

2011 Kentucky Small Grain VARIETY PERFORMANCE TEST

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www.uky.edu/ag/WheatVarietyTest

The 2011 soft red winter wheat growing season ended with Kentucky farmers harvesting 410,000 acres of the 530,000 acres planted, for a total production of 27.9 million bushels of grain. An average yield of 68 bushels per acre was recorded (Table 1). The acreage not harvested for grain was primarily used for 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 and barley that are commercially available or may soon be available to Kentucky farmers. New varieties are continually 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 and oat tests for varietal differences in forage potential and straw yields were conducted at one location.

Experimental Methods

One hundred entries were evaluated under both conventional and no-till cultural practices. No-till tests were grown at three locations, and conventional tests were grown at four 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 ft wide and 15 ft long, which was later trimmed to 12 ft in length. No-till plots consisted of seven rows to form a plot 5 ft wide and 25 ft long, which was later

trimmed to 20 ft 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 was typically applied in the fall and spring. Nitrogen was applied in a February/March split application at a rate of approximately 30/60 lb per acre (conventional tests) or 40/70 lb per acre (no-till).

Table 1. Wheat acreage harvested and yields (bu/A) in Kentucky, 2009-2011.*

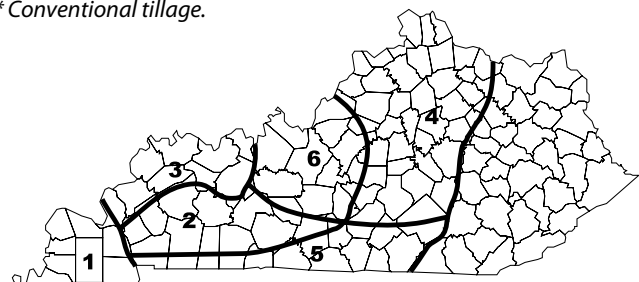
2011		2010		2009	
Harvested	Yield	Harvested	Yield	Harvested	Yield
410,000	68	270,000	63	400,000	60

*June 1, 2011, National Agricultural Statistics Service.

Table 2. Agroclimatic regions of Kentucky small grain variety tests.

Region	Location	Cooperator	Crop Tested
1 Purchase	Graves Co.	Jed Clark	Wheat*
2 Western Coal Field	Caldwell Co.	Princeton Research and Education Ctr.	No-till Wheat, Barley
3 Ohio Valley	Henderson Co.	David Alexander	No-till Wheat
4 Bluegrass	Fayette Co.	Kentucky Ag. Exp. Station	Wheat*, Oat, Forage tests
5 Southern Tier	Logan Co.	Don Halcomb	Wheat*
	Trigg Co.	Ben Cundiff and Barry Alexander	Wheat*
6 North Central	Hardin Co.	Charlie and Jimmy Stuecker	No-till Wheat

* Conventional tillage.



The forage test was planted using conventional tillage and was harvested using a small plot forage combine at the milk 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/A) based on 60-lb, 48-lb, and 32-lb standard bushel weights for wheat, barley and oats, respectively at 13.5% moisture content. Test weights (lb/bu) were determined using a HarvestMaster Classic Grain-Gage. 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% for all locations in 2011. 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% of the heads had extended above the flag leaf collar. Disease ratings (leaf blotch complex and powdery mildew) were recorded from the Logan county (non-fungicide) test, and Fusarium head scab ratings were recorded at Lexington, Ky. 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 outyields 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 very 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 should also be emphasized that a variety reported to be 50% lodged does not imply that only 50% 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 (hulled and hulless) variety performance data are presented in Tables 13 and 14. Oat forage, grain, and straw yield data are presented in Table 15.

Test Conditions

Very dry weather during October facilitated timely planting throughout much of the state. The 2011 Kentucky small grain variety tests were planted between October 8 and October 17. Cool temperatures from November through February limited early growth and development. Warmer temperatures in March stimulated plant growth. Frequent rainfall in April and May favored leaf and glume blotch disease pressure throughout the state; head scab developed later in central Kentucky. Hot, dry conditions in early June favored timely dry-down. In some areas, harvest was delayed due to frequent rainfall in mid June.

Acknowledgments

In memory of Charles R. Tutt, 1941–2011.

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Wheat Varieties Tested in 2011

Agrihorizon, Inc.

PO Box 576
Arlington, NE 68002

EXCEL 234
EXCEL 442

AgriMAXX Wheat Co.

7167 Highbanks Rd.
Mascoutak, IL 62258

AgriMAXX 412
AgriMAXX 413
AgriMAXX 415
AgriMAXX 490

Armor Seeds

PO Box 178
Fisher, AR 72429

ARMOR RICOCHET
ARMOR RENEGADE
ARMOR ARX 0179
ARMOR ARX 0186

Beck's Hybrids

6767 E. 276th
Atlanta, IN 46031

Beck 113
Beck 126
Beck 135
Beck 87

Delta Grow Seed

PO Box 219
220 NW 2nd
England, AR 72046

Delta Grow 7500
Delta Grow 7900
Delta Grow 8300

Direct Enterprises

PO Box 978
Westfield, IN 46074

DW Exp 102
Sienna
Quest

Dyna-Gro Seed

6221 Riverside Dr.,
Ste. 1
Dublin, OH 43017

Dyna-Gro 9012
Dyna-Gro 9042
Dyna-Gro 9171
Dyna-Gro 9911
Dyna-Gro 9922

Excel Brand Seed

257 E. Hail St.
Bushnell, IL 61422

Excel 166
Excel 173
Excel 180
Excel 242
Excel 341
Excel 344

Kentucky American Seeds, Inc.

205 Means Ave.
Hopkinsville, KY 42240

KAS S1200
KAS S900
KAS 5058

Kentucky Foundation Seed Project

University of Kentucky
PO Box 11950
Lexington, KY 40579

Cumberland
KY03C-1237-32

Kentucky Small Grain Growers Association

PO Box 90
Eastwood, KY 40018

Pembroke 2008

Miles Seed / CPS

Owensboro, KY 42304

Exsegen Candace
Exsegen Dinah
Exsegen Elisabeth
Exsegen Lois
Exsegen Phebe
Exsegen Sarah

Pioneer Hi-Bred Intl.

700 Boulevard S.,
Ste. 302
Huntsville, AL 35802

Pioneer variety 25R32
Pioneer variety 25R56
Pioneer variety 25R78
Pioneer variety 26R15
Pioneer variety 26R20
Pioneer variety 26R22
Pioneer variety XW09H

Progeny AG Products

1529 Hwy 193
Wynne, AR 72396

PROGENY 117
PROGENY 125
PROGENY 166
PROGENY 185
PROGENY PGX 10-2
PROGENY PGX 10-5
PROGENY PGX 10-7

Seed Consultants, Inc.

PO Box 370
Washington Court
House, OH 43160

SC 1311
SC 1321
SC 1341

Southern States Coop.

PO Box 26234
Richmond, VA 23260

SS 520
SS 5205
SS 8302
SS 8309
SS 8404
SS 8600
SS 8700
SS EXP 8340
SS EXP 8500
SS MPV-57

Steyer Seeds

6154 N. County Rd. 33
Tiffin, OH 44883

STEYER CRESTLINE
STEYER KIDWELL
STEYER SEBREE
STEYER JORDAN

Syngenta Seeds

520 E. 1050 St., Box 411
Brookston, IN 47923

SYNGENTA Branson
SYNGENTA Oakes
SYNGENTA SY 1526
SYNGENTA SY 9978
SYNGENTA W1104
SYNGENTA W1566

Terral Seeds

PO Box 826
Lake Providence, LA
71254

Terral LA821
Terral TV8558
Terral TV8589
Terral TV8861
Terral TVX8460
Terral TVX8535
Terral TVX8626
Terral TVX8525
Terral TVX8848

UniSouth Genetics

2640-C Nolensville Rd.
Nashville, TN 37211

USG 3201
USG 3251
USG 3345
USG 3409

University of Missouri

Columbia, MO 65211

Bess
Milton
Truman

Virginia Tech

PO Box 338
Warsaw, VA 22572

Merl
VA05W-139
VA05W-251

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Table 3. 2011 Kentucky Wheat Test—Overall State Summary.*

Variety	Yield (bu/A)			Test Wt. (lb/bu) 2011	Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2009-11				
USG 3251	100.8	95.2		57.8	1	37	28
ARMOR ARX 0179	100.6			59.1	1	35	26
AgriMAXX 413	100.4			56.2	0	34	25
Pioneer variety XW09H	100.4			57.3	0	36	28
Dyna-Gro 9042	100.1	94.5		57.7	5	35	26
Dyna-Gro 9171	99.8			56.4	2	34	25
ARMOR RICOCHET	99.6	92.8		55.6	6	35	26
Terral TVX8535	99.6			56.0	0	35	25
BECK 135	99.5	95.7		57.9	2	37	28
SS 8700	99.5	95.0		57.8	10	36	29
AgriMAXX 412	99.3			58.9	2	34	26
Dyna-Gro 9911	99.3	93.9	88.9	58.9	2	35	26
STEYER KIDWELL	98.9			56.0	2	35	25
STEYER JORDAN	98.8			59.4	3	35	26
KAS S1200	98.6	95.6		56.0	0	34	25
Delta Grow 7500	98.4			56.0	1	34	25
SC 1341	98.4	92.9		56.2	3	35	28
BECK 126	98.2			57.6	2	41	26
PROGENY PGX 10-5	98.1			56.0	0	35	25
Terral TVX8626	97.7			55.2	5	36	28
Terral TVX8848	97.7			57.2	1	36	28
Delta Grow 7900	97.0			59.2	3	35	26
Exsegen Elisabeth	96.9			55.8	0	34	25
Quest	96.6	92.1		57.0	8	38	29
PROGENY PGX 10-7	96.2			55.0	5	36	29
SYNGENTA W1104	96.2	93.1	89.8	55.9	10	36	28
Pioneer variety 25R56	96.2	90.9		56.6	6	36	26
EXCEL 344	96.1			58.4	3	35	26
SS EXP 8340	96.1			58.9	2	35	26
Pioneer variety 25R32	96.0	91.2	89.2	58.4	5	36	28
EXCEL 442	95.9	91.6		58.0	6	41	29
SYNGENTA SY 1526	95.9			56.5	5	37	25
Terral TV8861	95.9	92.4		57.2	3	35	29
BECK 113	95.8	91.5	87.6	57.2	5	36	26
KY03C-1237-32	95.8			58.4	1	34	26
SC 1321	95.6	93.4		55.3	1	34	25
Exsegen Lois	95.6	91.8	86.8	55.7	4	35	28
KAS S900	95.6			58.9	3	35	26
Dyna-Gro 9012	95.4	93.9		58.6	2	35	26
PROGENY 117	95.0	87.7	84.6	57.8	12	38	25
Sienna	94.8	92.2		57.5	3	40	26
Pembroke 2008	94.6	89.6	86.0	58.1	1	37	26
EXCEL 173	94.5			57.4	13	38	25
Pioneer variety 26R22	94.5	91.3	86.5	57.0	6	38	26
ARMOR RENEGADE	94.4	91.9	87.2	57.6	0	37	26
EXCEL 242	93.8	91.1		57.2	5	38	28
Pioneer variety 25R78	93.7	88.9	84.2	57.1	1	36	25
Terral TVX8525	93.6			57.5	1	36	26
KAS 5058	93.6	90.9	87.5	59.4	5	35	26
Dyna-Gro 9922	93.4	92.8	89.2	57.0	1	37	26
USG 3345	93.2			58.6	6	35	26
AgriMAXX 415	93.0			58.6	1	35	26

Table 3 (continued).

Variety	Yield (bu/A)			Test Wt. (lb/bu) 2011	Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2009-11				
Pioneer variety 26R15	93.0	89.8	85.7	56.5	5	36	26
USG 3201	92.7			58.5	2	35	26
Exsegen Candace	92.6	88.3	85.1	57.0	5	39	25
ARMOR ARX 0186	92.6			57.7	6	35	26
EXCEL 234	92.5	90.4	87.3	58.7	14	38	28
PROGENY 185	92.5	85.5	82.1	57.4	1	36	26
SS 8302	92.4	89.5	87.0	57.8	3	36	28
EXCEL 180	92.1			59.8	8	37	25
EXCEL 166	91.9			58.2	5	38	25
STEYER CRESTLINE	91.8			59.0	7	35	25
PROGENY 166	91.4	84.6	81.1	57.8	3	39	26
SS 8600	91.3	91.5		57.0	0	37	26
STEYER SEBREE	91.1			59.3	8	36	23
SYNGENTA W1566	91.0	88.7	85.3	54.6	3	40	26
PROGENY PGX 10-2	90.9			58.4	9	38	28
SYNGENTA BRANSON	90.8	86.9	84.7	56.6	0	35	25
DW EXP102	90.8			58.8	6	39	28
EXCEL 341	90.5	85.5	83.6	57.5	4	40	28
USG 3409	90.5			57.4	1	36	26
Exsegen Dinah	90.5	89.7	86.8	59.4	4	36	26
SS 8404	90.5	87.0	81.6	58.4	0	33	26
AgriMAXX 490	89.4			59.1	6	36	22
PROGENY 125	89.0	82.3		56.2	4	35	23
VA 05W-251	88.9			56.0	4	33	26
Merl	88.8	84.0	78.5	57.0	3	35	25
Bess	88.8	83.8	82.5	59.1	10	38	26
SC 1311	88.6	88.0		58.2	13	38	28
BECK 87	88.3	83.6		59.2	6	36	23
Pioneer variety 26R20	87.6	86.0	81.1	56.2	9	36	26
SYNGENTA OAKES	87.5	85.7	82.1	57.9	2	36	28
SS EXP 8500	87.4			56.2	6	38	28
Truman	86.8	83.1	81.7	58.1	7	42	33
SS 5205	86.8	84.3	80.6	57.3	7	32	26
SS 8309	85.9	85.1	81.2	57.4	1	37	28
Terral TV8558	85.8	82.7		56.5	2	36	26
Exsegen Sarah	85.4			56.7	0	41	29
Milton	85.2	83.1	78.7	57.5	10	37	28
Terral TV8589	84.7	81.8		55.0	9	38	28
Terral TVX8460	84.3			57.1	0	39	29
Exsegen Phebe	84.2	85.8		56.9	0	35	29
SS 520	84.1	81.5	78.9	55.3	12	36	24
VA 05W-139	84.0			56.6	0	33	28
SYNGENTA SY 9978	82.5	83.0		55.6	8	38	26
Cumberland	82.3	80.7	76.9	56.2	4	35	26
SS MPV-57	81.9	82.9	81.3	56.1	4	35	28
Clark	78.4	73.2	71.8	56.7	1	38	25
Delta Grow 8300	73.9			54.6	3	36	26
Terral LA821	72.8	75.2		54.8	8	36	25
AVERAGE	92.5	88.3	84.0	57.3	4	36	27
C.V.	6.5	6.6	6.7				
LSD (0.10)	2.9	4.8	3.9				

*Summary of six tests—Caldwell, Hardin, Logan, Henderson, Trigg, Graves Counties.

Table 4. 2011 Kentucky Wheat Forage Test.

Variety	DM Yield* at Milk Stage Tons/A			Head Type
	2011	2010-11	2009-11	
PROGENY PGX 10-7	3.93			Bearded
SS 8700	3.91	3.48		Bearded
Dyna-Gro 9042	3.91	3.24		Smooth
SS 8302	3.90	3.30	3.50	Bearded
SYNGENTA W1566	3.87	3.43	3.65	Smooth
USG 3251	3.81	3.10		Bearded
Terral TVX8626	3.80			Bearded
EXCEL 173	3.78			Smooth
Pioneer variety 26R15	3.75	3.11	3.30	Bearded
SS 8404	3.73	3.17	3.21	Bearded
BECK 113	3.72	3.14	3.43	Smooth
USG 3409	3.71			Smooth
STEYER KIDWELL	3.71			Bearded
SS MPV-57	3.70	3.16	3.37	Smooth
Pioneer variety XW09H	3.69			Bearded
Terral TV8589	3.68	3.23		Smooth
Delta Grow 7500	3.63			Bearded
SYNGENTA W1104	3.62	2.99	3.22	Smooth
SS 8309	3.61	3.15	3.33	Smooth
EXCEL 242	3.59	2.93		Smooth
Exsegen Dinah	3.58	3.11	3.41	Smooth
Dyna-Gro 9922	3.56	3.03	3.12	Bearded
Exsegen Sarah	3.54			Smooth
Dyna-Gro 9911	3.54	3.02	3.05	Smooth
Delta Grow 7900	3.54			Smooth
Exsegen Elisabeth	3.53			Bearded
STEYER JORDAN	3.51		3.33	Smooth
EXCEL 341	3.50	3.07	3.46	Smooth
Terral TVX8848	3.50			Bearded
Pembroke 2008	3.48	3.02	3.39	Bearded
DW EXP102	3.48			Smooth
VA 05W-251	3.47			Smooth
SC 1341	3.46	2.92		Bearded
KAS 5058	3.45	2.86	3.20	Smooth
Dyna-Gro 9171	3.45			Bearded
Pioneer variety 25R32	3.44	2.80	3.05	Bearded
STEYER CRESTLINE	3.44			Smooth
EXCEL 166	3.44			Smooth
Exsegen Lois	3.42	2.90	3.11	Smooth
SC 1311	3.42	2.96		Smooth
BECK 135	3.40	3.02		Bearded
VA 05W-139	3.40			Smooth
Milton	3.39	2.91	3.28	Bearded
Quest	3.39	2.79		Smooth
ARMOR RICOCHET	3.39	2.89		Bearded
Terral TVX8525	3.39			Bearded
PROGENY 166	3.38	3.02	3.31	Smooth
Pioneer variety 26R20	3.38	2.92	3.19	Bearded
Truman	3.37	2.87	3.28	Smooth
Dyna-Gro 9012	3.37	3.13		Bearded
SS EXP 8500	3.37			Bearded
SYNGENTA OAKES	3.36	2.97	3.27	Smooth
SS EXP 8340	3.36			Bearded

Variety	DM Yield* at Milk Stage Tons/A			Head Type
	2011	2010-11	2009-11	
Cumberland	3.30	2.82	3.05	Bearded
SS 8600	3.28	2.79		Bearded
ARMOR ARX 0179	3.28			Smooth
SYNGENTA SY 9978	3.27	3.05		Bearded
KY03C-1237-32	3.27			Bearded
PROGENY PGX 10-5	3.26			Bearded
Sienna	3.25	2.76		Smooth
EXCEL 234	3.23	2.81	3.00	Smooth
Terral LA821	3.23	2.87		Bearded
KAS S900	3.22			Smooth
Terral TVX8535	3.21			Bearded
PROGENY 185	3.20	2.64	2.72	Smooth
PROGENY PGX 10-2	3.20			Smooth
USG 3201	3.20			Bearded
Terral TV8861	3.19	2.74		Bearded
EXCEL 180	3.19			Smooth
SC 1321	3.18	2.76		Bearded
Pioneer variety 26R22	3.16	2.83	3.17	Bearded
Delta Grow 8300	3.16			Bearded
ARMOR RENEGADE	3.14	2.80	2.98	Bearded
AgriMAXX 412	3.14			Smooth
SYNGENTA SY 1526	3.13			Smooth
Terral TV8558	3.11	2.72		Smooth
ARMOR ARX 0186	3.10			Bearded
Pioneer variety 25R56	3.09	2.67		Smooth
PROGENY 117	3.08	2.67	2.91	Smooth
AgriMAXX 413	3.07			Bearded
EXCEL 442	3.05	2.74		Bearded
USG 3345	3.02			Smooth
Exsegen Candace	2.98	2.66	2.88	Smooth
SS 5205	2.98	2.66	2.94	Smooth
AgriMAXX 490	2.96			Bearded
EXCEL 344	2.96			Smooth
Bess	2.94	2.77	3.02	Smooth
KAS S1200	2.93	2.63		Bearded
Merl	2.92	2.66	2.94	Smooth
SS 520	2.85	2.51	2.83	Smooth
Pioneer variety 25R78	2.84	2.60	2.87	Bearded
Terral TVX8460	2.84			Smooth
BECK 126	2.84			Smooth
AgriMAXX 415	2.79			Bearded
STEYER SEBREE	2.76			Bearded
Clark	2.65	2.38	2.80	Smooth
SYNGENTA BRANSON	2.64	2.49	2.81	Smooth
PROGENY 125	2.51	2.21		Smooth
Exsegen Phebe	2.46	2.36		Bearded
BECK 87	2.43	2.33		Bearded
AVERAGE	3.31	2.87	3.15	
C.V.	10.88	11.74	11.74	
LSD (0.10)	0.42	0.29	0.25	

*DM=Dry Matter Yield
Location: Bluegrass Region—Fayette County; conventional tillage
Planting date: 10-17-10
Harvest date: 6-1-11

Table 5. 2011 Kentucky Wheat Straw Test.

Variety	DM Yield* Tons/A		
	2011	2010-11	2009-11
Exsegen Sarah	1.26		
Truman	1.23	1.25	1.33
Pioneer variety 26R20	1.16	1.17	1.35
DW EXP102	1.15		
EXCEL 234	1.11	1.35	1.43
Terral LA821	1.09	1.37	
SYNGENTA SY 9978	1.08	1.12	
EXCEL 442	1.08	1.20	
Pioneer variety 26R15	1.07	1.13	1.25
SS 8700	1.07	1.10	
PROGENY PGX 10-2	1.07		
EXCEL 341	1.06	1.29	1.50
SS 8302	1.05	1.24	1.33
EXCEL 173	1.05		
SYNGENTA W1566	1.05	1.33	1.47
USG 3251	1.05	1.10	
Pioneer variety XW09H	1.05		
ARMOR RENEGADE	1.03	1.07	1.25
Sienna	1.03	1.17	
Quest	1.03	1.04	
ARMOR ARX 0179	1.03		
Pembroke 2008	1.02	1.13	1.18
Pioneer variety 26R22	1.00	1.08	1.29
Milton	0.98	1.11	1.31
SS 8600	0.98	1.23	
SS EXP 8500	0.98		
Merl	0.97	1.18	1.26
Exsegen Dinah	0.96	1.08	1.28
Dyna-Gro 9922	0.95	1.20	1.31
EXCEL 242	0.95	0.96	
SC 1311	0.94	1.15	
Terral TV8861	0.94	1.15	
EXCEL 180	0.94		
Terral TV8589	0.93	1.08	
USG 3409	0.93		
AgriMAXX 412	0.93		
BECK 126	0.93		
PROGENY 117	0.92	1.00	1.17
Dyna-Gro 9911	0.89	1.12	1.16
Exsegen Phebe	0.89	0.99	
STEYER CRESTLINE	0.89		
SYNGENTA W1104	0.88	1.01	1.19
BECK 135	0.88	1.18	
SS 8309	0.87	1.12	1.23
Terral TV8558	0.87	1.04	
PROGENY PGX 10-7	0.87		
SS MPV-57	0.86	1.12	1.22
Delta Grow 8300	0.86		
Terral TVX8626	0.86		
EXCEL 166	0.86		
STEYER KIDWELL	0.85		
Terral TVX8460	0.85		
Terral TVX8535	0.85		

Variety	DM Yield* Tons/A		
	2011	2010-11	2009-11
Terral TVX8848	0.85		
Exsegen Elisabeth	0.84		
ARMOR RICOCHET	0.83	0.85	
USG 3201	0.83		
BECK 113	0.82	0.98	1.08
SS 520	0.81	0.99	1.06
Exsegen Candace	0.81	1.05	1.18
Pioneer variety 25R32	0.81	0.92	0.98
KAS 5058	0.81	1.00	1.22
Delta Grow 7500	0.81		
ARMOR ARX 0186	0.81		
VA 05W-251	0.81		
SS 8404	0.80	1.01	1.14
AgriMAXX 413	0.80		
PROGENY 166	0.79	1.04	1.18
Delta Grow 7900	0.79		
Terral TVX8525	0.79		
VA 05W-139	0.79		
Clark	0.78	0.97	1.12
STEYER JORDAN	0.78		1.05
Dyna-Gro 9042	0.78	0.94	
PROGENY PGX 10-5	0.77		
SYNGENTA OAKES	0.76	1.04	1.20
Bess	0.75	0.92	1.02
Exsegen Lois	0.75	0.81	1.11
PROGENY 125	0.74	0.91	
Dyna-Gro 9171	0.73		
SS EXP 8340	0.73		
KY03C-1237-32	0.71		
PROGENY 185	0.70	0.81	0.92
AgriMAXX 490	0.70		
KAS S900	0.69		
SYNGENTA SY 1526	0.67		
EXCEL 344	0.67		
SC 1341	0.65	0.88	
Pioneer variety 25R78	0.64	0.86	1.03
SYNGENTA BRANSON	0.63	0.81	0.91
Pioneer variety 25R56	0.63	0.75	
KAS S1200	0.63	0.88	
Dyna-Gro 9012	0.63	0.95	
USG 3345	0.63		
SC 1321	0.62	0.76	
AgriMAXX 415	0.62		
Cumberland	0.57	0.72	0.84
BECK 87	0.57	0.80	
STEYER SEBREE	0.56		
SS 5205	0.55	0.78	0.89
AVERAGE	0.86	1.04	1.18
C.V.	25.26	22.51	21.01
LSD (0.10)	0.25	0.18	0.15

*Dry Matter straw yield following grain harvest.
Note: 2011 test had poor stands—2 and 3 year averages are recommended for variety selection.
Location: Bluegrass Region—Fayette County; conventional tillage
Planting date: 10-17-10
Harvest date: 6-29-11

Table 6. 2011 Kentucky Wheat Test—Purchase Region.

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11			
AgriMAXX 413	120.4		57.1		0	36	20
STEYER KIDWELL	120.4		57.1		1	37	20
Delta Grow 7500	118.9		57.1		0	36	20
Terral TVX8535	118.3		57.2		0	37	20
Pioneer variety XW09H	116.9		58.4		0	36	24
USG 3251	116.6	103.6	56.8	57.2	4	40	23
Dyna-Gro 9171	116.5		57.3		0	35	21
ARMOR RICOCHET	115.8	107.0	56.0	56.4	1	37	23
Pioneer variety 25R56	115.2	100.5	59.1	57.4	1	37	23
Dyna-Gro 9911	114.7	100.6	59.3	59.2	3	36	21
SS 8700	113.8	100.1	59.2	58.0	3	38	24
KY03C-1237-32	113.2		59.7		0	37	22
KAS S1200	113.1	106.9	57.3	56.4	0	37	20
Exsegen Elisabeth	113.1		56.0		0	35	21
Terral TVX8848	113.0		57.2		0	38	23
PROGENY PGX 10-5	112.9		56.7		0	37	20
SC 1341	112.5	101.2	57.3	57.1	0	36	24
AgriMAXX 415	111.9		59.1		0	37	22
Pioneer variety 26R15	111.9	100.1	57.6	56.9	5	38	21
ARMOR ARX 0186	111.8		59.6		3	37	21
SYNGENTA SY 1526	111.6		58.8		3	40	21
AgriMAXX 490	111.5		62.1		13	39	18
USG 3345	111.5		60.1		1	36	22
USG 3201	111.3		58.3		3	38	22
Pioneer variety 25R32	111.3	100.9	59.4	59.4	4	38	23
Pembroke 2008	111.2	99.2	59.6	58.8	0	38	21
Terral TV8861	111.0	101.3	57.3	57.7	0	36	25
PROGENY PGX 10-2	110.9		59.6		3	40	24
Pioneer variety 26R22	110.5	99.2	58.5	57.7	5	39	22
SYNGENTA W1104	110.2	101.5	55.1	55.8	6	37	23
STEYER JORDAN	110.1		59.5		4	36	21
Exsegen Lois	110.1	102.4	56.2	55.7	3	37	23
Terral TVX8626	110.1		55.8		0	39	24
Dyna-Gro 9042	110.0	96.6	58.9	58.2	1	36	22
AgriMAXX 412	109.9		59.2		3	37	22
Dyna-Gro 9012	109.8	100.9	59.3	59.2	0	36	23
EXCEL 173	109.6		59.2		16	40	20
ARMOR ARX 0179	109.6		59.5		0	36	22
Pioneer variety 25R78	109.5	96.9	58.9	57.9	4	38	22
SC 1321	109.2	101.4	56.7	56.3	0	36	21
PROGENY 117	108.8	94.1	59.7	58.4	4	40	20
SS EXP 8340	108.6		59.0		1	38	22
PROGENY PGX 10-7	108.4		56.2		0	38	24
STEYER SEBREE	108.4		61.6		5	40	18
Terral TVX8525	108.2		59.3		1	38	22
EXCEL 341	108.2	97.6	58.3	58.0	1	41	23
KAS S900	107.9		59.2		0	38	21
SS 8404	107.7	95.1	60.2	59.4	1	35	21
BECK 135	107.7	102.9	57.9	57.9	0	39	24
EXCEL 344	107.5		59.5		1	38	22
Pioneer variety 26R20	107.5	94.6	58.8	57.8	8	37	23
EXCEL 180	107.2		60.7		9	40	19
Merl	107.1	94.6	59.4	58.7	0	37	19

Table 6 (continued).

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11			
BECK 126	107.1		58.2		0	43	21
SS 8302	107.0	95.9	58.2	58.3	0	37	23
PROGENY 185	106.8	96.4	58.3	57.9	1	38	23
PROGENY 166	106.6	95.2	59.5	58.7	1	40	22
SS 8600	105.4	99.9	58.1	58.3	0	38	23
Exsegen Phebe	105.3	98.6	56.9	57.3	0	36	23
PROGENY 125	105.2	92.9	58.8	57.3	0	37	18
EXCEL 242	104.9	96.8	58.2	58.5	5	39	24
Exsegen Candace	104.4	95.6	57.5	57.3	10	41	20
SS 520	104.4	90.9	57.1	56.5	6	38	19
BECK 113	104.3	93.2	59.1	58.4	1	39	21
SC 1311	104.2	95.9	59.8	59.9	0	40	24
SYNGENTA W1566	104.0	92.3	55.3	55.7	1	41	23
Dyna-Gro 9922	103.8	95.0	57.6	57.9	5	39	23
Delta Grow 7900	103.7		59.0		5	37	22
Terral TVX8460	103.5		57.3		0	41	24
SS 5205	103.4	88.3	59.4	58.1	9	33	21
KAS 5058	102.6	94.1	60.1	59.8	0	38	21
SYNGENTA OAKES	102.2	93.0	59.7	59.4	3	37	24
STEYER CRESTLINE	101.9		59.9		4	37	21
Truman	101.7	92.6	57.2	58.1	9	44	29
VA 05W-251	101.6		56.7		0	34	22
Quest	101.5	95.4	57.8	57.2	0	38	25
DW EXP102	101.2		58.6		8	40	23
Bess	101.1	91.5	60.4	59.7	5	40	22
EXCEL 442	101.0	97.2	58.0	58.2	1	43	26
EXCEL 234	100.8	93.1	59.1	59.2	8	41	24
Sienna	100.1	95.5	57.8	57.4	0	41	22
USG 3409	100.1		59.4		3	37	22
BECK 87	100.0	90.1	61.0	59.9	3	38	18
SYNGENTA SY 9978	100.0	91.8	57.0	56.7	4	40	21
SS 8309	99.9	91.6	59.3	58.8	3	38	23
EXCEL 166	99.5		59.2		4	40	20
SYNGENTA BRANSON	99.4	91.7	57.0	57.0	0	36	21
ARMOR RENEGADE	99.3	96.2	59.0	58.8	0	38	23
Exsegen Dinah	99.3	93.4	60.0	59.8	0	38	22
VA 05W-139	98.9		57.6		1	35	23
Milton	97.6	92.6	58.5	58.6	5	40	23
SS MPV-57	97.5	91.0	57.6	57.0	5	37	23
SS EXP 8500	96.8		56.7		6	40	23
Terral TV8558	96.2	86.3	59.3	58.7	1	38	22
Terral TV8589	95.8	89.0	55.8	55.6	4	40	23
Exsegen Sarah	93.0		55.0		0	43	26
Cumberland	88.5	82.2	57.3	56.9	1	36	22
Terral LA821	87.2	84.6	57.0	57.2	6	37	20
Delta Grow 8300	84.2		56.0		3	36	21
Clark	81.9	76.3	58.1	57.8	0	40	22
AVERAGE	106.3	95.5	58.3	57.9	3	38	22
C.V.	6.2	6.1					
LSD (0.10)	7.7	5.0					

Location: 2011—Graves County; 2010—Christian County; conventional tillage

Planting date: 10-8-10

Harvest date: 6-13-11

Table 7. 2011 Kentucky Wheat Test—Western Coal Field Region.

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11			
STEYER KIDWELL	108.0		58.2		0	36	25
BECK 113	106.5	96.0	58.3	56.9	8	37	26
Dyna-Gro 9042	106.5	96.8	59.4	58.0	0	35	26
ARMOR ARX 0179	106.3		61.7		0	36	26
Dyna-Gro 9171	106.1		59.0		0	35	25
Sienna	105.7	94.9	59.4	57.8	0	42	26
SS 8700	105.5	97.1	60.1	58.5	1	37	28
Pioneer variety 25R56	105.4	92.9	59.3	57.4	3	36	26
BECK 126	105.2		58.9		3	41	25
ARMOR RICOCHET	105.2	94.9	58.1	57.1	0	36	26
Exsegen Elisabeth	105.1		58.6		0	36	26
KAS S1200	105.1	95.2	58.8	57.9	0	36	25
Terral TVX8535	104.1		58.2		0	36	25
Dyna-Gro 9911	104.1	93.1	61.3	59.7	4	35	26
Delta Grow 7500	104.0		58.3		0	36	26
SYNGENTA W1566	104.0	92.9	57.8	57.1	3	41	26
PROGENY PGX 10-5	103.9		59.2		0	35	25
SC 1321	103.5	96.4	59.1	58.2	0	35	25
SC 1341	103.4	95.5	57.9	57.1	1	36	27
EXCEL 242	103.3	97.1	58.8	57.9	3	40	27
Delta Grow 7900	103.0		61.3		0	36	27
BECK 135	102.9	95.8	60.2	58.5	0	37	28
USG 3251	102.8	94.4	59.6	58.4	0	39	28
SYNGENTA SY 1526	102.7		56.6		5	38	25
Terral TVX8626	102.6		57.6		0	38	28
AgriMAXX 412	102.2		60.6		1	35	27
Pioneer variety XW09H	102.0		59.9		0	36	27
PROGENY PGX 10-7	101.9		57.2		1	37	28
Exsegen Dinah	101.7	93.8	61.5	60.0	0	38	26
AgriMAXX 413	101.5		58.9		0	35	25
Exsegen Lois	101.4	94.6	57.6	56.5	5	36	28
EXCEL 344	101.1		60.1		1	37	26
SS EXP 8340	101.1		62.0		0	35	26
EXCEL 180	100.9		62.2		8	38	24
STEYER JORDAN	100.7		61.2		3	37	26
Terral TVX8848	100.5		58.4		0	38	26
Quest	99.9	92.6	59.2	57.5	8	39	29
SYNGENTA W1104	99.6	93.4	57.9	57.2	5	36	28
SS 8302	99.2	91.5	60.7	59.6	0	37	27
KAS 5058	99.0	91.8	61.0	59.5	6	36	26
EXCEL 234	98.9	90.7	59.4	58.8	15	40	27
EXCEL 173	98.9		58.6		18	39	25
Pembroke 2008	98.9	90.5	59.1	58.5	1	38	26
Merl	98.8	86.6	59.6	58.7	0	36	25
Pioneer variety 26R22	98.6	92.8	59.7	58.0	3	39	26
Exsegen Candace	98.5	91.9	59.0	57.8	0	41	25
USG 3345	98.4		60.7		1	36	26
Pioneer variety 25R78	98.4	90.3	60.0	59.1	0	37	25
EXCEL 442	98.2	95.3	60.4	58.7	8	44	28
SS EXP 8500	98.0		59.0		0	39	27
KAS S900	97.4		60.6		4	37	26
USG 3409	97.4		59.3		1	38	26
DW EXP102	97.2		61.5		1	39	28

Table 7 (continued).

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11			
Terral TV8861	97.1	87.9	59.8	58.1	0	36	28
Dyna-Gro 9012	96.8	94.0	60.5	59.6	0	36	26
STEYER CRESTLINE	96.2		60.3		15	37	25
Terral TVX8525	95.7		59.3		0	37	26
USG 3201	95.6		61.5		0	36	26
PROGENY 166	95.6	85.0	59.9	58.0	0	41	26
EXCEL 166	95.6		60.2		0	38	25
SYNGENTA BRANSON	95.2	86.5	58.5	57.4	0	36	25
Pioneer variety 26R15	95.1	87.6	58.7	57.7	4	37	26
EXCEL 341	95.1	88.1	59.5	57.9	4	42	28
VA 05W-251	94.8		59.3		1	35	28
ARMOR RENEGADE	94.5	85.7	59.4	58.9	0	39	26
AgriMAXX 415	94.2		61.1		0	35	26
SC 1311	94.0	88.3	59.9	59.0	11	40	27
SYNGENTA OAKES	93.7	86.4	60.1	59.1	1	37	27
ARMOR ARX 0186	93.4		59.7		3	35	25
Pioneer variety 26R20	93.3	88.2	58.7	58.8	8	38	27
SS 520	93.2	88.2	58.2	57.4	5	37	24
PROGENY PGX 10-2	92.7		59.8		3	39	27
Pioneer variety 25R32	92.6	83.8	60.3	59.1	8	37	27
PROGENY 185	92.6	81.1	58.2	57.6	0	37	26
SS 8404	92.3	86.4	60.9	60.2	0	33	27
Truman	92.2	82.4	58.7	57.4	3	43	34
BECK 87	91.8	83.5	62.1	60.6	1	36	22
Dyna-Gro 9922	91.6	93.0	59.2	58.4	0	38	27
KY03C-1237-32	91.5		60.3		0	36	27
STEYER SEBREE	91.4		61.0		3	38	22
Exsegen Phebe	91.2	89.4	60.3	58.4	0	36	29
Terral TV8589	90.6	84.5	56.7	56.7	13	39	27
SS 8309	90.4	84.8	58.4	57.4	0	37	27
Exsegen Sarah	90.3		56.8		0	42	29
Bess	89.3	82.2	60.8	59.1	9	39	26
Cumberland	89.3	81.5	58.9	57.9	3	36	26
SS 5205	89.3	83.9	59.7	59.1	6	31	26
PROGENY 117	89.3	81.6	58.8	58.5	16	38	25
PROGENY 125	89.3	81.9	58.7	57.6	6	37	22
Terral TV8558	89.1	83.0	58.3	56.4	1	38	26
SS 8600	89.0	87.1	57.9	58.2	0	38	26
AgriMAXX 490	88.7		61.5		1	37	22
SYNGENTA SY 9978	87.2	81.6	57.6	57.6	3	39	26
VA 05W-139	86.8		59.2		1	34	28
SS MPV-57	86.6	84.7	58.0	56.8	5	37	27
Milton	83.9	78.2	59.5	58.6	0	38	27
Terral TVX8460	83.2		59.2		0	40	28
Clark	82.1	75.7	58.5	57.1	0	40	25
Delta Grow 8300	81.7		57.6		0	36	26
Terral LA821	79.2	76.4	57.3	57.4	6	37	25
AVERAGE	96.9	88.8	59.4	58.2	3	37	26
C.V.	6.0	7.5					
LSD (0.10)	6.8	5.7					

Location: Princeton, Ky.—Caldwell County; no-till

Planting date: 10-9-10

Harvest date: 6-16-10

Table 8. 2011 Kentucky Wheat Test—Ohio Valley Region.

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11			
AgriMAXX 412	111.5		60.0		0	32	27
USG 3251	109.7	103.7	59.4	58.9	0	37	29
STEYER JORDAN	109.6		59.7		1	34	28
ARMOR ARX 0179	109.0		58.6		6	33	29
ARMOR RENEGADE	108.9	102.2	58.8	58.8	0	36	26
SS 8700	108.6	103.4	57.7	58.2	40	36	29
Dyna-Gro 9042	108.5	105.2	57.7	58.3	19	35	28
AgriMAXX 413	108.1		57.0		0	34	26
SC 1341	106.9	103.1	56.5	57.1	8	34	29
KAS S900	106.5		59.2		11	33	27
PROGENY 117	106.3	99.6	58.1	58.7	30	37	27
Dyna-Gro 9911	105.6	102.6	59.0	59.7	8	33	28
STEYER KIDWELL	105.6		56.3		13	34	27
Pioneer variety XW09H	105.4		58.1		0	36	29
Dyna-Gro 9922	104.9	100.8	57.7	58.6	3	37	28
Quest	104.0	100.6	57.1	58.1	35	38	29
Terral TVX8626	103.4		55.6		16	35	29
EXCEL 344	103.1		58.0		13	34	28
BECK 135	102.9	102.7	58.5	58.7	8	36	29
Terral TVX8535	102.2		56.8		0	34	27
Pioneer variety 25R32	102.0	97.5	58.5	59.3	15	35	28
BECK 126	101.4		58.1		10	40	27
KAS S1200	101.4	101.1	56.3	57.2	0	34	25
ARMOR RICOCHET	101.1	98.6	55.2	56.1	14	34	29
Dyna-Gro 9171	101.0		56.0		10	33	26
PROGENY PGX 10-5	100.9		56.3		0	35	27
Delta Grow 7900	100.8		59.2		6	34	28
Delta Grow 7500	100.5		56.1		8	34	27
EXCEL 442	100.4	93.9	57.2	57.7	23	40	30
Sienna	99.9	102.2	57.8	58.2	8	40	27
SYNGENTA BRANSON	99.8	97.7	57.4	58.1	0	35	27
KY03C-1237-32	99.2		58.2		4	33	28
PROGENY 185	98.9	94.0	58.1	58.4	8	36	27
EXCEL 234	98.8	97.5	58.5	59.6	35	37	29
Exsegen Lois	98.8	98.0	56.7	56.9	6	35	28
Pioneer variety 26R22	98.6	97.7	56.9	57.9	23	37	28
PROGENY 125	98.5	92.0	56.0	57.0	13	33	25
SYNGENTA W1104	98.5	97.8	56.1	57.0	23	35	28
SS 8600	98.5	97.9	58.0	58.7	0	37	27
Pioneer variety 25R78	98.2	97.8	57.1	58.0	0	34	26
USG 3201	98.2		58.9		6	34	27
BECK 113	98.1	99.5	56.5	57.8	16	35	27
USG 3345	98.1		58.6		18	34	27
KAS 5058	97.9	96.3	59.2	60.3	11	33	28
SS EXP 8340	97.6		58.6		10	34	27
AgriMAXX 415	97.5		59.2		5	34	27
Dyna-Gro 9012	97.3	98.2	58.5	59.7	13	34	28
PROGENY 166	97.3	90.2	57.9	58.8	8	39	27
PROGENY PGX 10-7	96.9		54.5		25	34	29
EXCEL 166	96.3		57.6		23	35	26
STEYER CRESTLINE	96.0		59.7		9	32	27
Pioneer variety 26R15	96.0	95.6	56.7	57.7	13	34	27
ARMOR ARX 0186	95.3		56.9		25	34	28

Table 8 (continued).

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11			
BECK 87	95.2	95.2	58.7	59.9	16	35	25
EXCEL 173	95.1		56.1		20	37	27
Exsegen Candace	94.6	94.2	56.9	57.8	15	38	27
Terral TV8861	94.2	96.5	57.1	57.2	8	34	30
Pioneer variety 25R56	94.2	97.6	55.5	56.3	11	35	28
Pembroke 2008	94.1	94.3	57.9	58.6	3	36	27
SC 1321	94.1	98.7	52.8	55.8	8	33	27
DW EXP102	94.0		59.2		8	39	29
Terral TVX8848	92.8		57.5		3	35	29
Terral TVX8525	92.3		57.2		3	36	27
Exsegen Elisabeth	92.2		56.1		0	33	26
Pioneer variety 26R20	91.5	91.3	56.0	57.3	29	34	28
SS 8302	91.3	92.4	57.7	59.0	18	36	29
EXCEL 341	91.3	86.0	56.8	58.3	18	40	29
EXCEL 242	91.0	91.1	57.0	58.2	16	36	29
SC 1311	91.0	95.1	58.1	59.5	28	36	29
USG 3409	90.9		56.8		3	36	28
AgriMAXX 490	90.7		58.2		18	36	24
Bess	90.4	88.5	58.3	59.6	35	36	27
SS 5205	89.7	93.1	55.9	58.2	25	33	28
SS 8404	89.5	92.3	56.5	58.7	0	32	28
SS 8309	88.7	89.2	57.5	58.7	5	36	28
PROGENY PGX 10-2	88.4		58.3		23	38	29
Merl	88.1	91.4	57.0	58.0	15	35	27
Exsegen Phebe	87.3	91.9	56.1	57.5	3	35	30
VA 05W-251	87.1		55.1		23	32	27
EXCEL 180	87.1		59.1		16	34	26
Truman	86.7	85.4	58.3	58.9	23	41	32
SYNGENTA SY 1526	86.5		55.3		13	36	27
Terral TVX8460	86.5		58.4		1	41	29
Milton	86.1	86.9	56.6	58.3	30	36	29
Exsegen Dinah	86.0	91.2	58.6	59.1	15	35	28
Terral TV8558	86.0	88.0	55.7	57.2	5	34	28
VA 05W-139	85.4		57.4		0	33	28
Exsegen Sarah	85.4		58.7		1	42	29
SYNGENTA W1566	85.0	92.1	54.3	56.5	8	39	28
SS 520	84.2	85.7	55.1	56.6	25	36	26
STEYER SEBREE	83.2		58.1		33	34	25
Clark	81.5	78.3	56.5	57.6	8	38	28
SS EXP 8500	81.4		55.6		33	36	29
SYNGENTA SY 9978	81.0	86.8	55.3	56.9	30	35	28
Terral TV8589	80.6	85.1	54.6	55.4	10	38	29
Cumberland	78.2	83.4	55.5	57.4	15	32	27
SYNGENTA OAKES	77.4	85.1	55.0	57.7	1	36	29
Terral LA821	76.8	80.6	53.6	55.5	25	34	26
Delta Grow 8300	74.2		55.1		13	34	28
SS MPV-57	69.6	79.5	54.9	56.7	8	34	29
AVERAGE	95.0	94.1	57.2	58.0	13	35	28
C.V.	7.6	6.4					
LSD (0.10)	8.4	5.0					

Location: 2011—Henderson County, 2010—Hardin County; no-till

Planting date: 10-11-10

Harvest date: 6-23-11

Table 9. 2011 Kentucky Wheat Test—Bluegrass Region.

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11		
Exsegen Dinah	79.0	82.6	57.4	58.4	33	42
KAS 5058	76.9	80.4	57.3	58.3	32	41
Terral TVX8848	76.1		54.9		32	43
Delta Grow 7900	75.6		56.3		32	41
SC 1311	74.6	80.4	56.5	58.2	33	42
SS 8700	74.6	80.9	53.3	55.3	34	42
Pioneer variety 25R32	73.9	79.7	56.4	57.9	33	42
Pioneer variety 26R15	73.9	77.8	54.1	55.5	32	41
ARMOR RICOCHET	73.5	76.8	52.0	54.7	28	41
Dyna-Gro 9911	73.5	79.1	57.1	58.1	32	41
Pioneer variety XW09H	73.3		54.0		31	42
KAS S900	72.5		56.2		33	40
Terral TVX8626	72.3		52.5		32	44
PROGENY PGX 10-5	72.0		52.3		30	40
EXCEL 242	72.0	77.0	54.9	56.5	34	42
Quest	71.9	75.1	52.9	54.4	34	45
Bess	71.7	72.9	56.3	58.2	34	43
PROGENY 117	71.6	74.6	55.1	56.7	35	41
EXCEL 173	71.6		55.5		35	41
STEYER JORDAN	71.6		56.5		32	41
Delta Grow 7500	71.6		52.3		29	40
SYNGENTA W1104	71.5	77.4	52.9	54.8	32	43
PROGENY PGX 10-2	70.8		56.0		33	42
DW EXP102	70.8		54.7		34	42
SS 8302	70.6	76.5	55.6	57.0	33	42
PROGENY PGX 10-7	70.5		52.2		31	43
ARMOR ARX 0179	70.4		56.4		32	41
STEYER CRESTLINE	69.2		56.7		31	41
KAS S1200	69.2	77.3	52.0	54.7	28	41
PROGENY 166	68.9	73.8	53.9	56.0	35	41
BECK 135	68.6	76.4	54.1	56.0	33	43
KY03C-1237-32	68.1		55.7		31	41
Dyna-Gro 9042	68.0	74.4	53.1	55.0	30	41
Pembroke 2008	67.9	72.4	54.2	56.3	32	41
Exsegen Elisabeth	67.6		52.9		30	41
VA 05W-251	67.5		53.4		30	42
EXCEL 234	67.4	76.4	55.8	57.7	32	42
AgriMAXX 412	67.0		56.2		31	41
Dyna-Gro 9171	66.7		52.4		30	41
USG 3251	66.6	75.0	54.3	56.0	32	43
Terral TVX8535	66.2		52.6		29	41
SS EXP 8340	66.2		55.5		30	41
Terral TVX8525	66.1		54.5		30	42
SYNGENTA SY 1526	66.1		53.3		33	40
BECK 126	65.9		54.4		36	42
SS 8309	65.8	75.6	55.2	57.2	33	42
SC 1341	65.5	72.1	51.7	54.6	28	41
Exsegen Lois	65.4	68.7	51.0	53.4	30	41
BECK 113	65.3	73.2	53.6	55.7	31	40
SC 1321	65.2	74.7	51.9	54.2	29	41
PROGENY 185	65.1	67.5	53.4	55.0	32	41
AgriMAXX 413	65.1		51.2		29	41
Dyna-Gro 9012	64.9	76.0	55.6	57.7	30	42
EXCEL 166	64.7		55.2		32	40

Table 9 (continued).

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11		
EXCEL 442	64.4	72.0	55.2	56.6	37	45
Milton	63.9	67.5	54.4	56.9	34	42
USG 3201	63.7		55.4		30	42
Terral TV8861	63.5	74.8	55.1	56.1	31	44
EXCEL 180	63.4		55.2		33	40
Sienna	63.3	71.7	54.4	55.5	35	43
Truman	63.1	70.0	55.2	56.0	37	55
STEYER KIDWELL	62.7		51.8		29	41
Exsegen Sarah	62.4		53.8		36	50
ARMOR ARX 0186	62.2		55.3		31	41
SYNGENTA W1566	61.9	73.5	49.8	52.9	34	41
AgriMAXX 490	61.4		55.9		32	37
Pioneer variety 25R56	61.3	70.3	52.8	54.4	30	43
SS 8404	60.3	66.5	55.6	57.2	29	41
Dyna-Gro 9922	60.2	73.7	52.9	55.7	32	40
USG 3345	60.0		55.1		30	41
AgriMAXX 415	59.8		55.4		30	42
STEYER SEBREE	59.5		55.7		30	37
EXCEL 344	59.4		55.4		31	42
SS MPV-57	59.0	69.5	52.4	54.5	32	42
SYNGENTA SY 9978	58.9	69.6	50.8	54.1	34	40
Pioneer variety 26R22	58.8	69.7	52.4	54.5	32	41
SS EXP 8500	58.8		51.3		32	43
SYNGENTA OAKES	58.5	68.7	55.7	57.3	30	42
BECK 87	56.9	63.7	56.0	58.1	30	38
Pioneer variety 26R20	56.1	69.1	52.3	55.6	34	42
EXCEL 341	56.0	66.6	53.6	55.9	35	44
ARMOR RENEGADE	55.8	71.2	52.5	55.5	33	40
SS 8600	55.6	71.0	52.5	55.1	32	41
Terral TV8589	55.2	66.7	51.4	53.4	33	43
Exsegen Phebe	55.1	67.6	52.8	55.1	31	44
SS 5205	55.0	67.6	53.6	56.4	28	41
Exsegen Candace	54.6	64.3	52.4	54.9	35	41
USG 3409	52.9		51.8		32	41
Cumberland	52.6	62.2	52.7	54.8	29	42
PROGENY 125	52.2	58.2	50.5	53.2	28	39
Pioneer variety 25R78	50.9	66.2	53.0	56.2	29	41
Terral TV8558	50.1	64.8	51.8	54.8	32	43
VA 05W-139	49.7		51.9		29	44
Merl	48.5	60.7	54.2	56.5	30	41
SS 520	47.3	60.0	49.6	53.3	31	41
Terral LA821	46.5	59.6	50.2	54.1	32	42
SYNGENTA BRANSON	44.4	61.1	54.4	55.6	30	42
Terral TVX8460	44.2		51.3		34	46
Clark	34.7	49.8	52.4	55.1	32	42
Delta Grow 8300	34.5		52.4		32	42
AVERAGE	63.5	71.1	53.8	55.7	32	42
C.V.	7.2	7.0				
LSD (0.10)	5.4	4.0				

NOTE: TEST HAD POOR STANDS—NOT RECOMMENDED FOR VARIETY COMPARISON!

Location: Lexington, Ky.—Fayette County; conventional tillage

Lodging = 0%

Planting date: 10-17-10

Harvest date: 6-29-11

Table 10. 2011 Kentucky Wheat Test—Southern Tier Region A.

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011
	2011	2010-11	2011	2010-11		
PROGENY PGX 10-5	98.9		53.4		0	34
SYNGENTA SY 1526	98.4		54.1		0	38
BECK 135	98.4	92.4	54.8	56.8	0	39
Terral TV8861	97.1	93.3	54.4	56.5	0	35
Pioneer variety XW09H	95.6		54.2		0	36
ARMOR ARX 0179	95.2		57.2		0	37
Dyna-Gro 9171	95.2		53.4		0	34
Exsegen Elisabeth	94.7		52.8		0	34
SS EXP 8340	94.6		55.7		0	36
Terral TVX8848	94.5		55.0		0	36
SC 1321	94.3	90.0	53.4	55.6	0	35
EXCEL 173	94.2		56.2		0	39
PROGENY PGX 10-7	94.1		52.4		0	36
Dyna-Gro 9911	93.7	91.5	56.4	58.7	0	37
EXCEL 166	93.4		55.7		1	41
Terral TVX8535	93.4		53.4		0	34
Pioneer variety 25R32	93.0	90.6	54.3	57.2	0	37
Terral TVX8626	92.9		52.0		0	36
Pioneer variety 25R78	92.8	84.0	54.4	56.5	0	35
EXCEL 344	92.8		56.2		0	35
Pioneer variety 25R56	92.7	87.1	54.1	55.2	4	36
KY03C-1237-32	92.7		55.2		0	35
AgriMAXX 413	92.6		53.0		0	35
PROGENY 117	92.2	85.0	55.5	57.2	3	40
ARMOR RICOCHET	92.0	81.2	52.9	54.4	4	36
USG 3251	91.7	91.1	54.3	56.5	0	37
SS 8600	91.6	93.5	53.8	56.4	0	37
STEYER JORDAN	91.5		56.9		0	37
ARMOR RENEGADE	91.4	93.2	54.5	57.1	0	38
SYNGENTA OAKES	91.2	88.0	56.6	58.8	0	35
STEYER SEBREE	91.0		56.2		0	38
EXCEL 180	90.9		58.2		4	39
Terral TVX8525	90.8		54.7		0	36
AgriMAXX 412	90.7		56.1		0	36
SYNGENTA W1104	90.7	90.1	53.1	55.0	0	36
Delta Grow 7900	90.5		56.9		0	37
Dyna-Gro 9012	90.5	91.6	55.9	58.2	0	35
ARMOR ARX 0186	90.5		55.3		0	36
KAS S900	90.3		56.6		0	36
Dyna-Gro 9042	90.2	91.1	54.3	56.4	0	35
STEYER KIDWELL	90.0		53.7		0	35
KAS S1200	89.9	90.2	53.4	55.7	1	34
SC 1341	89.9	86.1	53.2	55.0	5	34
BECK 113	89.8	88.2	54.2	56.2	3	35
Pembroke 2008	89.8	86.0	55.4	57.4	0	36
Exsegen Lois	89.7	89.3	52.5	54.3	0	37
Delta Grow 7500	89.5		53.6		0	34
SYNGENTA BRANSON	89.5	84.6	53.7	55.6	0	34
EXCEL 442	89.4	86.6	54.2	56.9	0	42
Pioneer variety 26R22	89.3	88.9	53.9	55.5	0	38
KAS 5058	89.2	90.7	56.2	58.3	3	36
Pioneer variety 26R15	88.9	88.4	53.5	55.6	0	37
PROGENY PGX 10-2	88.8		55.5		0	38
Bess	88.8	82.8	56.6	58.3	0	39

Table 10 (continued).

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011
	2011	2010-11	2011	2010-11		
SS 8404	88.4	87.4	55.7	58.0	0	34
EXCEL 234	88.4	90.1	56.1	58.4	0	40
EXCEL 341	88.1	82.2	53.9	55.8	0	41
Milton	87.5	86.4	55.6	57.5	0	38
VA 05W-251	87.4		53.4		0	33
EXCEL 242	87.1	87.9	53.9	56.6	0	39
AgriMAXX 415	86.8		56.3		0	35
Dyna-Gro 9922	86.7	91.6	53.8	56.4	0	37
PROGENY 166	86.2	77.4	54.6	56.5	1	40
STEYER CRESTLINE	86.2		55.6		0	36
BECK 126	86.2		54.0		0	41
SS 8700	85.9	88.8	53.6	55.7	0	34
Exsegen Dinah	85.3	87.1	56.1	58.2	1	36
Sienna	85.2	86.8	54.9	56.7	0	40
SS 8302	84.9	86.5	54.1	57.0	0	37
Quest	84.9	86.3	53.3	55.4	0	39
SS 5205	84.3	82.5	54.5	56.3	0	33
PROGENY 185	84.2	80.9	54.2	56.2	0	37
Exsegen Candace	83.9	82.0	54.4	56.2	3	40
USG 3345	83.1		55.7		0	35
Terral TV8589	82.9	74.7	52.7	54.5	0	38
USG 3201	82.4		56.0		0	34
USG 3409	82.1		54.3		0	36
VA 05W-139	82.1		52.5		0	33
Cumberland	81.8	83.6	54.0	56.0	0	36
SS MPV-57	81.7	82.2	53.1	55.6	0	37
SC 1311	81.6	81.7	55.1	57.8	0	38
Merl	81.5	76.8	54.1	56.1	1	35
DW EXP102	81.5		55.4		0	39
SS EXP 8500	81.4		52.1		0	38
Truman	80.5	80.0	56.1	57.6	0	42
Exsegen Sarah	80.3		55.7		0	40
SYNGENTA SY 9978	80.1	82.2	53.2	55.6	0	39
BECK 87	79.7	76.6	56.2	58.3	0	38
Pioneer variety 26R20	79.7	81.9	53.5	56.2	0	37
AgriMAXX 490	79.3		56.1		0	37
SYNGENTA W1566	79.2	82.2	51.2	54.0	0	41
Terral TV8558	78.8	77.3	52.4	54.5	0	36
PROGENY 125	78.3	75.5	52.9	54.8	3	34
Clark	78.2	69.2	54.6	56.4	0	39
Terral TVX8460	77.5		52.9		0	40
Terral LA821	75.9	75.3	53.9	55.8	0	38
SS 8309	73.6	78.6	53.0	55.6	0	38
Exsegen Phebe	71.7	76.1	52.7	55.4	0	35
Delta Grow 8300	71.1		50.7		0	38
SS 520	70.1	72.2	53.0	54.8	8	38
AVERAGE	87.5	84.8	54.4	56.3	0	37
C.V.	6.0	5.8				
LSD (0.10)	6.1	4.1				

Location: Logan County; conventional tillage

Planting date: 10-17-10

Harvest date: 6-20-11

Table 11. 2011 Kentucky Wheat Test—Southern Tier Region B.

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11			
Dyna-Gro 9042	109.9	96.6	58.4	57.9	8	35	26
ARMOR ARX 0179	109.4		59.7		1	36	26
Pioneer variety XW09H	108.9		58.4		1	36	27
EXCEL 442	108.1	100.8	60.6	59.5	4	42	28
Quest	107.3	98.3	58.4	57.6	5	38	28
Dyna-Gro 9911	106.6	96.6	60.4	59.7	0	36	26
Terral TVX8535	106.5		57.4		0	35	25
KAS S1200	106.2	103.4	57.3	56.4	1	35	25
Dyna-Gro 9922	106.1	96.2	58.9	58.5	0	38	25
BECK 126	105.2		58.8		1	42	26
USG 3251	105.2	97.9	59.1	58.3	1	38	27
ARMOR RICOCHET	105.0	101.6	55.3	56.1	20	36	26
STEYER JORDAN	104.9		60.3		8	35	26
PROGENY 185	104.9	95.4	59.2	58.4	0	37	26
ARMOR RENEGADE	103.9	98.5	58.2	58.4	1	38	25
AgriMAXX 413	103.5		57.4		0	35	25
EXCEL 344	103.5		60.0		1	36	25
Delta Grow 7900	103.2		59.9		6	35	27
Terral TVX8848	103.0		58.7		4	37	27
KAS S900	102.9		60.4		4	35	26
Dyna-Gro 9012	102.8	97.4	59.8	59.5	0	35	26
Exsegen Elisabeth	102.7		57.4		0	35	25
Delta Grow 7500	102.6		57.4		0	35	25
KY03C-1237-32	102.6		59.8		1	35	26
SS 8700	102.5	94.5	59.7	58.3	15	37	28
SS 8600	102.4	98.4	59.1	58.8	0	38	25
Dyna-Gro 9171	102.4		58.0		0	35	25
AgriMAXX 412	102.3		59.5		6	34	26
SS 8404	102.0	92.3	60.8	59.8	1	33	26
PROGENY 117	101.8	90.6	58.6	57.9	21	39	26
SYNGENTA W1104	101.7	97.3	58.3	57.4	25	35	27
EXCEL 242	101.5	95.2	58.3	58.6	5	39	27
Pioneer variety 25R32	101.4	96.0	60.2	59.8	1	36	27
SYNGENTA SY 1526	101.2		57.7		9	37	25
Terral TV8861	101.1	96.3	57.8	57.9	8	36	27
SC 1321	101.1	97.3	57.8	56.9	1	35	25
Pioneer variety 26R15	100.9	94.6	59.0	57.6	10	37	26
USG 3201	100.5		59.5		3	36	26
SS 8302	100.5	92.7	59.3	58.9	1	37	26
PROGENY PGX 10-5	100.5		57.2		0	35	25
Exsegen Candace	100.3	93.6	58.6	57.9	0	41	24
BECK 135	100.3	99.1	58.8	58.3	4	39	27
PROGENY PGX 10-7	100.3		56.0		1	36	28
Pembroke 2008	100.2	93.7	59.9	58.9	0	38	26
Sienna	99.7	95.4	58.7	57.9	8	42	26
AgriMAXX 490	99.5		60.3		4	37	21
Terral TVX8525	99.3		57.8		3	35	26
SS EXP 8500	99.3		57.7		0	38	26
AgriMAXX 415	99.1		60.3		1	35	26
Exsegen Lois	98.6	96.7	56.1	55.7	8	35	27
VA 05W-251	98.6		57.4		0	35	26
EXCEL 173	98.6		57.8		25	38	25
Merl	98.1	90.1	58.4	58.2	1	37	25
BECK 113	98.0	90.1	58.0	57.9	3	36	26

Table 11 (continued).

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11			
STEYER KIDWELL	98.0		56.9		0	35	25
STEYER CRESTLINE	97.9		60.1		16	35	25
Pioneer variety 26R22	97.9	92.9	57.5	57.2	4	38	26
EXCEL 180	97.9		59.8		9	38	25
STEYER SEBREE	97.8		60.3		9	37	21
USG 3409	97.5		59.0		1	37	26
SS EXP 8340	97.5		60.8		1	35	25
SYNGENTA W1566	97.3	89.0	56.1	56.1	8	40	26
USG 3345	96.6		58.8		15	36	25
SYNGENTA OAKES	96.5	90.1	58.9	58.9	6	37	27
Terral TVX8626	96.5		55.4		13	36	28
Pioneer variety 25R56	96.3	91.1	56.1	55.9	20	36	26
SC 1341	96.1	93.0	57.1	57.0	4	36	26
Pioneer variety 25R78	95.9	90.1	58.3	57.6	0	36	25
PROGENY PGX 10-2	95.3		58.7		24	39	26
Exsegen Dinah	95.0	91.2	60.6	60.1	5	36	26
Cumberland	94.7	85.3	58.0	57.3	5	36	25
BECK 87	94.5	87.4	60.6	59.7	15	38	22
SYNGENTA BRANSON	94.2	89.1	58.0	57.5	0	35	25
SS 8309	94.1	88.7	58.7	58.5	0	38	27
KAS 5058	93.9	89.8	60.8	60.1	8	36	27
EXCEL 166	93.7		58.6		1	38	25
DW EXP102	93.6		59.7		18	40	27
Pioneer variety 26R20	93.2	87.5	57.5	57.1	11	36	26
EXCEL 234	93.1	89.2	59.7	59.6	25	38	27
Bess	92.7	87.3	60.7	59.8	11	39	26
PROGENY 166	92.5	88.1	58.1	58.0	8	40	26
Terral TVX8460	91.7		58.3		0	39	29
Terral TV8558	91.6	84.0	58.4	58.3	5	37	26
VA 05W-139	91.4		58.8		0	34	28
ARMOR ARX 0186	91.0		58.5		6	36	25
PROGENY 125	90.9	85.8	55.9	55.8	1	36	22
SC 1311	90.7	89.2	58.0	59.0	38	38	26
Exsegen Sarah	90.3		58.7		1	41	29
SS 520	90.2	83.8	55.7	55.8	26	36	23
Truman	89.5	86.5	60.2	59.6	8	42	33
SS 5205	88.8	81.0	58.5	57.7	1	32	26
EXCEL 341	88.8	87.9	59.0	58.4	1	40	28
Milton	87.9	87.8	57.4	58.0	23	38	27
Terral TV8589	87.7	85.0	55.6	55.5	28	38	27
SS MPV-57	87.3	85.9	57.9	57.2	5	35	28
Clark	86.0	78.3	58.1	57.8	0	39	25
SYNGENTA SY 9978	85.4	84.5	57.4	56.9	11	38	26
Exsegen Phebe	84.2	88.1	59.1	58.4	0	35	30
Delta Grow 8300	80.5		56.2		3	38	26
Terral LA821	70.6	76.2	55.7	56.5	8	38	24
AVERAGE	97.8	91.5	58.5	58.0	6	37	26
C.V.	6.3	6.2					
LSD (0.10)	7.2	4.8					

Location: 2011—Trigg County; 2010—Christian County; conventional tillage

Planting date: 10-16-10

Harvest date: 6-20-11

Table 12. 2011 Kentucky Wheat Test—North Central Region.

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11		
BECK 135	85.0	93.8	57.4	58.1	35	32
BECK 126	83.9		57.6		38	31
Terral TVX8848	82.2		56.5		35	31
Quest	82.0	89.6	56.4	57.7	35	33
SC 1341	81.5	90.4	55.3	56.5	34	31
Terral TVX8626	80.8		55.0		34	33
Delta Grow 7900	80.6		59.0		33	31
SS 8700	80.5	89.4	56.8	57.7	36	33
AgriMAXX 412	79.1		58.1		32	30
ARMOR RICOCHET	79.0	87.5	55.8	56.3	32	31
USG 3251	78.9	88.4	57.5	57.9	35	33
KAS 5058	78.6	86.6	59.0	60.2	33	32
EXCEL 442	78.4	83.0	57.7	58.0	38	33
Sienna	78.3	91.4	56.8	57.7	38	32
BECK 113	78.2	89.5	57.3	58.2	33	31
Dyna-Gro 9171	77.6		55.0		32	30
DW EXP102	77.1		58.7		36	31
SS EXP 8340	77.0		57.5		34	31
AgriMAXX 413	76.3		54.1		32	30
SYNGENTA W1104	76.3	86.7	54.9	56.4	34	32
SYNGENTA W1566	76.2	87.7	52.8	55.8	37	31
KAS S1200	75.9	88.4	52.8	55.4	32	30
STEYER JORDAN	75.9		58.6		32	31
PROGENY PGX 10-7	75.7		53.9		34	33
KY03C-1237-32	75.7		57.2		31	31
Exsegen Dinah	75.6	86.0	59.8	59.7	33	31
Pioneer variety 25R32	75.6	84.4	58.0	59.1	34	32
Dyna-Gro 9042	75.5	88.7	57.5	58.2	32	32
EXCEL 234	75.2	85.6	59.5	60.1	34	31
USG 3409	75.2		55.9		34	31
SYNGENTA SY 1526	75.1		56.2		35	30
Dyna-Gro 9012	75.1	87.1	57.7	59.2	33	31
Terral TVX8525	75.1		56.8		33	31
EXCEL 242	75.1	83.2	57.0	58.2	37	32
Exsegen Lois	75.0	86.0	54.9	55.9	33	32
Delta Grow 7500	74.9		53.3		33	29
Terral TV8861	74.6	86.7	56.8	57.0	33	34
STEYER SEBREE	74.6		58.5		33	25
ARMOR ARX 0179	73.9		58.1		34	31
Exsegen Candace	73.8	83.8	55.8	57.2	36	30
Pembroke 2008	73.7	84.1	56.5	57.9	34	31
Pioneer variety XW09H	73.6		54.6		33	32
ARMOR ARX 0186	73.4		56.7		34	31
Exsegen Elisabeth	73.3		54.2		31	30
Terral TVX8535	73.3		52.9		31	30
Pioneer variety 25R56	73.1	87.1	55.4	56.2	33	32
Exsegen Sarah	72.9		55.4		39	33
Terral TV8558	72.8	81.4	54.9	56.8	35	31
STEYER CRESTLINE	72.7		58.4		32	30
EXCEL 166	72.6		57.8		34	30
Pioneer variety 26R22	71.9	84.3	55.6	57.2	35	31
EXCEL 341	71.9	76.3	57.7	58.7	36	32
PROGENY PGX 10-5	71.8		53.3		32	30
PROGENY 125	71.7	78.6	55.2	56.6	32	28

Table 12 (continued).

Variety	Yield (bu/A)		Test Wt. (lb/bu)		Height (in) 2011	Heading Date > April 1 2011
	2011	2010-11	2011	2010-11		
USG 3345	71.5		57.9		33	31
SS 8302	71.5	82.5	56.6	58.4	34	32
SC 1321	71.5	87.4	52.2	55.5	31	30
PROGENY 117	71.3	82.1	56.4	57.9	35	31
STEYER KIDWELL	71.2		54.1		32	30
Dyna-Gro 9911	71.1	85.3	57.3	58.9	34	31
PROGENY 166	70.5	76.8	56.9	58.2	37	31
EXCEL 173	70.5		56.6		36	31
Truman	70.4	77.3	58.2	58.8	41	35
Terral TV8589	70.4	80.0	54.9	55.6	37	33
Bess	70.3	78.5	58.0	59.4	37	32
SC 1311	70.0	84.6	58.5	59.7	34	31
PROGENY PGX 10-2	69.3		58.5		35	31
EXCEL 180	68.7		58.8		35	30
AgriMAXX 415	68.7		55.9		34	31
SS MPV-57	68.6	79.0	55.5	57.1	33	32
EXCEL 344	68.6		56.5		32	31
SS 8309	68.6	79.2	57.4	58.6	35	31
Milton	68.5	78.2	57.5	58.7	35	33
KAS S900	68.4		57.3		32	31
BECK 87	68.3	81.8	56.7	59.0	33	25
ARMOR RENEGADE	68.3	81.9	55.8	57.3	34	32
USG 3201	68.2		57.0		33	32
PROGENY 185	67.6	78.3	56.3	57.5	33	31
Pioneer variety 25R78	67.4	82.4	53.7	56.3	34	30
SS EXP 8500	67.3		56.1		35	33
Dyna-Gro 9922	67.2	82.0	54.9	57.2	35	31
SYNGENTA BRANSON	66.7	81.2	55.1	57.0	32	31
AgriMAXX 490	66.6		56.3		33	25
Exsegen Phebe	65.8	81.2	56.3	57.6	34	33
Pioneer variety 26R15	65.2	80.2	53.5	56.1	35	31
SS 5205	65.2	80.8	56.0	58.3	30	32
VA 05W-251	64.0		54.0		32	32
SYNGENTA OAKES	63.8	78.3	57.3	58.9	33	33
Terral TVX8460	63.3		56.9		36	34
SS 8404	62.8	78.9	56.6	58.8	30	32
SS 520	62.7	74.9	52.5	55.3	34	28
Cumberland	61.4	75.0	53.5	56.4	33	30
SYNGENTA SY 9978	61.3	77.0	52.9	55.7	36	31
SS 8600	60.6	79.0	55.0	57.2	34	32
Clark	60.5	67.7	54.6	56.7	34	29
Pioneer variety 26R20	60.4	75.8	52.8	55.6	34	31
VA 05W-139	59.6		54.2		32	32
Merl	59.0	76.9	53.8	56.4	33	30
Delta Grow 8300	52.0		52.2		33	32
Terral LA821	47.3	65.9	51.3	54.4	34	32
AVERAGE	71.6	82.5	56.1	57.5	34	31
C.V.	7.7	6.3				
LSD (0.10)	6.4	4.2				

Location: Hardin County; no-till

Lodging = 0%

Planting date: 10-12-10

Harvest date: 6-21-11

Table 13. 2011 Kentucky Barley Variety Test.

Variety	Yield (bu/A)*		Test Wt. (lb/bu) 2011	Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
	2011	2001-11				
Thoroughbred	110.2	104.0	45.9	7	35	22
Atlantic	104.3		43.7	20	32	19
Price	102.5	100.5	46.0	16	32	20
Callao	62.3		42.7	50	30	19
Barsoy	54.8		41.8	20	34	18
Nomini	50.7		37.9	20	39	18
Wysor	36.8		38.9	70	35	19
AVERAGE	74.5	102.3	42.4	29	34	19

*48-lb standard bushel weight.

Location: Princeton, Ky.—Caldwell County; no-till

Planting date: 10-9-10

Harvest date: 6-8-11

Table 14. 2011 Kentucky Hulless Barley Variety Test.

Variety	Yield (bu/A)* 2011	Test Wt. (lb/bu) 2011	Lodging (%) 2011	Height (in) 2011	Heading Date > April 1 2011
VA09H-178WS	80.7	54.4	15	35	21
VA06H-3WS	79.9	57.2	20	36	23
VA09H-4	78.0	56.2	5	34	22
VA06H-30	76.2	57.8	20	36	23
VA07H-10WS	75.8	56.8	0	38	22
Eve	73.0	55.1	11	35	19
VA07H-31WS	71.9	58.4	20	36	24
VA07H-35WS	71.5	55.6	25	36	23
VA09H-174	69.9	56.7	0	34	24
VA08H-79WS	68.9	57.8	30	36	26
Dan	68.8	57.6	2	33	22
VA08H-6WS	66.3	55.1	0	37	23
VA06H-149	65.5	55.1	40	35	24
VA08H-7WS	64.5	55.1	20	36	22
VA09H-110(2R)	63.3	53.4	35	38	22
VA08H-72	60.8	53.6	10	36	22
VA09H-111(2R)	55.3	52.9	25	39	21
Doyce	55.1	51.7	30	36	20
VA06H-25	47.6	56.2	45	36	24
VA06H-79	47.0	55.4	25	36	25
VA09H-3	45.8	52.2	50	35	20
VA09H-112(2R)	45.3	51.0	50	39	21
VA08H-5	44.5	53.3	50	38	22
AVERAGE	64.2	55.2	23	36	22

*60-lb standard bushel weight.

Location: Princeton, Ky.—Caldwell County; no-till

Planting date: 10-9-10

Harvest date: 6-8-11

Table 15. 2011 Kentucky Oat Variety Test.

Variety	Grain Yield (bu/A)*	Forage Yield DM (Tons/A)	Straw Yield DM (Tons/A)	Test Wt. (lb/bu)	Lodging (%)	Winter Survival (%)	Height (in)	Heading Date > May 1
Bob	111.8	3.70	1.60	37.1	22	75	38	14
Brooks	129.9	4.19	1.68	32.4	22	75	42	14
NC01-3497	165.7	5.16	1.65	34.7	2	82	38	16
SS 76-30	134.9	4.17	1.55	35.4	40	94	43	14
SS 76-40	145.3	5.38	1.85	35.9	0	97	41	16
AVERAGE	137.5	4.52	1.67	35.1	17	85	40	15

*32-lb standard bushel weight.

DM = Dry Matter Yield @ Milk Stage—Forage

Location: Bluegrass Region—Fayette County; conventional tillage

Planting date: 10-17-10

Harvest date: 6-1-11

Grain and straw harvest date: 6/29/11

Table 16. 2011 Kentucky Wheat Disease Ratings.

Variety	Leaf Blotch	Head Scab	Powdery Mildew	Variety	Leaf Blotch	Head Scab	Powdery Mildew
ARMOR ARX 0179	3.5	4.5	1.0	Pioneer variety 26R15	3.7	5.0	1.0
ARMOR ARX 0186	4.3	4.5	1.0	Pioneer variety 26R20	4.7	8.0	1.0
ARMOR RENEGADE	2.4	5.5	1.0	Pioneer variety 26R22	4.5	6.8	1.0
ARMOR RICOCHET	4.0	5.0	5.0	Pioneer variety XW09H	4.0	5.3	1.0
AgriMAXX 412	2.7	4.0	1.7	Quest	5.4	3.8	1.0
AgriMAXX 413	4.3	5.0	1.0	SC 1311	6.5	4.3	1.0
AgriMAXX 415	4.5	4.0	1.0	SC 1321	4.4	4.8	1.0
AgriMAXX 490	5.5	5.3	1.5	SC 1341	4.0	4.8	2.7
BECK 113	4.0	4.8	1.0	SS 520	5.5	8.0	1.0
BECK 126	4.0	4.0	1.7	SS 5205	6.4	5.5	1.0
BECK 135	4.0	5.3	1.0	SS 8302	5.4	5.5	1.0
BECK 87	4.5	4.5	2.0	SS 8309	4.5	4.3	1.0
Bess	4.5	3.5	1.5	SS 8404	5.0	6.8	1.0
Clark	5.0	6.0	2.3	SS 8600	3.0	5.8	1.0
Cumberland	4.5	5.5	1.0	SS 8700	4.5	5.8	1.0
DW EXP102	5.0	5.0	1.0	SS EXP 8340	3.5	4.8	1.0
Delta Grow 7500	4.7	4.5	1.0	SS EXP 8500	5.3	6.3	1.0
Delta Grow 7900	3.5	4.3	1.0	SS MPV-57	5.3	6.0	1.0
Delta Grow 8300	5.0	7.8	1.0	STEYER CRESTLINE	3.5	4.5	1.0
Dyna-Gro 9012	4.0	4.5	1.0	STEYER JORDAN	3.7	4.5	1.0
Dyna-Gro 9042	4.7	5.0	1.0	STEYER KIDWELL	4.5	4.8	1.0
Dyna-Gro 9171	4.8	4.5	1.0	STEYER SEBREE	4.7	4.8	1.0
Dyna-Gro 9911	3.5	4.5	1.0	SYNGENTA BRANSON	4.0	5.0	1.0
Dyna-Gro 9922	3.0	5.5	1.0	SYNGENTA OAKES	4.3	4.8	1.0
EXCEL 166	5.3	4.3	1.0	SYNGENTA SY 1526	3.5	5.0	2.0
EXCEL 173	5.0	4.5	1.7	SYNGENTA SY 9978	5.4	7.5	1.0
EXCEL 180	6.0	4.3	1.0	SYNGENTA W1104	4.0	4.8	1.0
EXCEL 234	5.0	4.5	1.0	SYNGENTA W1566	5.5	7.0	1.0
EXCEL 242	5.3	4.5	1.0	Sienna	4.0	4.5	1.0
EXCEL 341	5.0	4.3	5.0	Terral LA821	7.0	6.5	1.0
EXCEL 344	4.0	4.8	1.0	Terral TV8558	6.5	6.5	1.0
EXCEL 442	4.3	3.3	3.7	Terral TV8589	6.7	5.8	1.0
Exsegen Candace	5.5	5.3	1.0	Terral TV8861	4.0	5.3	1.0
Exsegen Dinah	4.8	4.5	1.0	Terral TVX8460	5.0	4.0	4.0
Exsegen Elisabeth	5.0	4.8	1.0	Terral TVX8525	4.5	5.3	1.0
Exsegen Lois	4.7	6.3	1.0	Terral TVX8535	4.4	4.3	1.0
Exsegen Phebe	5.0	4.3	1.0	Terral TVX8626	4.3	5.0	1.0
Exsegen Sarah	4.0	4.5	3.0	Terral TVX8848	4.0	4.3	1.0
KAS S1200	5.4	4.8	1.0	Truman	4.5	2.8	1.0
KAS 5058	5.0	4.5	1.0	USG 3201	4.0	5.3	1.0
KAS S900	3.0	4.5	1.0	USG 3251	4.0	5.8	1.0
KY03C-1237-32	6.3	4.8	1.0	USG 3345	3.0	5.3	1.0
Merl	4.4	7.0	1.0	USG 3409	6.5	7.5	1.0
Milton	5.0	6.5	1.0	VA 05W-139	3.7	5.8	1.0
PROGENY 117	4.8	4.3	1.0	VA 05W-251	4.7	5.3	1.0
PROGENY 125	8.4	6.8	2.0	AVERAGE	4.6	5.1	1.3
PROGENY 166	5.7	4.8	4.3				
PROGENY 185	5.7	4.8	1.7				
PROGENY PGX 10-2	5.7	4.5	1.0				
PROGENY PGX 10-5	4.5	4.8	1.0				
PROGENY PGX 10-7	4.5	5.3	1.0				
Pembroke 2008	5.7	5.3	1.0				
Pioneer variety 25R32	4.5	3.5	1.0				
Pioneer variety 25R56	3.5	4.5	1.0				
Pioneer variety 25R78	4.7	5.8	1.0				

Leaf blotch and head scab rating scale:
1 = resistant; 9 = susceptible.

Powdery mildew scale (minimal disease pressure):
1 = resistant or moderately resistant; 5 = very susceptible.

Leaf blotch and powdery mildew rated at Logan County, Ky; Head Scab at Lexington, Ky.

Leaf blotch complex: ~ 60% *Stagonospora nodorum* and 40% *Septoria tritici*.

NOTES



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