			Smooth
SYNGENTA SY 100	3.91			Smooth
USG 3895	3.90	3.66		Bearded
TN 1501	3.89			Bearded
DEI 16087	3.88			Smooth
STEYER Wharton	3.88	3.64		Bearded
AgriMAXX 446	3.87	3.57	3.76	Bearded
PROGENY #Turbo	3.86	3.31		Smooth
SC 13S17TM	3.82	3.53		Bearded
Go Wheat Exp 100	3.81			Bearded
Pioneer variety 26R36	3.80	3.50	3.44	Bearded
PROGENY PGX 14-5	3.79		3.65	Smooth
AgriMAXX 474	3.78	3.46		Smooth
PROGENY P 243	3.78	3.47	3.37	Bearded
USG 3448	3.78			Bearded
ARMOR MENACE	3.69			Bearded
ARMOR ARW1653	3.68			Bearded
Dyna-Gro 9750	3.68			Smooth
EXPZ122	3.68			Smooth
STEYER STex166	3.66			Bearded
Go Wheat 2059	3.65			Smooth
KAS JEFFERSON	3.65			Bearded
PEMBROKE 2008	3.65	3.47	3.29	Bearded
Go Wheat 2058	3.61			Bearded
KAS S1300	3.61			Bearded
PROGENY #Warrior	3.61	3.59		Smooth
Pioneer variety 26R53	3.49	3.51	3.38	Bearded
AgriMAXX 475	3.36			Bearded
AVERAGE	4.14	3.75	3.65	
C.V.	13.37	13.04	12.04	
LSD (0.10)	0.91	0.60	0.44	

Location: Bluegrass Region - Fayette Co.; Conventional tillage.

Planting date: 10-12-16

Harvest date: 5-22-17

*DM=Dry Matter Yield

Table 5. 2017 Kentucky Wheat Straw Test.

VARIETY	DM Yield* Tons/acre		
	2017	2016-17	2015-17
ARMOR ARW1612	2.63		
AgriMAXX 474	2.58	2.39	
SC 13S17TM	2.49	2.14	
AGS 2055	2.35		
Dyna-Gro WX17782	2.29		
PROGENY #Warrior	2.28	2.01	
SYNGENTA SY 100	2.27		
KY06C-2067-16-7-1	2.26	1.91	
DEI 16053	2.20		
Go Wheat 2058	2.18		
Go Wheat Exp 100	2.18		
BECK 128	2.16	2.08	1.65
SC 13S26TM	2.16	2.38	
CROPLAN SRW 9415	2.14	2.17	
VA12W-68	2.14		
L11610	2.13		
VA11W-108PA	2.12		
L11538	2.10		
Dyna-Gro 9772	2.07	1.95	1.66
AgriMAXX 444	2.05	1.98	1.68
Pioneer variety 26R10	2.03	2.10	1.59
SC 13S07TM	2.03	1.80	
KY06C-1178-16-10-3	2.02	1.84	
Truman	2.01	2.02	1.80
Clark	2.00		
SYNGENTA SY HARRISON	1.99	1.94	
BECK 123	1.99	2.08	1.67
ARMOR ARW1653	1.96		
Dyna-Gro 9223	1.93	2.09	1.74
EXPZ095	1.93		
PROGENY P 357	1.92	1.76	1.41
HILLIARD	1.91	2.18	1.81
SYNGENTA SY 547	1.90	2.00	1.59
AgriMAXX 438	1.88	2.08	1.63
ARMOR RAGE	1.87		
USG 3404	1.86	1.82	1.52
AgriMAXX 446	1.85	1.90	1.46
PROGENY PGX 16-4	1.85		
Dyna-Gro 9522	1.84	2.13	1.67
ARMOR ARW1610	1.83		
PEMBROKE 2014	1.79	1.92	1.64
EXPZ050	1.79		
SYNGENTA SY VIPER	1.78	1.87	
TN 1604	1.78		
USG 3448	1.78		
USG 3197	1.77	1.61	
Dyna-Gro 9750	1.75		
AgriMAXX Exp. 1785	1.74		
KAS LIBERTY IV	1.72	1.76	1.44
AgriMAXX 473	1.72		
ARMOR ARW1511	1.71		
SC 13S37TM	1.68		
EXPZ141	1.68		
L11550	1.68		
PROGENY PGX 16-3	1.66		

VARIETY	DM Yield* Tons/acre		
	2017	2016-17	2015-17
EXPZ127	1.65		
PROGENY P 243	1.64	1.80	1.53
USG 3895	1.64	1.71	
Pioneer variety 26R53	1.62	1.62	1.28
AgriMAXX 463	1.62	1.64	
AgriMAXX Exp. 1786	1.60		
PEMBROKE 2016	1.58	1.66	1.43
AgriMAXX 454	1.58	1.60	1.32
VA13W-38	1.58		
EXPZ126	1.57		
USG 3536	1.57		
PROGENY PGX 16-1	1.56		
PROGENY #Bullet	1.53	1.94	
ARMOR ARW1575	1.53		
PEMBROKE 2008	1.52	1.61	1.40
CROPLAN SS 8550	1.52		
Pioneer variety 26R41	1.51	1.77	1.38
X08C-1181-61-15-5	1.51		
VA12W-31	1.51		
Pioneer variety XW15C	1.50		
ARMOR MENACE	1.48		
X08C-1077-11-18-3	1.46		
BECK 125	1.45	1.59	1.21
STEYER STex166	1.45		
TN 1501	1.45		
Pioneer variety 26R36	1.44	1.81	1.44
KAS JEFFERSON	1.44		
EXPZ122	1.42		
KY07C-1145-94-12-5	1.40		
PROGENY #BOSS	1.39		
CROPLAN SRW 9606	1.34		
TX-EL2	1.29		
USG 3316	1.28		
Go Wheat 2059	1.21		
USG 3228	1.20		
L11621	1.17		
EXPZ133	1.15		
EXPZ136	1.15		
PROGENY #Turbo	1.14	1.25	
PROGENY PGX 14-5	1.12		1.21
KAS S1300	1.12		
AgriMAXX 475	1.10		
BECK 120	1.09	1.30	1.17
KAS RUMBLE	1.08		
Dyna-Gro 9701	1.08		
STEYER Wharton	1.05	1.24	
Pioneer variety 26R59	1.04	1.59	
DEI 16087	1.01		
AVERAGE	1.71	1.86	1.51
C.V.	31.00	30.89	29.95
LSD (0.10)	0.88	0.64	0.47

Location: Bluegrass Region - Fayette Co.; Conventional tillage

Planting date: 10-12-16

Harvest date: 6-13-17

* Dry matter straw yield following grain harvest.

Table 6. 2017 Kentucky Wheat Test - Purchase Region.

VARIETY	Yield (Bu/A)		Test Wt. (Lb/Bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
AgriMAXX 446	98.3	104.6	59.7	59.2	6	36	19
ARMOR RAGE	96.6		60.1		0	35	18
AgriMAXX 454	95.8	102.2	59.9	58.9	0	37	18
EXPZ095	94.7		59.1		1	38	19
Pioneer variety 26R10	93.5	99.8	59.8	59.2	0	36	18
CROPLAN SRW 9415	92.0	100.0	59.4	59.4	0	37	19
EXPZ122	91.9		60.6		3	40	19
Pioneer variety 26R36	91.0	102.8	59.4	59.8	0	37	18
SYNGENTA SY HARRISON	90.5	100.1	58.2	58.0	0	35	18
SC 13S26TM	90.5	100.1	59.4	58.7	0	36	18
Pioneer variety 26R59	90.3	97.9	60.3	59.3	5	32	17
Dyna-Gro 9522	90.2	101.1	59.1	58.2	0	37	19
PROGENY PGX 16-3	87.7		60.4		0	38	17
EXPZ133	87.6		59.6		0	37	16
PROGENY #Warrior	87.0	98.4	58.9	58.2	0	37	19
EXPZ141	86.9		62.0		3	36	18
AgriMAXX 438	86.9	99.6	60.1	59.2	0	39	18
EXPZ126	86.5		58.6		0	34	18
USG 3404	86.3	101.3	59.2	58.5	0	38	19
Pioneer variety 26R53	86.2	92.0	60.8	60.3	1	34	17
Dyna-Gro 9223	86.2	100.2	59.8	58.9	0	38	19
STEYER STex166	84.8		58.5		0	36	17
Pioneer variety 26R41	84.6	97.3	58.6	59.5	1	34	17
CROPLAN SRW 9606	84.5		57.8		0	36	17
AgriMAXX 444	84.5	97.8	59.4	58.4	1	37	19
BECK 120	84.5	94.6	56.4	56.7	0	33	16
AgriMAXX Exp. 1786	84.3		59.7		6	38	19
PROGENY #BOSS	84.2		57.5		0	35	17
Pioneer variety XW15C	83.9		57.7		1	39	19
VA12W-31	83.6		60.3		16	38	19
USG 3197	83.5	96.3	57.9	57.8	1	38	17
KY06C-1178-16-10-3	83.2	88.9	59.7	59.7	0	37	17
BECK 123	83.0	84.8	59.5	59.4	0	39	16
BECK 128	82.8	96.9	60.3	59.2	0	35	18
EXPZ050	82.8		61.7		0	33	18
PROGENY P 357	82.7	95.4	57.4	57.2	1	37	20
SC 13S07TM	82.5	89.8	58.6	58.5	0	38	18
CROPLAN SS 8550	82.5		59.6		0	39	17
EXPZ127	82.3		58.8		0	36	18
USG 3316	82.2		60.5		0	36	18
AgriMAXX 474	80.9	94.4	57.9	57.2	0	35	19
STEYER Wharton	80.7	96.9	59.5	59.4	0	35	17
BECK 125	80.5	95.6	60.2	60.1	0	38	18
TN 1604	80.2		58.7		0	38	19
Go Wheat Exp 100	79.0		59.4		0	35	18
SC 13S17TM	78.6	94.6	60.2	59.8	0	36	17
X08C-1077-11-18-3	78.4		59.8		0	36	17
PROGENY PGX 14-5	78.3		61.9		15	41	18
USG 3228	78.2		57.0		0	34	17
AgriMAXX 473	78.2		59.9		0	38	17
SC 13S37TM	78.1		60.8		3	36	18
ARMOR ARW1511	77.9		59.3		1	38	17
PROGENY P 243	77.7	81.4	59.8	59.5	1	38	16
SYNGENTA SY 100	77.4		57.9		0	33	19

Table 6 (continued)

VARIETY	Yield (Bu/A)		Test Wt. (Lb/Bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
Dyna-Gro WX17782	77.2		61.5		0	37	19
ARMOR ARW1612	77.1		59.7		0	40	19
Dyna-Gro 9701	76.9		59.1		0	39	17
AgriMAXX 463	76.9	91.9	57.5	57.9	0	34	16
KAS RUMBLE	76.8		59.5		4	39	19
L11550	76.8		60.9		10	36	18
DEI 16087	76.7		61.2		3	37	16
PROGENY #Bullet	76.6	89.7	59.7	59.0	0	39	18
X08C-1181-61-15-5	76.5		61.6		0	36	19
KAS JEFFERSON	75.7		58.1		0	38	17
AgriMAXX Exp. 1785	75.4		60.8		0	36	18
L11621	75.3		60.3		10	37	17
SYNGENTA SY VIPER	75.1	87.3	60.6	60.5	0	38	18
TN 1501	74.8		57.6		21	35	16
Go Wheat 2058	74.7		59.7		0	33	18
L11538	74.5		58.7		4	37	17
KY07C-1145-94-12-5	74.4		61.1		0	34	16
Dyna-Gro 9750	74.3		57.2		0	34	16
USG 3895	74.0	91.9	59.5	58.3	0	34	18
KY06C-2067-16-7-1	73.6	83.9	60.6	60.1	0	36	16
DEI 16053	72.4		60.2		13	39	15
EXPZ136	72.4		58.4		1	35	18
KAS S1300	72.0		60.6		0	36	18
PEMBROKE 2008	71.9	81.4	58.8	59.3	0	36	16
SYNGENTA SY 547	71.3	87.8	59.1	58.7	0	37	17
HILLIARD	70.1	89.3	58.3	59.0	6	36	16
Truman	70.1	84.5	61.6	59.9	0	42	26
Go Wheat 2059	69.8		57.5		0	35	17
VA11W-108PA	69.6		57.9		0	38	16
AgriMAXX 475	69.2		60.3		0	36	18
USG 3448	68.4		60.4		0	36	18
ARMOR ARW1653	67.8		59.1		0	37	15
PEMBROKE 2016	67.5	81.3	58.7	59.5	0	33	16
USG 3536	67.5		58.8		0	38	18
ARMOR MENACE	66.7		60.7		0	35	17
ARMOR ARW1610	66.6		61.4		0	36	18
PROGENY PGX 16-1	66.6		59.1		0	33	18
KAS LIBERTY IV	66.6	81.0	58.2	58.4	1	35	17
AGS 2055	66.0		58.9		0	35	18
ARMOR ARW1575	65.9		60.6		0	36	17
L11610	65.7		60.6		0	36	17
VA12W-68	65.1		58.2		4	35	16
Dyna-Gro 9772	64.8	89.6	59.2	58.1	0	37	18
PROGENY PGX 16-4	63.4		58.8		0	35	18
TX-EL2	63.3		58.9		14	36	18
Clark	57.8		57.8		0	41	16
PEMBROKE 2014	55.5	73.4	58.9	58.4	0	32	16
VA13W-38	47.5		60.2		1	33	15
PROGENY #Turbo	46.7	69.6	57.4	58.0	0	31	17
AVERAGE	77.8	92.6	59.4	58.9	2	36	18
C.V.	10.4	9.2					
LSD (0.10)	13.4	9.1					

Location: Calloway Co.

Planting date: 10-18-16; Conventional tillage

Harvest date: 6-9-17

Note: Minor freeze damage observed.

Table 7. 2017 Kentucky Wheat Test - Western Coal Field Region.

VARIETY	Yield (Bu/A)		Test Wt. (Lb/Bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
BECK 128	103.9	96.9	59.7	58.6	3	35	19
USG 3316	102.2		59.2		3	36	19
ARMOR RAGE	102.0		58.9		19	35	19
CROPLAN SRW 9415	100.3	96.3	59.0	58.7	0	35	19
Pioneer variety XW15C	100.0		56.9		31	35	17
PROGENY P 357	99.8	92.4	58.6	56.8	13	37	19
SC 13S26TM	98.9	93.2	58.0	57.6	0	36	18
PROGENY #Warrior	98.5	94.6	58.9	57.7	9	36	17
Dyna-Gro 9522	98.4	93.7	58.7	58.0	0	37	18
EXPZ095	97.8		58.7		18	38	19
AgriMAXX Exp. 1785	97.5		61.3		0	35	19
AgriMAXX 454	97.4	91.5	59.8	58.3	3	35	18
SC 13S37TM	97.3		60.8		9	36	19
EXPZ136	97.2		59.5		25	34	19
AgriMAXX Exp. 1786	96.9		60.3		21	38	19
AgriMAXX 474	96.7	89.4	58.9	57.4	25	35	17
USG 3404	96.7	93.4	58.7	57.4	14	36	19
Pioneer variety 26R59	96.6	92.6	58.5	58.3	5	30	17
USG 3895	96.4	94.1	58.9	57.5	9	33	19
Go Wheat 2059	96.1		59.3		3	31	18
EXPZ126	96.1		57.6		1	33	17
SYNGENTA SY HARRISON	96.1	91.9	57.5	57.2	7	35	18
STEYER STex166	96.0		59.1		13	36	19
SYNGENTA SY 100	96.0		57.3		0	31	19
Pioneer variety 26R36	95.7	93.6	60.8	59.7	1	36	18
AgriMAXX 438	95.6	93.5	57.6	56.8	37	38	18
AgriMAXX 446	95.3	93.4	60.2	59.2	15	35	19
SYNGENTA SY VIPER	95.3	91.5	59.3	59.3	16	37	17
Pioneer variety 26R10	95.0	92.3	60.2	58.8	0	33	19
STEYER Wharton	94.8	88.7	58.3	58.0	26	34	17
EXPZ127	94.8		59.6		1	36	18
EXPZ133	94.5		60.4		29	36	17
L11621	94.5		60.3		62	35	18
Go Wheat 2058	94.4		60.6		0	31	17
CROPLAN SS 8550	94.1		60.1		13	38	20
AGS 2055	94.1		58.7		0	35	19
ARMOR ARW1612	94.0		61.1		6	40	20
BECK 120	93.9	91.2	58.0	56.4	0	34	17
Dyna-Gro 9223	93.9	92.7	57.8	57.2	31	36	18
VA12W-31	93.9		61.4		13	34	18
KAS LIBERTY IV	93.6	90.7	59.0	57.4	25	34	18
AgriMAXX 444	93.6	88.9	59.5	57.2	0	36	18
TN 1604	93.4		58.3		23	36	19
KAS JEFFERSON	93.1		58.2		21	36	17
L11550	92.9		59.9		1	34	18
Go Wheat Exp 100	92.7		59.2		1	34	17
BECK 125	92.7	89.3	61.0	59.1	0	35	18
PROGENY #Bullet	92.6	92.3	59.4	57.7	25	37	18
SC 13S07TM	92.6	90.3	58.6	57.5	13	36	16
EXPZ050	92.3		63.4		0	31	18
CROPLAN SRW 9606	92.2		58.1		14	35	18
PROGENY PGX 16-3	92.1		58.6		21	36	19
Dyna-Gro 9772	92.0	90.2	58.4	57.4	15	35	17
SYNGENTA SY 547	91.9	91.7	59.2	58.1	29	37	16
KAS S1300	91.8		58.7		9	34	17

Table 7 (continued)

VARIETY	Yield (Bu/A)		Test Wt. (Lb/Bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
USG 3536	91.5		59.5		0	37	18
USG 3197	91.3	90.6	57.8	57.3	45	36	16
SC 13S17TM	91.3	88.3	59.3	58.6	6	34	17
Dyna-Gro WX17782	91.1		61.1		0	34	19
AgriMAXX 475	91.0		58.8		19	34	17
PROGENY #BOSS	91.0		58.0		21	34	17
Truman	90.6	81.8	60.1	58.2	4	44	26
KY06C-2067-16-7-1	90.3	84.5	59.2	58.8	1	33	18
ARMOR ARW1511	90.3		59.8		3	36	18
Dyna-Gro 9750	90.3		58.9		3	31	17
Pioneer variety 26R41	89.9	86.9	60.0	59.1	6	32	19
PROGENY PGX 14-5	89.9		62.0		8	37	17
KY06C-1178-16-10-3	88.9	85.3	59.2	58.5	33	38	18
EXPZ122	88.7		59.9		15	36	19
AgriMAXX 473	88.4		60.3		0	35	18
ARMOR MENACE	88.3		58.3		6	35	17
USG 3448	88.1		59.3		0	33	17
ARMOR ARW1610	88.1		58.7		28	35	19
TX-EL2	88.0		58.7		32	34	17
KAS RUMBLE	87.9		57.9		77	38	18
L11538	87.5		58.7		3	35	20
Pioneer variety 26R53	87.5	83.7	60.3	59.7	25	32	19
PROGENY PGX 16-1	87.4		59.4		13	33	20
AgriMAXX 463	87.1	88.6	57.7	56.3	0	31	17
PEMBROKE 2016	86.9	84.3	60.6	59.9	0	32	17
EXPZ141	86.7		61.9		3	34	18
Dyna-Gro 9701	86.6		59.3		0	36	19
X08C-1181-61-15-5	86.5		61.1		13	36	20
BECK 123	86.0	83.3	59.0	58.1	6	37	17
VA12W-68	86.0		60.4		0	33	17
ARMOR ARW1575	85.6		59.3		9	34	18
HILLIARD	85.0	87.5	59.8	59.2	1	35	17
L11610	85.0		59.4		52	34	17
PEMBROKE 2008	84.6	80.1	59.0	58.3	3	35	16
KY07C-1145-94-12-5	84.5		60.5		15	34	17
PEMBROKE 2014	84.1	79.6	60.7	59.5	0	29	16
USG 3228	84.0		58.1		25	32	17
DEI 16087	83.2		60.2		19	36	18
VA11W-108PA	82.9		59.4		6	35	17
PROGENY PGX 16-4	81.6		60.3		10	34	18
TN 1501	81.1		57.3		20	34	17
PROGENY P 243	80.5	80.6	60.0	58.8	0	36	17
X08C-1077-11-18-3	79.8		59.9		0	33	18
VA13W-38	78.8		60.7		6	35	17
DEI 16053	78.8		59.5		6	33	15
ARMOR ARW1653	78.7		59.5		10	36	17
PROGENY #Turbo	76.8	79.9	59.5	58.3	0	30	18
Clark	64.0		59.8		13	38	16
AVERAGE	91.1	89.4	59.4	58.1	12	35	18
C.V.	6.7	6.4					
LSD (0.10)	10.1	6.6					

Location: Caldwell Co. (Princeton, KY)

Planting date: 10-10-16; No-till

Harvest date: 6-9-17

Note: Minor freeze damage observed - lodging likely associated with weakened stems.

Table 8. 2017 Kentucky Wheat Test - Ohio Valley Region.

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
STEYER STex166	111.3		57.7		16	38	19
EXPZ050	110.8		61.6		14	34	19
Go Wheat 2058	109.9		59.5		0	33	18
EXPZ127	109.6		58.0		13	39	20
AgriMAXX 446	108.8	106.2	59.6	59.6	0	37	20
EXPZ133	108.8		58.9		3	38	18
USG 3316	106.5		59.5		5	38	19
Pioneer variety XW15C	106.0		56.0		21	38	18
CROPLAN SRW 9415	105.6	102.8	59.2	59.7	23	37	20
AgriMAXX 454	105.5	105.4	59.5	58.4	0	38	19
SC 13S37TM	104.4		60.2		16	37	20
PROGENY PGX 16-3	104.3		57.5		28	37	19
SC 13S26TM	104.2	102.3	58.6	58.4	4	37	19
ARMOR RAGE	103.7		59.1		5	38	19
AgriMAXX Exp. 1785	103.3		60.0		28	37	20
Dyna-Gro WX17782	103.1		60.4		21	36	20
BECK 128	102.1	101.8	58.8	59.2	3	39	19
ARMOR ARW1511	101.4		58.7		20	38	19
AgriMAXX 444	101.2	104.1	57.7	58.6	1	38	20
Pioneer variety 26R41	101.1	106.2	58.9	59.5	3	34	20
Pioneer variety 26R10	100.6	104.8	58.3	59.0	14	36	20
SYNGENTA SY 100	100.5		55.3		4	36	20
Dyna-Gro 9522	100.5	100.5	57.6	58.4	4	39	20
Pioneer variety 26R59	100.0	103.5	57.8	58.0	0	33	18
Go Wheat 2059	99.4		58.7		0	34	18
Pioneer variety 26R36	99.1	101.5	60.2	60.2	13	38	19
AgriMAXX 474	98.9	103.1	57.2	57.6	13	36	18
USG 3404	98.3	103.0	57.3	58.4	4	38	20
AGS 2055	97.9		57.8		0	37	20
PROGENY #Warrior	97.8	104.0	57.1	58.0	13	36	18
EXPZ126	97.0		56.2		19	35	18
PROGENY #Bullet	96.3	102.2	59.1	60.2	19	39	20
AgriMAXX Exp. 1786	94.6		58.5		29	38	20
Pioneer variety 26R53	94.6	99.4	59.4	60.3	5	34	20
X08C-1077-11-18-3	94.0		59.0		0	37	20
AgriMAXX 438	93.6	102.8	56.6	58.4	23	38	20
BECK 120	93.4	97.1	54.8	56.2	40	36	19
Dyna-Gro 9701	93.4		58.3		13	38	18
USG 3536	93.3		59.2		19	38	19
AgriMAXX 463	93.3	103.2	58.1	59.4	0	33	18
USG 3895	93.2	101.4	57.0	57.4	11	35	20
SYNGENTA SY HARRISON	93.0	97.7	56.0	56.9	5	36	19
CROPLAN SS 8550	92.9		58.3		29	39	19
CROPLAN SRW 9606	92.9		56.0		13	38	18
PROGENY #BOSS	92.9		55.6		8	35	19
USG 3228	92.8		58.3		0	34	19
EXPZ095	92.7		57.0		39	39	20
Dyna-Gro 9223	92.5	99.8	57.0	58.5	19	38	19
BECK 125	92.5	95.3	58.4	59.0	53	39	20
KY06C-1178-16-10-3	92.3	93.0	58.4	59.2	11	38	20
PROGENY P 357	92.2	94.9	56.0	56.8	14	38	20
USG 3197	91.9	99.9	57.4	58.9	36	37	19
VA12W-68	91.5		58.1		23	35	19
X08C-1181-61-15-5	91.0		59.1		6	37	19

Table 8 (continued)

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
PEMBROKE 2014	89.2	89.4	59.4	60.7	0	33	19
L11550	89.2		59.8		10	37	20
AgriMAXX 473	89.2		59.0		43	38	19
ARMOR ARW1575	89.0		56.8		0	36	20
SC 13S07TM	88.6	93.5	56.4	57.9	24	38	19
Dyna-Gro 9750	88.5		57.9		10	33	18
BECK 123	87.9	95.8	58.6	59.3	29	38	19
Truman	87.7	91.4	59.1	60.7	0	45	26
ARMOR ARW1612	87.5		58.3		23	41	19
KAS S1300	87.1		55.9		19	34	18
PROGENY #Turbo	86.9	94.5	58.3	59.3	0	33	19
KAS RUMBLE	86.8		58.2		15	39	19
L11621	86.3		59.4		75	36	20
KAS JEFFERSON	86.1		56.3		28	38	19
PROGENY P 243	85.8	93.8	57.9	58.9	20	38	19
EXPZ141	85.7		59.4		8	35	19
USG 3448	85.2		56.6		30	35	18
L11610	85.0		58.7		24	35	19
PEMBROKE 2016	84.9	93.4	59.2	60.6	30	34	19
ARMOR ARW1610	84.1		59.4		23	36	20
STEYER Wharton	83.9	92.6	56.3	58.5	20	34	18
VA11W-108PA	83.7		57.0		15	37	19
SC 13S17TM	83.3	94.9	56.5	58.7	23	34	18
L11538	81.5		56.9		29	37	21
KY06C-2067-16-7-1	81.5	85.7	56.5	58.5	5	35	20
EXPZ136	81.3		57.6		53	35	19
KAS LIBERTY IV	81.2	93.2	55.1	57.1	54	35	20
Go Wheat Exp 100	80.6		56.3		38	35	18
VA12W-31	79.7		58.5		38	36	19
ARMOR MENACE	79.7		56.4		20	34	18
HILLIARD	79.0	89.2	57.7	59.0	24	36	19
SYNGENTA SY VIPER	78.5	92.5	56.8	59.7	40	38	18
AgriMAXX 475	78.0		56.3		41	35	18
KY07C-1145-94-12-5	77.7		58.4		13	35	19
PEMBROKE 2008	77.1	83.8	57.9	59.1	10	36	19
TX-EL2	76.8		56.6		18	33	20
DEI 16087	76.7		58.9		23	37	19
TN 1501	76.7		55.0		19	36	19
TN 1604	76.4		56.3		19	36	20
VA13W-38	75.6		58.2		13	35	20
Dyna-Gro 9772	75.6	90.5	56.7	58.3	36	36	18
PROGENY PGX 16-4	75.2		56.5		40	36	19
SYNGENTA SY 547	73.0	85.2	57.0	58.4	30	39	18
EXPZ122	72.8		56.9		34	38	20
PROGENY PGX 14-5	70.5		60.2		38	39	19
DEI 16053	68.6		56.2		48	36	19
PROGENY PGX 16-1	66.8		54.1		20	36	20
ARMOR ARW1653	66.0		59.2		35	38	20
Clark	51.1		57.9		0	39	18
AVERAGE	90.2	97.5	57.8	58.8	19	37	19
C.V.	9.3	8.1					
LSD (0.10)	13.8	8.8					

Location: Union Co.

Planting date: 10-11-16; No-till

Harvest date: 6-12-17.

Note: Minor to moderate freeze damage observed - most lodging likely associated with weakened stems.

Table 9. 2017 Kentucky Wheat Test - Bluegrass Region.

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017
ARMOR ARW1511	105.5		60.2		36	21
EXPZ136	105.5		59.3		34	21
PROGENY PGX 16-3	104.9		60.4		35	21
L11621	104.8		61.4		34	23
Dyna-Gro WX17782	104.4		61.7		35	23
Pioneer variety 26R59	104.0	86.5	60.1	58.0	32	21
PROGENY #Bullet	103.9	86.9	60.8	58.0	36	21
AgriMAXX Exp. 1786	103.8		59.5		37	23
CROPLAN SS 8550	103.7		60.5		36	22
USG 3536	103.5		60.7		36	22
AgriMAXX 463	103.0	85.9	60.4	57.4	32	21
USG 3228	102.8		59.7		32	21
Dyna-Gro 9701	102.5		60.0		36	22
AgriMAXX Exp. 1785	102.4		61.1		34	23
Dyna-Gro 9223	101.9	85.4	59.3	57.7	36	22
Pioneer variety 26R10	101.8	86.1	59.2	57.9	33	23
AgriMAXX 473	101.5		60.8		35	22
SYNGENTA SY 100	100.8		57.6		33	22
EXPZ095	99.8		57.4		35	23
AgriMAXX 438	99.8	85.5	59.7	57.8	35	22
EXPZ133	99.7		61.3		35	20
CROPLAN SRW 9606	99.6		58.7		35	21
BECK 128	99.1	83.9	58.2	57.0	34	22
L11610	98.8		61.0		33	21
KY07C-1145-94-12-5	98.6		61.1		33	21
BECK 125	98.5	82.3	60.6	58.6	35	22
Dyna-Gro 9750	98.3		60.0		32	21
SC 13S37TM	97.9		60.9		34	24
Pioneer variety XW15C	97.9		59.2		35	22
Go Wheat 2059	97.6		60.2		32	21
STEYER STex166	97.4		59.0		34	22
AgriMAXX 444	97.3	82.5	57.5	56.1	35	23
EXPZ122	97.2		60.6		35	22
Go Wheat 2058	96.9		59.8		30	22
AgriMAXX 454	96.4	81.7	59.4	57.4	33	23
Pioneer variety 26R41	96.4	80.9	58.9	57.3	33	22
PEMBROKE 2016	96.2	78.1	61.4	58.6	32	20
SYNGENTA SY VIPER	95.8	80.2	60.2	59.1	36	21
Pioneer variety 26R53	95.6	79.4	59.7	58.0	33	22
PROGENY #BOSS	95.6		57.6		34	21
BECK 120	95.3	80.4	57.8	55.6	33	20
AgriMAXX 474	95.2	85.5	57.3	56.3	34	21
PROGENY PGX 14-5	95.2		62.6		36	21
PEMBROKE 2014	95.0	74.0	62.0	59.1	31	20
Dyna-Gro 9772	94.8	75.0	57.5	55.6	36	21
KY06C-1178-16-10-3	94.7	74.4	59.4	57.5	36	21
EXPZ050	94.7		62.8		30	23
EXPZ126	94.1		57.2		32	21
SC 13S07TM	94.0	75.9	58.0	56.0	35	21
USG 3404	93.9	82.0	56.9	56.4	35	24
KAS RUMBLE	93.8		58.6		34	22
L11550	93.7		59.5		33	22
L11538	93.6		59.6		35	22
ARMOR RAGE	93.5		58.9		33	23

Table 9 (continued)

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017
BECK 123	93.4	77.8	60.4	57.6	36	19
EXPZ127	93.2		59.0		35	22
TN 1604	93.1		59.2		34	22
CROPLAN SRW 9415	93.0	80.3	57.6	56.6	33	24
Dyna-Gro 9522	92.9	80.8	57.6	56.6	35	24
ARMOR ARW1612	92.3		58.7		36	23
DEI 16087	91.8		60.9		34	21
KAS LIBERTY IV	91.8	75.4	57.1	55.1	34	22
PROGENY #Warrior	91.8	78.8	58.3	56.8	33	21
TN 1501	91.7		56.1		34	21
VA12W-31	91.5		59.6		32	22
VA11W-108PA	91.3		59.0		34	21
KAS JEFFERSON	91.1		57.4		35	21
PEMBROKE 2008	91.0	68.6	59.9	57.1	34	21
KY06C-2067-16-7-1	90.9	71.8	58.7	56.7	33	22
ARMOR ARW1610	90.9		59.2		33	22
SYNGENTA SY 547	90.9	77.9	59.9	58.1	36	21
USG 3197	90.3	73.1	58.4	55.8	34	20
EXPZ141	90.2		61.0		33	21
ARMOR ARW1575	90.1		59.6		33	22
SC 13S26TM	90.0	72.7	58.7	56.5	34	23
Pioneer variety 26R36	89.9	76.1	59.7	58.4	34	22
PROGENY P 243	89.7	74.0	60.1	57.1	36	20
USG 3316	89.2		58.2		34	23
HILLIARD	87.9	80.6	59.3	58.3	34	21
VA12W-68	87.4		58.6		32	21
SYNGENTA SY HARRISON	87.4	74.2	56.2	55.6	33	22
AGS 2055	86.9		55.1		36	22
AgriMAXX 446	86.8	78.9	57.0	56.2	33	23
PROGENY P 357	86.6	72.3	56.2	55.1	33	24
VA13W-38	86.3		60.7		32	21
X08C-1077-11-18-3	86.2		60.0		33	22
STEYER Wharton	85.6	69.7	59.2	57.8	33	21
ARMOR MENACE	85.5		59.3		32	20
DEI 16053	85.4		60.1		34	19
X08C-1181-61-15-5	84.7		59.5		34	24
USG 3448	84.6		59.6		33	21
TX-EL2	83.3		60.2		32	23
USG 3895	82.8	76.4	57.5	56.1	32	22
AgriMAXX 475	82.8		59.5		32	21
SC 13S17TM	81.8	73.4	58.9	57.7	32	21
PROGENY PGX 16-4	81.3		59.3		34	21
Go Wheat Exp 100	80.8		59.3		32	21
PROGENY #Turbo	80.0	66.4	59.2	56.8	31	22
KAS S1300	77.4		59.5		32	21
ARMOR ARW1653	76.9		59.6		35	19
Truman	75.1	66.2	61.2	58.9	38	30
Clark	72.0		58.6		38	20
PROGENY PGX 16-1	70.9		55.8		32	23
AVERAGE	93.1	78.0	59.3	57.1	34	22
C.V.	6.3	7.0				
LSD (0.10)	9.7	6.9				

Location: Fayette Co. (Lexington, KY)
Planting date: 10-12-16; Conventional tillage
Harvest date: 6-13-17
Lodging = 0%

Table 10. 2017 Kentucky Wheat Test - Southern Tier Region A.

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
Go Wheat 2058	98.5		58.0		0	33	16
HILLIARD	97.4	91.8	57.9	58.8	1	38	16
CROPLAN SRW 9415	96.8	85.1	57.6	57.4	0	36	17
KY06C-1178-16-10-3	95.1	82.9	57.9	57.6	0	37	16
Pioneer variety 26R59	94.8	84.2	56.3	56.3	0	32	15
L11621	94.6		58.8		8	37	16
SC 13S37TM	94.5		59.2		3	36	18
AgriMAXX 473	93.7		58.0		1	37	17
EXPZ126	93.1		56.5		0	34	16
EXPZ095	93.1		56.8		15	37	17
AgriMAXX Exp. 1785	92.8		58.7		0	36	18
USG 3404	92.8	87.8	57.6	57.3	0	35	17
EXPZ136	92.6		57.0		5	34	17
USG 3895	92.5	87.6	56.6	57.3	0	33	16
Pioneer variety 26R10	91.9	83.4	57.9	57.4	0	34	17
PROGENY #Warrior	91.8	89.8	57.5	56.8	0	34	15
PROGENY PGX 16-3	91.7		57.7		0	36	17
BECK 128	91.4	79.8	57.7	55.7	0	35	16
CROPLAN SS 8550	91.1		57.8		1	37	17
AgriMAXX 444	90.8	85.0	57.4	57.4	1	35	18
BECK 120	90.7	84.3	55.1	55.0	0	33	15
Dyna-Gro 9522	90.6	84.8	57.8	57.4	0	35	17
PROGENY #Bullet	90.3	83.3	57.0	56.9	0	37	16
EXPZ127	89.9		57.4		0	38	17
Pioneer variety 26R36	89.9	87.4	57.6	58.7	0	36	16
ARMOR RAGE	89.8		57.8		0	36	17
USG 3536	89.7		57.2		3	37	16
Pioneer variety 26R53	89.7	82.8	58.5	59.0	0	32	16
AgriMAXX 454	89.6	76.5	56.9	54.7	0	35	18
STEYER STex166	89.2		57.0		1	37	18
Pioneer variety 26R41	89.0	88.8	56.6	57.4	0	33	17
Dyna-Gro WX17782	88.6		59.4		1	35	18
SYNGENTA SY 100	88.4		55.0		1	33	17
SC 13S26TM	88.3	77.1	57.6	54.5	0	35	17
KAS LIBERTY IV	88.2	78.5	55.6	55.2	0	35	16
SYNGENTA SY HARRISON	88.0	83.0	56.8	56.2	0	34	16
Dyna-Gro 9223	87.9	82.8	56.7	56.0	0	37	17
PROGENY P 357	87.6	77.4	55.9	54.4	0	36	18
ARMOR ARW1511	87.4		57.3		0	37	16
KAS RUMBLE	87.3		58.5		19	38	16
Dyna-Gro 9750	87.1		55.7		0	34	16
VA12W-31	87.1		57.7		0	35	16
Dyna-Gro 9701	86.8		57.1		0	37	16
CROPLAN SRW 9606	86.6		56.6		0	35	16
AgriMAXX 438	86.5	81.6	57.1	55.6	0	36	17
AgriMAXX 446	86.4	81.6	57.5	57.5	0	35	18
L11610	86.3		57.7		1	35	16
ARMOR ARW1610	85.9		58.2		0	35	16
AgriMAXX 474	85.8	79.2	57.2	56.5	0	34	15
PROGENY #BOSS	85.6		56.1		1	33	16
KAS S1300	85.5		58.0		0	34	17
TN 1604	85.3		58.0		0	35	16
USG 3448	85.1		57.8		4	35	16
AgriMAXX 475	85.1		57.5		0	35	17

Table 10 (continued)

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
TX-EL2	85.1		56.4		0	35	15
L11538	85.1		57.0		14	36	18
USG 3316	84.8		56.6		0	36	16
Go Wheat Exp 100	84.8		57.6		0	34	16
EXPZ133	84.7		57.4		0	36	15
PEMBROKE 2016	84.6	80.2	57.1	57.6	0	33	15
PEMBROKE 2008	84.6	80.8	57.9	58.0	0	36	15
SC 13S07TM	84.4	79.5	56.1	56.5	3	37	15
KY06C-2067-16-7-1	84.1	78.0	57.6	57.7	0	35	16
EXPZ122	84.0		57.9		0	38	17
KAS JEFFERSON	83.9		56.1		11	37	16
ARMOR MENACE	83.6		58.2		0	35	16
EXPZ050	83.6		58.7		0	32	17
KY07C-1145-94-12-5	83.5		58.6		0	35	15
SYNGENTA SY VIPER	83.5	80.7	60.0	59.4	1	38	16
SYNGENTA SY 547	83.4	79.0	57.9	57.7	0	38	15
Pioneer variety XW15C	83.3		57.1		0	36	17
PROGENY PGX 14-5	83.2		60.5		3	39	17
AgriMAXX 463	83.2	85.9	56.2	55.9	0	34	16
VA11W-108PA	83.2		57.7		0	36	16
EXPZ141	83.2		59.8		0	34	16
BECK 123	82.9	80.5	57.9	58.1	0	37	15
X08C-1181-61-15-5	82.7		59.9		0	36	18
L11550	82.7		57.9		0	34	16
Go Wheat 2059	82.7		56.2		0	33	15
VA12W-68	82.2		57.7		0	34	16
AgriMAXX Exp. 1786	82.2		57.0		0	38	18
VA13W-38	81.8		59.1		0	36	15
X08C-1077-11-18-3	81.8		58.2		0	36	16
USG 3197	81.7	84.4	55.8	56.5	0	36	15
USG 3228	81.2		55.4		0	32	15
SC 13S17TM	81.1	80.9	57.5	57.3	3	34	16
Dyna-Gro 9772	81.0	82.9	55.8	56.7	3	36	15
PROGENY P 243	80.7	78.3	57.9	57.6	1	37	15
AGS 2055	80.6		55.9		0	36	17
PROGENY #Turbo	80.3	85.5	57.6	57.4	0	32	16
PEMBROKE 2014	80.1	78.4	58.3	59.0	0	32	15
BECK 125	79.9	76.3	58.0	57.1	1	37	18
STEYER Wharton	78.0	76.6	57.7	57.7	0	35	16
PROGENY PGX 16-1	77.8		57.0		0	35	17
TN 1501	76.5		54.8		1	35	16
ARMOR ARW1612	75.5		59.0		0	40	18
PROGENY PGX 16-4	74.2		57.3		0	36	16
ARMOR ARW1575	71.4		59.1		0	36	17
ARMOR ARW1653	69.1		59.0		1	38	17
DEI 16087	68.9		58.0		1	37	17
Truman	66.5	68.1	59.1	57.6	0	41	29
DEI 16053	66.1		58.3		0	36	14
Clark	65.6		57.2		0	40	15
AVERAGE	85.4	82.0	57.5	57.0	1	36	16
C.V.	7.5	8.3					
LSD (0.10)	10.5	8.1					

Location: Logan Co.
Planting date: 10-17-16; Conventional tillage
Harvest date: 6-8-17

Table 11. 2017 Kentucky Wheat Test - Southern Tier Region B.

VARIETY	Yield (Bu/A)	Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1	Freeze Rating*
	2017	2017	2017	2017	2017	2017
EXPZ050	101.2	60.3	39	34	17	1
STEYER STex166	101.0	56.5	39	36	17	1
AgriMAXX 446	100.5	58.3	33	36	16	1
Pioneer variety XW15C	100.1	56.2	50	37	16	3
AgriMAXX Exp. 1785	99.8	57.5	40	35	17	3
Truman	97.9	60.0	18	43	26	1
BECK 128	97.7	57.8	26	35	16	2
PROGENY #Warrior	97.5	56.4	59	33	15	3
EXPZ133	97.1	57.8	5	34	14	3
CROPLAN SRW 9415	95.7	57.3	28	34	16	3
Pioneer variety 26R36	95.1	58.1	35	37	16	2
Dyna-Gro 9522	94.9	57.2	45	35	16	2
USG 3316	93.5	58.0	8	35	16	2
Pioneer variety 26R10	93.4	57.2	44	34	16	2
SYNGENTA SY 100	93.0	54.6	60	33	15	2
Dyna-Gro 9750	92.3	55.5	30	31	15	1
AgriMAXX 454	91.9	58.1	21	35	15	2
ARMOR RAGE	91.8	58.6	33	34	15	2
SC 13S37TM	91.4	58.2	29	34	17	2
AgriMAXX 444	90.6	58.4	37	37	16	2
Dyna-Gro WX17782	89.6	58.1	43	35	16	1
EXPZ095	89.4	56.8	57	37	17	3
SYNGENTA SY HARRISON	89.0	56.4	20	34	16	2
L11550	89.0	58.0	29	34	15	3
USG 3895	88.9	54.9	51	32	15	3
BECK 123	88.9	57.0	51	35	14	3
X08C-1181-61-15-5	88.3	58.7	8	36	17	2
BECK 120	88.3	55.4	36	32	14	3
SC 13S26TM	88.0	57.4	34	35	15	3
EXPZ136	87.4	55.9	55	34	15	5
PROGENY P 357	86.7	55.6	60	36	17	4
AgriMAXX Exp. 1786	86.7	56.9	49	38	17	4
VA12W-31	85.8	58.0	38	35	16	3
KY07C-1145-94-12-5	85.7	59.1	10	34	13	2
SYNGENTA SY VIPER	85.7	58.5	41	35	14	2
CROPLAN SRW 9606	84.5	56.2	34	35	15	2
Pioneer variety 26R59	84.4	56.1	13	30	14	2
EXPZ126	83.7	54.9	47	32	14	3
ARMOR ARW1610	83.6	56.6	60	34	15	4
PROGENY #Bullet	83.3	54.6	66	34	15	3
PROGENY P 243	83.3	57.4	30	35	14	2
EXPZ141	83.1	59.3	16	33	16	3
KY06C-1178-16-10-3	81.3	56.9	69	36	15	5
PROGENY #Turbo	80.6	57.5	26	30	14	2
PROGENY #BOSS	80.6	55.3	44	32	14	3
Go Wheat 2058	80.4	57.1	15	31	15	2
L11538	80.4	55.5	62	36	16	3
Go Wheat 2059	80.2	55.3	31	31	14	2
Pioneer variety 26R41	80.0	55.2	35	32	15	4
KY06C-2067-16-7-1	79.5	55.4	41	33	14	2
USG 3404	78.7	57.6	64	35	16	2
PEMBROKE 2016	78.5	57.1	13	32	14	3
Pioneer variety 26R53	78.3	57.6	50	32	14	3
L11621	77.8	57.6	49	34	15	3
KAS LIBERTY IV	77.7	56.1	39	32	14	1

Table 11 (continued)

VARIETY	Yield (Bu/A)	Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1	Freeze Rating*
	2017	2017	2017	2017	2017	2017
HILLIARD	77.6	56.7	53	33	14	4
PEMBROKE 2008	77.6	56.8	25	33	13	3
X08C-1077-11-18-3	77.5	57.3	21	33	16	1
PROGENY PGX 16-3	76.3	56.2	59	37	15	5
AgriMAXX 438	76.0	55.0	79	37	15	6
CROPLAN SS 8550	75.6	56.8	80	36	15	4
ARMOR ARW1575	75.6	57.5	48	35	15	2
ARMOR ARW1511	75.4	56.2	50	35	14	2
AgriMAXX 473	74.8	56.5	36	35	14	2
EXPZ127	74.5	55.1	50	36	16	6
AgriMAXX 475	74.5	56.2	30	33	14	4
Dyna-Gro 9701	74.0	54.6	80	35	14	5
TN 1501	73.9	55.4	76	32	13	4
AgriMAXX 463	73.3	55.5	45	31	14	1
KAS S1300	73.3	56.3	45	33	14	4
VA11W-108PA	72.8	56.7	36	33	14	3
SYNGENTA SY 547	72.3	55.7	65	35	15	5
L11610	71.5	56.1	64	32	14	4
KAS RUMBLE	71.4	57.4	51	37	17	6
USG 3228	70.5	55.4	49	32	14	2
SC 13S17TM	69.7	56.3	51	32	14	4
EXPZ122	69.7	57.4	61	39	17	5
AGS 2055	69.4	54.6	30	35	15	2
VA12W-68	69.4	56.1	41	32	13	4
VA13W-38	68.6	58.6	29	32	13	2
AgriMAXX 474	68.5	55.8	35	33	14	3
BECK 125	68.3	55.0	84	34	16	6
ARMOR ARW1612	67.0	57.5	60	39	17	4
ARMOR MENACE	66.9	56.3	46	32	14	4
STEYER Wharton	66.5	55.8	63	32	14	4
PROGENY PGX 16-4	65.3	56.9	59	32	14	5
PROGENY PGX 16-1	64.9	55.6	56	32	15	4
DEI 16053	64.4	56.5	40	32	14	3
PROGENY PGX 14-5	64.4	58.6	68	36	15	5
USG 3536	64.2	55.7	86	36	14	5
USG 3448	64.2	55.8	38	32	14	3
TN 1604	63.7	55.1	71	35	15	7
Clark	63.6	56.7	46	40	14	4
PEMBROKE 2014	63.4	57.2	15	30	13	3
DEI 16087	62.4	57.6	75	34	14	5
ARMOR ARW1653	61.4	56.8	28	35	13	3
Dyna-Gro 9223	60.3	55.8	75	37	16	4
SC 13S07TM	55.8	54.8	61	36	15	7
Go Wheat Exp 100	55.3	55.3	80	31	14	6
Dyna-Gro 9772	50.7	54.5	70	35	15	7
TX-EL2	49.3	53.5	76	31	14	8
KAS JEFFERSON	47.4	55.1	68	34	15	8
USG 3197	40.9	53.5	84	33	15	8
AVERAGE	78.5	56.6	46	34	15	3
C.V.	13.8					
LSD (0.10)	17.9					

Location: Todd Co.

Planting date: 10-17-16; Conventional tillage

Harvest date: 6-8-17

Note: SEVERE FREEZE DAMAGE--DO NOT USE FOR VARIETY SELECTION

*Freeze rating: 1=minimal, 9=severe damage

Table 12. 2017 Kentucky Wheat Test - North Central Region.

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
EXPZ136	92.9		57.1		0	32	20
AgriMAXX 473	91.1		57.3		0	35	20
SC 13S37TM	90.7		58.3		0	33	23
PROGENY PGX 16-3	90.7		57.8		0	33	21
AgriMAXX 463	90.3	93.1	56.3	56.3	0	31	20
BECK 120	90.3	87.3	55.8	54.4	0	31	20
ARMOR ARW1511	90.3		58.6		0	36	21
L11621	90.0		58.9		0	33	21
BECK 128	89.6	81.4	57.4	56.5	0	34	21
Pioneer variety 26R10	89.6	89.0	58.3	58.0	0	33	21
AgriMAXX 474	89.5	83.2	56.4	55.4	0	33	20
Dyna-Gro 9701	89.4		57.8		0	36	20
Go Wheat 2059	88.6		56.7		0	32	20
USG 3536	88.6		57.6		0	35	21
EXPZ095	88.6		58.1		0	34	22
EXPZ133	88.4		58.8		0	34	20
CROPLAN SRW 9606	87.9		57.0		0	31	20
Dyna-Gro WX17782	87.6		57.8		0	33	22
SYNGENTA SY 100	87.3		55.7		0	31	22
PROGENY P 357	87.2	81.2	55.7	54.9	0	33	23
EXPZ127	86.9		57.7		0	34	22
USG 3404	86.8	88.5	57.4	56.8	0	34	21
KY06C-1178-16-10-3	86.8	82.8	57.7	57.3	0	36	20
Pioneer variety 26R36	86.8	81.4	57.2	57.2	0	34	21
PROGENY #BOSS	86.5		55.9		0	32	20
EXPZ050	86.3		60.7		0	29	21
L11538	86.1		57.7		0	34	21
PROGENY #Bullet	86.0	85.2	57.7	57.1	0	34	21
Dyna-Gro 9522	85.9	87.6	57.1	56.6	0	34	23
PROGENY #Warrior	85.8	77.3	56.7	55.6	0	32	20
Pioneer variety 26R59	85.3	86.9	57.8	56.7	0	29	19
L11610	85.1		58.1		0	32	20
ARMOR ARW1612	85.1		59.2		1	37	21
KAS LIBERTY IV	85.0	78.0	55.7	54.9	0	32	21
Pioneer variety 26R53	84.8	86.1	58.1	58.2	0	32	20
KY07C-1145-94-12-5	84.5		59.4		0	32	19
AgriMAXX 444	84.3	88.2	57.1	57.0	0	32	22
KY06C-2067-16-7-1	83.9	77.1	58.3	57.4	0	32	20
AgriMAXX 438	83.9	85.0	58.1	57.6	0	35	22
TN 1501	83.6		57.1		1	29	20
Pioneer variety 26R41	83.5	86.1	57.5	57.3	0	31	21
AgriMAXX 454	83.5	77.7	57.4	56.6	0	33	21
Go Wheat 2058	83.5		56.6		0	30	20
CROPLAN SS 8550	83.3		57.7		0	34	21
AgriMAXX Exp. 1785	83.1		57.8		3	34	22
ARMOR ARW1610	82.9		57.8		0	32	21
CROPLAN SRW 9415	82.8	82.5	57.3	56.9	0	31	22
Pioneer variety XW15C	82.7		56.8		0	34	21
VA11W-108PA	82.6		57.5		0	32	20
AgriMAXX Exp. 1786	82.5		57.1		0	34	22
PEMBROKE 2016	81.9	82.3	57.2	56.7	0	30	19
L11550	81.8		58.0		0	31	22
BECK 125	80.7	82.0	57.5	57.5	0	34	21
STEYER STex166	80.6		55.7		0	33	21

Table 12 (continued)

VARIETY	Yield (Bu/A)		Test Wt. (Lb/bu)		Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2016-17	2017	2017	2017
PEMBROKE 2014	80.3	77.0	58.0	57.2	0	29	19
PROGENY P 243	80.3	73.9	57.5	56.9	0	34	19
KAS JEFFERSON	80.1		54.9		0	34	20
EXPZ141	80.1		59.7		0	32	21
SC 13S26TM	80.0	66.7	56.9	56.1	0	33	21
TN 1604	80.0		57.4		1	32	21
PROGENY PGX 14-5	79.8		59.7		0	34	20
AgriMAXX 446	79.8	86.2	57.0	57.2	1	34	22
Dyna-Gro 9223	79.8	80.7	58.2	57.4	0	33	22
BECK 123	79.7	79.8	57.1	56.8	0	34	19
USG 3316	79.1		57.6		0	33	21
SC 13S07TM	79.1	68.8	54.7	53.8	0	33	20
HILLIARD	79.0	81.4	57.8	57.9	0	32	21
AGS 2055	78.4		58.1		1	33	22
ARMOR RAGE	78.2		58.2		0	32	22
USG 3448	78.2		57.6		0	31	20
X08C-1077-11-18-3	77.8		57.4		0	32	22
PROGENY PGX 16-4	77.6		58.4		0	32	20
USG 3895	77.5	75.4	56.9	56.2	0	31	21
SYNGENTA SY VIPER	76.8	77.1	59.1	58.8	0	33	20
SYNGENTA SY HARRISON	76.7	71.8	56.7	55.9	0	33	20
SC 13S17TM	76.6	70.2	57.2	57.1	0	32	20
PROGENY PGX 16-1	76.3		57.9		0	30	22
USG 3228	75.6		56.8		0	30	20
VA12W-31	75.5		57.8		0	32	20
SYNGENTA SY 547	75.4	72.3	57.3	56.6	0	33	20
Dyna-Gro 9750	75.4		56.2		0	31	19
EXPZ126	74.9		56.4		0	32	20
DEI 16053	74.9		57.6		0	32	18
EXPZ122	74.8		57.5		0	33	21
PROGENY #Turbo	74.7	78.4	56.4	55.1	1	30	21
ARMOR ARW1575	74.2		58.3		0	32	21
ARMOR ARW1653	73.7		59.2		0	34	19
KAS RUMBLE	73.6		56.7		0	33	21
X08C-1181-61-15-5	73.3		57.9		0	33	23
Dyna-Gro 9772	72.6	70.0	54.5	54.1	0	32	19
USG 3197	72.1	72.2	54.9	54.1	0	33	19
VA13W-38	72.0		57.9		0	31	20
ARMOR MENACE	71.8		57.8		0	32	20
DEI 16087	71.6		59.3		1	32	20
VA12W-68	70.6		56.7		0	33	20
PEMBROKE 2008	70.2	64.5	58.4	56.8	0	33	20
Go Wheat Exp 100	70.1		57.4		0	33	20
KAS S1300	68.6		57.4		1	31	20
TX-EL2	68.4		58.9		0	29	21
STEYER Wharton	67.1	67.9	56.9	56.9	0	30	20
AgriMAXX 475	66.8		57.2		0	31	20
Truman	60.6	55.8	61.1	59.4	0	35	28
Clark	58.4		57.4		3	36	19
AVERAGE	80.8	79.0	57.5	56.6	0	33	21
C.V.	10.5	9.1					
LSD (0.10)	14.0	8.4					

Location: Woodford Co.

Planting date: 10-19-16; Conventional tillage

Harvest date: 6-20-17

Table 13. 2017 Kentucky Wheat Disease Ratings.

VARIETY	Leaf Rust	Powdery Mildew	Leaf Blotch	Head Scab	Stripe Rust [^]
AgriMAXX 438	5.3	7.3	6.0	4.3	
AgriMAXX 444	4.5	5.8	5.0	5.8	
AgriMAXX 446	3.5	5.5	5.8	6.3	
AgriMAXX 454	7.0	8.0	5.3	4.8	**
AgriMAXX 463	2.8	5.0	5.3	2.0	
AgriMAXX 473	2.0	3.8	4.3	2.3	
AgriMAXX 474	4.8	4.5	5.5	6.8	
AgriMAXX 475	5.8	8.3	6.0	3.0	
AgriMAXX Exp. 1785	5.0	6.0	5.8	3.3	
AgriMAXX Exp. 1786	4.5	6.0	5.3	3.8	
AGS 2055	1.0	6.0	4.8	8.3	
ARMOR ARW1511	2.0	3.5	3.8	3.0	
ARMOR ARW1575	1.5	7.8	5.5	5.0	
ARMOR ARW1610	1.3	3.8	5.0	6.0	
ARMOR ARW1612	1.3	5.0	3.5	4.5	
ARMOR ARW1653	2.0	8.0	4.5	5.8	
ARMOR MENACE	4.0	8.5	5.5	2.8	
ARMOR RAGE	6.5	8.3	5.5	4.0	**
BECK 120	4.5	5.8	5.5	5.5	
BECK 123	4.5	5.3	4.3	3.3	
BECK 125	1.3	4.0	4.3	4.8	*
BECK 128	5.3	8.3	5.5	5.8	**
Clark	8.5	6.8	8.5	5.8	*
CROPLAN SRW 9415	4.8	5.8	6.0	6.8	
CROPLAN SRW 9606	4.0	4.3	5.8	5.5	
CROPLAN SS 8550	2.3	3.8	4.3	2.8	
DEI 16053	1.5	1.8	6.8	4.3	
DEI 16087	5.8	5.8	7.3	4.0	
Dyna-Gro 9223	8.8	6.3	8.0	4.3	
Dyna-Gro 9522	5.8	4.0	5.8	5.8	
Dyna-Gro 9701	1.5	2.8	4.3	3.0	
Dyna-Gro 9750	4.0	5.0	5.8	2.3	
Dyna-Gro 9772	2.0	4.5	5.0	2.8	
Dyna-Gro WX17782	4.3	5.5	4.3	3.3	
EXPZ050	4.3	3.0	5.3	5.0	
EXPZ095	4.3	7.0	5.0	5.5	
EXPZ122	1.0	4.3	6.5	4.8	
EXPZ126	4.5	6.0	5.0	5.8	
EXPZ127	4.0	1.3	3.8	6.3	
EXPZ133	1.5	2.3	4.0	6.3	
EXPZ136	2.8	1.8	4.5	4.3	
EXPZ141	3.3	3.5	6.5	4.0	
Go Wheat 2058	3.0	6.0	5.0	5.0	
Go Wheat 2059	3.3	4.5	5.8	2.0	
Go Wheat Exp 100	4.3	8.8	5.3	3.3	
HILLIARD	1.0	1.3	2.8	7.3	
KAS JEFFERSON	1.5	4.0	4.8	3.5	
KAS LIBERTY IV	9.0	3.8	8.5	6.5	
KAS RUMBLE	2.5	6.3	5.5	2.8	
KAS S1300	3.8	7.8	5.8	3.5	
KY06C-1178-16-10-3	5.3	1.3	4.5	7.5	*
KY06C-2067-16-7-1	4.8	4.8	5.8	6.3	**
KY07C-1145-94-12-5	6.5	2.8	5.3	5.8	*
L11538	2.3	4.5	4.3	5.5	

VARIETY	Leaf Rust	Powdery Mildew	Leaf Blotch	Head Scab	Stripe Rust [^]
L11550	1.5	4.0	4.5	6.3	
L11610	1.5	3.5	4.5	4.3	
L11621	1.5	1.3	3.3	4.8	
PEMBROKE 2008	3.8	3.3	6.0	5.8	
PEMBROKE 2014	6.0	2.3	6.0	3.8	
PEMBROKE 2016	4.3	3.3	5.5	4.8	*
Pioneer variety 26R10	6.0	5.0	6.3	5.3	
Pioneer variety 26R36	3.0	7.8	5.3	4.3	
Pioneer variety 26R41	1.8	2.8	5.3	6.5	
Pioneer variety 26R53	5.0	5.3	6.0	6.5	
Pioneer variety 26R59	5.3	3.5	4.5	3.8	
Pioneer variety XW15C	3.5	5.0	3.3	4.3	
PROGENY #BOSS	3.8	4.5	4.8	5.5	
PROGENY P 243	4.3	5.0	4.3	2.3	
PROGENY P 357	7.0	6.8	8.5	6.3	
PROGENY PGX 14-5	4.5	2.0	6.5	2.5	
PROGENY #Bullet	2.0	2.8	4.0	3.3	
PROGENY #Turbo	1.3	2.5	4.5	4.5	
PROGENY #Warrior	5.0	4.0	4.8	5.5	
PROGENY PGX 16-1	1.0	2.0	4.5	8.3	
PROGENY PGX 16-3	7.5	4.3	5.0	4.0	
PROGENY PGX 16-4	1.0	1.5	5.0	7.8	
SC 13S07TM	1.8	4.5	4.3	3.0	
SC 13S17TM	4.0	8.3	5.3	3.0	
SC 13S26TM	8.0	8.0	6.0	5.3	**
SC 13S37TM	5.3	5.8	4.3	4.0	
STEYER Wharton	3.8	8.8	6.0	3.5	
STEYER STex166	5.5	7.0	4.3	3.3	
SYNGENTA SY 100	6.3	3.5	6.5	5.5	
SYNGENTA SY 547	2.3	2.0	2.8	6.0	*
SYNGENTA SY HARRISON	4.8	6.0	5.8	6.3	
SYNGENTA SY VIPER	4.8	4.3	4.3	5.8	
TN 1501	5.0	5.8	5.3	8.3	
TN 1604	1.8	3.3	4.3	6.0	
Truman	4.8	6.5	5.0	2.0	
TX-EL2	2.8	1.0	6.0	5.3	
USG 3197	1.5	4.8	4.5	2.3	
USG 3228	3.3	5.0	5.3	2.8	
USG 3316	7.0	7.5	5.5	4.8	**
USG 3404	5.0	5.8	5.0	6.3	
USG 3448	3.3	8.8	4.8	3.5	
USG 3536	1.8	4.3	4.3	2.3	
USG 3895	3.0	5.0	5.5	6.3	
VA11W-108PA	1.0	1.0	3.5	7.3	
VA12W-31	2.0	1.3	3.3	7.0	
VA12W-68	2.8	1.5	4.5	7.0	
VA13W-38	1.8	1.0	3.0	3.5	
X08C-1077-11-18-3	1.0	1.0	3.8	6.0	*
X08C-1181-61-15-5	4.5	5.3	6.5	5.3	
AVERAGE	3.8	4.7	5.1	4.8	

All diseases rated at Lexington, KY (Wheat Variety Forage Test)
 Leaf blotch associated with Septoria tritici
 Disease rating scale: 1 = resistant; 9 = susceptible.
[^] Stripe rust pressure was minimal: Rated as * Susceptible or ** Very Susceptible
[^] Recommendation: Use stripe rust ratings from the 2016 KY Wheat Variety Test

Table 14. 2017 Kentucky Hulless Barley Variety Test.

VARIETY	Yield (Bu/A)*	Yield (Bu/A)*	Yield (Bu/A)*	Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1
	2017	2016-17	2015-17	2017	2017	2017	2015-16
AMAZE 10	73.8	67.2	67.6	62.0	0	32	20
Dan	70.1	67.0	69.6	60.2	0	33	19
Doyce	67.7	60.0	63.5	58.4	0	31	18
Eve	66.4	65.2	66.6	60.5	0	32	18
AVERAGE	69.5	64.9	66.8	60.3	0	32	19

Location: Caldwell Co. (Princeton, KY)

Planting date: 10-10-16; No-till

Harvest date: 5-31-17

* 60-lb standard bushel weight.

Table 15. 2017 Kentucky Barley Variety Test.

VARIETY	Yield (Bu/A)*	Yield (Bu/A)*	Yield (Bu/A)*	Test Wt. (Lb/bu)	Lodging (%)	Height (In)
	2017	2016-17	2015-17	2017	2017	2017
Price	126.6	113.7	111.2	50.3	0	30
Flavia	117.8			48.7	0	31
Thoroughbred	117.2	115.7	111.3	48.0	0	30
Atlantic	112.7	107.5	106.3	46.8	3	29
Violetta	111.3	96.2	96.1	48.7	0	32
Secretariat	104.4	103	106.8	48.1	0	27
Callao	101.1	89.5	92.7	46.3	27	28
Wysor	97.0	99.8	98.6	44.4	20	35
Barsoy	89.1	86.1	89.3	46.9	3	30
Nomini	87.5	89.8	90.9	46.5	0	36
AVERAGE	106.4	100.1	100.4	47.5	0	31

Location: Caldwell Co. (Princeton, KY)

Planting date: 10-10-16; No-till

Harvest date: 5-31-17

* 48-lb standard bushel weight.

Table 16. 2017 Kentucky Cereal Rye Variety Test.

VARIETY	2017 Yield (Bu/A)*	2016 Yield (Bu/A)*	Test Wt. (Lb/bu)	Lodging (%)	Height (In)	Heading Date > April 1
Aroostook	77.9	43.1	54.2	15	61	18
KWS Bono**	43.8		48.0	14	47	31
KWS Progras**	41.4	58.2	45.2	22	51	28
CCWRY1	37.6	50.8	49.0	24	55	31
Spooner	36.3	51.1	49.9	40	57	24
KWS Galvano**	30.7		46.4	11	45	31
KWS Guttino**	27.6	76.4	47.4	4	45	34
KWS Dolaro**	26.4		42.5	13	43	33
KWS Brasetto**	25.5	77.5	45.7	2	44	31
BRAVEST	22.2		42.3	28	50	25
LAX Guardian	20.3	53.3	47.5	32	53	30
GUVEST	14.3		47.8	27	46	34
AVERAGE	33.7	58.6	47.2	19	50	29

Location: Woodford Co.

Planting date: 10-19-16

Harvest date: 6-20-17

*56-lb standard bushel weight

** Hybrid cereal rye

70 lb nitrogen applied at Feekes 5

Table 17. 2017 Kentucky Triticale Variety Test.

VARIETY	Grain Yield (Bu/A)*		Test Wt. (Lb/bu)	Height (In)	Heading Date > April 1
	2017	2016-17	2017	2017	2017
LAX HY Octane	89.1	76.8	52.8	47	27
NS 202567	72.9		48.9	52	25
Trical 336	72.7	60.6	53.7	44	25
SS 1414	68.3	58.7	48.1	43	20
Trical 815	66.2	65.2	51.3	44	23
Trical Gainer 154	65.2	56.6	53.4	45	19
Arcia	64.8	47.6	50.5	44	19
AVERAGE	71.3	60.9	51.3	46	23

Location: Woodford Co.

Planting date: 10-19-16

Harvest date: 6-20-17

* 60-lb standard bushel weight

Lodging = 0%

Table 18. 2017 Kentucky Oat Variety Test.

VARIETY	Grain Yield (Bu/A)*		Test Wt. (Lb/bu)	Height (In)	Lodging (%)
	2017	2016-17	2017	2017	2017
NC12-3447	157.2	110.3	36.1	39	16
NC12-3578	153.5	112.3	37.1	39	1
Gerard 229	138.4	101.9	37.1	36	32
RAM 99016	135.6	101.7	35.3	42	0
CCBO3	134.3	111.6	36.5	37	0
Gerard 224	130.8	101.9	36.4	37	11
Horizon 306	130.3	90.3	36.6	37	0
SS 76-50	126.7	97.5	35.1	38	22
CCBO4	110.0		35.7	39	19
Brooks	101.2	74.9	35.5	43	42
NC09-4274N	100.9		38.5	38	6
Horizon 201	96.9	74.7	34.7	40	2
AVERAGE	126.3	97.7	36.2	39	13
C.V.	16.0	17.2			
LSD (0.10)	30.9	19.1			

Location: Woodford Co.

Planting date: 10-19-16

Harvest date: 6-20-17

* 32-lb standard bushel weight

Winter survival = 100%

70 lb nitrogen applied at Feekes 5



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