

# 2022 Kentucky Small Grain VARIETY PERFORMANCE TRIAL

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

The 2022 soft red winter wheat growing season ended with Kentucky farmers harvesting approximately 400,000 acres of the 540,000 acres planted, for a total production of 30.8 million bushels of grain. An average yield of 77 bushels per acre was estimated by the National Agricultural Statistics Service (Table 1). The acreage not harvested for grain was primarily used for forage production and cover cropping.

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

Seven wheat performance trials 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. Barley, oat, triticale, cereal rye and spelt varietal performance was evaluated at one location. In addition, wheat trials for varietal differences in forage yield and straw yield were conducted at one location.

## Experimental Methods

A total of 84 wheat entries were evaluated under either conventional or no-till cultural practices. No-till trials were grown at three locations, and conventional trials were grown at four locations. The experimental design was a randomized complete block. The trials had four replications per entry, and the data presented are the average response from the four replications.

The plots were planted with specially built multi-row conventional and no-till cone seeders. Conventional trial plots consisted of six rows to form a plot 4 feet wide and 15 feet long, which was later trimmed to 12 feet in length. No-till plots consisted of seven rows to form a plot 5 feet wide and 25 feet long, which was later trimmed to 22 feet in length. Plots were harvested with a small-plot combine. The preceding crop for all trials was corn.

Trials were conducted using intensive management practices. Typical herbicide applications included a spring application for broadleaf control and a fall preplanting burn-down (no-till trials only) application. Fungicides were applied in the spring on all but

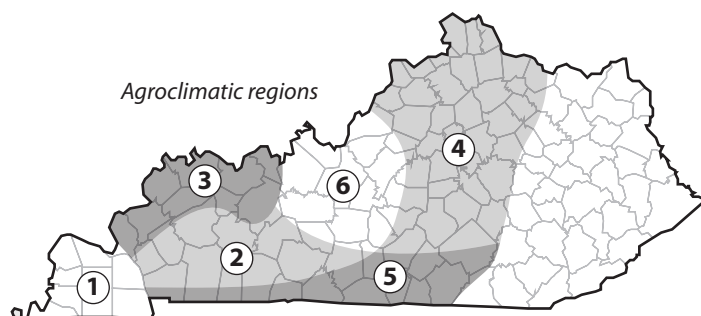
two (disease rating) trials. An insecticide for aphid control was typically applied in the fall and spring. Nitrogen was applied in a February/March split application at a rate of approximately 30/60 pounds per acre (conventional trials) or 40/70 pounds per acre (no-till).

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

**Table 1. Wheat Acreage Harvested and Yields (bu/ac) in Kentucky, 2020-22.\***

2022		2021		2020	
Harvested	Yield	Harvested	Yield	Harvested	Yield
400,000	77	370,000	87	340,000	63

\*July 12, 2022, National Agricultural Statistics Service.



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

Region	Location	Cooperator	Crop Tested	
1	Purchase	Fulton Co.	Henry Sanger	No-till wheat
2	Western Coal Field	Caldwell Co.	Princeton Research and Education Ctr.	Wheat*, barley
3	Ohio Valley	Webster Co.	Bruce and Jeremy Benson	No-till wheat
4	Bluegrass	Fayette Co.	Kentucky Ag. Exp. Station	Wheat*, small grains
5	Southern Tier	Logan Co.	Halcomb Farm	Wheat*
		Christian Co.	Brandon Hunt	No-till wheat
6	North Central	Woodford Co.	UK Woodford Farm Shannon Rudd	Wheat*

\* Conventional tillage.

## Characteristics Evaluated

Grain yields were calculated from the weight of grain from each plot and reported in bushels per acre (bu/ac) based on 60-pound, 56-pound, 48-pound, and 32-pound standard bushel weights for wheat, cereal rye, barley, and oats, respectively, at 13.5 percent moisture content. Test weights (lb/bu) were determined using a HarvestMaster Classic GrainGage and adjusted to 13.5 percent moisture. Lodging was reported as the percentage of plant lodging at maturity; winter survival was reported as the percentage of survival after spring green-up. Winter survival was 100 percent for all trials, except oats. Plant height was measured in inches from the soil surface to the top of the grain head. Heading dates were reported as the day an estimated 50 percent of the heads had extended above the flag leaf collar. Disease ratings: Leaf rust, leaf blotch and head scab were rated at both the Fayette County trial and the Logan County trial. Powdery mildew, glume blotch and stripe rust were rated at the Fayette County trial.

Forage and straw yields are expressed as dry matter in tons per acre. Winter cover crop ground cover/biomass values were measured using the Canopeo app at the Fayette County wheat trial on 1-6-2022.

## Results and Interpretation

Since genetic expression of a variety is greatly influenced by environmental conditions, it is best to have several years' data at multiple locations from which to draw conclusions. Performance of a variety tested for only one year should not be compared with a multi-year average of another variety because it is possible that results in one of the other years were extremely good or poor and thus not comparable. Data from 2020 were not included because of widespread freeze damage across the state in that year.

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 trial should not be interpreted to indicate the superiority of one variety over another. However, if one variety consistently outyields another over a period of several years, the chances are that the differences are real. LSD (least significant difference) values are listed at the bottom of table columns to indicate whether differences are statistically significant.

Lodging data are difficult to interpret. A high-yielding variety should not necessarily be downgraded because of a high percentage of lodging for a given year at a given location. Local weather conditions, such as wind and rain, may cause a variety to lodge much more than it normally does. Variety trials normally have a greater degree of lodging than do farmer fields. It also should be emphasized that a variety reported to be 50 percent lodged does not imply that only 50 percent of the grain could be harvested. With good equipment, most of the grain can often be saved.

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

Winter barley is less winter-hardy than winter wheat but more hardy than winter oats. The degree of winter-hardiness, straw strength, and maturity are important characteristics when choosing a variety. Barley (hulless, malting, and traditional hulled) variety performance data is presented in Table 14. Triticale, cereal rye, oat, and spelt variety performance data are presented in Tables 15, 16, 17, and 18 respectively.

## Trial Conditions

Average temperature and below normal precipitation in October favored timely planting of the wheat variety trials. The 2022 Kentucky small grain variety tests were planted from October 14 to October 23. Cooler and dryer conditions in November were followed by well above average temperatures and precipitation levels in December, which promoted vegetative growth and development. January had below normal temperatures and precipitation. February had normal temperatures and precipitation. March brought above average temperatures and below average precipitation, which reinitiated plant growth and development. April had below normal temperatures and above average precipitation, which slowed reproductive development until May brought much warmer temperatures and higher levels of precipitation. June was hot and dry, which accelerated wheat maturity and dry-down and favored a timely harvest period.

## Acknowledgments

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## Wheat Varieties Tested in 2022

### AgriMAXX Wheat Co.

AgriMAXX 454  
AgriMAXX 492  
AgriMAXX 503  
AgriMAXX 505  
AgriMAXX 511  
AgriMAXX 513  
AgriMAXX 514  
AgriMAXX 516  
AgriMAXX 525  
AgriMAXX EXP 2105

### Winfield United

CROPLAN CP8022  
CROPLAN CP8045  
CROPLAN CP8081

### Dyna-Gro/Nutrien Ag Solutions

Dyna-Gro 9002  
Dyna-Gro 9120  
Dyna-Gro 9151  
Dyna-Gro 9172  
Dyna-Gro 9352  
Dyna-Gro 9393  
Dyna-Gro 9692  
Dyna-Gro WX20738  
Dyna-Gro WX21741

### Growmark, Inc.

GROWMARK FS 597  
GROWMARK FS 600  
GROWMARK FS 603  
GROWMARK FS 616  
GROWMARK FS 623  
GROWMARK FS 624  
GROWMARK FS 745  
GROWMARK FS WX22A  
GROWMARK FS WX22B

### Grow Pro Genetics

GP 348  
GP 381  
GP 463  
GP 709  
GP 747  
SY 100  
SY 547  
SY Viper

### Kentucky American Seed, Inc.

KAS 20X29  
KAS 21X56  
KAS 21X60  
KAS 21X61  
KAS Reagan

### Kentucky Foundation Seed Project

X11-0039-1-17-5  
X11-0120-12-4-3  
X11-0170-52-3-3  
X11-0414-116-11-3  
X12-256-56-8-1  
X12-3010-4-4-1  
X12-3014-46-7-3  
X12-3024-47-4-5  
X12-3048-52-18-3  
X12-3051-53-17-3  
X12-3072-55-13-5  
X12-3114-65-7-1  
X12-924-40-7-5

### Kentucky Small Grain Growers Association

PEMBROKE 2016  
PEMBROKE 2021

### KWS Cereals

KWS394  
KWS398  
KWS403  
KWS405  
KWS411  
KWS419

### LOCAL SEED

Revere 2169  
Revere 2266

### Michigan State University

MI19R0003  
MI19R0347

### Stratton Seed

Go Wheat 4059S  
Go Wheat 6056  
Go Wheat 2058  
Go Wheat 2059

### University of Missouri

Truman

### UniSouth Genetics

USG 3352  
USG 3472  
USG 3783

### Virginia Crop Improvement Association

Liberty 5658  
VA 17W-75

### Williamsfield Seed Company

WSC 2720  
WSC 3400  
WSC 3506

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**Table 3. 2022 Kentucky Wheat Variety Trial - State Summary.\***

Variety	Yield (bu/a)		Test Wt. (lb/bu)	Height (In)	Heading Date > April 1	Lodging (%)
	2022	2021-22	2022	2022	2022	2022
KWS403	107.0		60.2	35	34	0
KAS Reagan	105.6		59.5	36	34	0
KAS 21X60	104.3		61.0	37	34	2
Dyna-Gro WX21741	104.0	94.8	61.7	38	33	4
GROWMARK FS WX22B	103.9		61.5	38	33	2
Dyna-Gro WX22793	103.8		61.0	37	34	4
AgriMAXX 525	103.7		61.7	36	35	1
KWS394	102.9		60.1	34	34	2
Revere 2266	102.6		59.6	36	34	0
KAS 20X29	102.4	92.3	61.7	38	33	10
KWS398	101.1		61.1	36	36	0
Dyna-Gro 9151	101.0	90.2	63.7	37	33	3
GROWMARK FS 600	100.8	90.4	63.4	37	34	0
CROPLAN CP8022	100.0		61.1	36	34	3
USG 3472	99.9	89.7	61.1	36	34	0
KAS 21X56	99.7		60.1	37	33	2
GROWMARK FS 745	99.6	87.7	60.8	36	34	4
Dyna-Gro 9172	99.5	88.8	61.2	36	34	4
AgriMAXX 513	99.3	88.5	62.5	37	33	3
AgriMAXX 505	99.2	89.6	63.5	37	33	5
AgriMAXX EXP 2105	99.1		60.7	38	35	4
Dyna-Gro 9692	99.1	89.7	60.6	37	34	4
Dyna-Gro 9393	98.9		60.6	35	33	0
AgriMAXX 514	98.9	88.9	59.8	37	34	7
AgriMAXX 503	98.8	89.7	61.4	39	34	1
GROWMARK FS 624	98.4	88.9	61.7	39	35	2
USG 3352	98.4	91.2	61.0	37	36	2
X11-0039-1-17-5	98.3	91.8	60.3	35	31	0
GROWMARK FS 623	98.2	89.3	61.7	38	34	6
Dyna-Gro 9120	98.2	89.0	62.7	36	31	0
GP 747	98.0		57.5	36	34	13
KWS405	98.0		62.1	36	33	0
CROPLAN CP8045	97.8		61.0	36	34	2
SY 100	97.7	88.9	57.8	35	33	3
Revere 2169	97.3	87.3	61.1	36	33	0
AgriMAXX 454	97.2	89.2	60.5	37	34	4
PEMBROKE 2021	97.2	89.3	61.3	36	31	6
KWS419	97.1		61.6	40	34	1
Dyna-Gro 9352	96.7		59.6	36	32	7
KWS411	96.7		62.8	36	31	3
AgriMAXX 511	96.6	86.9	59.1	36	34	5
CROPLAN CP8081	96.5		60.4	36	31	9
X11-0120-12-4-3	96.4	90.7	60.4	35	35	2
AgriMAXX 516	96.0	85.1	60.9	36	33	1

*continued*

**Table 3. (continued)**

Variety	Yield (bu/a)		Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)
	2022	2021-22	2022	2022	2022	2022
GROWMARK FS 616	95.7	86.6	61.9	38	34	6
KAS 21X61	95.5		59.8	36	32	6
USG 3783	95.3		60.7	35	33	4
SY Viper	95.3	85.5	61.1	38	30	15
Go Wheat 6056	95.2		60.9	35	33	2
WSC 3506	95.1	88.7	58.6	35	33	1
SY 547	95.1	86.2	61.0	39	32	3
GROWMARK FS WX22A	94.9		61.6	36	36	3
Dyna-Gro WX20738	94.5	89.0	60.7	36	30	7
GP 381	94.1		59.9	34	32	5
GP 463	94.0		59.7	35	33	7
GROWMARK FS 597	93.9		60.8	36	30	6
X12-265-56-8-1	93.8		60.7	36	32	1
Liberty 5658	93.7	87.3	60.8	36	30	5
WSC 2720	93.5	88.9	57.8	35	32	5
Go Wheat 2059	93.5	87.0	59.3	35	32	8
WSC 3400	93.1	83.2	60.8	38	35	1
X11-0170-52-3-3	93.1	85.7	60.3	37	35	9
Dyna-Gro 9002	93.1	86.5	59.9	37	32	7
GROWMARK FS 603	92.9		61.3	36	33	0
X12-3114-65-7-1	92.1		60.3	36	32	2
X11-0414-116-11-3	91.8		60.2	38	31	1
Go Wheat 4059S	91.4	83.4	62.1	36	35	0
Go Wheat 2058	91.2	84.3	60.6	32	31	0
X12-3051-53-17-3	90.5	84.9	57.7	33	32	7
MI19R0347	89.7		61.0	38	35	3
X12-3010-4-4-1	89.3	84.4	60.8	39	35	5
PEMBROKE 2016	88.7	81.8	61.2	34	30	9
X12-924-40-7-5	88.5		61.9	34	31	6
MI19R0003	87.6		57.5	33	28	10
VA17W-75	86.6		61.7	35	29	11
X12-3014-46-7-3	85.7		60.2	35	31	1
GP 348	85.3		62.4	33	28	10
X12-3048-52-18-3	85.2		59.4	34	32	9
Truman	84.7	77.4	61.0	42	39	3
AgriMAXX 492	84.5	78.9	61.9	34	29	4
X12-3024-47-4-5	84.2		60.3	34	31	7
X12-3072-55-13-5	84.1		60.6	35	31	6
GP 709	77.5		60.8	34	28	13
<b>Average</b>	<b>95.4</b>	<b>87.3</b>	<b>60.7</b>	<b>36</b>	<b>33</b>	<b>4</b>
C.V. (%)	6.3	8.3				
LSD (0.10)	3.8	6.7				

\* Summary of seven trials - (Caldwell, Logan, Christian, Fulton, Webster, Woodford, and Fayette counties).



**Table 4. 2022 Kentucky Wheat Variety Forage / Cover Crop Trial.**

Variety	Soft Dough Stage Dry Matter (tons/a)		Cover Crop* Canopy (%)	Head Type
	2022	2021-22	2022	
Dyna-Gro WX21741	5.86	4.48	69	Bearded
KAS 20X29	5.62	4.70	69	Bearded
AgriMAXX 525	5.41		65	Bearded
Dyna-Gro WX22793	5.33		68	Bearded
KAS Reagan	5.31		71	Bearded
MI19R0347	5.30		80	Awnless
Revere 2266	5.28		69	Bearded
KWS398	5.25		66	Awnless
GP 747	5.23		79	Bearded
KWS394	5.21		75	Awnless
X11-0120-12-4-3	5.18	4.32	78	Awnless
AgriMAXX 513	5.16	3.94	69	Bearded
GROWMARK FS WX22B	5.05		74	Bearded
Dyna-Gro 9120	4.99	3.99	65	Bearded
X11-0170-52-3-3	4.98	3.95	83	Awnless
GROWMARK FS WX22A	4.92		71	Bearded
Dyna-Gro 9692	4.87	4.10	72	Bearded
KAS 21X60	4.83		68	Bearded
Dyna-Gro 9393	4.83		72	Bearded
Dyna-Gro 9172	4.82	3.82	64	Bearded
GROWMARK FS 616	4.82	3.92	79	Bearded
KWS403	4.79		76	Awnless
AgriMAXX 454	4.75	4.05	70	Bearded
KAS 21X56	4.72		74	Bearded
X12-265-56-8-1	4.67		78	Bearded
Dyna-Gro 9352	4.66		71	Awnless
GROWMARK FS 624	4.65	3.80	69	Awnless
AgriMAXX 511	4.64	3.76	74	Bearded
X11-0039-1-17-5	4.64	3.77	81	Awnless
AgriMAXX EXP 2105	4.63		62	Bearded
USG 3783	4.61		69	Bearded
GROWMARK FS 745	4.61	3.74	65	Bearded
AgriMAXX 505	4.60	3.84	72	Bearded
X12-3051-53-17-3	4.59	3.93	73	Tip-Awned
CROPLAN CP8045	4.59		65	Bearded
AgriMAXX 516	4.58	3.58	68	Bearded
GROWMARK FS 600	4.58	3.88	71	Bearded
GROWMARK FS 603	4.58		67	Bearded
Dyna-Gro 9151	4.58	3.77	72	Bearded
CROPLAN CP8081	4.58		80	Bearded
SY 547	4.53	3.65	73	Awnless
AgriMAXX 514	4.52	3.65	64	Bearded
KWS419	4.49		73	Bearded
X12-3010-4-4-1	4.49	3.74	70	Tip-Awned
GP 463	4.49		69	Awnless
Go Wheat 4059S	4.43	3.64	61	Awnless

Variety	Soft Dough Stage Dry Matter (tons/a)		Cover Crop* Canopy (%)	Head Type
	2022	2021-22	2022	
KAS 21X61	4.43		73	Awnless
Go Wheat 6056	4.43		62	Bearded
X12-3114-65-7-1	4.43		68	Awnless
X12-924-40-7-5	4.37		78	Bearded
WSC 3506	4.35	3.63	75	Tip-Awned
USG 3472	4.33	3.32	67	Bearded
Go Wheat 2059	4.32	3.79	79	Awnless
Truman	4.29	3.63	75	Awnless
AgriMAXX 503	4.29	3.42	71	Awnless
KWS411	4.26		74	Bearded
CROPLAN CP8022	4.25		60	Bearded
X12-3024-47-4-5	4.23		80	Awnless
GROWMARK FS 623	4.21	3.63	72	Awnless
PEMBROKE 2021	4.18	3.67	80	Awnless
WSC 3400	4.17	3.70	62	Awnless
X12-3072-55-13-5	4.14		81	Awnless
VA17W-75	4.14		86	Awnless
Revere 2169	4.11	3.54	64	Bearded
SY Viper	4.10	3.44	78	Awnless
GP 348	4.10		77	Awnless
Go Wheat 2058	4.09	3.17	61	Bearded
KWS405	4.07		72	Awnless
GROWMARK FS 597	4.04		73	Bearded
SY 100	4.03	3.05	81	Awnless
MI19R0003	4.03		77	Tip-Awned
X12-3014-46-7-3	4.00		77	Awnless
USG 3352	3.99	3.56	65	Bearded
GP 381	3.98		68	Awnless
PEMBROKE 2016	3.96	3.55	80	Bearded
Dyna-Gro WX20738	3.95	3.50	75	Bearded
X12-3048-52-18-3	3.90		74	Awnless
X11-0414-116-11-3	3.89		74	Awnless
Dyna-Gro 9002	3.81	3.32	69	Bearded
Liberty 5658	3.81	3.45	87	Bearded
AgriMAXX 492	3.72	3.77	68	Bearded
WSC 2720	3.72	2.87	67	Awnless
GP 709	3.72		88	Bearded
<b>Average</b>	<b>4.52</b>	<b>3.71</b>	<b>72</b>	
C.V. (%)	9.66	11.71	8	
LSD (0.10)	0.72	0.54	9	

**Location:** Bluegrass Region - (Fayette County)

**Planting date:** 10-14-2021; conventional tillage.

**Dry matter yield harvest date at soft dough stage:** 5-24-2022.

\* Winter cover crop / grazing biomass estimate (% canopy coverage using Canopeo): measured: 1-6-2022.

*continued*

**Table 5. 2022 Kentucky Wheat Variety Straw Trial.**

Variety	DM Straw Yield* tons/acre		State Average*
	2022	2021-22	Grain Yield (bu/a)
Dyna-Gro WX21741	2.02	2.39	104.0
X12-3010-4-4-1	1.96	1.87	89.3
MI19R0347	1.94		89.7
SY 547	1.85	1.92	95.1
AgriMAXX 525	1.82		103.7
GP 747	1.80		98.0
GROWMARK FS WX22B	1.79		103.9
KAS 20X29	1.79	1.98	102.4
GROWMARK FS 624	1.76	1.99	98.4
WSC 3400	1.74	2.27	93.1
AgriMAXX EXP 2105	1.73		99.1
GROWMARK FS WX22A	1.68		94.9
CROPLAN CP8045	1.64		97.8
Go Wheat 6056	1.63		95.2
KWS398	1.63		101.1
AgriMAXX 505	1.62	2.00	99.2
Truman	1.62	2.40	84.7
X11-0414-116-11-3	1.61		91.8
Dyna-Gro 9692	1.60	2.06	99.1
USG 3472	1.59	1.70	99.9
Dyna-Gro 9151	1.58	1.85	101.0
GROWMARK FS 616	1.58	1.97	95.7
GROWMARK FS 745	1.57	1.66	99.6
Revere 2266	1.57		102.6
Dyna-Gro 9172	1.56	1.74	99.5
GROWMARK FS 600	1.56	1.92	100.8
KAS 21X56	1.55		99.7
X11-0120-12-4-3	1.55	1.69	96.4
X11-0170-52-3-3	1.55	1.74	93.1
Dyna-Gro 9393	1.54		98.9
Dyna-Gro 9120	1.51	1.97	98.2
AgriMAXX 513	1.50	1.94	99.3
AgriMAXX 516	1.50	1.75	96.0
KWS394	1.49		102.9
USG 3783	1.49		95.3
Dyna-Gro WX22793	1.48		103.8
KWS403	1.48		107.0
KAS Reagan	1.47		105.6
Revere 2169	1.47	1.74	97.3
AgriMAXX 503	1.46	1.69	98.8
Go Wheat 4059S	1.46	1.65	91.4
KWS419	1.46		97.1
AgriMAXX 514	1.45	2.06	98.9
KAS 21X60	1.44		104.3
X11-0039-1-17-5	1.44	1.78	98.3
AgriMAXX 454	1.43	1.91	97.2

Variety	DM Straw Yield* tons/acre		State Average*
	2022	2021-22	Grain Yield (bu/a)
SY Viper	1.41	2.14	95.3
WSC 3506	1.39	1.62	95.1
X12-265-56-8-1	1.38		93.8
Go Wheat 2059	1.37	1.55	93.5
KWS411	1.36		96.7
GROWMARK FS 623	1.35	1.52	98.2
AgriMAXX 511	1.34	2.01	96.6
GP 381	1.34		94.1
CROPLAN CP8081	1.31		96.5
CROPLAN CP8022	1.30		100.0
PEMBROKE 2021	1.29	1.64	97.2
KAS 21X61	1.28		95.5
X12-924-40-7-5	1.28		88.5
PEMBROKE 2016	1.27	1.38	88.7
GP 463	1.26		94.0
USG 3352	1.26	1.92	98.4
VA17W-75	1.25		86.6
MI19R0003	1.24		87.6
Go Wheat 2058	1.23	1.48	91.2
X12-3014-46-7-3	1.22		85.7
GROWMARK FS 597	1.21		93.9
Dyna-Gro 9352	1.20		96.7
GP 709	1.20		77.5
KWS405	1.20		98.0
GROWMARK FS 603	1.19		92.9
X12-3072-55-13-5	1.19		84.1
Dyna-Gro 9002	1.18	1.27	93.1
GP 348	1.18		85.3
X12-3114-65-7-1	1.18		92.1
Liberty 5658	1.14	1.42	93.7
X12-3048-52-18-3	1.12		85.2
SY 100	1.11	1.48	97.7
WSC 2720	1.09	1.40	93.5
X12-3024-47-4-5	1.08		84.2
Dyna-Gro WX20738	1.05	1.64	94.5
X12-3051-53-17-3	0.99	1.50	90.5
AgriMAXX 492	0.86	1.62	84.5
<b>Average</b>	<b>1.43</b>	<b>1.79</b>	<b>95.4</b>
C.V. (%)	14.29	24.58	6.3
LSD (0.10)	0.34	0.48	3.8

**Location:** Bluegrass Region - (Fayette County)

**Planting date:** 10-15-2021; Conventional tillage.

**Harvest date:** 6-20-2022.

\* Dry matter straw yield following grain harvest.

\* Average grain yield of seven trials - (Caldwell, Logan, Christian, Fulton, Webster, Woodford, and Fayette counties).

*continued*

**Table 6. 2022 Kentucky Wheat Variety Disease Ratings.**

Variety	Leaf Blotch	Head Scab	Glume Blotch	Powdery Mildew	Leaf Rust	Stripe Rust
AgriMAXX 454	5.3	3.6	2.0	6.5	4.2	**
AgriMAXX 492	8.4	5.7	2.0	1.0	1.2	
AgriMAXX 503	4.3	2.0	2.8	3.8	1.5	
AgriMAXX 505	4.5	3.5	4.3	3.0	4.0	
AgriMAXX 511	4.1	2.4	2.9	3.0	1.3	
AgriMAXX 513	5.3	2.3	3.0	1.0	2.0	
AgriMAXX 514	6.0	3.5	3.4	1.3	2.0	
AgriMAXX 516	5.5	3.5	2.8	3.0	2.2	
AgriMAXX 525	4.4	3.3	2.3	2.0	2.2	
AgriMAXX EXP 2105	3.6	4.0	3.3	1.5	1.2	
CROPLAN CP8022	3.8	3.9	2.0	2.3	2.5	
CROPLAN CP8045	5.5	3.1	3.3	3.8	1.5	
CROPLAN CP8081	5.3	5.1	2.0	6.3	2.5	
Dyna-Gro 9002	5.4	5.2	2.8	5.5	1.8	
Dyna-Gro 9120	5.6	4.6	3.3	1.3	1.8	
Dyna-Gro 9151	4.9	3.2	5.3	2.8	1.8	
Dyna-Gro 9172	6.0	4.0	2.8	2.5	1.6	
Dyna-Gro 9352	5.8	3.4	5.8	2.3	2.8	
Dyna-Gro 9393	6.5	4.9	2.0	3.5	1.2	
Dyna-Gro 9692	5.3	4.3	2.0	8.5	3.8	
Dyna-Gro WX20738	7.0	4.3	2.8	2.5	1.0	
Dyna-Gro WX21741	4.5	3.3	5.0	3.0	2.0	
Dyna-Gro WX22793	4.5	4.9	2.0	2.3	4.2	**
Go Wheat 2058	7.0	6.1	3.0	1.0	2.0	
Go Wheat 2059	6.0	2.0	2.3	3.3	2.3	
Go Wheat 4059S	4.9	2.5	3.8	2.0	1.5	
Go Wheat 6056	5.9	3.2	3.3	2.3	1.8	
GP 348	5.6	6.1	4.8	1.3	2.8	
GP 381	5.0	5.0	3.8	1.3	3.3	
GP 463	5.1	2.9	3.0	4.5	1.5	**
GP 709	5.9	5.3	3.0	1.0	2.7	
GP 747	4.3	4.4	2.3	4.0	2.3	
GROWMARK FS 597	6.8	4.3	3.0	3.8	1.3	
GROWMARK FS 600	4.8	3.6	4.8	3.3	3.5	
GROWMARK FS 603	5.3	2.5	5.3	5.3	2.2	
GROWMARK FS 616	4.6	3.8	5.8	2.3	2.1	
GROWMARK FS 623	4.1	1.6	2.8	3.5	1.5	
GROWMARK FS 624	6.4	3.8	7.5	5.5	1.7	
GROWMARK FS 745	5.3	3.8	2.8	2.5	2.8	
GROWMARK FS WX22A	4.8	3.3	4.0	1.3	1.5	
GROWMARK FS WX22B	5.0	3.1	4.5	2.3	1.2	
KAS 20X29	4.4	3.2	3.5	1.3	2.2	
KAS 21X56	5.3	3.8	3.5	1.3	1.7	
KAS 21X60	5.1	4.4	1.8	2.0	3.5	**

*continued*



**Table 6. (continued)**

Variety	Leaf Blotch	Head Scab	Glume Blotch	Powdery Mildew	Leaf Rust	Stripe Rust
KAS 21X61	5.5	3.8	5.5	2.3	2.5	
KAS Reagan	5.8	3.6	4.3	1.8	1.5	
KWS394	3.6	2.2	2.5	1.8	2.3	**
KWS398	4.7	2.0	2.0	3.5	1.3	
KWS403	3.3	2.6	3.0	1.0	3.8	**
KWS405	4.4	3.8	4.0	4.8	1.3	
KWS411	5.8	4.8	2.3	1.3	2.9	
KWS419	5.1	2.4	1.8	1.8	2.0	
Liberty 5658	6.1	4.4	3.3	3.0	1.7	
Revere 2169	5.6	3.2	3.0	3.5	2.8	
Revere 2266	5.6	3.6	5.3	1.0	2.3	
MI19R0003	8.4	7.6	3.3	1.3	2.0	
MI19R0347	4.6	4.0	3.3	2.3	2.3	
PEMBROKE 2016	7.1	4.7	2.3	2.5	2.2	
PEMBROKE 2021	6.4	5.5	2.5	2.0	3.2	
SY 100	6.3	5.3	4.0	2.7	2.1	
SY 547	4.1	4.8	2.5	1.0	3.2	
SY Viper	6.3	5.3	2.5	2.0	2.2	
Truman	5.0	1.5	2.0	1.5	3.7	
USG 3352	4.3	3.5	3.0	2.3	1.5	
USG 3472	5.1	3.2	2.3	4.5	3.0	
USG 3783	6.1	4.3	3.0	3.8	2.0	
VA17W-75	5.9	5.1	2.5	1.0	1.0	
WSC 2720	6.5	5.5	1.5	1.3	4.0	
WSC 3400	3.8	3.6	2.5	1.8	3.5	
WSC 3506	4.8	5.9	3.5	2.8	6.2	
X11-0039-1-17-5	7.3	5.3	2.0	2.0	3.5	
X11-0120-12-4-3	5.1	3.2	1.5	1.8	1.5	
X11-0170-52-3-3	5.6	3.0	2.3	4.5	1.0	
X11-0414-116-11-3	7.0	6.3	2.5	1.8	1.2	
X12-265-56-8-1	5.4	3.2	1.5	3.3	3.5	
X12-3010-4-4-1	2.6	4.2	2.5	1.3	1.2	**
X12-3014-46-7-3	5.8	4.6	2.0	1.0	1.0	
X12-3024-47-4-5	5.3	4.3	2.0	1.5	1.0	
X12-3048-52-18-3	5.5	5.4	2.5	2.0	2.7	
X12-3051-53-17-3	5.1	5.2	2.0	1.8	2.8	
X12-3072-55-13-5	5.0	4.5	2.5	1.0	1.0	
X12-3114-65-7-1	5.9	5.5	2.5	2.5	1.2	
X12-924-40-7-5	6.6	3.6	2.5	2.3	1.2	
<b>Average</b>	<b>5.4</b>	<b>4.0</b>	<b>3.0</b>	<b>2.5</b>	<b>2.2</b>	

**Disease Rating scale:** 1 = resistant; 9 = susceptible.

Leaf Blotch, Head Scab and Leaf Rust rated at Fayette County and Logan County.

Powdery Mildew, Glume Blotch and Stripe Rust rated at Fayette County.

\*\* Stripe Rust observed in multiple plots.

**Table 7. 2022 Kentucky Wheat Trial - Purchase Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
KWS398	112.4	60.2	36	33	0	101.1
USG 3472	110.2	59.3	36	31	0	99.9
KAS 20X29	108.5	60.2	38	31	0	102.4
KAS Reagan	108.4	58.0	38	31	0	105.6
Dyna-Gro WX22793	107.1	58.5	38	32	0	103.8
Dyna-Gro 9692	106.1	59.1	39	31	0	99.1
KAS 21X60	105.3	58.4	37	32	0	104.3
Dyna-Gro 9151	105.2	62.5	38	31	0	101.0
Dyna-Gro 9172	105.1	59.7	37	32	0	99.5
Revere 2266	104.4	57.8	37	31	0	102.6
KWS405	104.3	61.5	37	30	0	98.0
Dyna-Gro WX21741	104.2	60.7	40	31	0	104.0
KWS403	104.1	58.1	35	31	0	107.0
KWS394	104.1	58.8	35	31	0	102.9
USG 3352	103.6	58.6	37	33	0	98.4
Dyna-Gro WX20738	103.0	60.3	37	27	1	94.5
AgriMAXX 525	102.8	59.2	38	33	0	103.7
GROWMARK FS 745	102.8	59.2	37	32	0	99.6
WSC 2720	102.7	55.6	38	29	0	93.5
AgriMAXX 514	102.6	57.9	37	32	0	98.9
KAS 21X56	102.4	59.0	37	31	0	99.7
SY 100	102.0	57.2	36	30	0	97.7
GROWMARK FS 623	101.8	60.3	40	31	0	98.2
AgriMAXX EXP 2105	101.8	58.3	38	33	1	99.1
GROWMARK FS WX22B	101.5	58.6	39	31	3	103.9
KWS411	101.3	62.3	38	28	1	96.7
GROWMARK FS 600	101.1	61.8	38	31	0	100.8
Revere 2169	100.7	59.6	37	32	0	97.3
AgriMAXX 503	100.4	60.2	39	31	0	98.8
AgriMAXX 511	100.4	57.1	36	32	0	96.6
CROPLAN CP8045	100.3	59.2	37	32	0	97.8
AgriMAXX 505	100.3	62.6	39	31	0	99.2
AgriMAXX 454	99.9	58.5	38	31	0	97.2
Dyna-Gro 9352	99.8	57.0	37	29	0	96.7
SY Viper	99.8	61.0	41	28	1	95.3
GP 747	99.4	54.6	37	32	1	98.0
AgriMAXX 513	99.4	61.5	38	31	0	99.3
GROWMARK FS WX22A	99.1	60.0	36	32	0	94.9
Liberty 5658	98.9	59.9	38	27	0	93.7
KWS419	98.6	59.6	40	31	4	97.1
AgriMAXX 516	98.5	58.9	37	31	0	96.0
GP 381	98.5	59.3	36	29	0	94.1
Go Wheat 6056	98.5	58.5	36	32	0	95.2
KAS 21X61	98.5	58.3	39	30	0	95.5
Dyna-Gro 9120	98.3	61.1	37	31	0	98.2

*continued*

**Table 7. (continued)**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
PEMBROKE 2021	97.9	60.0	37	29	1	97.2
GP 348	96.8	61.6	35	26	8	85.3
CROPLAN CP8022	96.8	59.2	36	32	0	100.0
Go Wheat 4059S	96.7	60.7	37	33	0	91.4
Go Wheat 2058	96.5	59.2	34	29	0	91.2
GROWMARK FS 597	96.1	59.7	37	27	0	93.9
PEMBROKE 2016	96.1	60.2	35	28	0	88.7
GROWMARK FS 616	95.5	59.4	39	32	6	95.7
GROWMARK FS 603	95.0	59.0	37	31	0	92.9
MI19R0003	94.8	55.8	33	26	13	87.6
USG 3783	94.7	58.1	36	31	0	95.3
SY 547	94.6	59.3	40	30	0	95.1
Go Wheat 2059	94.3	58.2	36	29	0	93.5
X12-265-56-8-1	94.0	58.2	37	29	0	93.8
AgriMAXX 492	93.8	61.4	35	27	0	84.5
GROWMARK FS 624	93.1	59.7	39	32	0	98.4
X12-3051-53-17-3	92.5	55.6	35	29	0	90.5
Dyna-Gro 9393	91.4	58.4	36	31	0	98.9
WSC 3400	91.4	58.1	37	32	0	93.1
X11-0414-116-11-3	91.4	58.7	40	29	0	91.8
Truman	91.1	59.3	43	35	9	84.7
X11-0120-12-4-3	90.8	57.4	35	33	0	96.4
WSC 3506	90.7	54.8	36	31	4	95.1
X11-0039-1-17-5	90.7	58.5	35	29	0	98.3
CROPLAN CP8081	90.3	58.6	36	29	1	96.5
X12-924-40-7-5	90.1	60.9	36	29	0	88.5
GP 463	87.8	57.6	37	31	10	94.0
Dyna-Gro 9002	87.6	57.4	38	30	0	93.1
X11-0170-52-3-3	87.6	58.6	38	33	0	93.1
X12-3114-65-7-1	87.5	58.7	37	30	0	92.1
X12-3010-4-4-1	87.4	58.7	39	32	0	89.3
MI19R0347	85.6	58.8	37	32	0	89.7
X12-3048-52-18-3	83.2	57.3	37	29	0	85.2
GP 709	80.6	60.3	34	26	9	77.5
X12-3014-46-7-3	79.6	58.9	35	29	3	85.7
X12-3072-55-13-5	77.5	60.1	35	29	0	84.1
VA17W-75	75.9	60.8	35	27	14	86.6
X12-3024-47-4-5	75.9	58.5	34	29	0	84.2
<b>Average</b>	<b>96.8</b>	<b>59.1</b>	<b>37</b>	<b>30</b>	<b>1</b>	<b>95.4</b>
C.V. (%)	4.8					6.3
LSD (0.10)	7.7					3.8

**Location:** Fulton County.**Planting date:** 10-19-2021; no-till.**Harvest date:** 6-13-2022.

\* Average of seven trials - (Caldwell, Logan, Christian, Fulton, Webster, Woodford, and Fayette counties).

**Table 8. 2022 Kentucky Wheat Variety Trial - Western Coal Field Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
KAS 21X60	106.1	61.2	38	34	0	104.3
Go Wheat 2059	105.8	61.3	37	33	0	93.5
Dyna-Gro 9692	104.6	61.4	39	34	0	99.1
CROPLAN CP8081	104.4	61.8	38	31	0	96.5
GROWMARK FS 600	103.6	64.0	40	33	0	100.8
AgriMAXX 505	103.5	64.2	39	33	0	99.2
Dyna-Gro WX22793	103.5	61.3	39	33	0	103.8
Dyna-Gro 9151	103.4	64.7	40	33	5	101.0
Dyna-Gro WX21741	102.6	62.7	39	33	0	104.0
Liberty 5658	102.4	62.3	40	29	0	93.7
KWS403	102.4	60.9	35	35	0	107.0
AgriMAXX 454	102.3	61.0	38	33	0	97.2
X11-0039-1-17-5	101.9	61.8	38	32	0	98.3
Revere 2266	101.8	60.3	38	34	0	102.6
AgriMAXX 525	101.6	62.3	38	34	1	103.7
PEMBROKE 2021	101.5	62.9	39	32	1	97.2
KAS Reagan	101.4	59.8	38	34	0	105.6
KWS398	101.4	61.5	37	36	0	101.1
Dyna-Gro 9393	101.2	60.8	37	34	0	98.9
KWS394	100.8	60.3	35	35	0	102.9
Dyna-Gro 9352	100.6	60.8	40	32	0	96.7
CROPLAN CP8022	100.6	62.4	37	35	0	100.0
GROWMARK FS WX22B	100.5	62.4	39	33	0	103.9
Dyna-Gro 9002	100.2	60.4	40	31	0	93.1
AgriMAXX 514	99.9	61.4	39	34	0	98.9
KAS 20X29	99.5	62.4	40	33	1	102.4
GP 463	99.4	60.4	38	34	6	94.0
KWS411	99.2	63.9	39	30	3	96.7
KAS 21X61	99.1	61.0	39	33	3	95.5
GROWMARK FS 597	99.1	61.7	39	29	1	93.9
GROWMARK FS 745	98.7	62.2	38	34	3	99.6
CROPLAN CP8045	98.6	62.3	38	34	4	97.8
Dyna-Gro 9120	98.2	64.1	38	33	0	98.2
X11-0414-116-11-3	98.1	62.1	42	30	0	91.8
KWS405	97.9	62.6	39	33	0	98.0
SY 547	97.8	61.4	42	32	0	95.1
Dyna-Gro WX20738	97.8	62.3	39	29	0	94.5
GP 381	96.8	60.3	37	33	0	94.1
Dyna-Gro 9172	96.3	62.7	37	34	0	99.5
KAS 21X56	96.1	60.3	38	33	0	99.7
USG 3783	96.1	61.5	38	33	0	95.3
GROWMARK FS 623	96.1	62.4	39	34	0	98.2
WSC 2720	95.6	58.8	38	32	0	93.5
Go Wheat 6056	95.5	60.6	38	33	0	95.2
AgriMAXX 503	95.1	62.1	39	34	1	98.8

*continued*

**Table 8. (continued)**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
SY Viper	95.0	61.9	40	29	0	95.3
KWS419	94.7	63.0	41	34	0	97.1
GROWMARK FS 624	94.7	62.6	39	35	0	98.4
X12-265-56-8-1	94.5	61.5	38	32	0	93.8
AgriMAXX 516	94.4	62.3	37	34	0	96.0
AgriMAXX EXP 2105	94.0	60.9	38	35	4	99.1
X11-0120-12-4-3	93.7	61.2	36	36	0	96.4
SY 100	93.6	58.9	36	33	1	97.7
AgriMAXX 513	93.5	62.9	38	33	0	99.3
WSC 3506	93.3	59.4	37	32	1	95.1
PEMBROKE 2016	92.8	62.4	37	29	0	88.7
GP 348	92.5	64.0	34	26	0	85.3
GP 747	92.0	57.6	39	33	25	98.0
GROWMARK FS 603	91.9	61.7	38	33	0	92.9
USG 3352	91.6	61.1	37	36	15	98.4
X12-924-40-7-5	91.4	62.5	37	30	0	88.5
USG 3472	91.2	61.9	36	34	0	99.9
X12-3024-47-4-5	90.7	60.5	38	30	0	84.2
X12-3051-53-17-3	90.6	58.7	36	32	1	90.5
MI19R0347	90.5	61.7	39	36	0	89.7
X11-0170-52-3-3	90.3	60.4	38	35	6	93.1
X12-3114-65-7-1	89.8	59.9	38	32	5	92.1
GROWMARK FS WX22A	89.6	62.6	36	37	0	94.9
AgriMAXX 511	89.5	60.5	37	33	0	96.6
GROWMARK FS 616	89.4	62.9	40	33	5	95.7
MI19R0003	89.4	59.0	36	27	0	87.6
WSC 3400	89.1	60.0	39	35	8	93.1
X12-3072-55-13-5	87.8	60.5	37	29	0	84.1
X12-3014-46-7-3	87.3	60.8	38	30	0	85.7
X12-3048-52-18-3	86.7	60.6	36	31	0	85.2
Go Wheat 2058	86.0	61.4	33	32	0	91.2
VA17W-75	84.5	62.6	38	28	9	86.6
Go Wheat 4059S	84.4	62.1	35	35	0	91.4
Revere 2169	84.3	61.5	37	34	0	97.3
AgriMAXX 492	83.0	62.9	34	28	0	84.5
GP 709	81.3	61.8	36	27	14	77.5
X12-3010-4-4-1	79.5	60.2	40	35	10	89.3
Truman	79.2	62.4	42	40	3	84.7
<b>Average</b>	<b>95.3</b>	<b>61.5</b>	<b>37</b>	<b>33</b>	<b>2</b>	<b>95.4</b>
C.V. (%)	7.3					6.3
LSD (0.10)	11.5					3.8

**Location:** Caldwell County (Princeton, KY)

**Planting date:** 10-26-2021; conventional tillage.

**Harvest date:** 6-12-2022.

\* Average of seven trials - (Caldwell, Logan, Christian, Fulton, Webster, Woodford, and Fayette counties).



**Table 9. 2022 Kentucky Wheat Variety Trial - Ohio Valley Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	State Average* Yield (bu/a)
KWS403	111.3	62.8	36	34	107.0
AgriMAXX 525	109.1	64.0	36	35	103.7
KAS Reagan	109.0	61.2	36	34	105.6
GROWMARK FS WX22B	107.6	63.9	38	34	103.9
KWS405	107.5	63.5	37	33	98.0
GROWMARK FS 624	107.3	64.1	40	35	98.4
CROPLAN CP8022	106.9	63.1	37	34	100.0
KAS 21X60	106.3	63.0	38	34	104.3
Dyna-Gro WX22793	106.2	63.2	37	34	103.8
SY 100	106.1	58.1	36	33	97.7
X11-0120-12-4-3	105.7	62.0	36	36	96.4
AgriMAXX EXP 2105	105.4	62.4	38	35	99.1
GROWMARK FS 623	105.3	63.4	39	35	98.2
Dyna-Gro WX21741	105.0	63.0	39	33	104.0
X11-0170-52-3-3	104.8	62.4	37	35	93.1
Revere 2169	103.9	63.0	36	33	97.3
USG 3352	103.7	63.2	37	36	98.4
Revere 2266	103.3	61.1	36	34	102.6
AgriMAXX 503	103.2	63.3	39	34	98.8
X11-0039-1-17-5	102.7	60.6	35	31	98.3
Dyna-Gro 9151	102.3	64.7	37	33	101.0
KWS394	101.8	62.1	33	34	102.9
WSC 3506	101.7	60.4	36	35	95.1
Dyna-Gro 9172	101.0	62.1	36	33	99.5
AgriMAXX 516	101.0	62.4	37	33	96.0
AgriMAXX 514	100.9	61.7	38	34	98.9
Dyna-Gro WX20738	100.5	62.4	37	31	94.5
Dyna-Gro 9692	100.4	61.6	37	34	99.1
AgriMAXX 513	100.3	64.8	38	33	99.3
SY Viper	99.9	61.9	39	31	95.3
GROWMARK FS 600	99.6	65.0	38	34	100.8
GP 747	99.5	59.1	35	33	98.0
Liberty 5658	99.4	62.4	37	31	93.7
Truman	99.3	62.4	43	38	84.7
GROWMARK FS WX22A	99.3	63.9	36	36	94.9
KWS411	98.9	64.4	35	31	96.7
USG 3472	98.8	62.3	36	33	99.9
PEMBROKE 2021	98.6	61.2	35	31	97.2
CROPLAN CP8045	98.3	61.1	36	33	97.8
GROWMARK FS 745	98.2	61.9	36	34	99.6
X12-3051-53-17-3	98.2	59.2	34	33	90.5
GP 463	97.7	61.0	35	33	94.0
Go Wheat 2059	97.6	60.7	36	32	93.5
USG 3783	97.1	62.3	35	34	95.3
AgriMAXX 505	96.9	64.8	37	34	99.2

*continued*

**Table 9. (continued)**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	State Average* Yield (bu/a)
WSC 2720	96.6	60.0	35	32	93.5
KWS419	96.4	62.7	39	35	97.1
CROPLAN CP8081	96.4	61.5	37	32	96.5
AgriMAXX 511	96.2	61.0	36	33	96.6
VA17W-75	95.8	63.4	35	31	86.6
GROWMARK FS 616	95.8	63.5	38	34	95.7
KWS398	95.2	62.8	37	37	101.1
Dyna-Gro 9393	95.2	61.9	35	34	98.9
SY 547	95.0	61.5	39	32	95.1
Dyna-Gro 9120	94.4	64.6	36	32	98.2
KAS 21X61	94.3	60.9	36	32	95.5
X11-0414-116-11-3	94.3	60.4	38	32	91.8
AgriMAXX 454	93.6	62.4	35	34	97.2
Dyna-Gro 9352	93.6	60.4	36	32	96.7
Go Wheat 4059S	93.2	63.6	35	35	91.4
X12-3014-46-7-3	92.8	61.3	37	31	85.7
KAS 20X29	92.7	63.8	37	34	102.4
KAS 21X56	92.4	61.0	37	33	99.7
X12-3114-65-7-1	92.0	60.4	37	32	92.1
WSC 3400	91.1	62.3	38	36	93.1
MI19R0347	90.6	61.0	37	36	89.7
X12-3048-52-18-3	90.5	61.5	34	32	85.2
GROWMARK FS 597	90.4	63.6	36	31	93.9
X12-3010-4-4-1	90.3	62.8	40	35	89.3
GP 381	90.0	60.0	34	32	94.1
Dyna-Gro 9002	90.0	60.9	36	32	93.1
X12-3024-47-4-5	89.9	61.7	36	32	84.2
PEMBROKE 2016	89.1	62.7	34	31	88.7
Go Wheat 2058	88.6	61.4	32	32	91.2
MI19R0003	87.5	59.4	33	30	87.6
GP 348	87.5	63.6	33	31	85.3
GROWMARK FS 603	83.6	62.9	35	32	92.9
GP 709	83.5	62.8	33	31	77.5
X12-3072-55-13-5	82.7	62.9	35	32	84.1
X12-265-56-8-1	78.6	63.0	35	34	93.8
Go Wheat 6056	77.2	63.0	33	31	95.2
X12-924-40-7-5	77.2	63.5	33	32	88.5
AgriMAXX 492	73.9	63.9	35	31	84.5
<b>Average</b>	<b>96.7</b>	<b>62.2</b>	<b>36</b>	<b>33</b>	<b>95.4</b>
C.V. (%)	7.0				6.3
LSD (0.10)	11.3				3.8

**Location:** Webster County Lodging = 0%.

**Planting date:** 10-10-2021; no-till.

**Harvest date:** 6-16-2022.

\* Average of seven trials - (Caldwell, Logan, Christian, Fulton, Webster, Woodford, and Fayette counties).

**Table 10. 2022 Kentucky Wheat Variety Trial - Bluegrass Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
AgriMAXX 525	103.6	60.9	36	39	0	103.7
KAS Reagan	102.1	58.5	34	39	3	105.6
AgriMAXX 513	99.8	61.2	36	37	0	99.3
KWS394	99.0	59.1	33	40	0	102.9
Dyna-Gro WX21741	96.7	60.9	37	38	18	104.0
KWS403	96.7	59.0	34	39	0	107.0
GP 747	96.3	58.2	36	38	8	98.0
GROWMARK FS WX22B	96.3	60.9	37	37	0	103.9
CROPLAN CP8022	94.5	60.7	35	39	0	100.0
GROWMARK FS WX22A	94.2	61.0	35	40	0	94.9
USG 3472	94.2	60.6	35	39	1	99.9
X11-0039-1-17-5	94.0	60.4	33	38	0	98.3
Go Wheat 6056	93.9	60.2	35	38	13	95.2
Dyna-Gro 9120	93.7	61.2	35	35	0	98.2
Dyna-Gro 9393	93.5	59.8	33	39	0	98.9
KWS398	93.2	60.3	34	41	0	101.1
GROWMARK FS 600	93.2	62.2	36	39	0	100.8
Revere 2169	93.0	60.2	34	39	3	97.3
Dyna-Gro WX22793	93.0	60.1	36	37	25	103.8
AgriMAXX 505	92.8	62.3	36	38	0	99.2
KAS 21X60	91.9	60.6	36	37	11	104.3
KAS 21X56	91.5	59.6	34	38	0	99.7
AgriMAXX 511	91.3	58.2	36	38	18	96.6
CROPLAN CP8045	90.7	61.2	35	38	10	97.8
Dyna-Gro 9151	90.5	62.4	36	39	3	101.0
X11-0120-12-4-3	90.2	60.5	35	41	0	96.4
GROWMARK FS 616	89.8	61.0	37	38	10	95.7
Revere 2266	89.6	59.3	33	39	0	102.6
AgriMAXX 516	88.6	59.8	34	38	0	96.0
AgriMAXX EXP 2105	88.4	61.3	37	41	0	99.1
SY 547	88.3	60.6	39	37	1	95.1
Dyna-Gro 9172	88.2	59.9	34	39	5	99.5
GROWMARK FS 745	88.0	59.5	34	38	0	99.6
X12-265-56-8-1	87.7	59.5	33	35	1	93.8
Dyna-Gro 9692	87.5	60.6	36	39	6	99.1
GP 381	87.3	59.0	33	38	10	94.1
KWS419	87.3	60.9	38	39	0	97.1
KAS 20X29	87.2	60.3	36	38	0	102.4
GROWMARK FS 624	87.1	61.4	37	40	6	98.4
AgriMAXX 503	86.2	60.6	37	39	1	98.8
AgriMAXX 454	85.7	59.9	35	38	4	97.2
AgriMAXX 514	85.3	58.5	33	38	5	98.9
WSC 3400	85.2	61.7	38	40	1	93.1
WSC 3506	85.1	59.0	33	36	0	95.1
X12-924-40-7-5	85.0	60.6	32	35	24	88.5

*continued*

**Table 10. (continued)**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
USG 3783	84.7	60.1	32	39	1	95.3
MI19R0347	84.3	61.7	37	40	0	89.7
X11-0170-52-3-3	83.4	59.4	36	39	33	93.1
KWS411	83.3	60.8	33	36	9	96.7
CROPLAN CP8081	83.3	58.3	34	34	53	96.5
X12-3010-4-4-1	83.1	60.7	36	40	0	89.3
X12-3114-65-7-1	82.8	59.9	32	36	3	92.1
X11-0414-116-11-3	82.1	59.5	36	35	8	91.8
PEMBROKE 2021	81.9	60.2	34	35	11	97.2
Go Wheat 4059S	81.3	61.6	35	40	3	91.4
USG 3352	80.9	61.1	35	41	0	98.4
GROWMARK FS 597	79.9	58.3	33	35	30	93.9
GROWMARK FS 623	79.9	60.9	36	39	0	98.2
GP 463	79.9	57.8	32	38	6	94.0
SY 100	79.7	56.0	31	37	20	97.7
X12-3024-47-4-5	79.0	59.2	32	37	15	84.2
Dyna-Gro 9352	78.9	57.8	34	37	21	96.7
X12-3051-53-17-3	78.8	55.8	29	38	15	90.5
Dyna-Gro 9002	78.6	59.1	34	36	44	93.1
Dyna-Gro WX20738	78.1	57.4	33	35	45	94.5
GROWMARK FS 603	77.8	60.6	35	38	3	92.9
PEMBROKE 2016	77.7	59.4	32	33	0	88.7
KWS405	77.6	60.7	33	39	0	98.0
X12-3072-55-13-5	77.2	59.8	32	36	29	84.1
Go Wheat 2058	76.8	59.3	29	34	0	91.2
SY Viper	76.1	60.6	34	32	26	95.3
KAS 21X61	75.9	58.2	34	36	21	95.5
VA17W-75	75.8	60.3	34	32	51	86.6
X12-3014-46-7-3	74.9	59.6	32	33	1	85.7
X12-3048-52-18-3	74.5	56.6	32	37	13	85.2
MI19R0003	73.8	56.9	32	32	1	87.6
Go Wheat 2059	73.8	56.8	32	36	24	93.5
Liberty 5658	72.4	58.3	32	34	8	93.7
WSC 2720	71.3	56.6	31	34	19	93.5
GP 348	69.8	60.2	31	30	38	85.3
AgriMAXX 492	67.7	59.8	29	31	3	84.5
Truman	65.8	60.3	40	44	1	84.7
GP 709	63.4	59.4	32	30	11	77.5
<b>Average</b>	<b>84.9</b>	<b>59.8</b>	<b>34</b>	<b>37</b>	<b>9</b>	<b>95.4</b>
C.V. (%)	6.5					6.3
LSD (0.10)	9.1					3.8

**Location:** Fayette County (Lexington, KY).

**Planting date:** 10-15-2021; conventional tillage.

**Harvest date:** 6-20-2022.

\* Average of seven trials - (Caldwell, Logan, Christian, Fulton, Webster, Woodford, and Fayette counties).

**Table 11. 2022 Kentucky Wheat Variety Trial - Southern Tier Region A.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
KWS403	118.1	59.7	36	30	1	107.0
AgriMAXX 503	117.9	61.6	41	31	0	98.8
KAS 21X60	116.3	61.0	39	31	0	104.3
AgriMAXX EXP 2105	116.0	60.8	39	32	0	99.1
GROWMARK FS WX22B	115.9	61.7	40	30	0	103.9
KWS394	114.6	59.9	35	31	0	102.9
AgriMAXX 525	114.6	62.1	37	32	3	103.7
Dyna-Gro 9002	114.6	61.2	39	28	1	93.1
USG 3352	113.7	61.0	40	32	0	98.4
GROWMARK FS 623	113.6	61.9	40	31	1	98.2
Dyna-Gro WX22793	113.3	61.4	39	31	0	103.8
KAS 20X29	112.7	61.6	39	31	1	102.4
Dyna-Gro WX21741	112.6	61.1	39	30	0	104.0
X12-265-56-8-1	111.9	61.0	39	28	0	93.8
CROPLAN CP8081	111.7	61.5	37	27	0	96.5
AgriMAXX 514	111.1	59.4	39	30	1	98.9
KWS419	110.5	62.1	41	31	0	97.1
CROPLAN CP8022	110.4	61.5	37	32	0	100.0
GROWMARK FS 600	110.4	63.7	39	31	0	100.8
SY 547	110.1	61.9	41	28	0	95.1
PEMBROKE 2021	110.1	62.2	38	28	0	97.2
Dyna-Gro 9151	109.8	64.4	39	31	0	101.0
KWS411	109.7	63.7	38	28	0	96.7
AgriMAXX 454	109.6	60.9	39	31	0	97.2
GP 381	108.9	59.9	36	28	0	94.1
Dyna-Gro 9692	108.9	60.7	39	31	0	99.1
Dyna-Gro 9393	108.8	61.1	37	29	0	98.9
AgriMAXX 513	108.4	62.7	39	30	0	99.3
Dyna-Gro 9352	108.4	59.7	37	29	1	96.7
KAS 21X56	108.1	60.1	38	30	0	99.7
AgriMAXX 505	107.7	63.9	38	31	0	99.2
X11-0120-12-4-3	106.9	61.0	36	32	0	96.4
AgriMAXX 511	106.7	59.6	38	32	0	96.6
GP 463	106.5	60.6	37	30	0	94.0
GP 747	106.4	58.1	38	30	0	98.0
KAS Reagan	106.2	59.0	36	31	0	105.6
Go Wheat 6056	106.1	61.5	38	31	0	95.2
Revere 2266	106.1	59.5	38	31	0	102.6
X12-3010-4-4-1	106.0	61.0	41	32	0	89.3
GROWMARK FS 603	105.9	61.7	38	30	0	92.9
KAS 21X61	105.8	59.8	37	29	0	95.5
KWS405	105.2	62.1	37	29	0	98.0
GROWMARK FS WX22A	105.1	62.3	37	33	0	94.9
USG 3472	105.1	61.3	37	31	0	99.9
X12-3114-65-7-1	104.9	61.0	39	30	1	92.1

*continued*



**Table 11. (continued)**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
GROWMARK FS 624	104.7	61.9	41	32	8	98.4
SY Viper	104.3	61.3	39	27	0	95.3
Liberty 5658	104.2	61.3	36	27	4	93.7
CROPLAN CP8045	104.1	61.2	37	31	0	97.8
GROWMARK FS 745	104.0	61.1	39	31	0	99.6
WSC 2720	103.4	57.2	38	29	1	93.5
WSC 3506	103.3	58.8	37	30	3	95.1
AgriMAXX 492	103.2	62.1	36	27	0	84.5
WSC 3400	103.2	60.7	40	32	0	93.1
GROWMARK FS 616	103.1	62.0	40	32	0	95.7
SY 100	102.9	57.1	36	29	0	97.7
KWS398	102.9	61.1	37	33	0	101.1
Dyna-Gro 9172	102.3	61.3	37	31	0	99.5
GROWMARK FS 597	101.9	60.9	36	27	0	93.9
Go Wheat 2059	101.8	58.7	36	28	1	93.5
X11-0039-1-17-5	101.6	58.6	35	27	0	98.3
USG 3783	101.3	61.3	36	30	0	95.3
Dyna-Gro 9120	100.5	62.5	38	29	0	98.2
AgriMAXX 516	100.5	61.0	37	31	0	96.0
Go Wheat 4059S	100.0	62.2	37	33	0	91.4
Go Wheat 2058	99.7	60.9	33	28	0	91.2
Revere 2169	99.6	60.9	36	30	0	97.3
Dyna-Gro WX20738	99.1	60.9	35	27	0	94.5
VA17W-75	99.0	62.4	34	27	0	86.6
X11-0170-52-3-3	98.7	59.6	38	32	0	93.1
X12-3024-47-4-5	98.2	60.9	35	28	0	84.2
X11-0414-116-11-3	97.7	60.2	37	27	0	91.8
MI19R0347	97.5	60.6	39	32	0	89.7
X12-924-40-7-5	96.7	61.6	35	28	0	88.5
GP 348	96.4	62.3	33	26	0	85.3
X12-3014-46-7-3	96.2	60.6	35	28	0	85.7
X12-3051-53-17-3	95.0	57.5	35	29	0	90.5
X12-3048-52-18-3	94.5	60.8	35	28	0	85.2
Truman	94.3	60.7	43	37	0	84.7
PEMBROKE 2016	94.0	60.0	35	27	0	88.7
X12-3072-55-13-5	93.9	60.4	35	28	1	84.1
MI19R0003	89.6	57.1	34	26	9	87.6
GP 709	83.6	59.7	35	26	18	77.5
<b>Average</b>	<b>105.0</b>	<b>60.9</b>	<b>37</b>	<b>30</b>	<b>1</b>	<b>95.4</b>
C.V. (%)	6.2					6.3
LSD (0.10)	10.8					3.8

**Location:** Logan County.

**Planting date:** 10-14-2021; conventional tillage.

**Harvest date:** 6-14-2022.

\* Average of seven trials - (Caldwell, Logan, Christian, Fulton, Webster, Woodford, and Fayette counties).

**Table 12. 2022 Kentucky Wheat Variety Trial - Southern Tier Region B.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
GROWMARK FS WX22B	122.1	62.2	40	30	8	103.9
KAS 20X29	120.7	62.9	41	30	68	102.4
KWS403	118.2	61.0	37	30	1	107.0
Dyna-Gro WX21741	117.1	62.0	41	30	10	104.0
Revere 2266	116.1	60.1	37	31	0	102.6
KAS 21X56	115.9	60.9	39	29	14	99.7
USG 3472	115.8	61.8	38	30	0	99.9
KAS 21X60	114.9	61.5	39	31	0	104.3
GROWMARK FS 745	114.8	61.1	38	31	24	99.6
KAS Reagan	114.8	60.6	38	32	0	105.6
KWS405	114.4	63.1	38	29	3	98.0
Dyna-Gro 9120	114.1	63.8	39	28	0	98.2
USG 3352	113.7	61.0	39	33	0	98.4
SY 100	113.0	59.2	37	30	3	97.7
Dyna-Gro WX22793	112.8	61.0	40	31	0	103.8
GROWMARK FS 623	112.7	63.5	41	32	39	98.2
SY Viper	112.2	60.7	38	27	78	95.3
GROWMARK FS 624	111.9	62.0	41	32	0	98.4
KWS398	111.8	61.7	37	33	0	101.1
GROWMARK FS 603	111.2	62.3	38	29	0	92.9
AgriMAXX 503	110.9	62.4	42	32	5	98.8
Dyna-Gro 9172	110.6	61.9	38	30	23	99.5
Revere 2169	110.3	61.6	38	29	0	97.3
AgriMAXX 513	110.3	63.0	39	30	18	99.3
KWS394	109.9	60.7	35	31	16	102.9
GROWMARK FS 616	109.6	62.3	40	31	24	95.7
CROPLAN CP8045	109.4	61.4	38	31	0	97.8
GROWMARK FS 600	108.7	63.8	39	31	3	100.8
AgriMAXX EXP 2105	108.4	61.2	40	32	20	99.1
Dyna-Gro 9151	108.1	64.0	39	31	10	101.0
AgriMAXX 511	107.5	58.7	39	31	16	96.6
KWS419	107.3	61.7	41	30	1	97.1
KAS 21X61	107.2	59.8	37	29	16	95.5
GP 381	107.2	61.0	35	29	24	94.1
Dyna-Gro 9352	106.8	60.5	37	29	28	96.7
AgriMAXX 516	106.7	61.4	39	29	10	96.0
AgriMAXX 525	106.5	62.2	38	33	1	103.7
WSC 2720	105.9	58.7	38	28	16	93.5
USG 3783	105.7	61.0	36	30	24	95.3
CROPLAN CP8022	105.5	60.7	38	33	24	100.0
Dyna-Gro 9002	105.3	60.8	39	28	3	93.1
Go Wheat 4059S	105.1	63.3	38	33	0	91.4
CROPLAN CP8081	105.0	60.6	37	28	8	96.5
AgriMAXX 505	105.0	63.5	39	31	36	99.2
Dyna-Gro 9393	104.9	60.9	36	30	0	98.9
Dyna-Gro 9692	104.2	60.9	38	30	20	99.1

*continued*

**Table 12. (continued)**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)	State Average* Yield (bu/a)
SY 547	103.9	61.2	40	29	16	95.1
X12-265-56-8-1	103.5	61.0	39	29	9	93.8
PEMBROKE 2021	103.4	61.4	36	27	30	97.2
AgriMAXX 454	103.3	60.4	38	30	21	97.2
GROWMARK FS 597	103.3	61.2	37	28	11	93.9
GROWMARK FS WX22A	103.0	61.1	39	33	19	94.9
Go Wheat 2058	102.9	61.4	34	28	0	91.2
Dyna-Gro WX20738	102.0	62.0	38	28	1	94.5
X11-0120-12-4-3	101.8	60.1	38	33	15	96.4
GP 747	101.8	57.7	39	31	60	98.0
Go Wheat 2059	101.7	60.5	38	29	31	93.5
AgriMAXX 514	101.6	60.5	39	31	43	98.9
WSC 3506	101.5	58.3	38	31	1	95.1
X12-3051-53-17-3	101.2	59.0	35	29	33	90.5
WSC 3400	101.1	60.9	41	33	0	93.1
GP 463	99.9	61.3	38	30	28	94.0
X12-3010-4-4-1	99.7	61.7	42	31	24	89.3
KWS411	99.0	62.3	37	27	11	96.7
AgriMAXX 492	98.7	62.0	35	26	26	84.5
X11-0170-52-3-3	98.0	61.3	40	32	26	93.1
Liberty 5658	97.5	61.6	37	28	24	93.7
X12-3114-65-7-1	97.1	61.7	39	29	5	92.1
X11-0039-1-17-5	96.5	61.1	35	28	0	98.3
X12-924-40-7-5	96.2	63.4	38	28	15	88.5
Go Wheat 6056	94.0	61.8	33	27	0	95.2
Truman	92.1	61.7	46	35	6	84.7
MI19R0347	91.7	61.7	41	32	20	89.7
X11-0414-116-11-3	91.7	60.3	38	28	1	91.8
X12-3048-52-18-3	90.8	60.2	35	29	50	85.2
MI19R0003	89.9	57.8	34	26	45	87.6
PEMBROKE 2016	89.8	62.8	38	28	60	88.7
VA17W-75	88.4	62.0	35	28	4	86.6
X12-3072-55-13-5	88.0	60.0	36	29	11	84.1
X12-3014-46-7-3	84.1	60.4	36	29	5	85.7
GP 709	81.8	60.7	35	26	38	77.5
GP 348	81.4	64.0	35	26	25	85.3
X12-3024-47-4-5	76.4	61.2	35	30	36	84.2
<b>Average</b>	<b>104.0</b>	<b>61.3</b>	<b>38</b>	<b>30</b>	<b>16</b>	<b>95.4</b>
C.V. (%)	5.6					6.3
LSD (0.10)	9.6					3.8

**Location:** Christian County.

**Planting date:** 10-9-2021; no-till.

**Harvest date:** 6-15-2022.

\* Average of seven trials - (Caldwell, Logan, Christian, Fulton, Webster, Woodford, and Fayette counties).

**Table 13. 2022 Kentucky Wheat Variety Trial - North Central Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
X11-0039-1-17-5	100.9	60.9	33	35
Go Wheat 6056	100.9	61.0	32	37
KWS403	98.0	60.0	32	39
Dyna-Gro 9393	97.5	61.3	32	38
KAS Reagan	97.5	59.7	32	38
Revere 2266	96.9	59.4	32	38
KAS 20X29	95.6	61.1	36	38
Dyna-Gro 9172	93.2	60.6	32	37
KAS 21X56	91.1	60.0	34	37
Dyna-Gro WX22793	90.7	61.2	34	38
GP 747	90.7	56.9	32	38
AgriMAXX 514	90.7	59.4	34	38
WSC 3400	90.7	61.5	35	39
KWS398	90.6	60.5	33	39
GROWMARK FS 745	90.6	60.6	32	37
WSC 3506	90.5	59.8	32	36
X12-3114-65-7-1	90.4	60.5	32	35
KWS394	90.3	59.4	31	38
GROWMARK FS 624	90.2	60.4	34	38
Dyna-Gro WX21741	89.7	61.3	35	37
GROWMARK FS 600	89.4	63.2	34	37
Revere 2169	89.2	61.2	34	37
KAS 21X60	89.2	61.3	33	38
Dyna-Gro 9352	89.0	60.9	33	36
X11-0170-52-3-3	88.9	60.5	35	38
MI19R0003	88.4	56.7	31	32
Dyna-Gro 9120	88.1	61.6	32	34
Go Wheat 2058	88.0	60.4	30	34
AgriMAXX 505	88.0	63.1	34	37
USG 3783	87.7	60.4	31	38
Dyna-Gro 9151	87.6	63.0	34	37
AgriMAXX 525	87.6	61.2	33	38
MI19R0347	87.5	61.2	35	40
KAS 21X61	87.5	60.7	33	36
X11-0414-116-11-3	87.1	60.1	36	35
PEMBROKE 2021	86.8	61.0	33	34
GP 463	86.8	59.4	31	35
GROWMARK FS 616	86.7	62.3	34	37
VA17W-75	86.7	60.8	32	33
X12-265-56-8-1	86.6	60.7	32	35
SY 100	86.5	58.1	32	38
GROWMARK FS 597	86.3	59.7	33	34
X11-0120-12-4-3	86.0	60.4	33	39
AgriMAXX 454	85.8	60.1	33	38
KWS411	85.4	62.0	32	34

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
X12-3014-46-7-3	85.2	59.7	32	35
CROPLAN CP8022	85.0	60.2	31	38
GROWMARK FS 603	85.0	60.7	33	38
KWS419	84.8	61.5	36	38
CROPLAN CP8081	84.8	60.4	33	34
AgriMAXX 511	84.8	58.2	34	37
USG 3472	84.3	60.6	32	38
GROWMARK FS WX22B	83.6	60.7	35	36
AgriMAXX 513	83.6	61.5	33	37
CROPLAN CP8045	83.5	60.4	32	38
X12-924-40-7-5	83.1	60.6	31	34
AgriMAXX 516	82.0	60.9	32	38
Dyna-Gro 9692	81.9	60.1	33	39
X12-3072-55-13-5	81.6	60.3	32	34
USG 3352	81.5	60.8	33	41
PEMBROKE 2016	81.3	60.7	31	33
Liberty 5658	81.2	60.1	32	33
Dyna-Gro WX20738	81.0	59.2	32	33
SY Viper	79.9	60.5	35	34
AgriMAXX EXP 2105	79.5	60.0	34	40
X12-3010-4-4-1	79.3	60.3	35	40
X12-3024-47-4-5	79.2	60.0	31	35
Go Wheat 2059	79.2	58.7	32	34
Go Wheat 4059S	79.1	61.2	33	39
WSC 2720	79.0	57.4	32	37
KWS405	79.0	61.4	33	38
GROWMARK FS 623	78.3	59.8	34	39
AgriMAXX 503	77.8	59.7	35	39
X12-3051-53-17-3	77.3	57.8	30	38
X12-3048-52-18-3	76.3	59.0	30	36
SY 547	76.0	60.9	36	37
Dyna-Gro 9002	75.2	59.5	32	38
GROWMARK FS WX22A	73.9	60.4	32	41
GP 348	72.4	61.1	30	32
AgriMAXX 492	71.0	60.9	32	33
Truman	70.7	60.4	37	44
GP 381	69.8	59.6	31	36
GP 709	68.3	61.2	31	32
<b>Average</b>	<b>85.1</b>	<b>60.4</b>	<b>32</b>	<b>37</b>
C.V. (%)	6.7			
LSD (0.10)	9.5			

**Location:** Woodford County; Lodging = 0%.

**Planting date:** 10-20-2021; conventional tillage.

**Harvest date:** 6-17-2022.

*continued*

**Table 14. 2022 Kentucky Barley Variety Trial.**

Variety	Yield (bu/a)*	Yield (bu/a)*	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
	2022	2021-22	2022	2022	2022
Thoroughbred	91.9	97.6	42.8	37	27
Marouetta	85.8		42.6	39	28
Avalon	82.1	54.3	46.4	40	28
Secretariat	79.1	86.8	42.3	32	26
Nomini	78.9	73.2	40.3	41	24
VA15H73 2R	77.2	52.9	50.6	43	29
VA16M-84	76.3	60.5	47.3	40	28
KWS Donau	76.2	62.0	43.7	33	30
OM21-1	75.6		43.7	36	33
KWS Faro	72.9	68.1	42.7	33	29
OM21-2	71.7		41.8	31	29
VA16BFHB-268 NA	70.9	64.9	41.1	41	24
KWS Somerset	70.2	71.7	42.5	34	30
Hirondella	66.1	71.0	41.1	34	29
KWS Orbit	63.6		41.4	36	31
FLAVIA	62.2	63.2	41.6	28	32
LCS Violetta	61.7	59.7	44.5	34	28
AMAZE 10**	58.5	60.4	56.3	40	27
LCS Calypso	56.6	56.4	39.7	36	31
KWS Scala	55.0	67.7	40.3	29	30
OM21-140088	50.0		42.7	32	31
OM21-L	48.3		41.8	34	31
<b>Average</b>	<b>69.6</b>	<b>66.9</b>	<b>43.5</b>	<b>35</b>	<b>29</b>

\* 48-lb standard bushel weight.

\*\* Hulless barley (60-lb std bushel weight).

**Planting date:** 10-26-21; conventional tillage.

**Harvest date:** 6-12-22.

**Location:** Caldwell County, (UKREC-Princeton, KY).

**Lodging:** 0%.

**Table 15. 2022 Kentucky Triticale Variety Trial.**

Variety	Yield (bu/a)*	Test Wt. (lb/bu)	Height (in)	Heading Date > May 1	Lodging (%)
NST 22005	66.6	52.5	54	5	8
NST 22002	59.8	53.0	61	8	66
LAX Nitrous	59.7	49.7	55	7	46
Trical Gunner	56.8	50.2	54	7	86
NST 22003	56.5	53.6	48	2	3
NST 21001	55.1	50.9	49	6	13
Trical Ace	54.9	48.2	49	6	14
Trical Surge	53.7	50.6	57	5	18
NST 22004	53.2	49.1	63	5	14
NST 22001	52.6	49.4	57	5	3
Trical Gainer 154	52.3	52.1	47	0	1
NST 21002	51.3	49.7	55	7	91
NST 22006	49.8	53.6	60	6	66
Trical Thor	47.4	52.4	60	8	18
SS 1414	47.1	51.0	44	1	21
NST 18001	46.5	50.4	46	1	1
<b>Average</b>	<b>54.0</b>	<b>51.0</b>	<b>54</b>	<b>5</b>	<b>29</b>

**Location:** Fayette County (Lexington, KY).

**Planting date:** 10-14-2021; conventional tillage.

**Harvest date:** 6-23-2022.

\*60-lb standard bushel weight.

**Table 16. 2022 Kentucky Cereal Rye Variety Trial.**

Variety	Yield (bu/a)*	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Lodging (%)
	2022	2022	2022	2022	
KWS Tayo**	88.1	55.1	56	35	37
KWS H20005**	86.8	54.0	56	34	57
KWS Receptor**	83.7	56.2	54	35	19
KWS Serafino**	82.8	55.2	57	34	55
KWS Gilmor**	79.7	54.6	56	35	40
KWS H20003**	79.5	54.8	56	34	34
KWS H20004**	73.3	54.5	55	33	42
LAX Guardian	63.5	54.2	67	33	67
Aventino	57.0	54.1	63	33	64
KWS SH-06**	54.7	54.2	49	26	0
KWS SH-05**	52.0	53.3	47	27	1
Spooner	50.7	55.9	66	30	24
KWS SH-03**	40.4	52.0	44	28	18
<b>Average</b>	<b>68.6</b>	<b>54.5</b>	<b>56</b>	<b>32</b>	<b>35</b>

**Location:** Fayette County (Lexington, KY).

**Planting date:** 10-14-2021; conventional tillage;

**Harvest date:** 6-27-2022.

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

**Table 17. 2022 Kentucky Oat Variety Trial.**

Variety	Yield (bu/a)*	Test Wt. (lb/bu)	Height (in)	Heading Date > May 1	Winter Survival (%)
SS 76-50	69.3	33.2	37	13	100
NC12-3578	68.5	34.9	37	13	100
NC17-6550	57.9	31.7	38	13	90
Graham	54.7	35.2	32	15	98
Gerard 224	54.1	29.5	36	14	93
SCLA 0100214	41.8	34.9	32	15	96
NSO 12000	38.1	26.7	46	13	100
NC19-3542	28.2	21.8	32	15	73
NC19-3362	27.9	24.6	37	16	88
SCOP 85-8	22.5	29.9	35	16	49
NC19-3541	8.5		31	16	20
NSO 16004	0.0				1
<b>Average</b>	<b>39.3</b>	<b>30.2</b>	<b>36</b>	<b>14</b>	<b>75</b>

**Location:** Fayette County (Lexington, KY); Lodging = 0%.

**Planting date:** 10-14-2021; conventional tillage.

**Harvest date:** 6-20-2022.

\*32-lb standard bushel weight.



**Table 18. 2022 Kentucky Spelt Variety Trial.**

Variety	Yield (bu/a)*			Height (in)	Heading Date > May 1
	2022	2021-22	2020-22	2022	2022
Zollernperle	70.8	71.5	73.1	46	20
Sammy	69.4	64.7	68.1	43	13
Comet	69.3	64.7	67.2	40	12
Mavrick	67.4	64.1	69.5	52	15
Sungold	65.9	72.7	82.0	51	17
Zollernspelz	43.4	47.9	57.3	42	22
Sonic	43.0	44.9	59.1	49	20
<b>Average</b>	<b>61.3</b>	<b>61.5</b>	<b>68.0</b>	<b>46</b>	<b>17</b>

\*40-lb standard bushel weight.

**Location:** Fayette County (Lexington, KY).

**Lodging** = 0%.

**Planting date:** 10-14-2021; conventional tillage.

**Harvest date:** 6-30-2022.



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