

2005 Kentucky Small Grain VARIETY PERFORMANCE TESTS

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www.uky.edu/ag/WheatVarietyTest

The 2005 wheat growing season ended with Kentucky farmers harvesting 300,000 acres of soft red winter wheat and a total production of 21,000,000 bushels of grain. An average yield of 70 bushels per acre was recorded, which is up 15 bushels per acre from the 2004 growing season (Table 1).

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 trials is to evaluate varieties of wheat 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 seed producers, farmers, 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, nine tests (five conventional tillage and four no-till) were grown at eight locations throughout the state (Table 2).

Experimental Methods

Eighty entries were evaluated under both conventional and no-till cultural practices. No-till tests were grown at four 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 multirow 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 10 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.

Table 1. Wheat harvested acreage and yields in Kentucky, 2003-2005.*

	2005		2004		2003	
	Harvested	Yield	Harvested	Yield	Harvested	Yield
Crop	1000A	Bu/A	1000A	Bu/A	1000A	Bu/A
Wheat	300	70	370	55	330	59

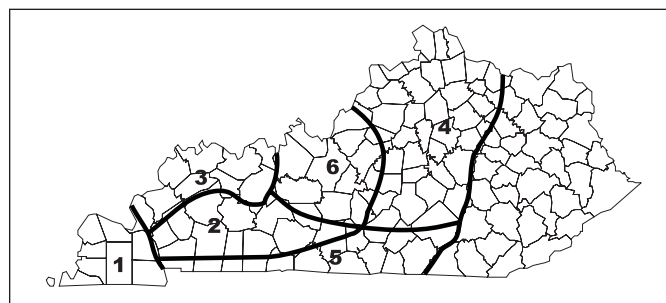
*July 1, 2005, National Agricultural Statistics Service

Tests were conducted using intensive management practices. Typical herbicide applications included a spring application for broadleaf control and a fall pre-planting burn-down (no-till tests only) application. Fungicides were applied in the spring on all but three (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 30/60 lbs/A (conventional tests) or 35/70 lbs/A (no-till).

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

Region	2005 Location	Cooperator	Crop Tested
1. Purchase	Calloway Co.	Marty Carraway	No-till Wheat
2. Western Coal Field	Caldwell Co.	Princeton Research and Education Center	Wheat*, Barley, No-till Wheat
3. Ohio Valley	Union Co.	Jim McElroy	Wheat*
4. Bluegrass	Fayette Co.	KY Agri. Expt. Station	Wheat*
5. Southern Tier	Logan Co. Todd Co.	Larry Thompson Don Halcomb Andy Gray	No-till Wheat Wheat*, Barley Wheat*
6. North Central	Shelby Co.	Doug Langley	No-till Wheat

* Conventional tillage



Characteristics Evaluated

Yields were calculated from the weight of grain from each plot and reported in bushels per acre (bu/A) based on a 60-lb standard bushel weight at 13.5% moisture content. Test weights (pounds per bushel) were determined using standard test weight equipment. Lodging and Winter Survival were reported as the percentage of plant lodging at maturity or survival after spring green-up, respectively. 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 (stripe rust, leaf rust, powdery mildew) were recorded from three conventional non-fungicide tests (Fayette, Caldwell, and Logan counties), and head scab ratings were recorded at the Fayette county Fusarium head blight nursery.

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 three-year average of another variety since 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. Bolded values in the 2005 yield columns indicate no significant difference ($p=0.05$) from the top yielding variety within each test/analysis.

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, almost all of the grain can often be saved. In 2005, lodging was minimal, with multiple tests showing no lodging.

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, height, heading date, grain quality, and disease resistance are important in choosing a variety. Wheat performance is presented in Tables 3 through 14. Disease ratings are presented in Table 17.

Winter barleys are 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 (commercial varieties and experimental hullless lines) performance data are presented in Tables 15 & 16.

2005 Test Conditions

Wet weather and cloudy conditions persisted throughout October and November hampering planting and seedling development of Kentucky's 2005 wheat crop. Much of the crop was planted in November, and some intended wheat acreage was not planted due to wet conditions. The 2005 small grain variety tests were planted between Oct. 11 and Nov. 9. Mild temperatures during January and February were conducive to good growth and tillering. Although the Fayette County test sustained substantial winter kill, Kentucky's wheat crop had little winter kill due to a relatively mild winter. Below average precipitation occurred from February through June. Overall, insect and disease pressure were low, although stripe rust was observed throughout the state. Cool temperatures during May provided ideal conditions for grain fill. Dry conditions during June favored timely harvest and excellent grain quality.

Acknowledgments

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Wheat Varieties Tested in 2005

Agripro Seeds

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

Agripro Benton
Agripro Cooper
Agripro M00-3701

Beck's Hybrids

6767 E. 276th
Atlanta, IN 46031

Beck 117

Delta King

PO Box 970
McCory, AR 72101

DK 1551W
DK 7710
DK 7830
DK 7900
DK 9216
DK 9410
DK 9577
DK 9650

Excel Seed

257 E. Hail St.
Bushnell, IL 61422

Excel 211
Excel 307
Excel 333
Excel 352tw
Excel 388
Excel 399
Excel 409tw

Foundation Seed Project

University of Kentucky
PO Box 11950
Lexington, KY 40579

KY93C-0004-22-1
KY93C-1238-17-4
KY93C-0378-5-2
KY93C-1238-17-5
KY93C-1238-17-1
KY94C-0094-11-2
KY93C-1238-17-2
KY97C-0232-2-2

JGL, Inc.

3540 S. US 231
Greencastle, IN 46135

EXP 501

Kentucky-American Seeds

PO Box 1104
Hopkinsville, KY 42240

Adams
Allen
Allegiance
Declaration
Independence

MD Crop Improvement

28564 Gilnock Rd.
Easton, MD 21601

Choptank
MV5-46

Miles Seed

Miles Farm Supply
PO Box 22879
Owensboro, KY 42304

Exsegen Esther
Exsegen Rachel
Exsegen Judith
Exsegen Rebekah
Exsegen Leah
Exsegen Sarah

Pioneer Hi-Bred Intl.

7501 S. Memorial Pkwy, 205
Huntsville, AL 35802

25R35
25R37
25R47
25R54
25R78
26R15
26R58

Royster-Clark, Inc.

717 Robinson Rd. SE
Washington C.H., OH 43160

Vigoro Tribute
Vigoro V9412
Vigoro V9212
Vigoro V9513
Vigoro V9410

Southern States Coop.

PO Box 26234
Richmond, VA 23260

SS 520
SS 8302
SS 550
SS 8309
SS 560
SS EXP 240438
SS MPV-57

Steyer Seeds

6154 N. Co. Rd. 33
Tiffin, OH 44883

Alma
Besecker
Coffman
Merrell
Wiley

Syngenta

PO Box 729
Bay, AR 72411

NK Coker 9312
NK B980416
NK B980582

UniSouth Genetics

2640-C Nolensville Rd.
Nashville, TN 37211

USG 3209
USG 910
USG 3350
USG 3430

University of Missouri

Columbia, MO 65211

Truman

Virginia Tech

PO Box 338
Warsaw, VA 22572

Roane
Van98W-342
Sisson
VA00W-526
McCormick

Table 3. 2005 Kentucky wheat performance, overall summary.*

Variety	Yield (Bu/a)			Test Wt.	Lodging	Height	Heading
	2005	04-05	03-05	(Lb/bu)	(%)	(In)	Date
	2005	04-05	03-05	2005	2005	2005	> April 1
	2005	04-05	03-05	2005	2005	2005	2005
Agripro M00-3701	93.6			58.6	0	34	35
SS MPV-57	93.2	86.5		58.4	0	37	37
USG 3209	92	84.3	81.7	59.5	1	33	35
KY93C-1238-17-5	91.7	85.4		59.9	3	37	37
Pioneer Brand 26R58	91.6	85.7		58.5	0	35	36
KY93C-1238-17-1	91.2	86.2		60.5	0	37	38
Delta King 9577	91			59.1	0	36	36
KY93C-1238-17-2	90.8	84.4		60.2	0	37	38
Steyer Alma	90.4			60	0	35	39
SS 8302	90.3	86.1		60.4	0	36	38
Steyer Merrell	90.3			58.8	0	36	36
SS 550	90.2	83.4	81.7	59.6	0	34	37
EXCEL 211	90			59.4	1	40	34
Agripro Cooper	89.7	86.3		60.2	0	35	39
JGL EXP 501	89.1			60	0	35	38
USG 3350	89	86.2	82.5	59.1	1	39	36
SS 560	88.8	78.4	77.6	58.8	0	34	38
Pioneer Brand 25R47	88.7	86.1	87.3	57.8	0	34	39
EXCEL 307	88.1	85		59.1	0	39	37
Beck 117	87.8			60.6	0	36	34
Exsegen Judith	87.7	83.8		59.3	0	39	39
KY93C-1238-17-4	87.7	81.8		60.5	0	36	38
SS 520	87.5	81.1	79.7	57.6	0	35	31
Pioneer Brand 25R54	87.5	82.6		59.2	0	36	38
Delta King 9410	87.5	85.3		59.2	1	39	37
SS EXP 240438	87.1			61.6	0	32	38
Steyer Wiley	87.1	85.5		60.9	0	36	34
NK B980582	86.9			61.3	0	37	32
Vigoro Tribute	86.9	83.6	82.4	61.5	0	34	37
Pioneer Brand 25R78	86.9	82.3	82.6	59.8	0	34	37
KY97C-0232-2-2	86.8			60.4	0	35	36
Vigoro V9212	86.7	83.7	83.6	59.5	0	39	37
Agripro Benton	86.6	81.4	80.8	59.3	0	35	39
McCormick	86.6	80.7	81.8	61.6	0	34	38
MV5-46	86.6	81.6		59.9	0	34	35
KAS Declaration	86.3	82	82.1	60	0	35	36
Vigoro V9410	86.3	83.5		59.1	0	39	35
Delta King 9650	86.2			58.6	0	36	39
SS 8309	85.9	84.6		59.6	0	37	40
EXCEL 399	85.8			58.9	0	39	38
KY93C-0378-5-2	85.7	81.7		60.6	0	36	39
USG 3430	85.6	84.8	80.3	59	0	39	35
Delta King 7830	85.4	81.9		58.3	3	39	36
Sisson	85.3	79.7	77.9	59.2	0	33	35
KAS Adams	85.3			58.5	0	36	39
VA00W-526	85.1			60.2	0	33	37
Vigoro V9412	84.9	85		60.5	0	36	35
EXCEL 388	84.7			58.7	0	39	37
KY93C-0004-22-1	84.7	81.1		60.9	0	36	39
Delta King 7710	84.6	80.2		59.3	0	39	39
Truman	84.4	80.7		58.7	0	38	44
EXCEL 352tw	84.4			59.5	2	39	38
NK Coker 9312	83.7	79.1		59.3	1	33	34
Exsegen Sarah	83.5	78.9	80.1	58.9	0	38	43
KAS Independence	83.5	79	77.7	59.8	0	35	37
NK B980416	83.3			59.3	4	35	37
Delta King 9216	83.3			59	1	38	37
Delta King 7900	83.1	82.3		59	0	39	37
Pioneer Brand 25R35	82.7			59.7	0	36	41
USG 910	82.6			59.5	0	38	39
Choptank	82.5	76.7		59.3	0	30	35
Exsegen Leah	82.4			58.6	0	33	39
Steyer Besecker	82.4			59.2	0	39	39
Pioneer Brand 26R15	82.4	81.1		59	0	36	37
KY94C-0094-11-2	82.3	77.7		60.4	0	36	40
Pioneer Brand 25R37	82.2	81.2	82.2	60.5	0	34	39
Exsegen Rachel	81.9			59.7	0	35	32
Exsegen Rebekah	81.9	78.1	76.3	59.7	0	36	38
Delta King 1551W	81.9	76.6		59.4	1	35	38
Steyer Coffman	81.7			59.6	0	38	38
Vigoro V9513	81.3			59.1	0	39	39
Van98W-342	80.8			59.6	0	31	34
Exsegen Esther	80	76.8	76.5	58.7	0	35	35
Roane	79.9	78.2	77.4	60.9	0	34	40
EXCEL 333	79.3			59.7	0	37	38
KAS Allen	77.9			59.1	0	33	38
EXCEL 409tw	77.8			61	0	36	40
Triticale	77.4	74.4		52.2	0	44	39
Clark	72.7	71.9	72.4	58.3	0	37	38
AVERAGE	85.6	82	80.2	59.5	0	36	37
C.V.	9	9.8	10.1				
LSD (0.05)	3.6	2.7	2.5				

* Summary of nine tests - four no-till (Calloway, Caldwell, Logan, & Shelby counties) and five conventional (Union, Caldwell, Logan, Todd, & Fayette counties) tests. **Bolded values** in the 2005 yield column indicate no significant difference ($p=0.05$) from the top yielding variety.

Table 4. 2005 Kentucky wheat performance, conventional tillage summary.*

Variety	Yield (Bu/a)			Test Wt.	Lodging	Height	Heading
	2005	04-05	03-05	(Lb/bu)	(%)	(In)	Date
	2005	04-05	03-05	2005	2005	2005	> April 1
	2005	2005	2005	2005	2005	2005	2005
Pioneer Brand 26R58	93.8	90		58.5	0	34	38
SS MPV-57	93.6	90.7		57.9	0	36	39
KY93C-1238-17-5	93.4	89.8		59.6	1	36	38
Agripro M00-3701	93			58.4	0	33	37
Delta King 9577	92.3			58.9	0	35	38
Agripro Cooper	92.1	89.1		60.1	0	34	40
KY93C-1238-17-1	90.7	88.3		60.5	0	36	40
Steyer Alma	90.6			59.8	0	34	40
EXCEL 211	90.1			59.5	0	39	37
USG 3209	89.8	86	82.8	59.2	0	33	38
JGL EXP 501	88.7			59.6	0	34	40
Steyer Merrell	88.6			58.6	0	35	38
USG 3350	88.5	88.7	84.3	58.9	0	38	39
SS 8302	88	88.7		60	0	35	40
NK B980582	88			61.4	0	37	35
Agripro Benton	87.8	84	82.5	58.8	0	34	40
Vigoro V9212	87.8	87.1	85.9	59.3	0	39	38
SS 550	87.5	84.2	82.3	59.3	0	34	39
Pioneer Brand 25R47	87.4	88.4	88.8	57.7	0	33	40
SS 520	87.3	80.6	79.4	57.4	0	34	34
KY93C-1238-17-2	87.2	85.8		59.9	0	36	40
Delta King 9410	87.1	88		59	0	39	39
Truman	86.9	83.8		58.8	0	37	44
KAS Declaration	86.7	84.8	84	59.9	0	34	38
Exsegen Judith	86.6	85.9		59.2	0	39	40
EXCEL 307	86.5	87.6		58.9	0	39	39
Steyer Wiley	86.3	88.9		60.9	0	36	37
Beck 117	86.1			60.4	0	36	37
KY93C-1238-17-4	86.1	82.9		60.2	0	35	40
Pioneer Brand 25R54	86.1	83.8		59.1	0	35	40
KY93C-0378-5-2	85.8	86.3		60.5	0	36	40
Delta King 9650	85.7			58.4	0	35	40
SS EXP 240438	85.4			61.5	0	32	39
Delta King 7710	85.3	82.2		59.2	0	38	40
MV5-46	85.3	83.9		59.5	0	33	37
SS 560	85.1	79.5	78.3	58.5	0	33	40
EXCEL 352tw	85.1			59.3	0	38	39
Pioneer Brand 25R78	84.8	84.6	84.2	59.5	0	34	39
KY93C-0004-22-1	84.5	85.2		60.9	0	36	40
KY97C-0232-2-2	84.4			60.2	0	35	39
KAS Adams	84.1			58.4	0	35	40
Vigoro Tribute	84	84.9	83.3	61.6	0	34	39
SS 8309	83.6	87.7		59.3	0	36	41
USG 3430	83.6	87	81.8	58.9	0	39	38
Pioneer Brand 25R35	83.4			59.3	0	36	41
Vigoro V9410	83.2	84.8		58.9	0	39	37
Delta King 7830	83.2	83.4		58.1	1	38	38
Exsegen Sarah	83.1	81.4	81.8	58.2	0	37	43
Steyer Besecker	83.1			59.1	0	39	40
VA00W-526	83			60.4	0	32	40
KAS Independence	82.9	80.8	78.9	59.5	0	34	39
EXCEL 388	82.8			58.5	0	38	39
McCormick	82.6	80.7	81.7	61.4	0	33	39
NK Coker 9312	82.3	80.9		59	0	32	36
Vigoro V9412	82.2	86.3		60.1	0	35	37
Sisson	82.1	79.6	77.8	58.8	0	32	38
Exsegen Leah	81.3			58.4	0	32	40
Vigoro V9513	81.2			59.1	0	38	40
Delta King 7900	81.1	83.3		58.9	0	39	40
EXCEL 399	81			58.9	0	38	40
Delta King 1551W	80.9	79.1		59.2	0	34	39
Delta King 9216	80.8			58.8	1	38	39
Exsegen Esther	80.5	79.6	78.3	58	0	35	37
Van98W-342	80.5			59.5	0	31	36
NK B980416	80.3			58.9	1	34	39
Exsegen Rebekah	80.1	81.1	78.3	59.3	0	35	39
Choptank	79.9	78		59.3	0	29	38
Pioneer Brand 26R15	79.9	82.9		58.3	0	35	39
Roane	79.5	80.6	78.9	60.8	0	33	41
Pioneer Brand 25R37	79.5	82.4	83	60.4	0	33	40
EXCEL 409tw	79.1			60.9	0	35	41
Exsegen Rachel	78.4			59.2	0	33	34
KY94C-0094-11-2	78.4	77.6		60.2	0	35	42
KAS Allen	77.5			58.8	0	33	39
USG 910	77.4			59.2	0	37	40
Steyer Coffman	76.2			59.1	0	37	40
EXCEL 333	75.9			59.5	0	37	40
Triticale	75.7	74.8		53.2	0	44	41
Clark	71.4	71.9	72.4	57.6	0	37	39
AVERAGE	84.3	84.1	81.4	59.3	0	35	39
C.V.	10.2	10.9	10.9				
LSD (0.05)	5.3	4	3.2				

* Summary of five conventional tillage tests (Union, Caldwell, Logan, Todd, & Fayette counties)

Table 5. 2005 Kentucky wheat performance, no-till summary.*

Variety	Yield (Bu/a)			Test Wt.	Lodging	Height	Heading
	2005	04-05	03-05	(Lb/bu) 2005	(%) 2005	(In) 2005	Date > April 1 2005
KY93C-1238-17-2	95.4	82.6		60.5	0	38	36
USG 3209	94.7	82.2	81.4	59.8	2	34	31
Agripro M00-3701	94.4			58.9	0	36	31
SS 550	93.6	82.4	80.5	59.9	0	35	35
SS 560	93.3	76.9	79.7	59.1	0	35	36
SS 8302	93.3	82.9		60.9	0	38	36
SS MPV-57	92.7	81.3		59	0	37	35
Steyer Merrell	92.5			59.1	0	37	33
KY93C-1238-17-1	91.9	83.5		60.5	0	38	37
McCormick	91.7	80.8	80.1	61.8	0	35	36
EXCEL 399	91.7			58.9	1	40	36
Vigoro Tribute	90.5	82	79.1	61.4	0	34	34
Steyer Alma	90.2			60.3	0	36	38
Vigoro V9410	90.2	81.9		59.4	0	40	31
Pioneer Brand 25R47	90.2	83.2	84.7	57.9	0	35	37
EXCEL 307	90.1	81.9		59.3	0	40	35
EXCEL 211	89.9			59.2	2	40	32
Beck 117	89.8			60.9	0	37	30
KY97C-0232-2-2	89.8			60.5	0	36	33
KY93C-1238-17-4	89.7	80.5		61	0	38	35
USG 3350	89.6	83	82.7	59.4	3	40	33
KY93C-1238-17-5	89.6	79.9		60.2	5	38	35
Delta King 9577	89.5			59.4	0	36	34
JGL EXP 501	89.5			60.4	1	36	37
Sisson	89.4	79.9	77.9	59.6	1	35	32
Pioneer Brand 25R78	89.4	79.4	82.7	60.2	0	35	35
Pioneer Brand 25R54	89.4	81		59.4	0	37	37
SS EXP 240438	89.2			61.6	0	33	36
Exsegen Judith	89.1	81.3		59.5	0	40	37
USG 910	89.1			60	0	39	37
Pioneer Brand 26R58	88.8	80.2		58.6	0	36	34
SS 8309	88.7	80.7		59.9	0	38	38
Steyer Coffman	88.5			60.2	0	39	37
MV5-46	88.3	78.6		60.4	0	35	33
USG 3430	88.2	82.1	81.2	59.2	0	40	32
Vigoro V9412	88.2	83.4		61.1	0	37	31
Steyer Wiley	88.1	81.2		60.8	0	38	30
Delta King 9410	88.1	82		59.4	1	40	35
Delta King 7830	88	80		58.7	5	40	33
VA00W-526	87.9			60	1	33	35
SS 520	87.7	81.6	79.5	58	0	37	29
KY94C-0094-11-2	87.3	77.7		60.6	1	37	38
NK B980416	87.1			59.9	8	36	35
EXCEL 388	87.1			59.1	0	39	35
KAS Adams	86.9			58.7	0	37	37
Agripro Cooper	86.8	82.8		60.4	0	35	37
Delta King 9650	86.7			59	0	37	38
Delta King 9216	86.4			59.3	1	39	34
Exsegen Rachel	86.2			60.2	0	36	30
KAS Declaration	85.9	78.5	79.3	60.1	0	35	34
Choptank	85.8	75		59.4	0	32	30
Delta King 7900	85.7	81.2		59.2	0	40	34
NK B980582	85.6			61.3	1	37	29
Pioneer Brand 25R37	85.6	79.6	81.6	60.7	0	35	37
Pioneer Brand 26R15	85.6	78.8		59.9	0	37	34
KY93C-0378-5-2	85.5	76.1		60.9	0	37	37
NK Coker 9312	85.4	76.9		59.6	3	35	31
Vigoro V9212	85.3	79.5	80.4	59.6	0	39	35
Agripro Benton	85	78.1	78.4	60	0	36	38
KY93C-0004-22-1	84.9	75.9		60.9	0	37	38
Exsegen Rebekah	84.2	74.3	73.5	60.1	0	37	36
KAS Independence	84.2	76.8	74.3	60.1	0	35	36
Exsegen Sarah	83.9	75.7	79	59.7	0	39	42
Exsegen Leah	83.8			58.9	0	34	37
Delta King 7710	83.8	77.6		59.5	0	40	38
EXCEL 333	83.6			60.1	0	38	37
EXCEL 352tw	83.5			59.8	5	39	36
Delta King 1551W	83.2	73.5		59.6	1	36	36
Pioneer Brand 25R35	81.7			60.2	0	37	40
Steyer Besecker	81.5			59.3	0	39	38
Vigoro V9513	81.4			59.2	0	40	37
Van98W-342	81.3			59.7	0	32	31
Truman	81.2	76.9		58.7	0	39	43
Roane	80.3	75.3	75.8	61.1	0	36	38
Triticale	79.6	73.9		51	0	45	36
Exsegen Esther	79.3	73.4	76.8	59.4	0	36	33
KAS Allen	78.5			59.4	0	34	35
EXCEL 409tw	76.2			61	1	37	39
Clark	74.4	71.9	70.8	59.1	0	38	36
AVERAGE	87.1	79.4	79	59.7	1	37	35
C.V.	7.4	8.2	8.3				
LSD (0.05)	4.5	3.3	3.1				

* Summary of four no-till tests (Calloway, Caldwell, Logan, & Shelby counties)

Table 6. 2005 Kentucky wheat performance trials—Purchase Region, no-till.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Lodging (%)	Height (In)	Heading Date > April 1 2005
	2005	04-05	03-05	2005	04-05	03-05	2005	2005	2005
KY93C-1238-17-2	100.4	91.4		60.9	58.5		0	40	32
SS 8302	97.9	93.6		61	59.2		0	39	31
KY93C-1238-17-1	95.8	93.1		60.4	58		1	39	33
EXCEL 211	95.2			59.1			6	40	26
KY93C-1238-17-5	95	94.2		58.9	56.9		0	39	30
Delta King 7830	94.3	89.6		58.6	55.8		1	41	28
Steyer Merrell	94			58.8			0	37	29
SS MPV-57	93.9	91.5		58.5	56.7		0	39	29
McCormick	92.6	87.1	82.5	61.4	58.8	59.4	0	36	33
EXCEL 399	92.5			58.8			0	39	32
Delta King 9577	92.3			59.4			0	37	30
KY93C-1238-17-4	92.1	87.7		60.6	58.9		0	38	31
USG 3209	92	87.9	81.8	60	57.2	57.4	1	36	25
Delta King 9410	91.6	93.1		59.8	57.4		5	41	30
Steyer Wiley	91.5	90.7		61.1	58.5		0	38	25
USG 3430	91.3	89	80.3	58.5	56.8	56.9	1	41	29
Steyer Alma	91.2			60.2			0	38	33
Pioneer Brand 25R47	91.2	90.1	87.6	57.6	55.6	56	0	36	34
EXCEL 307	91.1	92		59.2	56.8		0	41	32
USG 910	90.5			59.6			0	41	32
KAS Adams	90.5			58.6			0	38	34
KY94C-0094-11-2	90.5	84.4		60.3	58.7		0	39	35
Agripro M00-3701	90.4			58			0	37	25
VA00W-526	90.3			59.6			0	34	31
EXCEL 333	90			60			0	39	33
Vigoro V9410	90	89.2		59.1	57.1		0	41	27
KY97C-0232-2-2	89.7			60.6			0	37	29
NK B980416	89.5			59.9			4	38	29
Pioneer Brand 25R78	89.5	84.6	79.5	59.9	57.3	57.5	0	36	32
MV5-46	89.5	86.4		59.9	56.8		0	36	26
KY93C-0004-22-1	89.2	90.3		60.7	58.3		0	38	32
Delta King 7900	88.9	89.4		59.2	57.3		0	41	29
Steyer Coffman	88.8			60.5			0	40	32
USG 3350	88.5	90.8	82.1	59.3	57.5	57.1	0	41	30
EXCEL 388	88.4			59.6			0	41	32
Beck 117	88.2			60.6			0	37	25
SS 550	88.1	83.3	81.2	60.1	57.5	57.2	0	36	30
Exsegen Judith	87.9	89.3		58.7	57.3		0	41	33
Exsegen Sarah	87.8	84.6	78.7	60	57.6	57	0	41	39
SS EXP 240438	87.8			61.7			0	34	31
Delta King 9216	87.8			59.4			0	39	30
KAS Declaration	87.7	83.4	82	60.2	57.3	56.9	0	37	30
Pioneer Brand 26R58	87.7	86.5		58.7	55.2		0	37	29
SS 520	87.5	82.6	81.2	57.2	54.8	55	0	38	24
Vigoro V9513	87.5			59.2			0	42	32
SS 560	87.3	78.4	76.7	59	56.3	56.1	0	35	32
JGL EXP 501	86.8			60.5			0	36	32
Vigoro Tribute	86.6	84.7	80.9	61.8	59.4	59.4	0	35	28
KY93C-0378-5-2	86.4	88.6		60.5	58		0	38	33
NK B980582	86			61.1			0	37	24
Vigoro V9212	85.8	85.3	80.6	59.7	57	56.4	0	41	31
Pioneer Brand 25R37	85.7	87.8	79.8	60.9	58.4	58.1	0	37	34
Agripro Benton	85.3	80.6	76.9	59.3	57.1	56.7	0	36	34
Agripro Cooper	85.2	85.5		60.1	57.5		0	37	33
Sisson	85.1	82.9	79.6	59.2	56.8	57	0	35	25
Exsegen Leah	84.4			58.7			0	35	31
SS 8309	84.1	89.3		59.9	57.9		0	39	35
Exsegen Rebekah	83.2	86.5	78.3	59.9	57.2	57.1	0	38	33
Choptank	82.8	77.9		59.5	56.8		0	32	25
NK Coker 9312	82.8	80.4		58.7	56.8		1	36	25
Vigoro V9412	82.7	86.4		60.7	59.2		0	38	25
Steyer Besecker	82.4			58.7			0	41	34
EXCEL 352tw	82.4			59.5			0	39	33
Delta King 9650	81.3			59.5			0	38	34
Van98W-342	80.4			59.1			0	34	25
Pioneer Brand 25R35	80.4			60.4			0	38	38
Delta King 7710	79.6	85.9		59.2	57.1		0	40	34
Delta King 1551W	78.8	77.7		60.2	57.3		0	37	33
Exsegen Esther	78.5	79.9	77	58.7	55.9	55.8	0	38	30
KAS Independence	78.4	80.8	76.2	60.1	57.3	57.3	0	36	32
Exsegen Rachel	78.3			59.8			0	38	25
Pioneer Brand 25R54	77.9	80.4		59.3	56.8		0	38	35
KAS Allen	77.4			59.8			0	34	30
Truman	76.3	81		57.5	57		0	41	41
Clark	76.1	77.9	71.9	58.6	56.3	55.9	0	39	31
Roane	75.5	78.4	71.3	60.7	58.3	58.5	0	38	35
EXCEL 409tw	73.6			61			0	37	38
Pioneer Brand 26R15	73.2	79.1		59.6	57.3		0	37	32
Triticale	72.6	71.8		50.4	49.6		0	49	33
AVERAGE	86.7	85.8	79.3	59.6	57.2	57.1	0	38	31
C.V.	6.6	7.7	8.8						
LSD (0.05)	7.9	6.5	5.9						

Planting Date: 10/13/04; Harvest Date: 6/18/05; Winter Survival = 100%; Preceding Crop: Corn

* LOCATION: Calloway County; 2005 No-Till, 2003-04 Conventional

Table 7. 2005 Kentucky wheat performance—Western Coal Field Region, no-till.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Height (In)	Heading Date > April 1
	2005	04-05	03-05	2005	04-05	03-05	2005	2005
USG 3209	85.1	84.5	81	60.3	57.4	57.5	34	30
KY93C-1238-17-2	81.2	88.9		59.8	58.1		37	35
Vigoro V9410	80.5	87.5		58.9	56.3		39	29
EXCEL 211	80			58.7			40	28
McCormick	79.1	81.4	80.4	61.6	59.7	59.6	35	35
EXCEL 399	78.4			59.5			39	34
SS 550	77.7	83.3	80.9	60	57.4	57.5	34	34
Vigoro V9412	77.7	88.3		61	58.3		36	28
USG 3350	77.6	87.8	85	59.7	57.2	57.5	40	31
SS 8309	77.1	83.5		60.8	57.6		37	36
Steyer Merrell	77			59.2			36	33
EXCEL 388	77			59.2			38	31
Steyer Coffman	76.9			60.1			38	35
Delta King 9577	76.8			58.6			36	34
EXCEL 307	76.8	85		59.4	56.5		39	33
Agripro M00-3701	76.6			58.3			35	29
SS MPV-57	76.3	83.8		59.2	57.1		34	35
SS 8302	76	85.6		61.1	57.5		37	36
Vigoro Tribute	75.9	85.8	78.1	61.6	60.1	59.8	35	32
Delta King 9410	75.8	85.4		59.7	56.6		39	32
Agripro Benton	75.7	85	83.3	60.1	56.9	57.1	36	36
USG 3430	75.7	87.1	84.8	59.3	56.4	57	38	30
USG 910	75.3			60			36	36
Beck 117	75			61.1			37	28
Delta King 7830	74.9	80		58.6	56.1		40	29
SS 520	74.5	83.2	82.9	57.6	55.6	56.1	37	25
SS 560	74.5	83	84.1	59.2	56.7	56.8	34	35
Exsegen Rachel	74.4			60.2			36	28
Exsegen Judith	74	83.5		60.1	57.6		39	37
Delta King 9650	73.8			58.7			36	36
Pioneer Brand 26R58	73.8	85.1		59.2	58.3		36	33
Delta King 7900	73.4	86.3		59.7	57.2		38	31
NK B980582	73.1			61.8			37	26
Exsegen Esther	72.6	80.3	80.6	59.1	56.1	56.7	37	30
Pioneer Brand 25R54	72.6	81.4		59.3	56.6		36	35
Steyer Alma	72.2			60.3			35	36
Agripro Cooper	72.1	86.1		61.4	58.2		35	36
SS EXP 240438	72			61.1			32	36
KAS Independence	71.9	80.5	75.3	61	57.4	57.9	36	35
MV5-46	71.6	78.1		59.9	58.2		35	31
Delta King 1551W	71.5	77.9		59.9	56.1		36	34
JGL EXP 501	71.3			60.7			35	35
Steyer Wiley	71.1	81.6		60.6	58.9		36	29
KY93C-1238-17-5	71.1	79.1		59.7	57.9		36	34
Exsegen Rebekah	70.9	78.9	75.2	60.6	57.1	57.6	38	36
KY93C-1238-17-1	70.9	84.1		60.5	58.7		37	36
Vigoro V9212	70.8	83.2	81.2	59.5	58	57.3	38	33
Sisson	70.7	79.8	77.5	60.1	57.6	57.5	35	30
Pioneer Brand 25R78	70.6	84.6	84.8	59.3	56.4	56.6	34	32
KAS Adams	69.7			59.1			37	35
EXCEL 333	69.7			59.8			36	35
Delta King 9216	69.6			59.9			39	31
VA00W-526	69.5			61.1			33	34
EXCEL 352tw	69.4			59.5			39	34
Pioneer Brand 26R15	68.6	81.1		59.8	56.7		36	35
KAS Declaration	68.3	80.5	79.7	60.6	56.7	57.3	36	32
KY93C-1238-17-4	68.3	80.9		60.4	58.3		37	35
Pioneer Brand 25R47	68.2	84.6	83.3	58.7	55.6	56.2	34	36
Truman	68	79.3		60.5	57.8		36	41
NK B980416	67.9			60			34	32
KY93C-0378-5-2	67.8	78.9		60.9	58.2		36	37
Triticale	67.7	69.1		53.9	51.2		41	35
KAS Allen	66.9			60			34	34
Choptank	66.8	75.9		60.1	57.5		30	28
NK Coker 9312	66.5	73.4		60.3	57.3		34	30
Pioneer Brand 25R37	66.4	79.1	79.8	60.7	58.5	58.7	32	36
Delta King 7710	66.2	78.4		60	57.1		39	37
Exsegen Leah	65.9			59			33	36
Pioneer Brand 25R35	65.8			61.2			36	39
Exsegen Sarah	65.4	74.3	77.3	60.8	57.9	57.9	38	40
KY94C-0094-11-2	65.2	73.1		60.8	58		37	36
Roane	64.8	77.1	76.6	62.2	59.5	60.1	34	37
Steyer Besecker	63.2			59.9			37	36
KY97C-0232-2-2	63.2			61.2			36	34
Van98W-342	62.7			59.5			31	30
Vigoro V9513	62.5			59.7			39	37
Clark	62.3	76	74.2	59.9	56.8	57.6	36	35
KY93C-0004-22-1	61.1	77.7		61.6	59		37	37
EXCEL 409tw	59.1			61.7			35	38
AVERAGE	71.6	81.7	80.3	60	57.3	57.6	36	34
C.V.	9.2	7.5	7.4					
LSD (0.05)	9.2	5.8	4.7					

Planting Date: 10/16/04; Harvest Date: 6/20/05; Winter Survival = 100%; Lodging = 0%; Preceding Crop: Corn
 * LOCATION: Caldwell County

Table 8. 2005 Kentucky wheat performance—Western Coal Field Region, conventional.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Height	Heading
	2005	04-05	03-05	2005	04-05	03-05	(In)	Date
							2005	> April 1
								2005
Pioneer Brand 26R58	82.5	83.9		56.4	54.4		33	35
Vigoro V9410	80.6	77.7		58.6	56		40	34
Agripro Benton	79.4	74.7	72.7	58.6	55.9	57	35	38
SS 560	79	76.8	74.3	58.6	55.8	56.6	33	36
Pioneer Brand 25R54	79	75.9		57.8	55.2		36	35
Agripro M00-3701	77.6			58			32	34
Vigoro V9412	77.4	77.9		59.5	57.3		36	33
Pioneer Brand 25R78	76.9	82.5	79.7	58.8	56.2	57.6	35	35
Pioneer Brand 26R15	76.8	80		58.6	54.8		36	35
SS 8302	76.5	77.5		59.2	55.6		35	38
SS MPV-57	75.8	80.7		58	55.2		36	35
USG 3350	75.6	77.9	76.7	58.6	56.5	57.3	39	36
Delta King 1551W	75.3	73.1		59.1	55.5		34	37
SS 8309	75.1	77.1		58.8	57.3		38	39
Delta King 9650	75			58.5			36	38
NK B980582	74.6			60.4			36	29
Delta King 9577	74.5			58			35	35
USG 3430	73.6	79.6	77	58.5	55.8	56.6	39	36
EXCEL 352tw	73.6			58.5			40	38
SS 520	73.5	75.4	76.5	56.5	54.7	55.6	34	28
EXCEL 211	73.3			58.4			39	33
USG 3209	73.1	78.1	77.2	59.5	55.8	57	32	33
Pioneer Brand 25R47	73.1	75.5	76.7	58.8	54.9	56.1	33	37
NK Coker 9312	73	72		58.8	55.5		32	30
Steyer Wiley	72.8	75.6		60.4	58.3		35	31
KY93C-1238-17-2	72.8	75.5		58.8	56.9		36	38
SS EXP 240438	72.5			60.9			32	36
EXCEL 399	72.4			59.7			38	38
Delta King 7900	72.4	73.1		58.3	55.2		39	37
EXCEL 388	71.8			58.2			39	37
KAS Adams	71.5			57.2			36	38
Agripro Cooper	71.3	72.1		59.2	55.4		34	38
McCormick	70.8	75	75.6	61.2	58.4	59.5	34	38
KY93C-1238-17-1	70.6	78.5		60.3	58		36	38
SS 550	70.3	74	75.7	59.2	56.3	57.3	34	37
Exsegen Rachel	70.2			58.5			34	29
EXCEL 307	70	75.9		58.8	56.8		39	37
Truman	69.9	69.9		58.8	56.4		37	43
Steyer Alma	69.8			59.7			34	38
KY93C-1238-17-5	69.7	76.3		58.4	56.2		36	36
Pioneer Brand 25R37	69.7	73.2	74.6	59.9	57.1	58.2	33	38
KAS Declaration	69.6	69.9	70.4	60.4	56.5	57.6	33	35
Beck 117	69.6			59			35	32
MV5-46	69.5	72		57.8	56.2		32	32
KY93C-1238-17-4	69.4	71.7		60.3	57.8		36	38
Delta King 9410	69.3	75.5		59.1	55.8		39	37
JGL EXP 501	68.7			59.6			34	37
Exsegen Leah	68.5			58.2			32	38
Delta King 7710	68.5	71.8		58.3	55.9		39	38
Vigoro V9513	68.4			58.9			39	38
USG 910	68.3			58.7			38	38
Exsegen Rebekah	68.2	70.6	69.8	59.7	56.3	57.3	36	37
Delta King 7830	68.2	74.7		57.6	55		39	36
NK B980416	67.5			59			34	37
Steyer Besecker	67.2			58.2			39	38
Vigoro Tribute	67	74.5	74.3	60.4	58.8	59.7	34	37
Vigoro V9212	67	73.3	73.7	58.5	56.4	56.9	39	37
Choptank	66.6	77.8		59.2	57.6		29	34
Exsegen Judith	66.5	72.1		58.5	56.6		39	38
Triticale	66	68		54	50.3		43	37
KY94C-0094-11-2	66	67.7		60.7	58.1		35	40
Van98W-342	65.9			59.4			30	34
Exsegen Esther	65	70.6	70.7	57.4	54.9	55.4	35	35
Sisson	65	68.9	68.9	58.7	55.6	57	32	35
Delta King 9216	65			58.8			38	37
KY93C-0378-5-2	64.6	68.5		58.8	56.4		35	38
Steyer Merrell	64.2			57			33	36
Exsegen Sarah	64	71	73.1	57.8	55.3	56.9	38	42
VA00W-526	63.8			61			32	36
KAS Independence	63.6	68.1	67.7	59.5	55.7	56.8	34	36
KY97C-0232-2-2	63.2			59.5			34	35
Pioneer Brand 25R35	63			59.7			36	39
KY93C-0004-22-1	63	68.9		60.5	57.2		35	38
Steyer Coffman	62.7			58.7			37	38
KAS Allen	62.5			58.9			33	37
EXCEL 409tw	62.2			60.5			35	39
EXCEL 333	61.2			59			38	38
Clark	60.9	62.2	63.5	56.1	54	55.7	36	37
Roane	60.1	67.5	67.3	60.9	58.9	60	33	39
AVERAGE	70	73.9	73.1	58.9	56.1	57.2	36	36
C.V.	9.9	10.6	10.1					
LSD (0.05)	9.7	7.6	5.9					

Planting Date: 11/2/04; Harvest Date: 6/21/05; Winter Survival = 100%; Lodging = 0%; Preceding Crop: Corn
 * LOCATION: Caldwell County

Table 9. 2005 Kentucky wheat performance—Ohio Valley Region, conventional.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Height (In)	Heading Date > April 1
	2005	04-05	03-05	2005	04-05	03-05	2005	2005
Delta King 9577	104.5			61.2			33	37
Exsegen Sarah	101.1	88	83.8	60.9	59.1	57.9	37	41
EXCEL 211	100.2			60.9			37	32
Agripro Cooper	99.1	98.2		61.9	60.3		33	38
SS 550	97.7	93.1	86.6	60.1	58.7	58	33	37
Delta King 9650	96.5			60.4			34	38
Vigoro V9212	95.5	91.7	89.5	60	58.7	58.5	38	36
Truman	94.9	88.2		60	59.5		37	42
SS 8302	94.7	97.4		60.2	59.8		35	38
Delta King 9410	94.5	94.6		60.6	60		37	37
Steyer Alma	94.3			61.6			33	38
Pioneer Brand 26R58	94.3	93.4		60.2	58.4		32	36
USG 3350	94	91.2	87.1	60.2	58.9	58.6	37	37
Delta King 7830	93.7	94.7		60.6	59.4		36	36
Sisson	93.6	82.4	76.6	60.9	60.1	58.9	31	33
VA00W-526	93.1			61.6			32	37
JGL EXP 501	92.9			61			33	38
Choptank	92.8	83.4		60.9	58.9		29	33
SS MPV-57	92.6	92.8		59	58.5		34	37
Pioneer Brand 25R78	92.6	93.5	88.7	60.3	59.4	60.1	33	34
Exsegen Judith	92.5	89.9		60.1	59.4		38	38
Vigoro V9410	92.1	95.9		59.8	59.2		37	35
Vigoro Tribute	92	93.1	89.8	62.3	61.2	61.6	33	37
Steyer Merrell	91.7			60.9			33	37
Pioneer Brand 25R54	91.7	89.9		59.7	58.4		34	38
Agripro Benton	91.4	86	84.1	61.1	59.6	59.4	33	38
USG 3209	91.2	90.5	84.7	61.9	59.8	58.6	31	36
KY93C-1238-17-2	91.1	94		60.8	60.4		34	38
SS 560	90.5	87.1	81.4	60.7	59.4	58.5	32	37
Agripro M00-3701	90.4			59.7			32	33
SS 8309	90	87.2		60.4	60.4		36	38
SS 520	89.9	81.7	79.9	58.8	58.4	58.6	34	28
Beck 117	89.1			62.1			33	31
EXCEL 399	89			60.4			37	38
NK B980416	88.1			60.4			33	36
KY93C-1238-17-5	88.1	90.3		60.4	59.9		34	36
MV5-46	88	88.3		60	59.7		31	33
USG 3430	87.2	92.3	89.6	59.8	59	58.4	37	36
Vigoro V9412	86.8	89.9		61.2	60.2		34	34
NK B980582	86			62			35	30
Pioneer Brand 25R47	85.9	94.8	95	59.7	57.4	57.9	32	38
Steyer Besecker	85.7			59.5			37	38
Delta King 9216	85.6			61			37	37
KY97C-0232-2-2	85.6			61.6			33	37
EXCEL 307	85.5	90.1		60.4	59.7		36	37
Delta King 7900	85.5	87.6		61.2	60.5		38	37
KY93C-0004-22-1	85.3	88.2		61.8	59.9		35	38
Pioneer Brand 25R37	85.1	88.1	86	61.6	60	60.3	31	38
Delta King 7710	85	89.9		60	59.5		37	39
KY93C-1238-17-1	84.6	86.4		61	60		34	39
KY93C-1238-17-4	84.5	85.6		61.1	60.2		35	38
NK Coker 9312	84.1	84.8		60.2	59.7		30	32
EXCEL 388	84.1			60			37	36
Vigoro V9513	83.7			59.9			37	38
Pioneer Brand 25R35	83.4			61.2			35	40
KAS Independence	83.4	85.9	80.8	61.5	59.9	59.1	33	36
Exsegen Leah	83.2			58.9			31	38
Roane	83.2	81.1	79	60	60.1	60.3	33	38
Exsegen Rachel	82.9			59.9			32	28
KAS Declaration	82.9	87.7	85.2	61.8	59.9	59.5	31	36
Triticale	82.6	84.9		55.3	53.1		42	38
Steyer Wiley	82.6	89.2		61.7	61.3		32	34
Delta King 1551W	82.4	86.8		61.3	59.6		33	37
Exsegen Esther	82.1	80.6	77.8	59.7	58.5	58.1	33	31
USG 910	81.8			60.4			37	38
SS EXP 240438	81.4			62.7			30	37
KAS Adams	81.3			60.9			33	37
Pioneer Brand 26R15	80.2	86.1		60.9	59.5		33	38
McCormick	80.1	85	83.5	61.6	60.8	60.7	31	37
Exsegen Rebekah	79.9	82.2	76.8	60	59.2	58.7	35	36
Steyer Coffman	79.9			60.1			36	38
KAS Allen	79.7			60.2			31	37
KY93C-0378-5-2	79.1	91.1		61.8	60.4		33	38
Clark	78.7	69.4	70.9	59	58	58.3	36	36
EXCEL 409tw	76.5			62.3			34	40
KY94C-0094-11-2	76.4	82.1		60.9	60.1		32	40
EXCEL 352tw	75.3			60			36	38
Van98W-342	73.5			60.3			29	32
EXCEL 333	72.7			60.4			34	38
AVERAGE	87.4	88.6	83.7	60.6	59.4	59.1	34	36
C.V.	10	10.4	9.9					
LSD (0.05)	12.2	9	6.9					

Planting Date: 10/22/04; Harvest Date: 6/21/05; Winter Survival = 100%; Lodging = 0%; Preceding Crop: Corn
* LOCATION: Union County

Table 10. 2005 Kentucky wheat performance—Bluegrass Region, conventional.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Survival	Lodging	Height	Heading
	2005	04-05	03-05	2005	04-05	03-05	(%)	(%)	(In)	Date
	2005	2005	2005	2005	2005	2005	2005	2005	2005	> April 1
KY93C-1238-17-1	93.4	82.8		59	55.5		89	0	33	44
KY93C-1238-17-5	92.6	82		57.8	55.2		80	3	33	43
Steyer Besecker	92			57.7			95	0	36	46
Steyer Wiley	90.4	89.1		58.8	57.3		84	0	32	44
EXCEL 352tw	88.7			56.4			83	0	34	44
KY93C-0378-5-2	87	85.7		58.8	55.5		88	0	32	46
Steyer Alma	86.8			56			95	0	31	45
Van98W-342	86.5			58.6			85	0	29	44
KY93C-1238-17-2	85.5	81.2		57.1	54.3		83	0	33	46
KY93C-0004-22-1	85.2	81		58.8	55.5		86	0	32	46
EXCEL 307	84.5	86.1		55.5	54.4		90	0	36	45
Steyer Merrell	83.8			54.1			75	1	32	44
Truman	83.3	84.1		56.4	55.3		90	0	34	51
KAS Independence	83.2	74.9	77.5	54.9	53.3	54.7	75	0	30	44
EXCEL 409tw	82.6			58.1			83	0	32	47
SS 8302	82.1	84.1		58.3	54.8		78	0	31	47
Agripro Cooper	82.1	87.5		56.3	54.4		80	0	30	46
Exsegen Judith	81.9	81.8		56.5	54.3		80	0	34	47
NK B980582	81.3			59			80	0	33	45
McCormick	81.3	78.8	83	59.3	56.4	57.5	80	0	29	45
KAS Declaration	81.2	79.5	83	55.4	52.9	54.1	83	0	30	45
SS MPV-57	80.8	78		54.2	51.1		78	0	32	47
Exsegen Esther	80.7	80.1	81	55.8	52.9	53.9	80	0	31	44
EXCEL 333	78			55.5			80	0	34	46
KY97C-0232-2-2	78			56.7			86	0	31	46
Vigoro V9212	77.9	79.9	85.8	57.9	55.2	56.2	83	0	35	44
KAS Adams	77.9			53.8			83	0	31	46
KY93C-1238-17-4	77.5	76		56	54.3		73	1	31	46
SS 550	77.1	77.4	81.8	56.4	53.1	54.8	78	0	29	47
EXCEL 211	77.1			57.5			85	0	37	44
Delta King 9410	77.1	79.3		53.9	51.8		75	0	36	46
USG 3350	76.5	77.7	80.4	55.4	53.9	54.3	78	0	35	45
Delta King 9216	76.5			54.5			78	3	34	46
Pioneer Brand 25R47	76.5	82.1	87.5	52.2	51.1	53.2	75	0	30	46
SS 8309	76.4	84		56.2	54.1		70	0	32	47
Pioneer Brand 26R58	76.2	68.1		56.3	52.6		75	0	30	45
Agripro Benton	76.1	82	84	53.7	53.2	54.7	80	0	30	47
Delta King 9577	76.1			53.5			75	0	32	45
Pioneer Brand 25R35	75.9			56.2			80	0	30	47
Beck 117	75.9			56.9			78	0	32	46
Agripro M00-3701	75.8			55.1			78	0	30	45
KAS Allegiance	75.5	72.7	79.2	55.2	52.5	54.5	80	0	37	47
Delta King 7710	75.5	75.2		56.9	54.9		79	0	34	47
Exsegen Rebekah	74.8	73.5	78.3	56.1	53.4	54.8	75	0	30	45
Roane	74.5	79.4	83.3	58.5	56.1	56.8	84	0	29	47
Steyer Coffman	74.5			54.1			73	0	33	46
Vigoro V9513	74.4			56.4			83	0	34	47
KY94C-0094-11-2	74	75.8		56.2	54.9		80	0	32	47
JGL EXP 501	73.8			54.2			75	0	30	46
MV5-46	73.7	72.8		57.8	54.5		58	0	30	45
SS 520	71.4	70.1	75.9	54.5	51.9	54	65	0	31	43
Vigoro Tribute	71.4	77.4	81.1	59.8	56.7	56.9	70	0	28	45
Exsegen Leah	71.2			53.9			73	0	28	48
KAS Allen	70.9			54.7			80	0	29	46
EXCEL 399	70.4			54.2			78	0	35	46
SS EXP 240438	70.3			58.9			73	0	27	47
Delta King 9650	70.2			52.9			85	0	30	46
EXCEL 388	69.6			52.1			68	0	34	46
Exsegen Sarah	69.4	70	76	54	51.6	51.5	65	0	33	51
Pioneer Brand 25R54	69.2	79.6		56.1	54		78	0	30	47
USG 3430	68.9	77.1	79.2	55.2	53.9	54.4	75	0	35	44
SS 560	68.5	68.8	75	55.2	51.2	52.9	70	0	28	48
VA00W-526	68.3			57.2			65	0	28	48
USG 3209	67.3	71.7	76.7	53.4	51.8	52.5	63	0	29	46
Delta King 7900	67.2	77.2		54.1	52.6		73	0	34	46
Vigoro V9412	67.1	75.2		57.9	57		70	0	30	46
Vigoro V9410	66.6	76.7		54.8	54.2		75	0	36	44
Sisson	65.2	71.8	79.6	56.1	52.5	54	65	0	28	46
USG 910	65			55.9			68	0	33	46
Exsegen Rachel	63.6			58			58	0	28	44
NK B980416	63.6			55			70	5	29	47
Delta King 1551W	63.5	64.5		55.1	52.3		78	0	30	47
Triticale	62.5	64.3		51.6	47.7		73	0	40	48
Pioneer Brand 25R37	61.7	66.9	76.9	58.1	54.6	57.4	65	0	28	47
Pioneer Brand 26R15	61.5	73.6		52.5	51.9		65	0	31	46
NK Coker 9312	61.4	69.2		55.4	53.3		68	0	28	46
Choptank	61.2	65.6		56.3	53.1		60	0	25	46
Clark	59.7	66.9	72.3	54.1	52.3	54.3	63	0	32	45
Delta King 7830	59.4	68.4		51.7	51.8		65	5	33	46
Pioneer Brand 25R78	59	69.4	79.4	57.2	54.4	55	73	0	28	46
AVERAGE	74.9	76.6	79.9	55.9	53.7	54.7	76	0	32	46
C.V.	9.5	11.5	10.7							
LSD (0.05)	9.9	8.6	6.7							

Planting Date: 11/8/04; Harvest Date: 6/29/05; Preceding Crop: Corn
 * LOCATION: Fayette County

Table 11. 2005 Kentucky wheat performance—Southern Tier Region, no-till.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Lodging (%)	Height (In)	Heading Date > April 1 2005
	2005	04-05	03-05	2005	04-05	03-05	2005	2005	2005
Steyer Alma	103.3			60.6			0	37	35
SS 560	102.4	77.3	79.6	59.3	56	56.4	0	37	31
Steyer Merrell	102.4			59.2			0	38	27
Pioneer Brand 25R54	101.5	84.4		58.7	57.7		0	39	31
SS 550	100.3	80.4	79.4	60.1	56.6	57.1	0	36	30
KY97C-0232-2-2	100.3			59.3			0	38	25
Agripro M00-3701	100.2			58.6			0	37	27
Pioneer Brand 26R15	99.1	80.4		59.7	56.3		0	39	27
KY93C-0004-22-1	98.8	76.5		59.9	56.7		0	38	36
Pioneer Brand 25R78	98.8	75.1	81.2	60.4	56.6	57.6	0	37	31
VA00W-526	98.7			59.4			3	34	27
USG 3209	98.4	77.9	80.4	59.7	56.1	56.7	8	34	25
Vigoro Tribute	97.6	79.9	81.3	61.9	58.6	59.4	0	34	32
KY93C-1238-17-5	97.6	83.3		60.1	57		21	41	31
Pioneer Brand 25R47	97.6	75.8	82.2	57	54.4	55.5	0	36	32
Agripro Cooper	97.5	80.6		58.7	56.6		0	37	34
Choptank	97.2	72.6		58.2	55.6		0	34	23
SS EXP 240438	96.9			61			0	34	31
KY93C-1238-17-2	96.9	71.8		60.7	56.9		0	39	33
Sisson	96.7	82.1	79.7	58.2	55.8	56.9	3	35	27
KY94C-0094-11-2	96.5	81.1		59.9	56.7		4	39	35
KY93C-1238-17-4	96.1	72.8		60.6	57.5		0	40	32
SS 8309	95.7	82.9		60.9	58.3		0	39	35
EXCEL 307	95.7	86.8		59	57.1		0	41	31
KY93C-1238-17-1	95.7	77.5		60.4	57.1		0	39	34
Beck 117	95.6			60.1			0	39	26
USG 3430	95.3	88.4	85.3	58.6	56.9	57.3	0	41	27
USG 3350	95.2	83.7	84.1	59.1	56.4	56.9	10	41	27
Exsegen Rachel	94.4			59.5			0	37	25
McCormick	94	77.9	78.3	61.7	58.3	59.2	0	36	33
EXCEL 399	94			58.8			0	40	34
NK B980416	93.3			59.5			24	39	32
SS 8302	93.2	77.1		60.5	57.4		0	38	31
NK Coker 9312	93.2	79.2		58.8	56.5		10	36	26
SS MPV-57	93.1	77.2		58.9	56		0	40	31
Steyer Wiley	92.8	86.7		59.4	57.4		0	39	25
JGL EXP 501	92.8			60.1			4	36	34
Vigoro V9412	92.7	86		60.8	58.4		1	38	27
Delta King 9650	92.7			58.8			0	38	34
Steyer Coffman	92.6			59.9			0	41	34
Pioneer Brand 26R58	92.6	75.8		57.1	54.5		0	37	28
Triticale	92.5	82.4		53	50.8		0	47	31
KAS Independence	91.8	76.9	75.9	60	56.9	57.5	0	36	34
MV5-46	91.8	75.4		59.7	57.5		0	35	29
Delta King 9216	91.7			59			0	40	29
Delta King 9577	91.2			59.4			0	37	29
Delta King 1551W	90.8	73.4		58.5	54.9		5	38	29
Agripro Benton	90.7	80.1	79.5	60.6	57.5	57.6	0	37	35
Vigoro V9410	90.7	84.7		58.9	56.6		0	41	26
USG 910	90.3			60.5			0	41	35
Pioneer Brand 25R37	90.1	79.4	82.9	60.8	58.4	59.1	0	38	33
Delta King 9410	89.9	85		59.2	56.3		0	40	33
KAS Adams	89.8			58.7			0	38	34
SS 520	89.3	77.6	74.4	56.8	54.8	55.2	0	38	23
EXCEL 211	89.2			58.1			0	40	30
Delta King 7830	88.9	83.1		58.1	56.1		18	41	30
Exsegen Judith	88.4	81.9		59.4	57.3		0	42	34
KAS Declaration	88.4	74	77.3	59.9	55.9	56.8	0	36	27
Vigoro V9212	88	80.3	82.7	59.7	57.1	57.6	0	41	32
EXCEL 352tw	87.9			59.1			1	40	34
KY93C-0378-5-2	87.9	68.5		60	56.7		0	38	34
Delta King 7900	87.9	82.4		59.1	56.7		0	41	31
Exsegen Leah	87.2			58.6			0	35	33
EXCEL 388	86.9			58.6			0	40	32
Exsegen Sarah	85.6	75.1	79.4	58.1	56.9	58	0	40	39
Truman	84.9	81.5		58.9	57.3		0	42	41
NK B980582	84.9			60.1			3	37	23
Exsegen Rebekah	84.1	70.9	72.7	59.7	57.2	57.6	0	38	34
Van98W-342	84			58.1			0	33	25
Exsegen Esther	83.3	67.5	73.7	58.5	54.8	55.1	0	37	30
Delta King 7710	83.3	79.2		59.5	56.9		0	40	36
Pioneer Brand 25R35	82.2			58.4			0	40	38
Roane	81.5	74.1	75.4	61.3	58.5	59.2	0	36	36
EXCEL 409tw	80.3			60.3			3	39	35
Steyer Besecker	80			59.2			0	40	37
EXCEL 333	78.5			59.1			0	39	35
KAS Allen	77.6			58.2			0	34	33
Clark	77.2	74	71.5	58	56.2	56.7	0	40	33
Vigoro V9513	76			58.8			0	41	34
AVERAGE	91.7	78.9	78.9	59.3	56.6	57.3	1	38	31
C.V.	7.9	7.8	7.5						
LSD (0.05)	10	6.2	4.9						

Planting Date: 10/11/04; Harvest Date: 6/17/05; Winter Survival = 100%; Preceding Crop: Corn

* LOCATION: Logan County

Table 12. 2005 Kentucky wheat performance—Southern Tier Region (Todd county), conventional.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Height (In)	Heading Date > April 1
	2005	04-05	03-05	2005	04-05	03-05	2005	2005
Agripro M00-3701	123.7			59.9			37	37
USG 3209	122	89.6	88.3	60.7	56.6		35	37
KY93C-1238-17-5	120.1	94.6		61.4	57.7	57.1	39	38
Pioneer Brand 26R58	118.1	88.6		61.3	56.6		37	38
Agripro Cooper	116.6	90.1		62.8	58.7		38	38
SS MPV-57	116.3	88.8		59.2	56.1		40	38
SS EXP 240438	113.4			63.1			34	38
Pioneer Brand 25R78	112.8	82.1	85.9	61.4	57.1	57.9	37	39
Vigoro V9212	111.7	92.1	90.6	61.7	58.1	58.2	41	38
Pioneer Brand 25R35	110.7			60.3			39	40
JGL EXP 501	110.5			62.2			37	38
KY93C-1238-17-4	110.2	79.9		62.5	58.4		38	39
KY93C-0378-5-2	109.2	79.1		61.8	57.6		39	39
NK Coker 9312	108.2	86.7		61.5	57.9		35	36
Delta King 9577	108.1			61.8			40	38
SS 520	107.8	86.9	80.6	60	56.4	56.3	38	35
SS 550	107.7	84.1	81.9	62.5	57.8	57.9	36	39
Steyer Alma	107.3			61.6			37	39
EXCEL 211	107.3			60.5			42	37
KY93C-1238-17-1	107.1	83.2		61.2	57.5		38	39
KAS Declaration	106.7	83.2	83.4	61.6	56.8	57.4	38	37
NK B980582	106.4			63.5			41	37
Steyer Merrell	106.2			61.4			38	38
MV5-46	105.9	82.4		61.4	58.3		35	37
Beck 117	105.4			62			40	38
Sisson	105	86.2	82.4	60.4	56.9	57.6	35	38
Delta King 7710	103.8	89.4		61.4	57.8		42	39
KAS Allen	103.7			61.6			37	38
KY97C-0232-2-2	103.3			62.1			39	39
VA00W-526	102.8			61.7			35	39
Delta King 7830	102.7	90		61.1	57.6		41	37
Delta King 9410	102.6	91.4		61.1	57.3		42	39
Pioneer Brand 25R47	102.4	78.3	83.8	59.8	55.8	56.4	36	39
KY93C-0004-22-1	101	77.6		62.3	57.9		39	40
USG 3350	100.9	86.5	86	60.7	57.2	57.5	41	38
KAS Independence	100.8	81.4	78.9	61.3	57.5	57.9	36	38
Steyer Wiley	100.6	90.6		62.2	58.8		40	38
EXCEL 307	100.5	89.2		60.2	57.7		42	38
Delta King 9650	100.4			61.2			38	39
Vigoro Tribute	100.2	81.2	82.1	63.5	59.4	59.9	37	38
Pioneer Brand 25R54	99.9	83.6		61.9	59.3		37	40
Exsegen Judith	98.6	87		60.8	58		42	39
SS 8302	98.3	79.6		61.6	58		38	39
EXCEL 388	97.7			62.6			41	38
Delta King 9216	97.3			60			40	38
Exsegen Esther	97.2	74.4	78.3	60	55.5	55.6	38	37
KAS Adams	97.2			61.1			38	38
Agripro Benton	97	83.2	81.6	60	57.2	57.4	37	39
KY93C-1238-17-2	96.7	71.7		61.8	57.4		37	40
Choptank	96.3	72.1		61.5	57.2		31	37
Pioneer Brand 26R15	96.2	78.9		60.5	56.7		38	38
Delta King 1551W	95.9	75.9		60.1	55.7		38	39
NK B980416	95.7			61.1			38	38
Vigoro V9412	95.5	87.4		61	58.5		38	38
Exsegen Rebekah	95.2	76.5	76.4	61.2	58	58.1	39	39
Exsegen Sarah	95.2	79.9	82.6	59.2	57.4	58.4	40	42
Delta King 7900	95.2	86		60.6	57.5		42	38
Truman	95.1	86.6		59.6	57.7		40	43
SS 560	94.4	73.4	76.9	60.2	56.4	56.7	35	39
USG 910	94			60.9			41	39
Exsegen Leah	93.8			60			35	39
Van98W-342	93.7			60.7			32	36
Roane	93.4	80	79.4	62.7	59.2	59.7	36	40
McCormick	93.3	77.6	78.1	62.7	58.8	59.5	35	39
Vigoro V9410	93.1	85.9		61.2	57.8		41	37
Pioneer Brand 25R37	92.9	80.7	83.8	61.7	58.8	59.4	36	40
EXCEL 352tw	91.6			61.6			41	38
SS 8309	91.3	80.7		61	58.3		39	40
KY94C-0094-11-2	90.7	78.2		62.1	57.8		38	41
Exsegen Rachel	90.2			60.5			36	35
EXCEL 409tw	90.2			62.1			38	41
USG 3430	89.4	85.5	83.3	60.7	57.9	58	41	38
Steyer Coffman	88.2			61.7			40	39
Steyer Besecker	87.3			60.5			41	39
Triticale	86	79.2		52.8	50.7		46	40
EXCEL 399	85.8			60.4			40	39
Vigoro V9513	85.5			60.6			40	39
Clark	85.4	78.1	74.2	60.4	57.4	57.5	40	38
EXCEL 333	81.1			62.1			39	38
AVERAGE	100.5	83.3	81.8	61.1	57.4	57.8	38	38
C.V.	11.8	10.6	9.5					
LSD (0.05)	16.5	9	6.5					

Planting Date: 11/7/04; Harvest Date: 6/22/05; Winter Survival = 100%; Lodging = 0%; Preceding Crop: Corn
 * LOCATION: 2005 Todd County Conventional, 2003-04 Logan County No-Till.

Table 13. 2005 Kentucky wheat performance—Southern Tier Region (Logan county), conventional.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Height (In)	Heading Date > April 1 2005
	2005	04-05	03-05	2005	04-05	03-05	2005	
SS MPV-57	102.7	99.4		59	57.1		40	39
Pioneer Brand 25R47	99.2	93.8	93.4	58.1	55.6	54.2	35	39
USG 3430	98.8	98.1	83.4	60.2	57.3	52.9	41	37
Delta King 9577	98.4			60			38	37
KY93C-1238-17-1	98	94.8		60.9	58.5		40	39
Pioneer Brand 26R58	97.9	103.1		58.2	56.1		37	36
Agripro M00-3701	97.8			59.5			36	38
JGL EXP 501	97.4			61.2			37	39
Steyer Merrell	97.1			59.5			39	37
EXCEL 352tw	96.5			60.1			41	39
KY93C-1238-17-5	96.3	93.9		60.1	57.7		39	38
USG 3209	95.4	86.9	83.8	60.4	56.7	54	36	38
USG 3350	95.4	100	90.8	59.7	57.6	55.2	41	39
Agripro Benton	95.1	90.9	91.1	60.4	57	55.7	37	40
Steyer Alma	94.7			60.1			37	39
Vigoro V9513	93.9			59.5			41	39
SS 520	93.8	83.2	77.1	57	53.7	53	36	34
Exsegen Judith	93.6	91		60	57.3		41	40
Delta King 7710	93.6	76.2		59.5	57.9		41	39
SS 560	93.3	82.9	82	57.8	55.8	55.1	35	39
KAS Declaration	93.1	94	93	60.5	58.3	56	38	38
KAS Adams	92.8			58.8			39	39
EXCEL 211	92.7			60.2			42	37
Delta King 7830	92.1	85.1		59.5	57.2		41	38
EXCEL 307	92	88.9		59.7	57.8		41	39
NK B980582	91.9			62			41	35
KY97C-0232-2-2	91.9			61.3			38	38
Delta King 9410	91.9	91.8		60.2	56.5		41	39
Truman	91.2	86.3		59.2	57.2		39	43
Agripro Cooper	91.2	86.4		60.3	55.8		39	40
EXCEL 388	91.1			59.5			41	39
Beck 117	90.9			61.8			39	38
Pioneer Brand 25R54	90.6	82.3		60.1	55.5		38	40
KY93C-1238-17-2	89.9	88.9		61.2	58.6		39	40
Exsegen Leah	89.8			60.9			35	40
SS EXP 240438	89.4			62			36	39
Vigoro Tribute	89.3	88.1	85.7	61.9	59.1	56.9	37	38
KY93C-0378-5-2	89.2	86.1		61.1	58		38	39
MV5-46	89.2	92		60.6	58.2		36	39
KY93C-1238-17-4	89.1	84.7		61	59.1		38	40
SS 8302	88.5	90.8		60.9	57.6		39	39
KY93C-0004-22-1	88.1	91.8		61.3	58.2		38	39
Pioneer Brand 25R37	88	92.4	95.5	60.7	58.6	57.5	36	39
Delta King 1551W	87.7	84.5		60.4	58		38	39
McCormick	87.5	77.4	83.9	62.2	59.5	57.7	35	38
EXCEL 399	87.5			59.7			41	39
Vigoro V9212	87.1	92.5	91.3	58.6	57.3	55.9	41	37
VA00W-526	86.8			60.5			34	39
EXCEL 333	86.7			60.4			39	39
NK B980416	86.5			59.1			36	39
Delta King 9650	86.5			58.8			38	39
Roane	86.3	87.4	87.7	62	60	56.9	36	41
Exsegen Sarah	86.1	89.9	94.9	59	56.7	56.5	40	42
Delta King 7900	85.4	86		60.2	56.9		41	39
Steyer Wiley	85.3	95.7		61.6	59.4		38	38
NK Coker 9312	85.2	85.4		59.3	57.7		35	36
Exsegen Rachel	85.1			59.3			37	34
SS 8309	85	97.5		60.2	57.7		39	40
KY94C-0094-11-2	84.8	78		61.1	57.6		38	41
Pioneer Brand 26R15	84.6	84.2		59	55.6		37	39
SS 550	84.5	83.3	79.6	58.4	54.8	54.4	36	39
EXCEL 409tw	84.1			61.5			38	41
Vigoro V9412	84	95.8		60.8	60.3		39	38
Pioneer Brand 25R35	84			59.3			39	41
Vigoro V9410	83.9	82.9		59.9	56.5		41	38
Steyer Besecker	83.7			59.5			41	39
KAS Independence	83.6	83.4	84.9	60.4	55.7	53.8	37	38
Van98W-342	82.8			58.5			33	37
Pioneer Brand 25R78	82.6	81.2	85.7	59.9	56.5	56.3	37	39
Choptank	82.5	85.7		58.5	57.2		31	38
Exsegen Rebekah	82.5	86.8	84.6	59.7	56.9	55.8	37	39
Sisson	81.9	82.1	77.6	57.9	56.7	53.6	36	37
Triticale	81.4	78.6		52.1	49.1		46	40
Delta King 9216	79.6			59.5			40	39
USG 910	78			60			40	39
Exsegen Esther	77.7	77.4	78.9	57.3	56	54.3	37	38
Steyer Coffman	75.9			60.7			40	39
Clark	72.1	78.5	80.1	58.4	56.7	54.3	40	38
KAS Allen	70.7			58.7			35	39
AVERAGE	88.8	88	86	59.9	57.1	55.2	38	39
C.V.	8.3	11.4	12.7					
LSD (0.05)	10.2	9.9	8.9					

Planting Date: 11/5/04; Harvest Date: 6/23/05; Winter Survival = 100%; Lodging = 0%; Preceding Crop: Corn
* LOCATION: 2005 Logan County, 2003-04 Warren County

Table 14. 2005 Kentucky wheat performance—North Central Region, no-till.*

Variety	Yield (Bu/a)			Test Wt. (Lb/bu)			Lodging (%)	Height (In)	Heading Date > April 1 2005
	2005	04-05	03-05	2005	04-05	03-05	2005	2005	2005
Agripro M00-3701	110.2			60.5			0	35	44
SS 560	109.3	81.3	77.2	59	56.2	54.9	0	35	46
SS 550	108.3	91.1	87.5	59.2	57.3	56.9	0	36	46
SS MPV-57	107.6	85		59.2	56.8		0	37	47
JGL EXP 501	107.3			60.2			0	35	46
KY97C-0232-2-2	106.2			61			0	35	46
Exsegen Judith	106.1	82		59.7	58.9		0	39	46
SS 8302	106.1	87.9		60.9	59.4		0	37	46
Delta King 7710	106.1	82.9		59.2	56.5		0	39	46
Pioneer Brand 25R54	105.6	86.2		60.3	58.1		0	36	47
KY93C-1238-17-1	105.2	89		60.5	59.7		0	37	45
Sisson	105	82.8	84.5	60.9	58.4	57.8	0	34	45
Pioneer Brand 25R47	104	87.5	82.4	58.2	57.3	57.2	0	33	46
USG 3209	103.3	85.4	84.7	59.2	57.6	56.7	0	33	45
KY93C-1238-17-2	103.2	88.4		60.7	59.7		0	36	45
KY93C-1238-17-4	102.4	83		62.2	60.4		0	36	44
EXCEL 399	101.9			58.3			4	40	46
Vigoro Tribute	101.8	85.7	85.7	60.4	60.1	59.9	0	34	44
Pioneer Brand 26R15	101.7	82.7		60.3	58		0	36	44
Pioneer Brand 26R58	101.3	84		59.2	56.6		0	34	46
McCormick	101.2	85.2	83.8	62.3	60.3	60.7	0	33	44
USG 910	100.5			59.7			0	38	46
Steyer Besecker	100.5			59.4			0	38	47
Beck 117	100.5			61.9			0	37	43
MV5-46	100.3	85.2		61.9	59.9		0	34	45
Pioneer Brand 25R37	100.1	84.5	84.7	60.2	58.6	58.3	0	33	45
SS EXP 240438	100			62.7			0	33	47
KY93C-0378-5-2	100	81.9		62	59.3		0	36	46
Vigoro V9412	99.9	81.6		61.9	60.5		0	37	43
Vigoro V9513	99.8			59.2			0	39	46
Vigoro V9410	99.6	81.6		60.6	58.6		0	40	43
Roane	99.5	83.3	81.5	60.2	59.1	59.1	0	34	46
SS 520	99.3	84.6	81.3	60.2	57.1	56.5	0	35	43
NK Coker 9312	99.2	82.6		60.6	60.1		0	33	44
KAS Declaration	99.2	82.4	82.1	59.6	57.7	56	0	33	46
Delta King 9650	99.1			58.8			0	35	46
KAS Allegiance	99	78.5	82	58.2	56.7	57.1	0	41	47
Pioneer Brand 25R78	99	82.1	82.1	61.1	59.6	58.2	0	33	44
Pioneer Brand 25R35	98.7			60.9			0	35	47
Exsegen Rebekah	98.6	79.8	78.9	60	56.4	56.5	0	36	44
NK B980582	98.4			62.1			1	39	43
SS 8309	98	80.7		57.8	57.4		0	36	47
Van98W-342	98			62.1			0	32	44
Exsegen Rachel	97.9			61.4			0	35	43
NK B980416	97.8			60			4	34	46
Exsegen Leah	97.7			59.1			0	32	47
KAS Adams	97.7			58.4			0	35	46
Delta King 9577	97.6			60.2			0	36	44
USG 3350	97.2	83	82.6	59.4	57.7	57	0	40	45
KY94C-0094-11-2	97.1	82.4		61.4	59		0	36	46
Vigoro V9212	96.8	81.7	86.3	59.6	57.9	57.4	0	38	44
Steyer Wiley	96.8	80.7		61.9	60		0	37	43
Exsegen Sarah	96.7	80.2	82.8	59.9	57	56.4	0	39	49
Steyer Merrell	96.7			59.2			0	36	45
EXCEL 307	96.7	81.6		59.6	57.7		0	39	44
Delta King 9216	96.5			58.8			5	39	46
Choptank	96.4			59.8			0	30	45
EXCEL 333	96.1			61.4			1	39	45
EXCEL 388	96			58.8			0	40	44
Steyer Coffman	95.8			60.3			0	37	45
Truman	95.7	77.9		57.8	57.8		0	39	50
EXCEL 211	95.3			60.8			0	41	43
Delta King 9410	95.3	80.3		58.8	57.5		0	41	45
KY93C-1238-17-5	94.9	81.9		62.1	61.2		0	36	43
KAS Independence	94.7	77.6	76.8	59.2	57.5	57.2	0	34	44
EXCEL 352tw	94.5			60.9			18	39	44
Steyer Alma	94.1			59.9			0	34	46
Delta King 7830	94	77.3		59.3	57.7		0	40	44
VA00W-526	93			60			0	32	46
Delta King 7900	92.5	81.7		58.9	58.1		0	40	45
KAS Allen	92.3			59.5			0	33	45
Agripro Cooper	92.2	84.8		61.4	58.7		0	33	45
EXCEL 409tw	92			61.1			0	36	47
Delta King 1551W	91.7	77.1		59.8	57.9		0	34	47
USG 3430	90.7	76.4	76	60.2	59	57.8	0	40	44
KY93C-0004-22-1	90.6	76.5		61.4	59.8		0	35	46
Agripro Benton	88.4	74.7	74.2	60	57.3	57.1	0	35	46
Triticale	85.6	75.6		46.5	48.4		0	46	47
Exsegen Esther	82.8	74.2	72.3	61.4	57.5	56.5	0	34	43
Clark	82.2	68.2	71.3	59.8	57.2	57	0	36	46
AVERAGE	98.4	81.9	80.9	60	58.1	57.4	0	36	45
C.V.	6.3	7.7	8.9						
LSD (0.05)	8.6	6.5	6						

Planting Date: 11/9/04; Harvest Date: 6/27/05; Winter Survival = 100%; Preceding Crop: Soybean
 * LOCATION: Shelby County: 2003 Conventional; 2004-05 No-Till

Table 15. 2005 Kentucky barley performance.**

Variety	Yield (Bu/a)			Test Wt. (Lb/bu) 2005	Lodging (%) 2005	Height (In) 2005	Heading Date > April 1 2005
	2005	04-05	03-05				
Thoroughbred	129.2	118.1	105.7	47.1	0	34	25
Nomini	116.4	104.2	97.8	45.9	0	38	23
Price	109.6	110.8	108.2	46	0	31	23
Callao	109.4	89.2	87.5	48.2	8	29	23
Doyce*	106.9	94	90.3	58.1	18	32	23
AVERAGE	114.3	103.3	97.9	49.1	5	33	23
C.V.	9.3						
LSD (0.05)	10.9						

** Summary of two conventional tests (Caldwell and Logan County)

* Hulless Variety

Source of all lines: Virginia Tech

Table 16. 2005 Kentucky hulless barley performance.*

Variety	Yield (Bu/a) 2005	Yield (Bu/a) 04-05	Test Wt. (Lb/bu) 2005	Lodging (%) 2005	Height (In) 2005	Heading Date > April 1 2005
VA01H-124	106.9	110.4	58.6	0	28	23
VA00H-70	106.9	102.4	58.2	0	33	23
VA03H-235	104.7		59.3	4	31	25
VA03H-108	104.3		56.3	15	36	25
VA01H-37	102	105	57.6	15	32	24
VA03H-58	101.2		60.4	6	34	31
VA01H-1	99.5	103.2	59.1	0	33	23
VA03H-100	99		59.5	6	40	24
VA03H-64	98.7		59.7	10	38	24
VA00H-99	98.5	108.2	58.5	1	32	23
VA01H-125	97.7	90.4	59	0	30	23
H-585	96.9	97	58.3	25	33	22
VA03H-61	96.7		61	5	35	27
VA03H-231	96.6		58.9	3	31	28
Doyce	96.5	98.2	57.9	4	32	24
VA01H-3	95.8	107.4	59.6	1	33	23
VA03H-259	95.6		58.2	4	33	23
VA00H-10	95.3	96.6	54.8	0	33	23
VA03H-98	95.3		58	24	36	22
VA00H-65	95.2	93.6	58.9	0	32	23
VA01H-26	95.1	84	58.9	0	29	24
VA03H-89	94.4		58.1	1	34	23
VA03H-244	93.4		58.6	11	31	26
VA00H-74	93.2	100.6	59	0	33	23
VA03H-217	92.9		58.6	10	32	25
VA03H-198	90.6		59.4	4	36	27
VA03H-232	90.5		59.1	6	31	25
VA01H-122	89.7	89.8	58.5	1	36	23
VA03H-239	89.4		59.1	4	31	28
VA01H-44	89.3	94.1	58	28	30	24
VA01H-13	89.2	93.1	58.9	9	32	24
VA01H-68	89	93	59.5	20	33	23
VA03H-228	88.8		58.9	13	31	25
VA03H-206	87.2		57.5	13	32	23
VA03H-196	84.5		59.3	6	35	25
VA03H-97	80		57.8	9	34	23
AVERAGE	95.5	99.1	58.6	7	33	24
C.V.	10.1					
LSD (0.05)	13.5					

* Summary of two conventional tests (Caldwell and Logan County)

Table 17. 2005 Disease ratings of wheat varieties tested in Kentucky.

Variety	Stripe Rust	Powdery Mildew	Leaf Rust	Head Scab*		
				Incidence (%)	Severity (%)	Index (%)
Agripro Benton	3.1	3.3	3.5	70.9	36.1	28.5
Agripro Cooper	6.0	3.5	3.3	87.1	42.7	37.8
Agripro M00-3701	2.9	2.3	2.8	*	*	*
Beck 117	3.1	2.3	4.0	*	*	*
Choptank	4.8	1.8	3.0	*	*	*
Clark	7.5	3.3	4.5	83.6	37.3	30.7
Delta King 1551W	3.3	3.5	4.3	86.3	34.6	30.2
Delta King 7710	1.9	4.0	3.5	76.4	29.5	23.9
Delta King 7830	2.6	4.8	2.3	69.3	29.7	23.0
Delta King 7900	2.5	5.0	3.3	65.3	37.1	27.3
Delta King 9216	3.0	3.3	2.0	*	*	*
Delta King 9410	2.8	5.5	2.8	67.7	49.9	32.5
Delta King 9577	3.3	2.8	2.3	*	*	*
Delta King 9650	5.6	3.0	3.3	*	*	*
EXCEL 211	2.5	5.8	3.0	*	*	*
EXCEL 307	2.3	5.8	2.5	83.1	41.3	35.8
EXCEL 333	2.4	3.0	2.8	*	*	*
EXCEL 352tw	4.5	2.3	2.5	*	*	*
EXCEL 388	2.5	6.0	2.5	*	*	*
EXCEL 399	2.3	6.5	2.5	*	*	*
EXCEL 409tw	2.3	3.5	2.0	*	*	*
Exsegen Esther	7.9	4.8	8.0	73.0	39.0	33.2
Exsegen Judith	2.0	2.8	3.5	75.0	37.3	28.0
Exsegen Leah	5.0	1.5	1.5	*	*	*
Exsegen Rachel	3.7	2.0	5.5	*	*	*
Exsegen Rebekah	4.9	2.5	1.8	71.7	30.0	24.3
Exsegen Sarah	6.1	3.3	3.0	80.3	35.9	29.1
JGL EXP 501	5.0	2.3	2.5	*	*	*
KAS Adams	5.9	2.3	3.8	*	*	*
KAS Allen	5.6	2.5	2.0	*	*	*
KAS Declaration	2.5	3.0	5.8	89.7	53.7	48.1
KAS Independence	4.1	2.3	1.3	70.8	31.4	25.8
KY93C-0004-22-1	3.8	3.0	4.5	88.1	36.8	32.5
KY93C-0378-5-2	3.5	2.8	4.5	88.0	59.3	51.0
KY93C-1238-17-1	8.1	2.8	2.0	75.0	47.9	41.2
KY93C-1238-17-2	8.4	2.5	.	83.3	47.0	40.1
KY93C-1238-17-4	7.7	3.5	3.0	85.3	56.4	49.5
KY93C-1238-17-5	7.7	3.0	1.7	83.8	55.1	46.4
KY94C-0094-11-2	4.6	3.3	1.3	80.9	32.5	26.6
KY97C-0232-2-2	2.1	3.0	4.3	*	*	*
McCormick	3.1	2.0	4.8	89.1	26.2	23.5
MV5-46	8.4	2.3	3.0	*	*	*
NK B980416	6.1	1.8	1.7	*	*	*
NK B980582	3.4	3.3	1.8	*	*	*
NK Coker 9312	4.5	1.8	2.7	78.6	51.4	45.5
Pioneer Brand 25R35	7.5	5.0	1.7	*	*	*
Pioneer Brand 25R37	2.5	3.3	4.0	82.2	41.2	33.0
Pioneer Brand 25R47	2.5	4.0	1.8	84.9	37.1	32.8
Pioneer Brand 25R54	3.1	2.8	3.5	78.2	27.7	24.1
Pioneer Brand 25R78	7.1	4.8	2.0	82.1	45.3	37.1
Pioneer Brand 26R15	3.8	3.5	1.3	75.5	35.3	26.8
Pioneer Brand 26R58	6.8	5.3	3.3	83.0	53.9	43.6
Roane	3.0	4.3	1.8	78.1	34.1	29.7
Sisson	8.2	2.0	4.0	89.6	54.7	50.2
SS 520	7.6	2.8	3.5	81.5	56.2	50.5
SS 550	7.7	2.3	3.0	81.1	57.8	45.5
SS 560	4.6	2.8	3.8	93.3	75.1	70.4
SS 8302	2.2	3.8	4.0	76.3	50.4	38.3
SS 8309	4.1	2.8	3.0	77.9	31.7	23.9
SS EXP 240438	7.1	2.3	1.5	*	*	*
SS MPV-57	5.9	2.0	3.3	*	*	*
Steyer Alma	5.6	4.3	3.0	*	*	*
Steyer Besecker	2.2	3.0	2.5	*	*	*
Steyer Coffman	5.0	3.0	1.3	*	*	*
Steyer Merrell	2.5	3.3	3.0	*	*	*
Steyer Wiley	2.9	2.0	2.8	85.1	45.0	39.1
Triticale	2.8	2.0	2.3	64.5	14.6	9.3
Truman	1.5	1.5	5.5	69.1	26.3	18.7
USG 3209	2.9	1.8	3.8	92.4	57.5	53.6
USG 3350	2.3	6.0	2.8	71.8	29.8	22.4
USG 3430	2.4	6.3	2.5	76.1	44.4	33.8
USG 910	5.2	3.3	2.0	*	*	*
VA00W-526	3.0	1.8	2.5	*	*	*
Van98W-342	7.3	1.3	2.0	*	*	*
Vigoro Tribute	5.1	2.5	2.0	69.6	30.4	20.7
Vigoro V9212	7.8	3.5	1.0	70.9	28.3	23.2
Vigoro V9410	3.0	6.0	2.3	81.5	45.9	35.6
Vigoro V9412	3.4	1.8	2.8	69.1	31.0	24.7
Vigoro V9513	2.3	2.8	3.8	*	*	*
Average	4.4	3.2	3.0			

Rust and Mildew Ratings: 1 = Excellent; 9 = Poor.

Stripe Rust data collected at Logan Co. and Caldwell Co. conventional tests. **Powdery Mildew** data collected at Fayette Co. test. **Leaf Rust** data collected at Caldwell Co. test.

* **Head Scab** rated at one location in 2005. Head scab data based on one observation is not considered reliable. Other varieties rated at Lexington 2004-05, Princeton 2004 Scab Nurseries.

* **Vomitoxin** (DON) levels and Scabby Seed (%) data from Lexington Nursery will be posted at www.uky.edu/Ag/WheatVarietyTest when available.

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