

2002 Kentucky Small Grain Variety Trials

G.C. Claywell, C.S. Swanson, J. Connelley, and D.A. Van Sanford

The 2002 wheat growing season ended with Kentucky farmers harvesting 360,000 acres of soft red winter wheat resulting in 19,080,000 bushels of grain. An average of 53 bushels per acre was recorded, which is down 9 bushels per acre from the 2001 growing season (Table 1).

Small grain performance tests were conducted in six of the seven agroclimatic regions of Kentucky (Figure 1). 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 will have a trial conducted in that region for that commodity.

The objective of the Kentucky small grain variety trials is to evaluate varieties of barley and wheat 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 seedsmen, farmers, and other agricultural workers with current information to help them select the varieties best adapted to their locality and individual requirements.

Since weather, soil, and other environmental factors will alter varietal performance from one location to another, tests are grown in six locations (Figure 1) in the state.

Table 1. Wheat harvested acreage and yields in Kentucky, 2000-2002.*

Crop	2002		2001		2000	
	Harvest 1000 A	Yield Bu/A	Harvest 1000 A	Yield Bu/A	Harvest 1000 A	Yield Bu/A
Wheat	360	53	340	62	420	58

* July 1, 2002, Kentucky Crop and Livestock Reporting Service.

Experimental Methods

Beginning in 1998, varieties were evaluated under both conventional and no-till cultural practices. No-till tests were grown at two locations in addition to the conventional tests, which were grown at all locations.

The plots were planted with specially built multi-row conventional and no-till cone seeders. Conventional test plots consisted of six rows to form a plot 4 feet wide and 15 feet long, which was later trimmed to 10 feet in length. No-till plots consisted of seven rows to form a plot 4.5 feet wide and 40 feet long, which was later trimmed to 20 feet in length. Each variety was grown in four replications, and the data presented are the average response from the four replications. Plots were harvested with a small plot combine. Planting dates of all trials for the past three years are listed in Table 2.

Figure 1. Agroclimatic regions of Kentucky small grain variety trials.

Region	2002 Location	Cooperator	Crop Tested
1. Purchase	Calloway	Ray Murdock	Wheat
2. Western Coal Field	Princeton	Research and Education Center	Wheat
3. Ohio Valley	Calhoun	Rodney Howard	Wheat
4. Bluegrass	Lexington	Kentucky Agricultural Experiment Station	Barley, Wheat
5. Southern Tier	Bowling Green	Western Kentucky University Farm	Barley, Wheat
	Russellville	Don Halcomb	Barley, Wheat
6. North Central	Shelbyville	Mike Ellis	Wheat

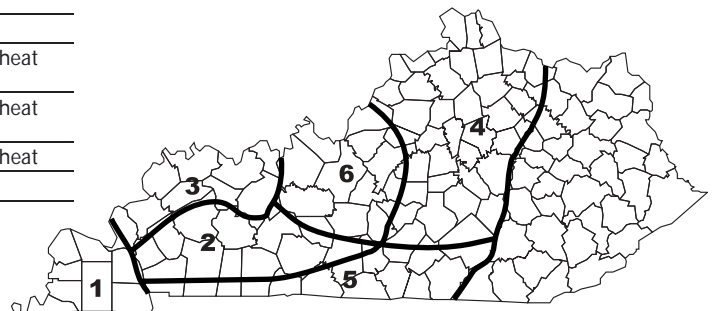


Table 2. Region, location, preceding crop, and planting dates of Kentucky small grain trials, 2000 - 2002.

Region	Location	Preceding Crop	Current Crop	Planting Date			
				2002	2001	2000	
Purchase	Murray Hickman	2002 2000-2001	Corn	Wheat			
				<i>Conventional</i>	10/23	10/11	10/21
				<i>No-till</i>			10/21
Ohio Valley	Calhoun	2000-2002	Corn	Wheat	11/1	10/16	10/22
Bluegrass	Lexington	2000-2002	Corn	Barley	10/10	10/23	10/22
				Wheat	10/10	10/20	10/22
Southern Tier	Russellville	2000-2002	Corn	Barley	10/29	10/20	10/20
				Wheat	10/29	10/20	10/20
	Bowling Green	2000-2002	Corn	Barley	10/9	10/12	10/25
				Wheat	10/9	10/13	10/25
Western Coal Field	Princeton	2000	Fallow	Barley	*	10/19	10/26
		2001-2002	Corn	Wheat			
				<i>Conventional</i>	10/30	10/18	10/26
				<i>No-till</i>	10/22	10/19	
North Central	Shelbyville	2000-2001	Corn	Wheat			
				<i>Conventional</i>	10/3	10/4	10/15
		2002	Soybean	<i>No-till</i>	10/3	10/4	10/14

*Barley trial not grown at Princeton in 2002.

In some instances, uncontrollable factors—such as excessive rainfall, winter killing, high winds, hail, grazing cattle, etc.—adversely affected an experiment so that the results were judged unreliable. When this occurred, results were not given for that location and year. Data averaged over a period of years give a more accurate picture of varietal performance than do annual data.

Results and Discussion

Since genetic expression of a variety is greatly influenced by environmental conditions, it is best to have several years' data 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. 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.

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 percent lodged does not imply that only 50 percent of the grain could be harvested. With good equipment, almost all of the

grain can often be saved. Lodging data for a period of years should receive more consideration than annual lodging data since they will give a more accurate picture of varietal performance.

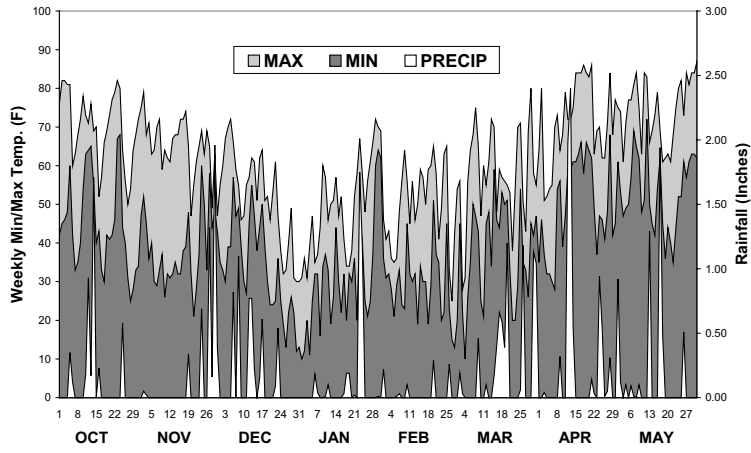
2002 Test Conditions

Weather conditions allowed the majority of the wheat and barley trials to be planted during October. One plot area was planted on November 1, 2001. November had above-normal precipitation; however, most of this rain was received in the latter five to six days of the month, resulting in most of November being fairly dry with above-normal temperatures. December's temperatures were 4 to 6 degrees above normal with adequate rainfall. January also had above-normal temperatures with slightly less than normal rainfall. The mild fall and winter allowed wheat to catch up on growth and to tiller adequately. February was somewhat dry the first couple of weeks with moderate temperatures. As March approached, very cold conditions fell upon most plot locations the week of the 4th and again the week of the 18th. These conditions delayed development of the wheat crop.

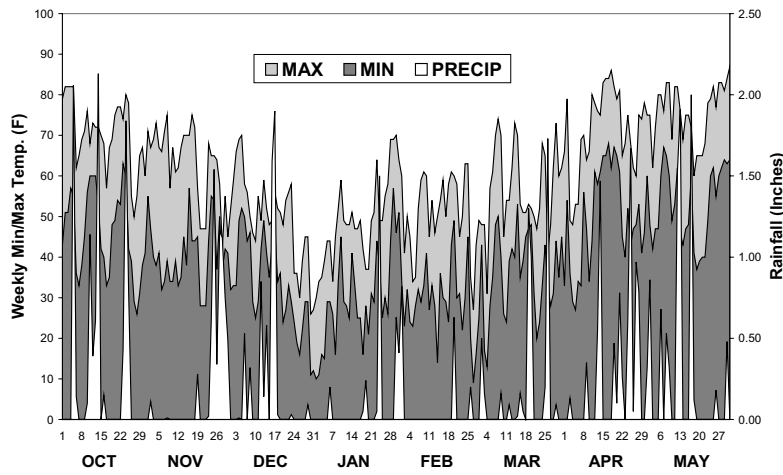
April rainfall and temperatures helped the wheat crop progress, with May bringing much warmer weather with adequate rain during grain fill. A late freeze on May 20 resulted in significant freeze damage to the head in plots at the Shelby County and Lexington locations. As a result, data from these locations are more variable and less reliable than data from other locations.

Head scab was somewhat of a problem in most plot areas with some locations being worse than others. However, test weights were higher than expected at most locations. All plot locations except Lexington were treated with insecticides and fungicides to control aphids and fungal diseases.

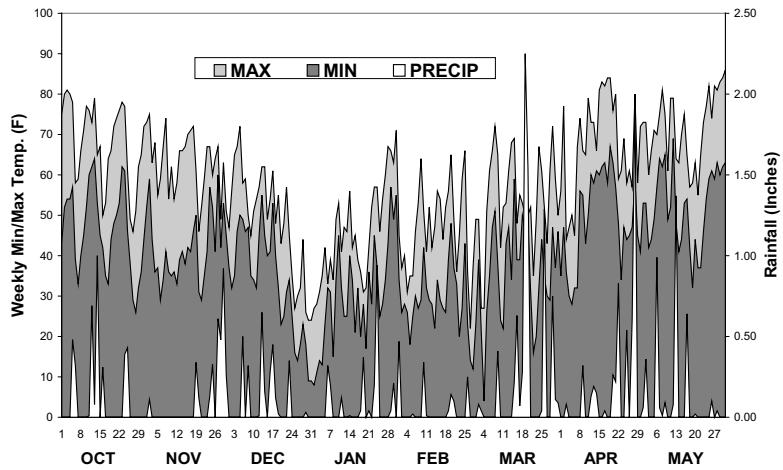
Bowling Green Weekly Weather Data



Henderson Weekly Weather Data



Lexington Weekly Weather Data



Small Grain Varieties for 2002

Varieties eligible for certification include: 1) varieties that may have potential for Kentucky, and 2) older varieties that are still acceptable for production in Kentucky. The characteristics of wheat and barley varieties are summarized in Tables 3 and 13, respectively.

Soft Red Winter Wheat Varieties

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. Yielding ability, straw strength, height, earliness, grain quality, and disease resistance are important in choosing a variety. Varietal performance is presented in Tables 3 through 11.

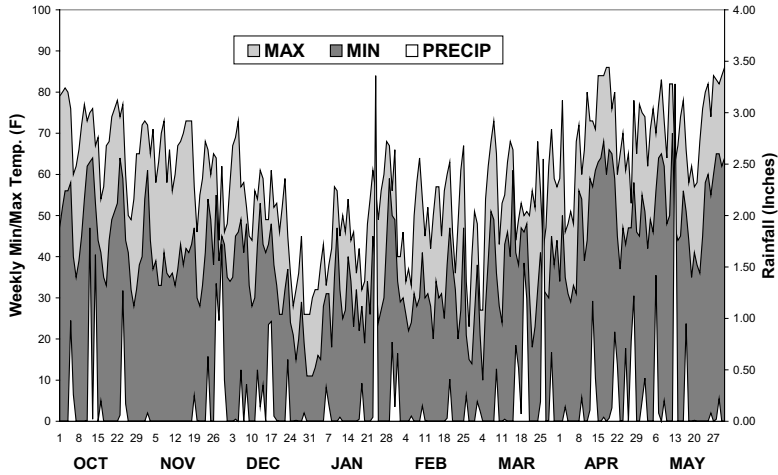
Winter Barley Varieties

Winter barleys are less winterhardy than winter wheat but more hardy than winter oats. The degree of winterhardiness, straw strength, and maturity are important characteristics when choosing a variety. Varietal performance data are presented in Tables 13 through 15b.

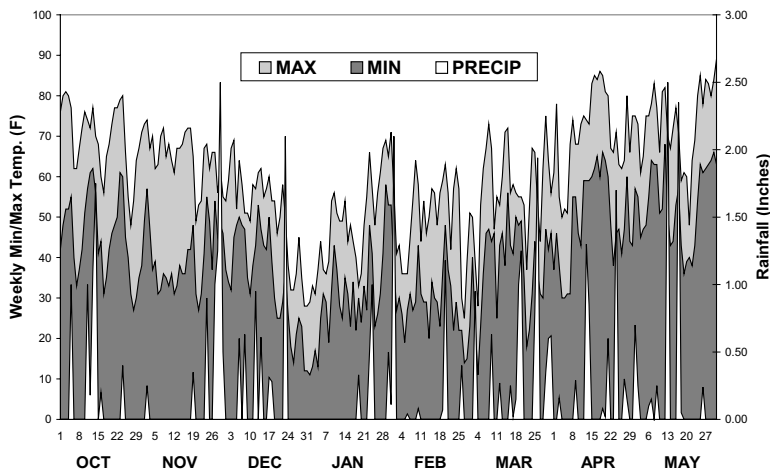
Certified Seed

Planting certified seed is one of the first steps in ensuring a good small grain crop. The extra cost of certified seed is justified in view of the high quality of seed obtained. Certified seed is seed that has been grown in such a way as to ensure the genetic identity and purity of a variety. Certified seed also helps to maintain freedom from weed and other crop seed and, in some cases, freedom from disease. The Kentucky Agricultural Experiment Station recommends that Kentucky-certified seed be used whenever possible for growing commercial crops of small grains.

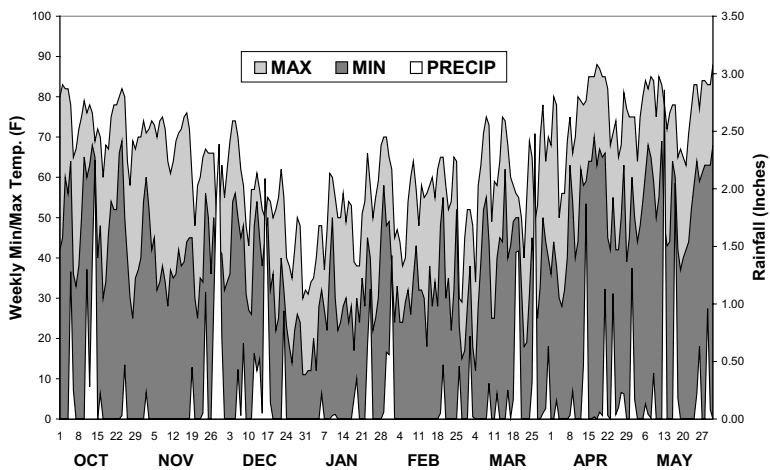
Louisville Weekly Weather Data



Mayfield Weekly Weather Data



Princeton Weekly Weather Data



Acknowledgment is made to the following individuals for their contributions to the bulletin: Brittany Edelson, Joanna Coles, Lincoln Martin, and Greg Henson, county Extension agents for agriculture, for assistance in locating test sites and collecting data; D. Hershman for disease ratings; V. Verges, A. J. Stewart, R. Green, B. O'Daniel, M. Martin, H. Peden, B. Hilton, N. El-Azhari, T. Taylor, S. Pfeiffer, C. McCarty, J. Gray, S. Barnett, L. J. Barnett, D. Jenkins, W. Randolph, and Dottie Call for data collection; Mary Ann Kelley, Sandie Waddell, and Kay Cotton for text and table preparation; and Freddie Higgins for data analysis.

In the following tables, where mentioned: "CV" = A measure of experimental error. The lower the CV the more reliable the results.
 "LSD" = The LSD (Least Significant Difference) is the minimum difference required for two varieties to be significantly different from one another.

Table 3. Characteristics of Wheat Varieties Tested in 2002.

NAME	PROTECTED	SOURCE	RELEASE DATE	YIELD (BU/A)	TEST WT. (LB/BU)	HEIGHT (IN.)	HEADING DATE > APRIL 1
25R49	YES	Pioneer Hi Bred Int'l	2000	80.8	57.4	35	33
25R78	YES	Pioneer Hi Bred Int'l	2001	80.4	58.1	35	31
SS 560	YES	Southern States Co-op	2001	79.1	57.9	34	32
25R23	YES	Pioneer Hi Bred Int'l	2001	79.0	60.0	37	36
KY90C-054-6	NA	University of Kentucky	NA	78.0	57.5	40	34
25R37	YES	Pioneer Hi Bred Int'l	2000	77.8	58.8	36	33
Agripro Patton	YES	Agripro Wheat	1998	77.6	57.7	37	31
Beck 110	YES	Beck's Hybrid	2001	76.8	59.8	39	32
SS EXP 564	YES	Southern States Co-op	2001	76.2	57.7	35	35
Dixie 900	YES	Cache River Valley	2001	75.3	57.5	39	33
Trical 336 (Triticale)	YES	Resource Seeds	2001	75.0	51.6	48	35
Exsegen Sarah	YES	Exsegen	2000	74.6	59.0	40	39
Croplan Genetics 554W	YES	Land O' Lakes	2001	74.1	57.4	34	32
2552	YES	Pioneer Hi Bred Int'l	1994	73.9	58.4	36	34
Agripro Foster	YES	Agripro Wheat	1996	73.9	58.8	37	34
25W60	YES	Pioneer Hi Bred Int'l	1999	73.5	56.6	37	32
25R44	YES	Pioneer Hi Bred Int'l	2000	73.2	57.7	35	34
M94*1549-1	NA	Agripro Wheat	NA	72.9	58.4	37	33
Tribute	YES	Royster/Clark	2002	72.9	59.4	32	33
VA97W-375ws	NA	Virginia Tech.	NA	72.8	57.7	32	30
SS 535 Gaucho	YES	Southern States Co-op	2000	72.2	58.5	34	33
Dixie* 9512	YES	Cache River Valley	2001	71.4	57.6	39	31
Sisson	YES	Virginia Tech.	2000	71.2	56.8	33	30
Exsegen Esther	YES	Exsegen	2000	70.8	56.9	37	31
McCormick	YES	Virginia Tech.	2002	70.8	58.9	32	33
SS 550	YES	Southern States Co-op	2001	70.4	57.4	34	31
25W33	YES	Pioneer Hi Bred Int'l	1999	69.8	55.0	35	34
Beck 102	YES	Beck's Hybrid	2001	69.5	57.6	38	33
KY90C-042-37-1	NA	University of Kentucky	NA	69.5	57.9	37	33
SS 535 Raxil	YES	Southern States Co-op	2000	68.8	58.6	34	33
KY90C-292-4-1	NA	University of Kentucky	NA	68.3	56.7	35	31
Exsegen Rebekah	YES	Exsegen	2000	68.0	58.7	35	33
NK Coker 9663	YES	Syngenta Seeds, Inc.	1996	67.7	58.8	37	32
25R24	YES	Pioneer Hi Bred Int'l	2001	67.2	57.4	34	32
KY90C-292-16.	NA	University of Kentucky	NA	66.2	53.0	35	32
Madison	YES	Virginia Tech.	1990	66.1	57.1	36	29
Dixie* 9611	YES	Cache River Valley	2001	66.0	57.3	38	35
Century II	YES	Syngenta Seeds, Inc.	2002	65.1	57.9	34	33
Clark	YES	Indiana	1988	64.8	58.0	37	30
Roane	YES	Virginia Tech.	1998	64.8	60.7	34	35
SS 520	YES	Southern States Co-op	2001	64.1	57.3	35	28
NK Coker 9025	YES	Syngenta Seeds, Inc.	2001	63.7	58.1	35	35
Croplan Genetics 514W	YES	Land O' Lakes	2001	63.3	57.5	35	29
KY91C-261-28	NA	University of Kentucky	NA	63.1	54.9	36	34
NK Coker 9184	YES	Syngenta Seeds, Inc.	NA	63.0	60.2	33	33
Hopewell	YES	Ohio State University	1998	62.3	58.4	37	37
NK Coker 9474	YES	Syngenta Seeds, Inc.	1998	62.2	59.3	34	32
USG 3209	YES	Unisouth Genetics	1999	62.1	57.2	31	32
Exsegen Abigail	YES	Exsegen	2001	61.8	57.1	29	30
MEAN				70.4	57.7	36	33

CV = 11.4
 LSD (0.05) = 4.2

Table 3a. Average Performance of Wheat Varieties Tested in 2001 - 2002.

VARIETY	YIELD (BU/A)	2002 TEST WT. (LB/BU)	2002 HEIGHT (IN.)	2002 LODGING (%)	2002 SURVIVAL (%)	2002 HEADING DATE > APRIL 1
25R49	87	58.1	35	0	100	33
Croplan Genetics 554W	86	57.8	34	0	100	32
KY90C-054-6	85	57.6	40	0	100	34
25R37	85	59.2	36	0	100	33
Exsegen Sarah	85	58.8	40	0	100	39
Agripro Patton	84	58.1	37	0	100	31
25R44	84	58.9	35	0	100	34
25W33	83	56.4	35	0	100	34
25W60	83	57.4	37	0	100	32
Tribute	81	60.1	32	0	100	33
SS 550	81	58.3	34	0	100	31
SS 535 Gaucho	81	59.0	34	0	100	33
Sisson	81	57.9	33	0	100	30
KY90C-042-37-1	81	58.5	37	0	100	33
SS 535 Raxil	80	59.2	34	0	100	33
KY90C-292-4-1	80	57.7	35	0	100	31
Agripro Foster	80	58.8	37	0	100	34
NK Coker 9663	79	59.2	37	0	100	32
KY90C-292-16.	78	55.9	35	0	100	32
NK Coker 9025	78	58.0	35	0	100	35
Exsegen Esther	78	57.2	37	0	100	31
SS 520	77	57.6	35	0	100	28
Exsegen Rebekah	77	58.5	35	0	100	33
Hopewell	77	57.8	37	0	100	37
KY91C-261-28	77	56.6	36	0	100	34
Madison	76	57.6	36	0	100	29
Roane	76	60.5	34	0	100	35
USG 3209	76	58.6	31	0	100	32
NK Coker 9184	73	60.7	33	0	100	33
Clark	69	58.0	37	0	100	30
NK Coker 9474	69	59.7	34	0	100	32
MEAN	80	58.3	35	0	100	33

Table 3b. Average Performance of Wheat Varieties Tested in 2000 - 2002.

VARIETY	YIELD (BU/A)	TEST WT. (LB/BU)	2002 HEIGHT (IN)	2002 LODGING (%)	2002 SURVIVAL (%)	HEADING DATE > APRIL 1
KY90C-054-6	86.5	56.6	40	0	100	34
25W33	85.9	55.7	35	0	100	34
25W60	85.8	57.0	37	0	100	32
Agripro Patton	85.0	57.7	37	0	100	31
SS 550	83.3	57.8	34	0	100	31
KY90C-292-4-1	82.7	57.4	35	0	100	31
SS 535 Raxil	82.6	58.6	34	0	100	33
Sisson	81.9	57.5	33	0	100	30
SS 520	81.6	57.5	35	0	100	28
Agripro Foster	81.4	58.0	37	0	100	34
KY90C-292-16	80.4	56.2	35	0	100	32
USG 3209	79.4	57.8	31	0	100	32
Madison	79.1	56.8	36	0	100	29
Roane	78.6	59.9	34	0	100	35
NK Coker 9663	78.4	58.5	37	0	100	32
NK Coker 9025	76.0	56.4	35	0	100	35
Clark	73.6	57.3	37	0	100	30
NK Coker 9474	70.7	59.2	34	0	100	32
MEAN	80.7	57.5	35.3	0.0	100.0	31.9

Table 4. Wheat Performance Trials for Purchase Region,** 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
25R23	92			92	59.7			59.7	9.0	100	40	32
25R49	91	100		96	59.2	59.3		59.3	26	100	37	29
2552	89		76	83	59.2		60.9	60.1	10	100	38	29
25R78	88			88	58.9			58.9	8	100	37	27
Exsegen Esther	84	93		89	57.1	57.9		57.5	23	100	38	27
SS 560	83			83	57.3			57.3	73	100	36	28
KY90C-054-6	82	95	101	93	56.5	57.2	59.4	57.7	51	100	41	30
SS EXP 564	82			82	57.5			57.5	21	100	37	32
25R37	81	88		85	59.3	59.8		59.6	10	100	37	29
25R44	81	102		92	58.7	60.1		59.4	5	100	36	29
Hopewell	80	92		86	58.0	61.1		59.6	0	100	40	34
KY90C-292-4-1	80	87	83	83	56.7	59.0	61.3	59.0	15	100	36	27
KY91C-261-28	80	91		86	56.8	62.8		59.8	16	100	38	29
Trical 336	80			80	51.9			51.9	24	100	50	31
Tribute	80	88		84	61.1	61.0		61.1	10	100	33	27
25W33	79	97	85	87	56.1	60.2	60.0	58.8	29	100	36	29
25W60	79	95	86	87	56.9	58.9	61.2	59.0	36	100	38	28
Beck 110	79			79	59.9			59.9	36	100	41	28
Exsegen Sarah	79	103		91	59.0	57.2		58.1	4	100	41	36
McCormick	79			79	59.8			59.8	35	100	33	28
Dixie* 9611	78			78	57.3			57.3	9	100	40	31
Agripro Patton	76	91	81	83	57.4	58.1	59.1	58.2	33	100	39	28
KY90C-292-16	76	88	86	83	56.6	58.5	61.7	58.9	15	100	36	28
Dixie 900	74			74	57.9			57.9	6	100	40	29
SS 550	74	92	89	85	57.8	60.7	60.1	59.5	55	100	34	26
Agripro Foster	73	88	90	84	58.1	61.4	59.6	59.7	3	100	38	30
Croplan Genetics 554W	72	96		84	57.5	58.1		57.8	94	100	36	27
Sisson	72	93	89	85	57.4	59.1	60.6	59.0	64	100	34	25
Beck 102	71			71	57.0			57.0	58	100	40	20
Exsegen Rebekah	71	81		76	58.1	58.3		58.2	64	100	36	29
KY90C-042-37-1	71	90		81	58.1	58.6		58.4	31	100	38	29
SS 535 Raxil	70	87	82	80	57.7	60.0	60.9	59.5	85	100	35	28
Clark	69	81	76	75	57.1	57.2	59.1	57.8	25	100	38	26
Roane	69	84	75	76	58.9	59.9	63.1	60.6	3	100	36	31
VA 97W-375WS	69			69	57.2			57.2	66	100	32	24
Century II	68			68	58.5			58.5	23	100	35	27
M94*1549-1	68				57.6				30	100	39	29
NK Coker 9025	68	94	70	77	58.0	57.8	60.1	58.6	33	100	36	30
NK Coker 9474	68	78	67	71	59.2	60.5	60.6	60.1	6	100	36	27
25R24	67			67	57.7			57.7	50	100	35	26
Dixie* 9512	67			67	57.5			57.5	29	100	40	28
NK Coker 9184	67	72		70	59.4	60.8		60.1	28	100	34	28
NK Coker 9663	67	93	81	80	67.0	58.9	59.8	61.9	50	100	38	27
SS 535 Gaucho	67	90		79	57.5	59.1		58.3	80	100	34	28
Madison	66	91	87	81	56.4	58.2	59.6	58.1	54	100	38	24
SS 520	64	91	93	83	55.9	57.5	58.1	57.2	41	100	37	24
Croplan Genetics 514W	63			63	56.1			56.1	38	100	35	24
USG 3209	61	92	95	83	57.1	59.6	60.3	59.0	48	100	31	26
Exsegen Abigail	57			57	57.4			57.4	13	100	30	26
MEAN	75	90	84	80	57.9	59.3	60.3	58.6	32	100	37	28

CV = 10.4

LSD (0.05) = 9.4

** LOCATION: Calloway County.

Table 5. Wheat Performance Trials for Ohio Valley Region, ** 2002, 2000, 1999.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL
	2002	2000	1999	MEAN	2002	2000	1999	MEAN				
Agripro Foster	86	97	69	84	59.4	56.1	52.9	56.1	0	100	38	34
25R37	86			86	60.0			60.0	0	98	35	33
25R78	84			84	60.8			60.8	0	99	34	31
25R49	82			82	59.4			59.4	0	91	34	33
Agripro Patton	81	98	95	91	58.8	54.9	57.3	57.0	0	96	38	31
KY90C-054-6	81	91		86	58.4	52.4		55.4	0	100	41	35
25W60	80	98		89	57.0	53.3		55.1	0	98	37	34
Dixie* 9512	80			80	58.8			58.8	0	100	40	30
KY90C-292-4-1	80			80	59.2			59.2	0	98	35	32
25R44	80			80	59.1			59.1	0	99	34	36
SS 560	79			79	57.7			57.7	0	96	33	34
Croplan Genetics 554W	77			77	57.6			57.6	0	93	33	33
Trical 336	77			77	53.2			53.2	0	100	48	36
Beck 110	75			75	60.0			60.0	0	94	38	33
KY90C-292-16	75	83		79	58.5	52.3		55.4	0	99	35	34
SS 535 Gaucho	74			74	59.6			59.6	0	98	34	33
McCormick	74			74	60.8			60.8	0	90	33	34
25R24	74			74	59.0			59.0	0	98	36	34
USG 3209	73	95	92	87	60.4	55.1	58.1	57.9	0	94	32	31
25R23	73			73	59.4			59.4	0	90	35	37
VA97W-375ws	73			73	59.0			59.0	0	95	31	30
Tribute	72			72	62.3			62.3	0	89	33	35
Century II	72			72	59.4			59.4	0	95	35	35
Exsegen Sarah	71			71	58.8			58.8	0	94	38	40
Exsegen Esther	71			71	57.3			57.3	0	93	35	32
Dixie 900	71			71	58.1			58.1	0	94	39	33
Madison	71	92	90	84	58.2	54.0	54.1	55.4	0	95	38	31
Sisson	71	98		84	59.5	56.7		58.1	0	89	32	29
SS EXP 564	70			70	57.8			57.8	0	90	33	38
NK Coker 9184	70			70	60.6			60.6	0	98	34	34
SS 550	68	95		81	58.7	55.8		57.3	0	91	32	31
Exsegen Rebekah	68			68	59.4			59.4	0	96	33	34
NK Coker 9663	66	93	100	86	59.6	56.3	59.9	58.6	0	93	38	36
25W33	66	93		79	57.7	51.7		54.7	0	94	32	37
Croplan Genetics 514W	66			66	56.9			56.9	0	89	36	29
Dixie* 9611	66			66	58.6			58.6	0	98	36	36
M94*1549-1	65			65	59.1			59.1	0	94	36	34
Exsegen Abigail	64			64	58.4			58.4	0	95	30	30
2552	64	100	92	85	61.9	57.5	57.6	59.0	0	96	34	36
SS 535 Raxil	63	91	86	80	59.6	57.2	59.3	58.7	0	94	32	36
KY90C-042-37-1	63			63	59.0			59.0	0	88	34	33
NK Coker 9025	62	88		75	58.8	53.2		56.0	0	90	33	37
Beck 102	61			61	59.5			59.5	0	85	35	35
KY91C-261-28	60			60	58.2			58.2	0	88	33	37
Roane	58	95	98	84	61.2	58.1	61.0	60.1	0	96	32	36
NK Coker 9474	56	83	85	75	60.5	56.1	60.5	59.0	0	88	33	35
Clark	56	96	77	76	57.9	53.3	54.9	55.4	0	93	36	31
Hopewell	55			55	57.7			57.7	0	91	34	38
SS 520	54	103		79	57.9	55.7		56.8	0	89	34	29
MEAN	71	94	88	76	58.9	55.0	57.6	58.2	0	94	35	34

CV = 14.8

LSD (0.05) = 12.1

** LOCATION: Owensboro.

2001 test not harvested due to poor emergence.

Table 6. Wheat Performance Trials for Bluegrass Region, ** 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > April 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
SS 560	71			71	55.5			55.5	0	100	32	37
Trical 336	71			71	48.2			48.2	0	100	45	36
Sisson	69	83	103	85	54.7	60.3	57.2	57.4	0	100	31	36
Beck 110	69			69	57.1			57.1	0	100	36	37
Croplan Genetics 554W	68	89		79	55.0	59.8		57.4	0	100	32	37
SS EXP 564	68			68	56.9			56.9	0	100	31	39
2552	66		102	84	53.5		59.0	56.3	0	100	34	37
Exsegen Sarah	66	84		75	57.2	61.4		59.3	0	100	37	44
KY90C-054-6	64	78	105	82	55.3	59.7	55.7	56.9	0	100	36	36
M94*1549-1	64			64	56.4			56.4	0	100	35	37
NK Coker 9025	63	92	87	81	57.8	59.6	55.3	57.6	0	100	33	39
SS 550	63	83	102	83	52.8	60.4	56.3	56.5	0	100	32	37
VA97W-375ws	63			63	55.3			55.3	0	100	29	36
Exsegen Esther	61	73		67	57.3	58.3		57.8	0	100	35	36
KY90C-042-37-1	61	79		70	55.2	59.4		57.3	0	100	34	37
SS 535 Raxil	61	91	108	87	56.2	60.6	58.2	58.3	0	100	31	37
SS 535 Gaucho	60	79		70	56.8	60.6		58.7	0	100	32	37
Agripro Patton	60	77	89	75	54.2	59.4	57.6	57.1	0	100	35	36
Roane	60	87	92	80	59.3	60.9	58.0	59.4	0	100	32	39
25R23	59			59	60.0			60.0	0	100	35	39
25R49	59	74		66	48.6	58.1		53.4	0	100	33	37
SS 520	58	77	101	79	55.1	58.1	55.6	56.3	0	100	33	32
Beck 102	58			58	53.5			53.5	0	100	36	38
25R37	58	88		73	55.1	60.3		57.7	0	100	33	37
Exsegen Rebekah	58	88		73	58.8	59.1		58.9	0	100	33	38
25R78	57			57	50.8			50.8	0	100	33	35
NK Coker 9184	57	79		68	58.5	60.8		59.6	0	100	32	38
Dixie 900	56			56	53.8			53.8	0	100	37	37
Tribute	55	74		64	53.6	61.5		57.6	0	100	29	37
McCormick	54			54	57.7			57.7	0	100	29	37
Agripro Foster	50	72	92	71	50.1	59.9	57.3	55.8	0	100	34	39
NK Coker 9474	50	59	78	62	53.9	60.6	59.2	57.9	0	100	31	37
Madison	49	88	98	78	53.2	59.0	54.8	55.7	0	100	32	33
25R44	48	75		62	52.9	60.5		56.7	0	100	33	37
Dixie* 9512	48			48	53.9			53.9	0	100	35	36
Clark	48	71	88	69	56.2	59.2	55.5	57.0	0	100	32	32
NK Coker 9663	46	87	83	72	57.3	61.0	57.7	58.7	0	100	31	36
Croplan Genetics 514W	46			46	59.5			59.5	0	100	32	34
25R24	46			46	51.7			51.7	0	100	31	36
Dixie* 9611	46			46	52.2			52.2	0	100	36	39
25W60	45	82	107	78	52.6	59.1	56.2	56.0	0	100	34	35
25W33	45	86	108	80	48.9	58.6	54.5	54.0	0	100	33	37
Century II	45			45	53.1			53.1	0	100	30	37
Exsegen Abigail	44			44	52.7			52.7	0	100	26	34
KY91C-261-28	40	85		63	52.1	59.2		55.7	0	100	32	36
KY90C-292-4-1	40	94	103	79	50.9	59.9	56.6	55.8	0	100	31	36
KY90C-292-16	40	79	101	73	48.8	59.6	57.6	55.3	0	100	31	35
Hopewell	39	87		63	55.3	60.0		57.6	0	100	34	40
USG 3209	36	82	104	74	52.6	60.2	55.6	56.1	0	100	29	38
MEAN	55	81	97	68	54.5	59.8	56.7	56.2	0	100	33	37

CV = 17.8

LSD (0.05) = 11.4

** LOCATION: Spindletop Farm, Lexington.

Table 7. Wheat Performance Trials for Western Coal Field Region,** 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
25R37	93	106		100	62.1	57.7		59.9	0	100	37	31
25R49	91	89		90	59.9	56.9		58.4	0	100	35	30
SS 560	89			89	59.2			59.2	0	100	35	30
Dixie 900	89			89	59.5			59.5	0	100	42	29
Exsegen Esther	88	88		88	59.7	56.3		58.0	0	100	37	29
25R78	87			87	61.6			61.6	0	100	35	28
25W33	87	101	66	85	58.6	55.6	50.8	55.0	0	100	36	32
Exsegen Sarah	86	103		94	62.7	55.9		59.3	0	100	41	37
SS EXP 564	86			86	59.7			59.7	0	100	36	32
Agripro Patton	86	99	77	87	59.2	57.6	52.7	56.5	0	100	38	29
25W60	85	97	65	82	59.8	57.3	53.1	56.7	0	100	38	30
25R23	84			84	60.7			60.7	0	100	36	35
25R24	83			83	60.2			60.2	0	100	36	29
KY90C-054-6	82	97	58	79	58.5	56.7	53.4	56.2	0	100	42	32
25R44	82	106		94	59.9	57.7		58.8	0	100	35	32
Croplan Genetics 554W	81	95		88	58.2	57.4		57.8	0	100	35	29
SS 535 Gaucho	81	98		90	59.9	58.7		59.3	0	100	35	31
McCormick	81			81	61.0			61.0	0	100	33	31
Century II	81			81	60.9			60.9	0	100	36	31
Dixie* 9512	81			81	59.8			59.8	0	100	41	28
Tribute	81	92		86	61.8	59.1		60.5	0	100	34	30
NK Coker 9663	79	87	57	74	59.6	58.2	52.8	56.9	0	100	41	30
NK Coker 9025	79	92	48	73	59.7	56.1	49.5	55.1	0	100	36	34
Beck 110	79			79	63.1			63.1	0	100	41	30
VA97W-375ws	79			79	60.0			60.0	0	100	33	29
Beck 102	79			79	58.8			58.8	0	100	39	30
Agripro Foster	78	104	57	80	61.7	57.3	53.1	57.4	0	100	37	31
Trical 336	78			78	54.5			54.5	0	100	48	32
SS 550	77	98	60	78	61.4	58.2	52.7	57.4	0	100	35	28
2552	77		77	77	60.1		57.1	58.6	0	100	35	33
SS 535 Raxil	77	90	59	75	59.7	59.0	55.9	58.2	0	100	35	30
KY90C-292-16	77	97	64	79	59.3	57.5	56.5	57.8	0	100	36	30
Sisson	76	92	57	75	59.4	58.7	53.8	57.3	0	100	34	27
Dixie* 9611	76			76	58.7			58.7	0	100	38	33
SS 520	75	86	71	77	60.3	57.9	56.6	58.3	0	100	37	26
Exsegen Rebekah	75	89		82	59.7	56.9		58.3	0	100	35	30
Croplan Genetics 514W	74			74	59.2			59.2	0	100	37	26
USG 3209	74	91	55	73	59.3	57.3	52.0	56.2	0	100	31	29
Exsegen Abigail	74			74	59.9			59.9	0	100	31	27
Madison	74	79	61	71	58.3	57.9	53.0	56.4	0	100	38	28
KY90C-292-4-1	73	92	71	79	60.4	55.7	56.6	57.6	0	100	35	30
NK Coker 9474	72	85	60	72	61.9	59.6	58.1	59.9	0	100	37	30
KY90C-042-37-1	71	97		84	59.3	58.8		59.1	0	100	38	31
KY91C-261-28	70	91		81	59.2	56.4		57.8	0	100	36	31
NK Coker 9184	70	94		82	61.3	59.2		60.3	0	100	33	31
Clark	69	75	70	71	59.4	56.5	55.8	57.2	0	100	39	28
M94*1549-1	68			68	61.1			61.1	0	100	38	31
Roane	67	89	63	73	61.3	58.4	57.6	59.1	0	100	34	33
Hopewell	61	94		78	59.9	54.2		57.1	0	100	35	36
MEAN	79	93	63	81	60.0	57.4	54.3	58.6	0	100	37	30

CV = 8.8

LSD (0.05) = 8.1

** LOCATION: Princeton.

Table 8a. Wheat Performance Trials for Southern Tier Region,** 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
Trical 336	93			93	51.7			51.7	0	100	47	34
25R23	90			90	61.1			61.1	0	100	37	37
25R78	88			88	60.2			60.2	0	100	34	31
25W60	87	98	78	88	59.4	59.1	58.8	59.1	0	100	37	31
25R44	85	101		93	59.7	60.3		60.0	0	100	35	34
25R49	85	105		95	58.6	58.3		58.5	0	100	36	33
25R37	84	86		85	60.9	59.8		60.4	0	100	35	33
Beck 110	84			84	61.0			61.0	0	100	39	32
SS 535 Gaucho	84	85		84	60.9	60.3		60.6	0	100	33	33
KY90C-292-4-1	83	99	77	86	59.7	58.6	56.8	58.4	0	100	35	31
Agripro Foster	82	96	75	84	61.2	58.8	56.0	58.7	0	100	36	33
2552	82		84	83	59.7		58.6	59.2	0	100	35	33
VA97W-375ws	82			82	59.8			59.8	0	100	32	31
KY90C-042-37-1	79	94		87	59.5	58.9		59.2	0	100	37	33
Tribute	79	94		86	62.0	61.4		61.7	0	100	31	32
Agripro Patton	78	92	80	83	58.7	59.2	56.8	58.2	0	100	36	31
SS 560	77			77	58.4			58.4	0	100	33	31
Exsegen Rebekah	77	85		81	59.7	57.3		58.5	0	100	35	32
25W33	77	97	79	84	57.8	56.8	55.0	56.5	0	100	35	33
SS 535 Raxil	77	97	70	81	60.5	59.8	57.0	59.1	0	100	33	34
KY91C-261-28	77	96		86	59.3	58.1		58.7	0	100	36	34
KY90C-054-6	77	96	79	84	58.8	57.5	53.1	56.5	0	100	39	33
KY90C-292-16	76	99	80	85	58.4	58.7	58.5	58.5	0	100	34	31
Exsegen Sarah	75	98		87	58.4	60.1		59.2	0	100	40	39
SS 550	75	90	74	80	58.4	58.2	57.4	58.0	0	100	34	32
SS EXP 564	75			75	58.6			58.6	0	100	34	34
Croplan Genetics 554W	74	101		88	58.1	57.7		57.9	0	100	33	31
Dixie 900	73			73	59.6			59.6	0	100	39	33
25R24	73			73	60.0			60.0	0	100	34	31
Madison	73	96	71	80	59.7	59.3	52.8	57.3	0	100	36	28
Dixie* 9512	73			73	60.4			60.4	0	100	39	32
M94*1549-1	73			73	58.8			58.8	0	100	37	31
Dixie* 9611	72			72	58.9			58.9	0	100	38	34
NK Coker 9663	72	92	60	75	59.5	59.8	58.1	59.1	0	100	38	32
McCormick	71			71	59.9			59.9	0	100	31	33
Century II	71			71	59.5			59.5	0	100	34	32
Beck 102	70			70	59.9			59.9	0	100	36	33
Roane	69	88	71	76	62.5	62.0	58.1	60.9	0	100	32	35
Exsegen Abigail	68			68	56.6			56.6	0	100	29	28
USG 3209	67	97	64	76	60.6	59.7	53.5	57.9	0	100	31	32
NK Coker 9025	65	92	55	71	57.8	56.1	43.7	52.5	0	100	34	35
Clark	64	76	74	71	59.3	58.8	56.2	58.1	0	100	36	32
Sisson	64	91	68	74	58.7	59.5	58.9	59.0	0	100	33	29
Exsegen Esther	63	84		74	57.7	56.8		57.2	0	100	36	31
SS 520	61	93	74	76	57.7	57.4	59.8	58.3	0	100	33	26
Hopewell	61	96		78	59.3	53.2		56.2	0	100	36	37
NK Coker 9474	58	82	66	69	61.4	60.4	56.9	59.6	0	100	34	33
Croplan Genetics 514W	58			58	57.2			57.2	0	100	33	26
NK Coker 9184	54	90		72	61.3	61.5		61.4	0	100	31	34
MEAN	74	93	73	79	59.3	58.8	56.1	58.7	0	100	35	32

CV = 9.6

LSD (0.05) = 8.3

** LOCATION: Logan County.

Table 8b. Wheat Performance Trials for Southern Tier Region, ** 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
25R78	103			103	61.1			61.1	0	100	37	28
25R23	100			100	62.1			62.1	1	100	40	34
25R37	100	90		95	62.2	60.1		61.2	0	100	37	31
25R49	99	98		99	61.3	60.8		61.1	0	100	38	31
SS EXP 564	98			98	59.4			59.4	19	100	37	31
Exsegen Sarah	97	92		95	59.8	58.0		58.9	0	100	41	35
KY90C-054-6	97	94	90	94	60.2	57.0	53.9	57.0	5	100	41	31
Trical 336	97			97	55.1			55.1	0	100	49	33
25R44	96	88		92	60.1	61.5		60.8	0	100	38	32
Agripro Patton	96	94	94	95	61.1	58.1	59.1	59.4	1	100	39	29
25W60	95	86	100	94	59.8	57.7	57.7	58.4	10	100	39	30
KY90C-042-37-1	94	107		101	61.5	60.3		60.9	0	100	39	30
M94*1549-1	94			94	61.6			61.6	9	100	39	30
Beck 110	92			92	61.7			61.7	5	100	40	30
25W33	91	101	91	94	59.0	58.1	54.1	57.1	0	100	37	32
Agripro Foster	91	88	94	91	60.7	57.6	56.1	58.1	0	100	39	32
Exsegen Rebekah	91	85		88	60.1	59.0		59.6	18	100	38	30
VA97W-375ws	91			91	61.0			61.0	0	100	34	27
2552	91		93	92	61.4		57.4	59.4	0	100	37	32
Beck 102	90			90	61.7			61.7	5	100	40	30
Dixie* 9611	90			90	60.7			60.7	0	100	42	33
SS 550	90	102	103	98	61.5	58.6	53.7	57.9	14	100	36	29
KY90C-292-4-1	89	93	95	92	60.0	60.3	57.4	59.2	0	100	37	28
Hopewell	88	84		86	61.8	57.8		59.8	0	100	40	34
Clark	87	79	92	86	61.7	58.7	58.7	59.7	1	100	39	27
Croplan Genetics 554W	87	111		99	59.9	58.4		59.2	0	100	35	29
Roane	87	85	94	89	63.4	59.4	59.5	60.8	21	100	37	29
SS 560	87			87	60.8			60.8	0	100	35	30
Dixie 900	86			86	60.7			60.7	0	100	41	32
KY90C-292-16	85	102	87	91	60.2	59.3	58.1	59.2	0	100	36	29
Dixie* 9512	84			84	61.2			61.2	0	100	40	30
Exsegen Esther	84	94		89	59.1	58.0		58.6	0	100	39	29
McCormick	84			84	62.6			62.6	3	100	33	32
Tribute	83	103		93	63.0	61.5		62.3	9	100	32	31
KY91C-261-28	82	87		85	62.0	56.5		59.3	0	100	38	33
Sisson	82	91	94	89	59.5	58.8	54.8	57.7	46	100	34	28
SS 535 Gaucho	82	99		91	61.0	58.5		59.8	39	100	35	31
NK Coker 9474	81	76	85	81	64.0	59.1	59.5	60.9	0	100	36	29
NK Coker 9663	80	89	100	90	62.4	59.3	60.1	60.6	5	100	38	31
SS 535 Raxil	80	97	97	91	59.9	58.6	59.1	59.2	43	100	35	31
USG 3209	80	90	99	90	59.3	65.1	60.3	61.6	4	100	31	33
SS 520	77	101	101	93	59.5	59.5	58.3	59.1	0	100	36	29
Century II	76			76	60.9			60.9	1	100	35	33
Croplan Genetics 514W	76			76	59.3			59.3	0	100	36	29
25R24	76			76	60.8			60.8	6	100	36	32
NK Coker 9025	75	94	77	82	60.5	59.6	56.4	58.8	50	100	35	34
NK Coker 9184	74	80		77	64.0	62.9		63.5	3	100	35	31
Madison	73	89	94	85	59.3	58.6	56.8	58.2	54	100	38	28
Exsegen Abigail	68			68	61.6			61.6	1	100	30	31
MEAN	87	93	94	90	60.8	59.2	57.4	60.0	8	100	37	31

CV = 6.4

LSD (0.05) = 6.5

** Location: Warren County.

Table 9. Wheat Performance Trials for North Central Region, ** 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
M94*1549-1	79			79	54.6			54.6	0	100	36	36
Dixie 900	78			78	52.7			52.7	0	100	38	35
Agripro Patton	67	93	88	83	54.7	58.4	57.5	56.9	0	100	37	35
Dixie* 9512	67			67	51.8			51.8	0	100	38	34
SS 560	67			67	56.3			56.3	0	100	33	36
Sisson	65	90	83	79	48.3	57.5	55.2	53.7	0	100	32	33
NK Coker 9663	63	89	74	75	54.4	60.1	54.2	56.2	0	100	35	35
KY90C-054-6	63	96	101	87	54.6	58.3	54.9	55.9	0	100	39	38
Clark	62	61	81	68	54.5	57.8	53.0	55.1	0	100	36	34
Tribute	61	84		73	52.0	59.5		55.7	0	100	31	36
Beck 110	61			61	56.4			56.4	0	100	37	36
Croplan Genetics 514W	60			60	54.3			54.3	0	100	34	33
SS 520	60	90	96	82	54.5	57.4	55.9	55.9	0	100	35	32
25R49	59	91		75	54.9	58.7		56.8	0	100	35	36
Croplan Genetics 554W	58	92		75	55.4	57.9		56.7	0	100	35	37
Beck 102	58			58	52.9			52.9	0	100	38	37
Madison	58	75	94	76	54.3	57.6	53.8	55.2	0	100	35	33
Agripro Foster	57	68	89	71	60.6	58.0	56.0	58.2	0	100	38	38
Exsegen Abigail	57			57	53.1			53.1	0	100	28	33
SS 535 Gaucho	56	87		72	53.4	60.1		56.8	0	100	33	35
25R78	56			56	53.1			53.1	0	100	35	35
25R23	54			54	56.7			56.7	0	100	37	41
SS EXP 564	54			54	53.8			53.8	0	100	35	38
VA97W-375ws	54			54	51.5			51.5	0	100	32	36
SS 535 Raxil	53	89	107	83	56.8	60.5	58.0	58.4	0	100	34	35
25R24	53			53	52.4			52.4	0	100	33	34
McCormick	53			53	50.5			50.5	0	100	33	37
Hopewell	53	94		73	56.7	57.2		56.9	0	100	37	40
NK Coker 9474	51	76	81	69	54.3	60.6	57.5	57.5	0	100	33	35
NK Coker 9184	50	85		68	56.4	61.5		59.0	0	100	34	37
2552	50		98	74	53.2		58.9	56.1	0	100	36	38
Exsegen Sarah	48	94		71	57.5	58.4		57.9	0	100	39	43
KY90C-042-37-1	48	84		66	52.9	58.5		55.7	0	100	38	38
SS 550	47	86	93	75	51.5	58.9	56.4	55.6	0	100	33	36
25W33	45	96	117	86	46.8	58.0	52.6	52.5	0	100	34	37
Century II	45			45	53.1			53.1	0	100	32	35
Roane	44	91	96	77	58.7	60.3	57.4	58.8	0	100	37	38
25R37	44	96		70	51.8	60.2		56.0	0	100	35	36
Exsegen Esther	44	77		60	50.2	57.5		53.9	0	100	37	35
USG 3209	43	88	93	75	51.2	58.0	56.8	55.3	0	100	30	35
25W60	43	93	111	82	51.0	56.5	54.7	54.1	0	100	37	36
25R44	42	96		69	53.8	59.8		56.8	0	100	37	38
Exsegen Rebekah	38	86		62	55.2	59.3		57.2	0	100	36	38
KY90C-292-16	35	80	89	68	29.3	58.5	54.4	47.4	0	100	36	35
Dixie* 9611	35			35	54.7			54.7	0	100	39	40
KY90C-292-4-1	34	83	102	73	50.3	58.2	56.2	54.9	0	100	35	36
KY91C-261-28	33	92		63	36.7	57.5		47.1	0	100	37	38
NK Coker 9025	33	89	83	68	53.8	58.5	52.9	55.1	0	100	36	39
Trical 336	29			29	46.9			46.9	0	100	50	40
MEAN	52	87	93	68	52.7	58.7	55.6	54.8	0	100	36	36

CV = 14.9

LSD (0.05) = 8.9

** LOCATION: Shelby County.

Table 10. Wheat Performance Trials for No-till West Kentucky, ** 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
25R23	85			85	63.0			63.0	0	100	38	34
25R49	83	64		73	60.3	54.7		57.5	0	100	35	30
Exsegen Sarah	78	73		75	57.7	54.0		55.9	0	100	39	36
25R37	78	86		82	61.7	58.7		60.2	0	100	34	31
Croplan Genetics 554W	77	74		76	60.1	52.0		56.0	0	100	35	29
25R44	77	74		75	61.1	58.3		59.7	0	100	35	30
Dixie 900	76			76	58.7			58.7	0	100	40	28
KY90C-054-6	76			76	58.2			58.2	0	100	40	31
Exsegen Esther	75	65		70	59.0	58.9		58.9	0	100	36	27
SS EXP 564	75			75	59.9			59.9	0	100	36	31
Trical 336	74			74	52.7			52.7	0	100	47	31
25W33	74	72	122	89	58.1	56.8	58.8	57.9	0	100	34	31
SS 560	74			74	60.0			60.0	0	100	34	30
2552	73		106	90	60.4		60.6	60.5	0	100	36	31
Dixie* 9512	73			73	59.1			59.1	0	100	39	26
25R24	72			72	60.4			60.4	0	100	34	28
25R78	72			72	61.0			61.0	0	100	34	28
Tribute	71	67		69	63.1	58.1		60.6	0	100	32	29
Croplan Genetics 514W	71			71	58.8			58.8	0	100	35	25
NK Coker 9663	71	66	109	82	61.5	58.0	59.2	59.6	0	100	39	27
Beck 110	71			71	62.4			62.4	0	100	39	29
McCormick	71			71	61.9			61.9	0	100	32	30
KY90C-292-4-1	70			70	59.6			59.6	0	100	35	28
VA97W-375ws	70			70	59.8			59.8	0	100	32	27
SS 535 Gaucho	69	71		70	61.0	59.4		60.2	0	100	33	30
25W60	69	70		70	59.5	57.4		58.4	0	100	37	29
Agripro Patton	69	70	81	73	60.0	58.6	59.2	59.3	0	100	37	28
Sisson	69	70	110	83	60.4	59.3	59.2	59.6	0	100	32	26
M94*1549-1	69			69	60.1			60.1	0	100	38	29
SS 550	69	76	111	85	60.4	58.8	58.8	59.3	0	100	33	28
Exsegen Rebekah	68	70		69	61.4	58.2		59.8	0	100	36	30
SS 520	68	69	116	84	59.8	58.7	58.4	59.0	0	100	35	26
Beck 102	68			68	59.9			59.9	0	100	38	29
Century II	68			68	60.1			60.1	0	100	34	29
SS 535 Raxil	68	69	102	80	61.5	59.5	61.2	60.7	0	100	34	30
Dixie* 9611	67			67	59.2			59.2	0	100	39	32
USG 3209	67	72	113	84	60.1	58.1	59.6	59.3	0	100	30	29
Agripro Foster	66	75	112	84	60.4	57.1	58.8	58.8	0	100	36	31
NK Coker 9025	66	55	99	73	60.6	55.4	58.4	58.1	0	100	35	33
Madison	63	71	106	80	58.8	57.4	58.0	58.1	0	100	37	26
NK Coker 9184	62	66		64	61.6	60.7		61.2	0	100	33	30
Roane	62	68	116	82	61.9	60.7	62.4	61.7	0	100	34	31
Hopewell	62	69		66	60.5	55.3		57.9	0	100	37	33
Exsegen Abigail	60			60	60.0			60.0	0	100	28	27
NK Coker 9474	60	65	94	73	62.8	61.0	60.0	61.3	0	100	36	28
Clark	56	59	94	70	59.3	57.7	58.8	58.6	0	100	37	27
MEAN	70	69	106	75	60.2	57.8	59.4	59.4	0	100	36	29

CV = 7.2

LSD (0.05) = 5.9

** LOCATIONS: 2002: Princeton; 2001: Princeton; 2000: Fulton County.

Table 11. Wheat Performance Trials for No-till North Central Region,** 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
M94*1549-1	68			68	56.1			56.1	0	100	37	37
Clark	61	63	86	70	52.2	58.2	54.8	55.1	0	100	34	34
Sisson	57	74	75	68	56.4	59.3	55.4	57.0	0	100	31	34
Croplan Genetics 554W	56	72		64	54.3	57.6		56.0	0	100	32	36
Agripro Foster	56	64	99	73	55.4	59.2	55.9	56.8	0	100	33	38
Dixie* 9512	55			55	53.0			53.0	0	100	35	34
Beck 110	55			55	57.2			57.2	0	100	36	37
Beck 102	54			54	53.0			53.0	0	100	34	36
SS 560	53			53	53.9			53.9	0	100	31	37
Dixie 900	52			52	53.9			53.9	0	100	36	36
Agripro Patton	51	71	76	66	53.4	59.5	56.6	56.5	0	100	33	34
KY90C-054-6	50				55.6				0	100	36	38
25R78	50			50	44.7			44.7	0	100	34	37
NK Coker 9663	49	62	91	68	52.9	60.1	54.1	55.7	0	100	33	36
SS 535 Gaucho	49	76		62	55.4	60.5		58.0	0	100	30	36
SS 535 Raxil	49	71	89	70	54.6	61.0	55.7	57.1	0	100	30	36
Hopewell	48	76		62	55.9	58.5		57.2	0	100	35	40
25R49	48	77		62	52.6	57.9		55.3	0	100	35	38
2552	47		98	72	52.6		58.9	55.8	0	100	34	38
VA97W-375ws	46			46	50.5			50.5	0	100	31	37
25R24	46			46	54.5			54.5	0	100	31	37
Exsegen Esther	45	72		59	48.1	58.9		53.5	0	100	35	36
SS 520	45	81	91	73	53.8	58.8	54.4	55.7	0	100	30	32
NK Coker 9184	45	66		55	54.6	61.1		57.9	0	100	32	38
Exsegen Sarah	45	76		60	57.0	57.7		57.4	0	100	37	42
SS 550	44	73	86	68	51.6	59.0	54.1	54.9	0	100	30	36
Madison	44	64	90	66	50.6	58.8	60.0	56.5	0	100	34	33
Tribute	43	73		58	51.4	59.5		55.5	0	100	30	37
SS EXP 564	42			42	50.4			50.4	0	100	32	39
Exsegen Abigail	42			42	51.7			51.7	0	100	26	33
NK Coker 9474	41	68	85	65	50.6	61.8	56.1	56.2	0	100	32	36
Croplan Genetics 514W	41			41	54.6			54.6	0	100	31	34
Century II	41			41	52.7			52.7	0	100	30	38
Roane	39	66	101	69	56.5	60.2	57.3	58.0	0	100	33	39
25W33	38	76	103	72	50.4	58.6	51.9	53.6	0	100	32	38
25W60	37	80		58	50.5	58.3		54.4	0	100	35	36
McCormick	36			36	53.3			53.3	0	100	31	38
Exsegen Rebekah	36	72		54	51.1	59.3		55.2	0	100	34	37
KY90C-292-4-1	33				44.2				0	100	33	36
25R37	33	81		57	50.9	60.5		55.7	0	100	33	37
USG 3209	33	76	90	66	51.1	57.7	55.3	54.7	0	100	29	39
NK Coker 9025	32	67	93	64	52.5	56.8	53.1	54.1	0	100	34	40
25R44	30	72		51	53.8	58.7		56.3	0	100	34	39
Dixie* 9611	29			29	53.8			53.8	0	100	38	40
25R23	27			27	52.7			52.7	0	100	35	41
Trical 336	24			24	45.5			45.5	0	100	47	40
MEAN	44	72	90	57	52.6	59.1	55.6	54.6	0	100	33	37

CV = 16

LSD (0.05) = 8.3

** LOCATION: Shelby County.

Table 12. Disease Ratings of Wheat Varieties in 2002.

Variety	Fusarium Head Blight			Leaf Blotch 0-5 0=best; 5=worst	Powdery Mildew (0-9) 0=best, 9=worst
	Logan County 0=best; 5=worst	FHB Index			
		Lexington †	Princeton		
Clark	1.7	6.2	21.6	3.0	7.0
Madison	3.7	5.8	21.2	3.0	5.0
Roane	1.0	5.6	7.2	2.7	1.0
Hopewell	1.0	6.7	1.9	3.0	3.0
Sisson	3.3	7.3	24.0	5.0	1.0
Exsegen Esther	3.3	5.7	4.2	4.0	7.0
Exsegen Rebekah	2.0	4.7	10.0	3.0	3.0
Exsegen Sarah	1.0	2.9	4.6	2.3	6.0
Exsegen Abigail	4.0	9.4	***	5.0	**
SS 560	2.0	2.8	***	3.3	**
SS EXP 564	2.3	7.5	***	3.0	**
SS 535 Raxil	2.0	3.7	***	2.3	2.0
SS 535 Gaucho	3.3	7.4	***	2.7	2.0
SS 520	4.0	8.3	***	4.3	**
SS 550	2.3	5.7	***	3.0	**
Agripro Foster	2.0	3.0	16.0	3.0	6.0
Agripro Patton	2.0	4.7	***	3.0	4.0
M94*1549-1	2.0	5.3	20.1	3.7	**
NK Coker 9663	2.0	3.6	5.5	2.7	5.0
NK Coker 9474	1.3	5.6	5.9	3.0	5.0
NK Coker 9025	2.0	4.4	23.2	4.0	5.0
NK Coker 9184	1.7	6.1	9.9	3.7	4.0
Century II	3.0	5.5	16.7	3.0	**
Croplan Genetics 514W	4.0	8.4	26.8	4.3	
Croplan Genetics 554W	2.0	3.9	28.7	3.7	4.0
Beck 102	2.0	6.3	14.0	3.0	**
Beck 110	2.0	5.4	13.8	3.0	**
USG 3209	2.0	6.2	15.3	3.3	2.0
Tribute	1.7	1.5	14.1	3.0	0.0
McCormick	1.0	6.0	3.5	3.0	0.0
VA97W-375ws	3.0	6.4	14.0	3.0	**
25R78	3.0	2.1	16.2	3.0	**
25R23	1.7	3.8	6.0	2.0	**
25R24	3.0	5.5	29.0	3.3	**
25R37	1.0	3.6	6.6	2.7	1.0
25R44	1.3	5.1	10.7	3.0	6.0
25R49	1.7	7.0	6.2	3.0	7.0
25W60	1.7	2.6	4.0	3.0	6.0
25W33	1.0	5.1	2.5	2.7	3.0
2552	2.7	6.8	16.0	3.0	3.0
Dixie 900	1.0	5.3	7.4	3.0	**
Dixie* 9512	1.7	5.1	19.0	3.0	**
Dixie* 9611	1.7	4.3	6.2	2.7	**
Trical 336	0.0	4.9	11.0	2.0	**
KY90C-054-6	1.0	2.9	5.0	3.3	5.0
KY90C-292-4-1	2.3	6.4	13.7	3.0	6.0
KY90C-292-16.	2.0	5.5	19.3	2.7	4.0
KY90C-042-37-1	3.3	8.7	26.0	3.0	4.0
KY91C-261-28	2.3	6.2	14.0	3.0	4.0

† Lexington and Princeton data were collected in an irrigated, inoculated nursery. The FHB index reflects both incidence and severity. Logan County data was based on natural infection, 0 = best, 5 = worst.

** Variety not rated.

*** Poor stand; varieties not evaluated.

Table 13. Characteristics of Barley Tested in 2002.

NAME	PROTECTED	SOURCE	RELEASE DATE	YIELD (BU/A)	TEST WT. (LB/BU)	HEIGHT (IN.)	HEADING DATE
							>APRIL 1
CALLAO	YES	Virginia Tech.	1994	69.0	46.1	25	22
NOMINI	YES	Virginia Tech.	1994	52.0	42.4	33	22
PAMUNKEY	YES	Virginia Tech.	1993	72.0	45.0	31	21
PRICE	NO	Virginia Tech.	2002	77.0	46.9	28	23
VA97B-176	NA	Virginia Tech.	NA	83.0	45.1	27	23
VA97B-388	NA	Virginia Tech.	NA	83.0	46.9	31	25
MEAN				72.7	45.4	29.2	

CV = 10.8
LSD = 6.5

Table 14. Barley Performance Trials for Bluegrass Region*, 1999, 2000, 2002.**

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE >APRIL 1
	2002	2000	1999	MEAN	2002	2000	1999	MEAN				
CALLAO	42	62	108	71	44.0	45.7	49.3	46.3	0	100	25	24
NOMINI	52			52	42.0			42.0	0	100	35	25
PAMUNKEY	40	55	107	67	39.0	45.3	50.8	45.0	0	100	32	23
PRICE	36			36	47.0			47.0	0	100	28	26
VA97B-176	51			51	40.0			40.0	0	100	26	26
VA97B-388	45			45	43.0			43.0	0	100	33	29
MEAN	44	59	108	54	43	46	50	44	0	100	30	26

CV = 27.5
LSD (0.05) = 15.0
*LOCATION: Spindletop Farm, Lexington.
**2001 Test Was Not Harvested Due to Poor Emergence.

Table 15. Barley Performance Trials for Western Coal Field Region,* 1999, 2000, 2001.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGED %				SURVIVAL 2001	HEIGHT 2001	HEADING DATE 2001
	2001	2000	1999	MEAN	2001	2000	1999	MEAN	2001	2000	1999	MEAN			
CALLAO	87	98	79	88	46.7	44.8	44.5	45.3	81	6	23	37	100	25	25-Apr
NOMINI	104			104	45.7			45.7	0			0	100	36	24-Apr
PAMUNKEY	82	80	102	88	45.3	47.1	48.6	47.0	30	0	8	13	100	33	24-Apr
STARLING	101	74	81	85	43.6	41.1	44.7	43.1	13	6	18	12	100	36	27-Apr
VA96-44-304	97			97	47.3			47.3	30			30	100	28	26-Apr
PRICE	105			105	47.6			47.6	8			8	100	30	26-Apr
VA96B-248	105			105	47.9			47.9	0			0	100	29	27-Apr
VA97B-176	109			109	47.6			47.6	15			15	100	28	26-Apr
VA97B-178	87			87	47.3			47.3	21			21	100	28	26-Apr
VA97B-388	113			113	46.6			46.6	0			0	100	33	28-Apr
MEAN	99	84	87	99	92.2	90.5	92.1	93.3	20	4	16	12	100	31	

CV = 10.5
LSD = 12.6
* LOCATION: Princeton.

Table 15a. Barley Performance Trials for Southern Tier Region,* 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING % 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE > APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
CALLAO	73	85	61	73	49.0	49.1	48.9	49.0	0	100	26	21
NOMINI	22	103		63	41.0	47.5		44.3	0	100	33	20
PAMUNKEY	80	90	55	75	49.0	48.0	48.4	48.5	0	100	30	21
PRICE	88	134		111	47.0	49.0		48.0	0	100	28	23
VA97B-176	92	113		103	48.0	48.0		48.0	0	100	28	22
VA97B-388	106	131		119	48.0	49.2		48.6	0	100	31	24
MEAN	77	109	58	90	47	48	49	48	0	100	29	22

CV = 10.2

LSD = 9.4

* LOCATION: Logan County.

Table 15b. Barley Performance Trials for Southern Tier Region,* 2000 - 2002.

VARIETY	YIELD (BU/A)				TEST WT. (LB/BU)				LODGING (%) 2002	SURVIVAL (%) 2002	HEIGHT (IN.) 2002	HEADING DATE >APRIL 1
	2002	2001	2000	MEAN	2002	2001	2000	MEAN				
CALLAO	93	69	127	96	45.8	47.8	44.6	46.1	74	100	25	20
NOMINI	81	110			44.5	46.6			0	100	33	20
PAMUNKEY	95	92	121		47.3	47.0	46.4		14	100	31	19
PRICE	106	120			47.1	48.9			0	100	27	20
VA97B-176	105	100			47.2	48.0			23	100	26	21
VA97B-388	96	105			49.8	49.2			1	100	31	20
MEAN	96	99	124	96	47.0	47.9	45.5	46.1	19	100	29	20

CV = 6.0

LSD = 7.1

* LOCATION: Warren County.

Mention or display of a trademark, proprietary product, or firm in text or figures does not constitute an endorsement and does not imply approval to the exclusion of other suitable products or firms.



The College of Agriculture is an Equal Opportunity Organization

Issued 8-2002—6500 copies