

2022 Kentucky Small Grain

VARIETY PERFORMANCE TRIAL

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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.

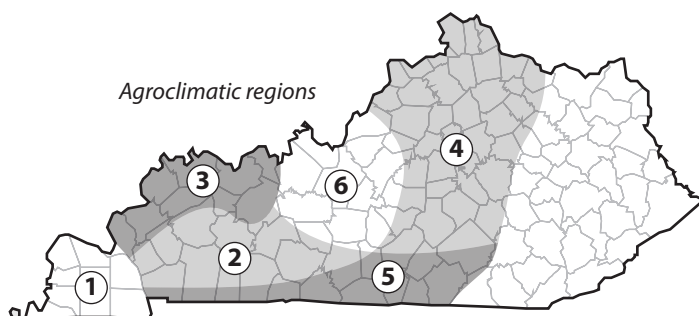


Table 2. Agroclimatic Regions of Kentucky Small Grain Variety Trials.

| 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.

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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 |
| Average | 95.4 | 87.3 | 60.7 | 36 | 33 | 4 |
| 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 |
| Average | 4.52 | 3.71 | 72 | |
| 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 |
| Average | 1.43 | 1.79 | 95.4 |
| 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 | |
| Average | 5.4 | 4.0 | 3.0 | 2.5 | 2.2 | |

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 |
| Average | 96.8 | 59.1 | 37 | 30 | 1 | 95.4 |
| 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 |
| Average | 95.3 | 61.5 | 37 | 33 | 2 | 95.4 |
| 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 |
| Average | 96.7 | 62.2 | 36 | 33 | 95.4 |
| 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 |
| Average | 84.9 | 59.8 | 34 | 37 | 9 | 95.4 |
| 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 |
| Average | 105.0 | 60.9 | 37 | 30 | 1 | 95.4 |
| 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 |
| Average | 104.0 | 61.3 | 38 | 30 | 16 | 95.4 |
| 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 |
| Average | 85.1 | 60.4 | 32 | 37 |
| 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 |
| Average | 69.6 | 66.9 | 43.5 | 35 | 29 |

* 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 |
| Average | 54.0 | 51.0 | 54 | 5 | 29 |

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 |
| Average | 68.6 | 54.5 | 56 | 32 | 35 |

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 |
| Average | 39.3 | 30.2 | 36 | 14 | 75 |

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 |
| Average | 61.3 | 61.5 | 68.0 | 46 | 17 |

*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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