

2020 Kentucky Small Grain VARIETY PERFORMANCE TRIALS

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www.uky.edu/ag/WheatVarietyTest

The 2020 soft red winter wheat growing season ended with Kentucky farmers harvesting approximately 390,000 acres of the 460,000 acres planted, for a total production of 28.5 million bushels of grain. An average yield of 73 bushels per acre was estimated by NASS (Table 1). The acreage not harvested for grain was primarily used for cover cropping and forage production. The NASS June estimate may however, have underestimated the effect of freeze damage on the wheat crop.

Small grain 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. Each region having a substantial acreage of a small grain commodity had at least one trial conducted in that region for that commodity.

The objective of the Kentucky small grain variety performance trials is to evaluate varieties of wheat, oat, barley, triticale, spelt, 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 locality and individual requirements.

Because weather, soil, and other environmental factors may alter varietal performance from one location to another, seven wheat trials were conducted at seven locations throughout the state (Table 2). In addition, a trial for varietal differences in wheat forage yield was conducted at one location.

Experimental Methods

A total of 86 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 test 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 20 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 trial only) application. Fungicides were applied in the spring on all but two (disease rating) trials. An insecticide for aphid

Table 1. Wheat Acreage Harvested and Yields (bu/ac) in Kentucky, 2018-20.*

2020		2019		2018	
Harvested	Yield	Harvested	Yield	Harvested	Yield
390,000	73	340,000	77	300,000	66

*June 11, 2020, National Agricultural Statistics Service.

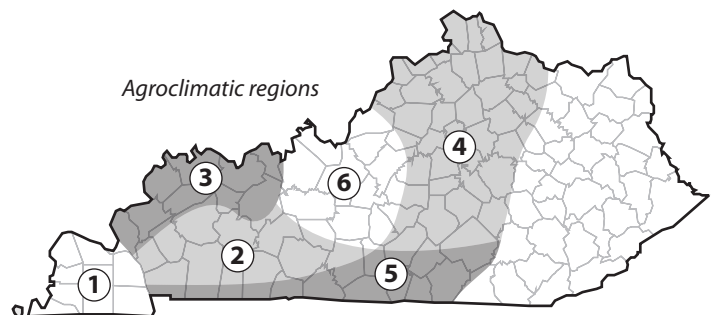


Table 2. Agroclimatic Regions of Kentucky Small Grain Variety Trials.

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

*Conventional tillage.

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 tests) 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 yields were not measured due to variable late tillering associated with freeze damage.

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 wheat, barley, triticale, spelt, and cereal rye trials. 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: Septoria leaf blotch was recorded at the Logan County (non-fungicide) trial; leaf rust was rated at the Woodford County trial. Forage yields are expressed as dry matter in tons per acre. Plant canopy coverage (estimate of winter grazing potential or cover crop biomass) was measured using the Canopeo app on 1-14-2020 at the Woodford farm trial.

Results and Interpretation

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

The yield of a variety is relative and should be compared with the yields of the other varieties in the same experiment and at the same location or within the same analysis across locations. Small differences in yield of only a few bushels per acre between two varieties from an individual test should not be interpreted to indicate the superiority of one variety over another. However, if one variety consistently out yields another over a period of several years, the chances are that the differences are real. LSD (least significant difference) values are listed at the bottom of table columns to indicate whether differences are statistically significant.

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, disease resistance, and forage potential are important in choosing a variety.

Winter barley is less winter-hardy than winter wheat but more hardy than winter oats. The degree of winter-hardiness, straw strength, and maturity are important characteristics when choosing a variety. Barley (hulless and hulled) variety performance data are presented in tables 15 and 16. Cereal rye, triticale, oat, and spelt variety performance data are presented in tables 17, 18, 19 and 20, respectively.

Growing Conditions

Warm temperatures in early/mid October facilitated timely planting of a majority of the 2020 Kentucky wheat crop. Frequent rainfall during mid/late October slowed remaining planting. The 2020 Kentucky small grain variety trials were planted from October 5 to October 19. Cool temperatures in November slowed fall plant growth and development, particularly in late planted fields. Above average temperatures from December through mid-April accelerated growth and development. Reproductive growth was about one week ahead of normal. There were two freeze events which damaged Kentucky's wheat crop. An April 15th freeze caused damage to many wheat fields in west Kentucky, where the crop was often heading. Damage occurred in central Kentucky as well, where the crop was nearing boot stage. On May 9th a severe freeze event occurred in central Kentucky, severely damaging the crop which had already experienced damage from the April 15th freeze. Lower temperatures in May favored seed filling. Moderate temperatures and dry conditions favored timely harvest.

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Wheat Varieties Tested in 2020

AgriMAXX Wheat Co.

7167 Highbanks Rd.
Mascoutak, IL 62258

AgriMAXX 454
AgriMAXX 473
AgriMAXX 485
AgriMAXX 492
AgriMAXX 495
AgriMAXX 496
AgriMAXX 503
AgriMAXX 505
AgriMAXX EXP 2003

AgriPro

14031 Trestle Rd.
Highland, IL 62249

SYNGENTA SY 007
SYNGENTA SY 547
SYNGENTA SY 576
SYNGENTA SY RITCHIE
SYNGENTA SY VIPER

Dyna-Gro Seed

2660 Orr Rd.
Bloomville, OH 44818

Dyna-Gro 9002
Dyna-Gro 9070
Dyna-Gro 9692
Dyna-Gro 9701
Dyna-Gro 9932
Dyna-Gro 9941
Dyna-Gro WX19713
Dyna-Gro WX20731
Dyna-Gro WX20737

Kentucky American Seeds, Inc.

205 Means Ave.
Hopkinsville, KY 42240

KAS 19X21
KAS 19X24
KAS 19X27
KAS ADAMS
KAS EISENHOWER
KAS RAGE

Kentucky Foundation Seed Project

University of Kentucky
PO Box 11950
Lexington, KY 40579

KY06C-1178-16-10-3-34
KY07C-1145-94-12-5
KY09C-1245-99-1-5
KY09C-1245-99-12-3
KY10-0178-1-2-5
X10-0594-7-1-3
X11-0170-52-3-3
X11-0374-104-13-5
X11-0420-120-13-3
X12-3010-3-5-3
X12-3010-4-4-1
X12-619-205-14-1

Kentucky Small Grain Growers Association

PO Box 90
Eastwood, KY 40018

PEMBROKE 2016

KWS Seeds

4101 Colleen Dr.
Champaign, IL 61822

KWS246
KWS333

Limagrain Cereal Seeds

7099 Parkborrk Lane
Cordova, TN 38018

LCS L11713
LCS L11719

Local Seed

802 Rozelle St.
Memphis, TN 38104

LOCAL LW 2046
LOCAL LW 2068
LOCAL LW 2848
LOCAL LW 2937
LOCAL LW 2958
LOCAL LWX20C

Northern Star Seed

114 S. Earl Ave.
Lafayette, IN 47904

NSS EXP119
NSS EXP219

List of Tables

Table 3.	2019 Wheat Trial—State Summary
Table 4.	2020 Wheat Trial—State Summary
Table 5.	Wheat Forage/Cover Crop Trial
Table 6.	Wheat Trial—Purchase Region
Table 7.	Wheat Trial—Western Coal Field Region
Table 8.	Wheat Trial—Ohio Valley Region
Table 9.	Wheat Trial—Southern Tier Region A
Table 10.	Wheat Trial—Southern Tier Region B
Table 11.	Wheat Trial—North Central Region
Table 12.	Wheat Trial—Bluegrass Region
Table 13.	Disease Ratings
Table 14.	Wheat Metribuzin Tolerance Trial
Table 15.	Hulless Barley Variety Trial
Table 16.	Barley Variety Trial
Table 17.	Cereal Rye Variety Trial
Table 18.	Triticale Variety Trial
Table 19.	Oat Variety Trial
Table 20.	Spelt Variety Trial

Progeny AG Products

1529 Hwy 193
Wynne, AR 72396

PROGENY #BERKELEY
PROGENY #BLAZE
PROGENY #BULLET
PROGENY PGX18-8
PROGENY PGX18-11
PROGENY PGX18-7
PROGENY PGX18-9
PROGENY PGX19-10
PROGENY PGX19-11
PROGENY PGX19-12
PROGENY PGX19-17
PROGENY PGX19-3

Stratton Seed

PO Box 1088
Stuttgart, AR 72160

AGS 2055
Go Wheat 4010
Go Wheat 4059S
Go Wheat 5056
Go Wheat Wild Feral Forage
Go Wheat 2058
Go Wheat 2059

University of Missouri

Columbia, MO 65211

Bess
Truman

UniSouth Genetics

3205-C Hwy. 465
Dickson, TN 37055

USG 3221
USG 3316
USG 3329
USG 3790

Virginia Tech

PO Box 338
Warsaw, VA 22572

HILLIARD
13VTK429-3
LIBERTY 5658

Winfield

1080 County Road F
West Shoreview, MN 55126

CROPLAN CP8015
CROPLAN CP8022
CROPLAN CP8081
CROPLAN CP8800

Table 3. 2019 Kentucky Wheat Variety Trial—State Summary.*

Variety	Yield (bu/a)			Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
	2019	2018-19	2017-19	2019	2019	2019
Pioneer variety 26R59	102.5	88.5	90.7	58.3	31	25
KAS RAGE	101.7	89.1	90.7	59.3	35	27
Dyna-Gro WX19713	100.9			61.0	36	27
USG 3316	99.9	88.8	89.4	59.1	35	27
Dyna-Gro WX19714	99.9			57.6	34	26
GoWheat 2058	99.7	84.5	87.4	59.5	31	25
KWS 19X09	99.7			58.1	36	24
Pioneer variety 26R36	99.7	86.6	88.4	59.6	36	26
Pioneer variety 26R10	98.9	86.6	89.6	58.7	35	26
USG 3404	98.4	85.7	88.0	58.7	36	28
ARMOR ARW1815	98.4			61.3	36	27
Dyna-Gro 9941	98.3	85.5		58.4	35	26
AgriMAXX 454	98.2	87.8	90.1	59.2	35	27
AgriMAXX 496	98.0			59.1	34	27
Dyna-Gro WX19711	97.7			59.8	33	26
SYNGENTA SY 100	97.7	83.5	86.3	56.1	34	26
Pioneer variety 26R45	97.7	83.7	86.5	57.3	36	26
Dyna-Gro 9002	97.7			59.1	36	25
ARMOR ARW1816	97.5			57.9	34	27
KY06C-1178-16-10-3-34	97.5			59.3	37	26
PROGENY #WARRIOR	97.4	84.1	86.8	58.3	34	24
Go Wheat 4010	97.2			58.8	35	25
LOCAL LW 2937	96.8			58.6	34	26
PROGENY #BULLET	96.8	84.5	86.6	58.9	37	27
KAS Roosevelt	96.7	84.7		58.4	36	26
LCS L11713	96.7			60.4	34	23
AgriMAXX 492	96.5			60.3	34	23
Dyna-Gro 9701	96.3	85.0	86.4	58.9	37	27
CROPLAN CP8550	96.3	84.0	86.4	58.9	37	26
ARMOR MAYHEM	96.3	83.8	86.5	59.0	37	26
KY07C-1145-94-12-5	96.2	83.8	83.8	59.6	34	24
AgriMAXX 473	96.1	83.5	85.8	58.9	37	26
LCS L11719	96.0	83.0		58.8	33	26
X11-0420-120-13-3	96.0			59.2	37	26
Pioneer variety 26R41	95.8	82.8	85.4	59.1	33	26
PROGENY PGX 18-2	95.6			60.5	34	23
KY09C-1245-99-12-3	95.6	82.4		59.3	35	24
SYNGENTA SX 8146	95.4			58.3	38	30
ARMOR VELOCITY	95.3			59.4	35	25
ARMOR SPIRIT	95.2			60.1	34	23
CROPLAN CP8800	95.2			58.2	37	26
SYNGENTA SY VIPER	95.2	84.7	84.5	59.8	37	24
X12-3010-3-5-3	95.1			58.9	33	25
KY09C-1245-99-1-5	95.1			60.7	35	25

continued

Table 3. (continued)

Variety	Yield (bu/a)			Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
	2019	2018-19	2017-19	2019	2019	2019
ARMOR ARW1819	95.0			58.9	33	26
Dyna-Gro 9932	94.9	83.9		60.1	35	26
KAS 19X9EX	94.8			59.6	33	24
KAS Truman 18X6	94.7			59.9	36	27
LOCAL LW 2848	94.6			58.7	36	26
PEMBROKE 2016	94.6	81.8	82.4	59.0	33	24
USG 3329	94.6	83.6		58.2	36	26
LOCAL LW Ex19D	94.5			59.2	33	26
PROGENY #BLAZE	94.3	84.1	87.8	58.1	36	26
ARMOR ARW1766	94.2	86.5		60.5	36	24
PROGENY PGX 18-8	94.1			59.2	33	26
AgriMAXX 486	94.0	84.6	86.7	59.1	37	27
CROPLAN CP9606	93.7	82.5	85.2	57.7	35	25
KY10-0178-1-2-5	93.7			60.7	34	25
AgriMAXX 485	93.6	84.1	86.9	59.5	35	28
SYNGENTA SX 8186	93.2			57.9	32	22
X10-0594-7-1-3	93.1			59.2	35	25
CROPLAN CP9415	93.1	83.5	87.3	58.9	34	26
PROGENY PGX 17-16	93.0	83.5		60.2	37	26
AgriMAXX EXP 1906	92.9			59.9	36	24
Dyna-Gro 9862	92.9	83.3	86.2	59.8	35	28
Liberty 5658	92.8			59.3	35	25
AgriMAXX 495	92.8			59.4	35	26
SYNGENTA SY 547	92.7	83.6	82.7	58.9	39	25
Go Wheat EXP18-1	92.5			59.7	34	29
KWS 19X03	92.3			58.5	32	28
LOCAL LW 2958	92.2			59.9	36	27
X12-619-205-14-1	92.1			60.1	35	25
GoWheat 2059	92.0	80.6	83.4	58.3	32	24
AgriMAXX 463	91.6	80.9	83.6	58.1	32	24
KAS Lincoln	91.3	82.5		59.7	34	28
LOCAL LW 2867	91.0			59.4	34	29
PEMBROKE 2014	90.8	79.2	79.7	59.5	31	23
PEMBROKE 2008	89.6	77.2	78.1	59.6	34	24
Truman	89.4	76.4	75.9	58.5	43	32
ARMOR VENOM	88.8			59.2	37	27
DH12SRW057-006	87.3			60.9	32	25
Dyna-Gro 9980	87.1			59.3	32	24
Bess	85.6	74.5		60.2	39	26
Average	95.1	83.6	85.8	59.2	35	26
C.V.	6.8	7.4	7.7			
LSD (0.10)	5.4	7.6	6.4			

*Summary of four tests—(Caldwell, Logan, Todd, Fulton Counties).

Freeze damage: 2019 results recommended for variety selection decisions due to 2020 freeze damage.

**Table 4. 2020 Kentucky Wheat Variety Trial—
State Summary.***

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
Go Wheat 4059S	78.5	59.7	37	24
SYNGENTA SY 576	78.2	58.8	38	26
Dyna-Gro WX19713	78.1	61.2	37	23
AgriMAXX 505	77.4	60.8	37	23
Truman	77.2	59.9	43	30
X11-0170-52-3-3	76.6	58.8	37	24
AgriMAXX 485	76.6	59.9	36	24
KAS ADAMS	75.9	61.0	37	23
X12-3010-4-4-1	75.8	58.7	38	24
USG 3316	74.3	57.7	37	23
AgriMAXX 454	74.0	58.2	37	22
AgriMAXX 496	73.8	57.4	35	23
KAS RAGE	73.1	58.7	36	22
CROPLAN CP8022	72.5	58.4	36	23
PROGENY PGX19-10	72.2	58.2	35	23
Dyna-Gro 9692	72.1	58.6	36	22
Go Wheat 5056	71.4	58.8	35	22
AgriMAXX 503	70.9	59.0	39	23
PROGENY PGX 18-8	69.9	58.6	35	22
LOCAL LW2937	69.5	57.6	36	23
USG 3790	69.1	58.7	35	22
Dyna-Gro 9941	68.3	57.3	36	23
Go Wild Feral Forage	68.1	57.7	41	22
PROGENY PGX19-11	67.9	58.6	36	23
CROPLAN CP8015	67.6	57.6	36	23
KY09C-1245-99-1-5	66.6	60.2	35	20
KAS 19X27	66.5	58.4	36	22
LOCAL LWX20C	66.5	58.2	36	22
KY06C-1178-16-10-3-34	65.9	58.4	38	23
Dyna-Gro WX20731	65.7	58.5	36	22
PROGENY #BULLET	65.2	58.6	39	23
X12-3010-3-5-3	65.1	58.7	33	21
PROGENY PGX19-3	64.9	59.2	38	23
USG 3329	64.6	58.2	37	21
PROGENY PGX19-12	64.0	56.8	37	21
X11-0420-120-13-3	63.9	59.5	37	21
LOCAL LW2958	63.9	60.0	37	23
X10-0594-7-1-3	63.7	59.5	36	22
LOCAL LW2848	63.2	58.2	38	23
KAS 19X21	63.1	57.3	36	22
AgriMAXX 473	62.6	58.3	38	22
Dyna-Gro 9701	62.6	58.2	38	22
PROGENY PGX18-7	62.1	58.7	35	21
AgriMAXX EXP 2003	61.8	56.8	35	21
KAS EISENHOWER	61.5	57.3	35	22
KY10-0178-1-2-5	61.4	59.2	34	21

continued

Table 4. (continued)

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
SYNGENTA SY 547	61.1	57.8	39	19
PROGENY PGX18-9	61.1	57.5	35	21
KAS 19X24	60.9	60.4	36	23
PROGENY #BLAZE	60.9	58.3	37	21
LOCAL LW2068	60.8	57.3	35	22
KY09C-1245-99-12-3	60.6	57.6	35	20
LOCAL LW2046	59.8	58.6	36	22
13VTK429-3	59.0	60.0	36	21
Dyna-Gro 9932	58.8	58.0	36	22
NSS EXP119	58.3	57.2	36	22
KWS246	57.4	56.0	35	20
KY07C-1145-94-12-5	57.2	59.4	35	18
PROGENY PGX19-17	57.0	56.0	32	19
Dyna-Gro 9070	55.7	57.8	36	21
AgriMAXX 495	55.3	58.5	36	22
Go Wheat 4010	55.3	57.6	36	20
Liberty 5658	54.9	59.4	37	20
CROPLAN CP8800	54.5	56.9	37	21
Bess	54.5	59.5	39	20
SYNGENTA SY VIPER	54.1	58.1	38	18
NSS EXP219	53.9	57.1	36	20
Dyna-Gro 9002	53.5	57.8	36	21
X12-619-205-14-1	50.8	59.2	34	20
CROPLAN CP8081	48.4	56.5	35	18
Dyna-Gro WX20737	47.4	54.6	35	19
KWS333	46.9	55.3	37	20
LCS L11919	46.5	54.1	33	18
HILLIARD	45.3	56.0	36	18
GoWheat 2059	44.4	52.1	33	20
Clark	42.9	56.1	36	19
GoWheat 2058	42.6	53.3	32	20
SYNGENTA SY RITCHIE	41.9	51.1	33	17
PEMBROKE 2016	40.1	52.8	34	18
X11-0374-104-13-5	38.7	49.9	35	18
PROGENY PGX18-11	37.3	49.6	34	18
PROGENY #BERKELEY	35.5	47.7	33	17
LCS L11713	34.2	46.8	34	17
AgriMAXX 492	34.0	48.5	33	16
SYNGENTA SY 007	33.5	47.0	35	16
USG 3221	32.2	47.8	33	18
Average	60.2	57.1	36	21
C.V.	12.6			
LSD (0.10)	5.6			

*Summary of five 2020 trials—(Caldwell, Logan, Christian, Webster, Fulton Counties).

Freeze damage: 2020 trials damaged by 4-15-2020 freeze. Not recommended for variety selection.

**Table 5. 2020 Kentucky Wheat Variety Forage/
Cover Crop Trial.**

Variety	Soft Dough Stage Dry Matter (tons/a)		Cover Crop* Canopy (%)	Head Type
	2020	2019-20	2020	
13VTKA2:F82429-3	4.25		27	Bearded
SYNGENTA SY 576	4.19		24	Bearded
Liberty 5658	4.11	3.18	39	Bearded
KY07C-1145-94-12-5	4.04	3.32	36	Awnless
PROGENY PGX19-17	4.00		39	Awnless
HILLIARD	4.00		33	Bearded
X10-0594-7-1-3	3.98	3.32	29	Awnless
Dyna-Gro 9692	3.93		30	Bearded
X11-0374-104-13-5	3.93		35	Awnless
X11-0420-120-13-3	3.92	3.22	29	Bearded
AgriMAXX 454	3.91	3.20	26	Bearded
KY06C-1178-16-10-3-34	3.86	3.14	30	Bearded
Go Wild Feral Forage	3.85		23	Awnless
AgriMAXX 492	3.84	3.11	25	Bearded
PROGENY #BLAZE	3.81	3.44	28	Bearded
SYNGENTA SY VIPER	3.78	3.11	24	Awnless
KAS 19X24	3.75		37	Bearded
KAS RAGE	3.74		26	Bearded
PEMBROKE 2016	3.74	3.19	34	Bearded
PROGENY PGX19-10	3.68		27	Bearded
LOCAL LW2958	3.67	3.13	33	Bearded
Truman	3.64	2.94	28	Awnless
KAS ADAMS	3.61		39	Bearded
PEMBROKE 2014	3.61	2.96	39	Bearded
USG 3221	3.60		33	Bearded
PROGENY #BULLET	3.59	2.86	34	Bearded
PROGENY PGX18-9	3.59		36	Bearded
PROGENY PGX19-11	3.58		25	Bearded
PROGENY PGX19-12	3.57		31	Bearded
AgriMAXX 505	3.56		38	Bearded
NSS EXP119	3.53		29	Bearded
LCS L11713	3.52	2.99	24	Bearded
LOCAL LW2046	3.52		27	Bearded
PEMBROKE 2008	3.51	2.96	33	Bearded
USG 3316	3.46	3.11	27	Bearded
Dyna-Gro WX19713	3.45	3.09	34	Bearded
PROGENY #BERKELEY	3.43		37	Bearded
Dyna-Gro 9701	3.41	2.87	29	Bearded
GoWheat 2059	3.41	2.83	37	Awnless
USG 3329	3.40	2.98	29	Bearded
LOCAL LW2068	3.39		35	Bearded
KY09C-1245-99-12-3	3.37	3.06	24	Awnless
AgriMAXX 473	3.37	2.88	28	Bearded
KAS 19X27	3.36		25	Bearded
SYNGENTA SY 007	3.36		26	Bearded
PROGENY PGX18-7	3.35		31	Bearded
SYNGENTA SY RITCHIE	3.34		26	Awnless

continued

Table 5. (continued)

Variety	Soft Dough Stage Dry Matter (tons/a)		Cover Crop* Canopy (%)	Head Type
	2020	2019-20	2020	
NSS EXP219	3.32		31	Bearded
USG 3790	3.31		21	Bearded
LOCAL LW2937	3.30	2.58	32	Bearded
KY10-0178-1-2-5	3.30	2.79	28	Awnless
SYNGENTA SY 547	3.29	2.87	30	Awnless
LCS L11919	3.28		29	Awnless
KAS 19X21	3.28		34	Bearded
KY09C-1245-99-1-5	3.28	2.90	27	Awnless
Dyna-Gro 9941	3.27	3.09	27	Bearded
KWS333	3.27		25	Bearded
X12-619-205-14-1	3.26	3.02	36	Bearded
AgriMAXX 503	3.26		24	Awnless
KWS246	3.25		24	Bearded
Dyna-Gro WX20737	3.25		32	Bearded
X12-3010-3-5-3	3.25	2.92	29	Tip-Awned
PROGENY PGX18-11	3.25		29	Awnless
Dyna-Gro 9932	3.23	2.75	36	Bearded
CROPLAN CP8081	3.21		33	Bearded
X11-0170-52-3-3	3.21		36	Awnless
CROPLAN CP8800	3.21	2.79	26	Bearded
Clark	3.20		37	Awnless
LOCAL LW2848	3.20	2.68	25	Bearded
CROPLAN CP8015	3.19		27	Bearded
AgriMAXX EXP 2003	3.18		33	Bearded
X12-3010-4-4-1	3.18		19	Awnless
AgriMAXX 496	3.17	2.64	25	Bearded
Go Wheat 5056	3.16		27	Bearded
Go Wheat 4010	3.13	3.02	31	Bearded
GoWheat 2058	3.11	2.93	29	Bearded
AgriMAXX 495	3.10	2.64	29	Bearded
PROGENY PGX 18-8	3.10	2.76	30	Bearded
Go Wheat 4059S	3.08	2.81	28	Awnless
Dyna-Gro WX20731	3.06		23	Bearded
KAS EISENHOWER	3.02		33	Bearded
CROPLAN CP8022	3.02		27	Bearded
Dyna-Gro 9002	2.98	2.78	19	Bearded
Dyna-Gro 9070	2.97		27	Bearded
AgriMAXX 485	2.95	2.72	31	Awnless
LOCAL LWX20C	2.85		27	Bearded
Bess	2.84	2.72	29	Awnless
PROGENY PGX19-3	2.82		19	Awnless
Average	3.43	2.96	30	
C.V.	12.23	13.15	14	
LSD (0.10)	0.70	0.48	7	

*Winter cover crop/grazing biomass estimate (% canopy coverage using Canopeo): measured: 1-14-2020.

Location: Bluegrass Region—Fayette County
Planting date: 10-5-2019; conventional tillage; dry matter yield harvest date at soft dough stage: 5-22-2020.

**Table 6. 2020 Kentucky Wheat Variety Trial—
Purchase Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
Truman	96.8	58.1	43	25
SYNGENTA SY 576	95.1	57.9	37	20
X12-3010-4-4-1	85.8	56.3	39	17
Go Wheat 4059S	81.5	57.7	36	18
LOCAL LW2937	79.0	55.9	35	18
AgriMAXX 485	78.7	58.1	36	17
KAS ADAMS	77.1	60.1	37	17
X11-0170-52-3-3	76.9	57.9	36	17
AgriMAXX 496	76.8	55.6	34	17
Dyna-Gro WX19713	76.7	60.2	38	17
AgriMAXX 505	76.2	59.8	37	17
CROPLAN CP8022	71.3	55.6	35	17
Dyna-Gro 9941	70.4	56.2	35	18
CROPLAN CP8015	69.6	54.5	35	17
Go Wheat 5056	69.0	58.4	34	17
USG 3790	66.8	58.6	35	17
X11-0420-120-13-3	66.5	56.7	36	17
KAS RAGE	65.8	56.3	35	16
AgriMAXX 454	65.6	55.7	35	16
Dyna-Gro 9692	65.5	56.2	35	17
KAS 19X21	65.4	55.6	35	17
AgriMAXX 503	65.1	56.9	39	18
PROGENY PGX19-10	64.9	57.7	34	18
USG 3316	64.9	53.0	35	16
KY09C-1245-99-1-5	64.1	57.1	33	16
PROGENY PGX 18-8	63.8	56.7	34	16
KAS 19X24	63.6	59.4	36	19
PROGENY PGX19-11	60.5	56.4	34	17
Dyna-Gro 9701	60.0	54.2	37	17
PROGENY PGX18-7	59.6	54.6	32	16
PROGENY PGX19-12	59.4	54.8	35	15
AgriMAXX 473	58.9	54.8	37	17
LOCAL LW2848	58.4	53.0	37	16
NSS EXP119	58.3	55.0	35	17
KY06C-1178-16-10-3-34	57.7	56.2	37	17
X10-0594-7-1-3	57.6	57.1	35	17
KAS 19X27	57.2	57.3	35	16
Dyna-Gro 9932	57.0	57.1	34	17
PROGENY PGX19-3	57.0	55.0	37	17
LOCAL LW2046	56.8	54.9	34	16
PROGENY #BULLET	56.7	55.5	37	16
USG 3329	56.4	56.2	36	15
LOCAL LWX20C	56.1	56.0	33	15
LOCAL LW2958	55.9	57.2	37	17
AgriMAXX EXP 2003	54.3	56.2	35	15
SYNGENTA SY VIPER	54.1	56.9	37	13

continued

Table 6. (continued)

Variety	Yield (bu/a)	Test Wt. (lb/Bu)	Height (in)	Heading Date > April 1
KY07C-1145-94-12-5	54.0	57.0	34	13
KWS333	53.9	54.9	35	14
Dyna-Gro WX20731	52.6	57.0	35	16
CROPLAN CP8800	52.0	54.1	36	15
SYNGENTA SY 547	51.6	54.5	37	13
KAS EISENHOWER	50.4	53.8	34	15
AgriMAXX 495	50.2	56.1	35	16
LOCAL LW2068	50.0	54.9	35	16
X12-3010-3-5-3	49.8	55.6	31	14
KWS246	49.1	51.9	34	14
PROGENY PGX19-17	48.7	52.9	31	13
Dyna-Gro 9070	48.2	54.5	34	15
PROGENY PGX18-9	47.5	55.9	35	15
PROGENY #BLAZE	46.9	56.2	36	15
13VTK429-3	46.3	56.3	34	16
KY10-0178-1-2-5	44.5	54.3	33	15
Liberty 5658	43.4	54.0	35	14
Go Wild Feral Forage	41.3	53.9	39	16
LCS L11919	41.3	54.2	33	13
SYNGENTA SY RITCHIE	40.0	55.2	34	12
Dyna-Gro WX20737	39.9	55.5	34	13
KY09C-1245-99-12-3	39.4	56.0	33	14
Go Wheat 4010	38.4	53.0	33	15
GoWheat 2059	37.6	50.0	32	14
SYNGENTA SY 007	37.2	53.9	34	12
HILLIARD	36.7	53.1	36	13
PEMBROKE 2016	36.5	51.6	34	12
GoWheat 2058	36.1	54.3	33	14
USG 3221	35.8	51.4	32	13
NSS EXP219	35.6	53.2	34	16
PROGENY PGX18-11	35.3	54.7	33	13
X12-619-205-14-1	34.2	54.1	33	13
Bess	34.1	54.1	38	14
LCS L11713	33.8	54.7	33	12
CROPLAN CP8081	32.9	52.9	34	13
Dyna-Gro 9002	32.6	55.2	34	14
PROGENY #BERKELEY	31.5	50.1	33	13
AgriMAXX 492	30.1	53.0	33	13
Clark	30.0	49.4	35	13
X11-0374-104-13-5	27.3	54.5	35	13
Average	54.8	55.4	35	15
C.V.	14.3			
LSD (0.10)	13.0			

Location: Fulton County

Planting date: 10-9-19; no-till.

Harvest date: 6-15-20; lodging = 0%.

Freeze damage: Results not recommended for variety selection. West Kentucky freeze date: 4-15-2020. Moderate freeze damage.

**Table 7. 2020 Kentucky Wheat Variety Trial—
Western Coal Field Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
PROGENY PGX19-10	83.1	58.7	34	26
Dyna-Gro 9692	82.4	59.4	36	25
KAS RAGE	82.3	60.0	36	25
Dyna-Gro WX19713	82.1	63.1	36	26
AgriMAXX 454	81.8	59.4	37	25
KAS ADAMS	81.2	63.2	36	25
USG 3316	80.6	59.6	37	25
AgriMAXX 505	80.2	62.0	36	26
X10-0594-7-1-3	79.5	60.6	36	24
Go Wild Feral Forage	79.3	59.1	41	26
NSS EXP219	79.0	59.5	36	24
SYNGENTA SY 547	78.9	61.1	38	24
X12-3010-3-5-3	78.8	60.3	33	24
PROGENY PGX 18-8	78.1	58.5	35	25
X12-3010-4-4-1	78.1	60.1	38	27
Go Wheat 5056	77.9	59.8	35	25
X11-0170-52-3-3	77.7	59.3	36	27
PROGENY PGX19-17	77.7	59.1	35	23
LOCAL LW2937	77.7	58.7	36	25
PROGENY PGX19-12	77.3	58.4	38	24
AgriMAXX 485	77.2	60.8	36	27
PROGENY #BULLET	77.0	60.3	39	25
Go Wheat 4059S	76.9	60.8	36	27
AgriMAXX 503	76.2	59.5	39	26
CROPLAN CP8022	75.9	59.5	33	26
KAS 19X21	75.8	58.0	36	25
KY06C-1178-16-10-3-34	75.5	59.9	39	25
13VTK429-3	75.4	61.5	37	25
KY09C-1245-99-12-3	74.9	60.5	36	22
KY09C-1245-99-1-5	74.4	61.7	36	23
Dyna-Gro 9002	74.2	59.3	37	24
SYNGENTA SY 576	73.7	59.5	37	30
PROGENY PGX19-3	73.6	60.5	38	27
LOCAL LW2068	73.6	58.8	35	24
X11-0420-120-13-3	73.5	60.9	35	25
KWS246	73.5	59.1	36	24
AgriMAXX EXP 2003	73.4	58.9	35	24
Dyna-Gro WX20731	73.4	59.6	36	25
CROPLAN CP8015	72.8	59.8	34	25
Go Wheat 4010	72.6	60.3	36	25
KAS EISENHOWER	72.1	59.3	35	24
AgriMAXX 496	71.9	59.3	34	26
LOCAL LW2848	71.8	59.8	38	25
LOCAL LW2958	71.0	60.6	37	25
PROGENY PGX18-9	70.9	59.0	34	24
Dyna-Gro 9941	70.7	58.5	35	26

continued

Table 7. (continued)

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
USG 3790	70.5	59.3	34	26
AgriMAXX 473	70.4	59.8	38	25
Dyna-Gro 9701	70.3	59.8	38	25
Dyna-Gro 9932	70.3	61.2	36	25
PROGENY PGX18-7	69.7	60.4	36	24
NSS EXP119	69.1	59.2	36	25
KY10-0178-1-2-5	68.9	61.1	34	24
LOCAL LWX20C	68.9	59.3	36	25
KAS 19X27	68.8	59.8	36	25
USG 3329	68.4	59.1	36	24
AgriMAXX 495	68.1	61.1	36	25
Truman	68.1	61.4	43	34
PROGENY #BLAZE	67.3	58.5	36	24
Bess	67.3	61.2	38	23
LOCAL LW2046	67.2	60.3	35	26
KAS 19X24	66.9	62.1	36	25
X12-619-205-14-1	66.7	61.3	33	22
CROPLAN CP8800	66.6	59.0	37	25
Dyna-Gro 9070	65.7	59.2	36	24
KY07C-1145-94-12-5	65.7	62.0	36	21
PROGENY PGX19-11	64.4	59.5	34	26
CROPLAN CP8081	63.4	60.3	36	22
SYNGENTA SY VIPER	58.4	61.9	39	20
X11-0374-104-13-5	58.1	59.9	35	24
KWS333	57.4	58.3	37	22
Dyna-Gro WX20737	57.0	61.4	35	23
HILLIARD	56.7	60.7	36	22
Clark	56.4	59.9	39	23
Liberty 5658	56.0	61.6	36	22
GoWheat 2059	55.4	59.3	33	23
GoWheat 2058	53.6	60.9	32	23
PEMBROKE 2016	49.8	61.3	32	22
SYNGENTA SY RITCHIE	48.9	58.4	33	20
LCS L11919	47.9	58.5	33	21
PROGENY PGX18-11	42.9	58.1	34	20
PROGENY #BERKELEY	40.8	58.2	34	19
AgriMAXX 492	40.5	56.9	33	17
LCS L11713	38.6	57.1	33	19
USG 3221	34.5	54.6	33	20
SYNGENTA SY 007	33.2	53.0	34	19
Average	68.5	59.8	36	24
C.V.	10.2			
LSD (0.10)	11.5			

Location: Caldwell County (Princeton, KY)

Planting date: 10-15-19; conventional tillage.

Harvest date: 6-17-20; lodging = 0%.

Freeze damage: Results not recommended for variety selection.

West Kentucky freeze date: 4-15-2020. Minor/moderate freeze damage.

**Table 8. 2020 Kentucky Wheat Variety Trial—
Ohio Valley Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
PROGENY PGX19-12	95.9	57.2	37	27
X11-0170-52-3-3	93.0	58.7	36	29
USG 3329	91.9	57.7	37	26
LCS L11919	89.5	59.4	36	25
Dyna-Gro WX20731	89.4	58.8	35	28
Dyna-Gro 9941	89.3	55.5	35	28
AgriMAXX 503	89.1	59.1	37	28
AgriMAXX 454	88.1	58.4	35	28
LOCAL LW2937	87.4	57.2	34	28
NSS EXP219	87.3	56.8	37	27
PROGENY PGX 18-8	87.1	59.3	34	28
Go Wild Feral Forage	86.8	57.9	40	28
PROGENY PGX19-17	86.7	55.9	32	26
X12-3010-3-5-3	86.5	58.6	32	27
PROGENY PGX19-11	85.0	59.1	35	28
KAS 19X21	85.0	56.5	36	28
KY09C-1245-99-1-5	84.9	59.9	35	27
Liberty 5658	84.8	60.4	37	26
AgriMAXX 496	84.7	56.9	34	28
Dyna-Gro 9932	84.6	59.6	36	28
KAS 19X27	84.3	58.3	34	29
Dyna-Gro WX19713	84.2	59.3	35	29
PROGENY PGX18-7	84.1	59.4	34	27
KWS246	84.0	55.9	36	25
LOCAL LWX20C	83.8	58.7	35	29
X11-0420-120-13-3	83.6	59.5	37	28
PROGENY #BULLET	83.5	58.8	38	29
KY09C-1245-99-12-3	83.3	58.4	35	26
AgriMAXX 505	83.3	59.4	36	29
CROPLAN CP8022	83.2	58.3	34	28
PROGENY PGX18-9	82.9	57.2	34	28
KAS EISENHOWER	82.9	57.2	34	29
USG 3790	82.9	58.8	34	28
AgriMAXX EXP 2003	82.5	57.5	34	28
Dyna-Gro WX20737	82.4	58.6	35	25
KY07C-1145-94-12-5	82.4	60.4	35	25
LOCAL LW2068	82.4	57.2	34	29
Go Wheat 4059S	82.2	59.8	35	29
USG 3316	82.0	58.4	34	29
Go Wheat 5056	82.0	58.9	33	28
AgriMAXX 473	81.8	58.4	38	28
Dyna-Gro 9701	81.2	58.4	38	28
SYNGENTA SY VIPER	81.1	58.0	38	26
KAS RAGE	81.1	59.2	34	28
Dyna-Gro 9692	80.9	59.6	34	28
X12-619-205-14-1	80.6	61.2	33	26

continued

Table 8. (continued)

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
AgriMAXX 485	80.3	60.1	35	30
CROPLAN CP8015	79.8	57.2	34	28
KY10-0178-1-2-5	79.8	59.8	33	27
Go Wheat 4010	79.8	57.6	35	26
CROPLAN CP8081	79.3	59.3	36	25
Dyna-Gro 9070	79.2	58.1	36	26
X12-3010-4-4-1	79.1	58.7	36	29
PROGENY PGX19-10	78.7	58.2	32	29
KAS ADAMS	78.7	59.3	35	29
Dyna-Gro 9002	77.9	56.5	35	28
SYNGENTA SY 547	77.6	57.3	37	26
GoWheat 2059	77.3	56.7	32	26
SYNGENTA SY RITCHIE	76.9	58.3	35	24
PROGENY PGX19-3	76.9	59.4	36	28
LOCAL LW2848	76.8	59.1	38	30
LOCAL LW2958	76.4	59.4	35	28
PROGENY #BLAZE	76.0	59.7	36	27
GoWheat 2058	75.9	58.9	32	26
HILLIARD	75.6	59.0	37	23
X10-0594-7-1-3	75.0	59.6	35	28
Bess	74.9	60.4	38	27
LOCAL LW2046	74.4	58.9	35	28
KY06C-1178-16-10-3-34	73.9	57.2	35	30
CROPLAN CP8800	73.8	57.3	36	28
AgriMAXX 495	72.4	60.0	35	28
NSS EXP119	72.1	56.9	34	28
KAS 19X24	71.8	60.1	35	29
SYNGENTA SY 576	71.8	57.8	36	30
X11-0374-104-13-5	70.6	59.4	35	24
Truman	70.5	60.4	40	33
13VTK429-3	70.4	60.5	33	28
LCS L11713	69.6	59.9	35	23
PROGENY #BERKELEY	68.9	57.6	35	25
PROGENY PGX18-11	68.7	57.6	35	25
Clark	68.6	58.8	33	26
PEMBROKE 2016	68.0	59.1	33	25
AgriMAXX 492	67.1	59.4	34	24
SYNGENTA SY 007	65.8	58.5	36	22
KWS333	62.2	55.3	35	26
USG 3221	56.2	53.6	34	23
Average	79.7	58.5	35	27
C.V.	10.0			
LSD (0.10)	13.2			

Location: Webster County

Planting date: 10-8-19; no-till.

Harvest date: 6-18-20; lodging = 0%.

Freeze damage: Results not recommended for variety selection. West Kentucky freeze date: 4-15-2020. Minor freeze damage.

**Table 9. 2020 Kentucky Wheat Variety Trial—
Southern Tier Region A.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
X12-3010-4-4-1	80.6	59.3	42	23
Go Wild Feral Forage	79.1	59.3	46	22
Go Wheat 4059S	74.8	60.0	39	23
Dyna-Gro WX19713	73.9	61.5	39	22
KAS ADAMS	73.8	61.1	39	22
SYNGENTA SY 576	72.3	59.8	42	25
USG 3316	72.1	58.4	40	23
AgriMAXX 503	71.3	60.6	40	23
AgriMAXX 485	70.6	59.8	38	24
AgriMAXX 505	70.3	61.0	39	22
PROGENY PGX19-10	70.2	58.2	36	23
Truman	69.9	60.8	45	28
CROPLAN CP8022	69.3	59.5	37	23
PROGENY PGX19-3	68.3	60.8	40	23
X11-0170-52-3-3	68.0	58.9	38	23
KAS RAGE	67.8	58.8	39	22
AgriMAXX 496	67.3	59.8	38	23
X12-3010-3-5-3	66.1	60.2	37	21
13VTK429-3	65.6	61.8	38	22
Dyna-Gro 9692	64.8	58.6	39	22
KY10-0178-1-2-5	64.8	60.8	37	22
AgriMAXX 454	64.3	58.4	39	22
PROGENY #BULLET	64.0	60.3	41	23
Go Wheat 5056	62.9	58.3	37	22
PROGENY PGX19-11	62.8	58.6	39	23
Bess	61.2	61.5	43	20
KY09C-1245-99-1-5	61.1	61.5	37	20
USG 3790	60.8	57.7	37	22
KY06C-1178-16-10-3-34	60.7	59.0	41	21
LOCAL LW2848	60.5	59.8	41	23
SYNGENTA SY 547	60.3	59.6	42	20
KY09C-1245-99-12-3	59.4	60.0	38	21
LOCAL LW2937	58.7	58.9	38	23
CROPLAN CP8015	57.1	57.8	38	23
KAS 19X27	56.8	57.8	38	23
AgriMAXX 473	55.5	59.0	40	22
Dyna-Gro 9701	55.3	59.5	40	21
Dyna-Gro 9941	55.1	58.1	37	23
LOCAL LW2958	54.2	61.4	39	23
USG 3329	53.8	58.5	40	21
X10-0594-7-1-3	53.5	59.7	37	21
PROGENY #BLAZE	51.9	57.8	37	22
X11-0420-120-13-3	51.4	60.2	39	21
LOCAL LW2046	51.3	59.6	39	22
KAS EISENHOWER	50.9	58.0	36	22
KAS 19X24	50.2	61.2	37	22

continued

Table 9. (continued)

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
PROGENY PGX 18-8	50.2	59.0	35	23
PROGENY PGX18-7	50.0	59.9	38	21
Dyna-Gro WX20731	49.9	58.5	38	23
PROGENY PGX18-9	49.5	57.1	36	21
LOCAL LWX20C	48.9	57.6	38	22
AgriMAXX EXP 2003	48.3	58.3	36	21
LOCAL LW2068	47.6	57.3	36	21
Liberty 5658	46.3	61.3	40	19
Dyna-Gro 9002	44.1	59.9	40	21
Dyna-Gro 9070	42.6	59.1	39	22
NSS EXP119	42.3	55.2	37	22
AgriMAXX 495	42.2	55.6	38	21
KY07C-1145-94-12-5	41.5	57.1	35	18
Go Wheat 4010	41.3	57.8	38	20
PROGENY PGX19-12	39.9	55.0	39	21
X12-619-205-14-1	39.9	59.9	36	20
KAS 19X21	39.9	57.6	37	22
KWS246	39.1	55.6	36	20
CROPLAN CP8800	39.0	56.3	38	21
PROGENY PGX19-17	38.8	56.2	33	19
Dyna-Gro 9932	38.4	52.6	36	23
NSS EXP219	36.7	57.3	39	20
SYNGENTA SY VIPER	34.6	54.3	40	16
Clark	32.4	53.0	41	19
KWS333	30.1	51.4	39	19
HILLIARD	29.2	48.1	37	19
CROPLAN CP8081	27.8	51.0	36	17
LCS L11919	25.9	39.6	32	18
Dyna-Gro WX20737	25.0	38.5	36	18
GoWheat 2059	24.5	37.4	34	19
GoWheat 2058	23.2	35.0	33	20
X11-0374-104-13-5	22.4	32.8	35	16
PEMBROKE 2016	22.4	33.9	35	17
USG 3221	18.9	29.9	34	18
SYNGENTA SY RITCHIE	18.5	26.5	33	16
PROGENY PGX18-11	15.8	21.8	33	17
AgriMAXX 492	14.3	20.7	33	15
LCS L11713	14.3	19.4	34	15
PROGENY #BERKELEY	11.5	15.2	32	16
SYNGENTA SY 007	10.3	12.6	35	15
Average	49.7	53.8	38	21
C.V.	13.6			
LSD (0.01)	11.1			

Location: Logan County

Planting date: 10-15-19; conventional tillage.

Harvest date: 6-16-20; lodging = 0%.

Freeze damage: Results not recommended for variety selection. West Kentucky freeze date: 4-15-2020. Moderate freeze damage.

**Table 10. 2020 Kentucky Wheat Variety Trial—
Southern Tier Region B.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
Truman	80.7	59.0	46	31
SYNGENTA SY 576	78.1	58.7	40	27
Go Wheat 4059S	77.1	60.3	38	23
AgriMAXX 505	76.9	61.7	38	22
AgriMAXX 485	76.0	60.6	37	24
LOCAL LWX20C	74.6	59.3	38	21
Dyna-Gro WX19713	73.5	61.6	38	21
USG 3316	71.8	59.2	39	20
PROGENY PGX 18-8	70.3	59.3	38	19
AgriMAXX 454	70.2	59.1	38	20
KAS ADAMS	68.5	61.3	37	20
KAS RAGE	68.3	59.1	38	20
AgriMAXX 496	68.0	55.1	37	21
X11-0170-52-3-3	67.6	59.0	39	22
PROGENY PGX19-11	66.9	59.2	38	21
Dyna-Gro 9692	66.9	59.1	38	20
Go Wheat 5056	65.3	58.8	35	20
KAS 19X27	65.2	59.0	38	19
USG 3790	64.4	59.0	35	20
PROGENY PGX19-10	64.1	57.9	37	22
CROPLAN CP8022	63.1	59.1	38	21
Dyna-Gro WX20731	63.0	58.4	39	19
PROGENY #BLAZE	62.3	59.2	40	19
LOCAL LW2958	61.9	61.5	38	22
KY06C-1178-16-10-3-34	61.5	59.5	38	21
CROPLAN CP8015	58.7	58.5	39	21
Dyna-Gro 9941	55.8	58.2	37	19
X12-3010-4-4-1	55.3	59.2	38	22
PROGENY PGX18-9	54.8	58.2	36	18
Go Wild Feral Forage	54.0	58.5	42	20
AgriMAXX 503	52.9	58.9	42	21
X10-0594-7-1-3	52.8	60.5	37	19
USG 3329	52.5	59.5	37	18
KAS 19X24	51.9	59.4	39	20
KAS EISENHOWER	51.5	58.4	37	18
AgriMAXX EXP 2003	50.7	53.0	37	19
LOCAL LW2068	50.3	58.3	35	19
KAS 19X21	49.5	58.8	36	18
NSS EXP119	49.5	59.7	36	20
LOCAL LW2046	49.2	59.4	36	18
KY10-0178-1-2-5	49.0	60.1	33	19
PROGENY PGX19-3	48.8	60.4	40	21
LOCAL LW2848	48.4	59.5	38	20
KY09C-1245-99-1-5	48.4	60.9	35	17
PROGENY PGX19-12	47.7	58.4	37	19
PROGENY PGX18-7	46.9	59.1	37	16

continued

Table 10. (continued)

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
AgriMAXX 473	46.5	59.5	38	18
KY09C-1245-99-12-3	46.2	53.3	35	18
Dyna-Gro 9701	46.2	59.2	38	19
LOCAL LW2937	44.9	57.4	35	20
PROGENY #BULLET	44.8	57.9	38	20
X11-0420-120-13-3	44.6	60.0	37	16
Go Wheat 4010	44.4	59.3	36	16
X12-3010-3-5-3	44.1	58.6	32	17
Liberty 5658	44.0	59.9	35	18
AgriMAXX 495	43.8	59.5	36	18
Dyna-Gro 9932	43.7	59.7	37	20
Dyna-Gro 9070	42.8	58.1	37	17
KY07C-1145-94-12-5	42.4	60.6	34	15
SYNGENTA SY VIPER	42.2	59.4	38	14
KWS246	41.4	57.6	36	16
CROPLAN CP8800	41.2	57.7	38	16
CROPLAN CP8081	38.8	59.1	35	15
Dyna-Gro 9002	38.5	58.3	37	17
13VTK429-3	37.4	59.8	35	16
SYNGENTA SY 547	37.3	56.7	39	15
Bess	34.9	60.2	38	16
PROGENY PGX19-17	32.9	55.8	31	17
X12-619-205-14-1	32.6	59.5	35	17
Dyna-Gro WX20737	32.5	59.0	36	15
KWS333	30.9	56.9	38	17
NSS EXP219	30.8	58.8	35	15
HILLIARD	28.2	59.1	36	16
LCS L11919	27.8	58.9	32	16
Clark	27.1	59.2	33	14
GoWheat 2059	27.0	57.3	32	16
SYNGENTA SY RITCHIE	25.0	57.0	31	14
PROGENY #BERKELEY	24.8	57.3	33	14
GoWheat 2058	24.3	57.1	32	17
PEMBROKE 2016	24.0	57.9	34	14
PROGENY PGX18-11	23.8	56.0	33	14
SYNGENTA SY 007	20.7	57.0	35	13
AgriMAXX 492	18.2	52.5	34	13
USG 3221	15.8	49.4	34	14
X11-0374-104-13-5	15.2	42.9	35	13
LCS L11713	14.8	42.8	34	13
Average	48.5	58.2	37	18
C.V.	16.7			
LSD (0.10)	13.5			

Location: Christian County

Planting date: 10-10-19; no-till.

Harvest date: 6-16-20; lodging = 0%.

Freeze damage: Results not recommended for variety selection. West Kentucky freeze date: 4-15-2020. Moderate/severe freeze damage.

**Table 11. 2020 Kentucky Wheat Variety Trial—
North Central Region.**

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
SYNGENTA SY 576	52.7	55.1	35	39
Truman	50.4	59.9	37	46
KY09C-1245-99-1-5	49.4	60.3	31	33
SYNGENTA SY 547	49.3	57.6	34	34
SYNGENTA SY VIPER	49.0	60.7	36	32
X12-3010-4-4-1	46.4	58.6	32	34
AgriMAXX 473	43.9	57.8	33	34
LOCAL LW2848	43.5	57.7	34	34
X11-0170-52-3-3	43.4	58.0	32	34
Go Wild Feral Forage	43.3	58.0	37	40
Dyna-Gro WX20731	42.2	51.6	32	34
Dyna-Gro 9701	41.8	56.4	33	34
PROGENY PGX18-7	41.7	52.1	30	33
Dyna-Gro WX19713	41.5	58.6	33	33
USG 3790	40.6	55.6	30	35
AgriMAXX 505	39.6	56.5	33	33
AgriMAXX 454	39.2	55.6	31	36
PROGENY #BULLET	39.2	55.8	33	33
Dyna-Gro 9692	38.7	52.9	31	35
KAS RAGE	38.5	52.9	31	36
KY06C-1178-16-10-3-34	38.2	57.3	31	34
X10-0594-7-1-3	38.2	56.4	31	34
AgriMAXX 496	38.0	55.1	29	32
PROGENY PGX 18-8	37.6	56.0	30	34
KAS ADAMS	37.2	53.6	32	33
CROPLAN CP8015	36.8	50.9	31	33
KAS 19X21	36.6	49.8	31	32
X11-0420-120-13-3	36.6	59.1	32	34
USG 3221	36.6	47.6	31	28
LOCAL LW2937	36.2	54.2	29	32
Bess	36.0	53.2	32	33
LOCAL LWX20C	36.0	49.3	30	34
AgriMAXX 485	35.7	51.8	30	34
USG 3329	35.6	53.1	29	31
Go Wheat 4059S	35.6	53.7	31	35
PROGENY PGX19-10	35.4	51.4	29	36
Go Wheat 4010	35.2	46.9	33	33
13VTK429-3	35.1	47.2	29	37
AgriMAXX 503	35.1	52.6	32	35
Go Wheat 5056	34.1	52.2	30	35
KY07C-1145-94-12-5	34.1	53.5	32	29
LOCAL LW2068	33.6	49.1	30	32
PROGENY PGX19-11	33.3	50.7	30	34
Dyna-Gro 9941	33.3	48.1	29	33
Dyna-Gro WX20737	32.5	47.2	31	30
LOCAL LW2958	32.3	49.8	32	33

continued

Table 11. (continued)

Variety	Yield (bu/a)	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1
KY09C-1245-99-12-3	32.1	44.9	28	33
LOCAL LW2046	31.8	46.8	31	36
HILLIARD	31.3	47.8	33	33
KAS 19X27	31.2	47.2	32	34
NSS EXP119	30.9	45.7	31	33
PROGENY PGX19-3	30.5	39.7	31	36
USG 3316	30.5	45.6	30	36
LCS L11919	30.1	43.3	29	32
X12-3010-3-5-3	29.9	45.7	26	34
KY10-0178-1-2-5	29.2	44.3	28	35
PROGENY #BLAZE	29.0	43.8	31	31
CROPLAN CP8800	28.8	41.7	29	33
GoWheat 2059	28.0	41.9	30	32
PROGENY PGX19-12	27.7	43.1	30	33
KWS246	27.6	39.7	27	34
CROPLAN CP8022	27.5	43.9	29	33
SYNGENTA SY RITCHIE	27.2	39.6	30	31
PROGENY PGX18-9	27.0	37.7	30	32
Dyna-Gro 9070	26.6	40.8	30	32
CROPLAN CP8081	26.1	40.8	31	32
Dyna-Gro 9932	25.9	39.6	30	33
AgriMAXX EXP 2003	25.8	38.7	30	32
Liberty 5658	25.5	36.7	31	32
GoWheat 2058	25.4	36.9	28	32
AgriMAXX 495	25.4	38.2	31	33
KAS EISENHOWER	25.2	36.5	30	32
PEMBROKE 2016	24.3	35.3	32	30
AgriMAXX 492	23.5	32.7	30	31
NSS EXP219	23.3	34.1	30	34
Dyna-Gro 9002	23.3	34.3	28	36
KAS 19X24	22.9	33.8	30	32
PROGENY PGX19-17	22.4	34.2	29	30
KWS333	21.9	30.6	29	32
SYNGENTA SY 007	21.9	30.1	29	30
LCS L11713	21.7	30.0	30	31
PROGENY PGX18-11	21.0	30.5	28	34
X12-619-205-14-1	20.0	27.4	32	31
PROGENY #BERKELEY	18.5	25.1	29	33
X11-0374-104-13-5	18.5	27.5	30	29
Clark	18.3	26.3	33	29
Average	33.0	46.6	31	33
C.V.	26.0			
LSD (0.10)	14.2			

Location: Woodford County

Planting date: 10-19-19; conventional tillage.

Harvest date: 6-25-20; lodging = 0%.

Freeze damage: Results not recommended for variety selection. Central Kentucky freeze dates: 4-15-2020 & 5-9-2020. Severe freeze damage.

**Table 12. 2020 Kentucky Wheat Variety Trial—
Bluegrass Region.**

Variety	Yield (bu/a)	Height (in)	Heading Date > April 1
Truman	31.8	37	39
X11-0170-52-3-3	29.5	35	31
LOCAL LW2848	22.8	34	28
AgriMAXX 473	21.9	36	28
SYNGENTA SY 576	20.5	35	36
KWS333	20.5	35	28
PROGENY #BULLET	18.9	35	28
Go Wild Feral Forage	18.8	36	30
AgriMAXX 496	17.9	31	30
USG 3221	17.8	30	27
LOCAL LW2937	17.0	32	30
AgriMAXX 492	16.9	31	27
PROGENY PGX18-7	16.1	33	27
AgriMAXX 495	15.7	33	28
SYNGENTA SY 547	15.6	38	27
Dyna-Gro 9701	15.3	36	28
CROPLAN CP8022	14.8	32	30
CROPLAN CP8800	14.7	35	27
NSS EXP119	14.5	34	29
X12-3010-4-4-1	14.3	34	30
LOCAL LWX20C	14.3	33	29
KAS 19X21	14.1	33	28
LOCAL LW2958	14.0	34	29
Dyna-Gro 9932	13.9	33	28
AgriMAXX 485	13.7	32	32
LCS L11713	13.5	32	27
HILLIARD	13.4	36	27
CROPLAN CP8015	13.4	34	30
Dyna-Gro 9941	13.3	33	29
KAS 19X27	13.2	33	29
PROGENY #BERKELEY	13.2	33	27
Go Wheat 4059S	12.6	32	31
USG 3316	12.5	32	31
PROGENY PGX19-17	12.5	32	27
NSS EXP219	12.3	31	27
KWS246	12.3	35	27
SYNGENTA SY VIPER	12.1	38	26
Dyna-Gro WX19713	11.9	35	29
AgriMAXX 454	11.8	34	30
PROGENY PGX19-11	11.7	33	29
LOCAL LW2046	11.6	34	28
Dyna-Gro WX20731	11.4	33	29
Dyna-Gro 9070	11.0	35	27
Dyna-Gro WX20737	11.0	32	26
KAS RAGE	10.8	35	30
PROGENY PGX19-12	10.8	35	28
PROGENY PGX19-10	10.7	31	30

continued

Table 12. (continued)

Variety	Yield (bu/a)	Height (in)	Heading Date > April 1
13VTK429-3	10.7	33	29
AgriMAXX 505	10.5	35	29
KAS ADAMS	10.5	35	29
KY09C-1245-99-1-5	10.3	34	27
Dyna-Gro 9692	10.2	34	30
KY06C-1178-16-10-3-34	10.2	36	29
PROGENY #BLAZE	10.0	34	29
SYNGENTA SY RITCHIE	9.8	32	27
GoWheat 2058	9.4	30	27
Go Wheat 5056	9.4	33	29
PROGENY PGX 18-8	9.3	32	29
Dyna-Gro 9002	9.3	34	27
AgriMAXX 503	9.2	34	29
AgriMAXX EXP 2003	8.9	33	28
USG 3329	8.9	33	28
PROGENY PGX19-3	8.8	35	30
LOCAL LW2068	8.7	33	28
GoWheat 2059	8.6	31	27
USG 3790	8.5	32	29
KAS 19X24	8.1	34	29
PROGENY PGX18-11	7.8	30	28
KAS EISENHOWER	7.4	33	28
SYNGENTA SY 007	7.4	31	26
PROGENY PGX18-9	7.2	33	28
KY10-0178-1-2-5	7.2	33	29
Go Wheat 4010	7.1	33	27
X10-0594-7-1-3	6.9	32	29
X11-0420-120-13-3	6.4	35	28
Bess	6.3	38	27
Clark	6.2	37	26
LCS L11919	5.0	35	27
KY07C-1145-94-12-5	4.6	33	26
PEMBROKE 2016	4.4	33	27
Liberty 5658	4.4	37	27
X12-3010-3-5-3	3.7	30	28
CROPLAN CP8081	3.5	37	26
KY09C-1245-99-12-3	3.1	35	27
X12-619-205-14-1	2.6	33	27
X11-0374-104-13-5	2.4	33	26
Average	11.7	34	28
C.V.	32.6		
LSD (0.10)	6.3		

Location: Fayette County (Lexington, KY)

Planting date: 10-5-19; conventional tillage.

Harvest date: 6-26-20; lodging = 0%.

Test weight: Insufficient seed quantity to measure test weight.

Freeze damage: Results not recommended for variety selection. Central Kentucky freeze dates: 4-15-2020 & 5-9-2020. Severe freeze damage.

Table 13. 2020 Kentucky Wheat Variety Disease Ratings.

Variety	Leaf Rust	Leaf Blotch*
13VTK429-3	1.8	5.5
AgriMAXX 454	6.3	6.0
AgriMAXX 473	1.5	4.5
AgriMAXX 485	4.0	5.5
AgriMAXX 492	1.3	7.8
AgriMAXX 495	2.8	6.0
AgriMAXX 496	4.5	4.3
AgriMAXX 503	4.0	5.0
AgriMAXX 505	7.5	6.3
AgriMAXX EXP 2003	8.3	6.3
Bess	4.5	5.8
Clark	3.3	7.0
CROPLAN CP8015	4.5	6.3
CROPLAN CP8022	3.8	4.0
CROPLAN CP8081	2.0	7.5
CROPLAN CP8800	2.8	6.8
Dyna-Gro 9002	2.5	5.8
Dyna-Gro 9070	1.3	7.0
Dyna-Gro 9692	6.3	6.3
Dyna-Gro 9701	1.3	4.5
Dyna-Gro 9932	2.8	6.3
Dyna-Gro 9941	4.3	5.5
Dyna-Gro WX19713	6.5	6.0
Dyna-Gro WX20731	1.8	7.0
Dyna-Gro WX20737	3.8	8.0
Go Wheat 4010	2.8	7.3
Go Wheat 4059S	4.5	5.5
Go Wheat 5056	4.0	7.3
Go Wild Feral Forage	2.5	4.3
GoWheat 2058	1.0	6.8
GoWheat 2059	3.0	6.8
HILLIARD	1.0	5.0
KAS 19X21	4.3	6.3
KAS 19X24	2.0	5.3
KAS 19X27	3.5	6.8
KAS ADAMS	6.5	6.0
KAS EISENHOWER	9.0	6.3
KAS RAGE	6.3	6.3
KWS246	3.5	5.8
KWS333	1.8	6.3
KY06C-1178-16-10-3-34	5.3	6.3
KY07C-1145-94-12-5	4.5	6.8
KY09C-1245-99-12-3	2.3	4.8
KY09C-1245-99-1-5	1.5	5.0
KY10-0178-1-2-5	2.3	6.5

continued

Table 13. (continued)

Variety	Leaf Rust	Leaf Blotch*
LCS L11713	1.5	7.5
LCS L11919	1.8	8.0
Liberty 5658	2.5	6.3
LOCAL LW2046	2.5	6.3
LOCAL LW2068	7.5	6.8
LOCAL LW2848	1.3	4.8
LOCAL LW2937	4.3	5.0
LOCAL LW2958	2.8	6.0
LOCAL LWX20C	3.3	7.0
NSS EXP119	4.0	6.8
NSS EXP219	3.8	5.0
PEMBROKE 2008	5.3	8.0
PEMBROKE 2014	6.8	8.3
PEMBROKE 2016	5.0	8.5
PROGENY #BERKELEY	2.0	7.5
PROGENY #BLAZE	4.3	6.0
PROGENY #BULLET	1.3	4.5
PROGENY PGX 18-8	4.3	7.0
PROGENY PGX18-11	2.0	8.3
PROGENY PGX18-7	2.0	6.3
PROGENY PGX18-9	8.0	6.0
PROGENY PGX19-10	2.8	4.5
PROGENY PGX19-11	3.3	6.8
PROGENY PGX19-12	4.0	6.5
PROGENY PGX19-17	1.3	4.0
PROGENY PGX19-3	2.3	5.5
SYNGENTA SY 007	2.3	9.0
SYNGENTA SY 547	2.5	4.3
SYNGENTA SY 576	2.0	4.0
SYNGENTA SY RITCHIE	2.0	8.5
SYNGENTA SY VIPER	4.5	7.0
Truman	4.8	5.8
USG 3221	2.3	6.5
USG 3316	6.0	6.0
USG 3329	5.3	6.0
USG 3790	4.5	7.8
X10-0594-7-1-3	4.8	5.0
X11-0170-52-3-3	2.8	5.8
X11-0374-104-13-5	1.3	6.8
X11-0420-120-13-3	2.5	6.8
X12-3010-3-5-3	2.8	5.8
X12-3010-4-4-1	1.3	3.5
X12-619-205-14-1	3.3	7.8
Average	3.5	6.2

*Leaf blotch associated with primarily *Septoria tritici*
Disease rating scale: 1 = resistant; 9 = susceptible.
Leaf blotch rated at Logan County; leaf rust rated at Woodford County

Table 14. 2020 Kentucky Wheat Variety Trial—Metribuzin Tolerance.

Variety	Injury	Yield (bu/a)		Test Wt. (lb/bu)		Height (in)		Heading Date > April 1	
		Control	TRT	Control	TRT	Control	TRT	Control	TRT
Liberty 5658	4.5	47.7	43.5	60.2	59.5	36	31	21	24
PROGENY #BERKELEY	4.0	48.5	44.4	48.2	59.5	35	31	19	22
X12-3010-3-5-3	4.0	75.2	73.7	59.5	59.0	34	30	24	26
HILLIARD	3.5	56.5	48.8	59.5	59.4	37	35	22	24
PROGENY PGX18-11	3.5	44.0	42.4	51.4	58.9	35	33	20	23
KY06C-1178-16-10-3-34	3.0	78.6	76.7	59.6	58.3	39	36	24	26
LCS L11713	3.0	37.1	34.4	53.7	51.9	34	32	20	23
PEMBROKE 2008	3.0	45.1	43.0	60.2	60.2	35	32	21	23
PEMBROKE 2014	3.0	36.6	31.7	50.9	47.2	31	30	20	21
PEMBROKE 2016	3.0	47.6	50.4	58.6	61.4	33	30	21	23
SYNGENTA SY 547	3.0	78.6	66.6	60.1	59.4	39	36	24	24
USG 3221	3.0	33.6	34.2	51.9	54.2	33	31	20	23
X11-0374-104-13-5	3.0	56.4	55.7	60.9	59.8	35	34	23	25
X12-619-205-14-1	3.0	61.5	53.3	60.8	61.7	34	32	22	23
13VTK429-3	2.5	75.9	75.3	61.2	62.0	38	37	25	27
AgriMAXX 492	2.5	45.9	32.6	62.0	49.7	35	32	18	18
CROPLAN CP8800	2.5	66.9	69.0	59.3	59.8	37	35	24	26
Dyna-Gro WX19713	2.5	75.3	77.2	62.5	62.5	36	36	25	27
NSS EXP119	2.5	68.7	70.8	58.7	54.2	37	35	24	26
PROGENY PGX19-3	2.5	72.6	67.4	60.5	60.8	39	36	27	27
Truman	2.5	73.1	70.7	61.1	60.2	43	41	33	34
X10-0594-7-1-3	2.5	76.4	68.5	60.0	58.7	37	36	24	25
AgriMAXX 454	2.0	78.5	76.5	59.6	59.1	38	36	24	26
AgriMAXX 496	2.0	75.8	73.2	59.8	59.6	35	33	27	26
AgriMAXX 505	2.0	79.7	80.9	61.5	62.0	37	35	26	26
Clark	2.0	44.4	48.2	55.7	59.1	41	38	23	23
Dyna-Gro 9070	2.0	64.0	61.7	60.5	60.5	37	35	23	24
Dyna-Gro 9692	2.0	77.7	83.5	58.4	59.7	37	35	24	25
Dyna-Gro 9701	2.0	69.7	73.9	60.1	59.1	38	38	25	25
Go Wheat 5056	2.0	74.8	75.6	59.4	60.4	35	34	25	25
KAS 19X21	2.0	69.1	68.1	58.1	58.4	36	35	25	26
KAS ADAMS	2.0	79.1	74.6	61.5	62.5	37	35	25	26
KAS EISENHOWER	2.0	68.9	73.7	58.8	58.9	36	34	26	26
KWS246	2.0	68.4	81.3	59.6	58.5	37	35	25	25
KY09C-1245-99-12-3	2.0	63.6	70.6	60.5	59.3	36	35	23	22
KY09C-1245-99-1-5	2.0	64.4	75.3	61.9	61.1	37	36	23	23
LCS L11919	2.0	47.4	41.9	54.9	59.6	33	33	21	22
LOCAL LW2068	2.0	65.1	71.4	59.4	58.5	35	34	24	24
NSS EXP219	2.0	74.3	78.4	59.4	59.9	37	36	24	25
PROGENY #BLAZE	2.0	67.3	76.0	58.1	59.2	37	35	25	24
PROGENY #BULLET	2.0	68.6	71.1	59.8	59.3	39	39	25	25
PROGENY PGX19-17	2.0	65.7	73.4	59.7	58.8	35	34	23	23
SYNGENTA SY RITCHIE	2.0	49.6	47.1	59.7	59.8	34	33	20	20
USG 3329	2.0	72.2	72.2	59.2	59.0	36	36	24	24
X11-0170-52-3-3	2.0	75.9	74.8	58.6	59.1	36	35	27	28
AgriMAXX 485	1.5	69.4	71.0	60.6	60.2	36	36	28	27
AgriMAXX 495	1.5	66.8	55.5	59.9	60.7	36	37	25	25

continued

Table 14. (continued)

Variety	Injury	Yield (bu/a)		Test Wt. (lb/bu)		Height (in)		Heading Date > April 1	
		Control	TRT	Control	TRT	Control	TRT	Control	TRT
AgriMAXX 503	1.5	59.6	56.5	59.8	59.5	40	38	26	26
AgriMAXX EXP 2003	1.5	70.6	71.1	58.2	57.7	36	34	25	24
Bess	1.5	71.6	72.4	61.1	60.8	39	37	23	23
CROPLAN CP8015	1.5	75.3	73.4	59.6	59.4	34	35	25	25
CROPLAN CP8081	1.5	69.7	65.5	61.1	60.8	36	36	22	22
Dyna-Gro 9002	1.5	71.5	66.8	58.3	59.9	37	37	25	24
Dyna-Gro 9932	1.5	61.5	65.6	60.5	60.4	36	35	25	25
Dyna-Gro 9941	1.5	75.5	72.0	59.3	59.1	35	36	26	26
Dyna-Gro WX20731	1.5	70.0	70.0	59.0	59.8	37	36	25	25
Go Wild Feral Forage	1.5	65.0	76.1	59.3	58.8	40	41	26	25
GoWheat 2058	1.5	55.6	49.6	60.2	59.7	32	32	22	24
KY10-0178-1-2-5	1.5	60.6	67.8	59.7	61.4	34	34	24	24
LOCAL LW2046	1.5	60.9	71.6	60.1	61.5	35	35	27	26
LOCAL LW2937	1.5	58.2	69.6	57.7	57.9	37	36	25	24
LOCAL LWX20C	1.5	65.4	70.1	59.3	59.2	35	36	25	25
PROGENY PGX 18-8	1.5	77.1	66.8	60.2	59.4	35	34	26	25
PROGENY PGX18-7	1.5	69.6	73.6	59.9	60.2	36	36	24	25
PROGENY PGX18-9	1.5	68.2	65.6	58.4	58.9	34	34	24	24
PROGENY PGX19-12	1.5	67.2	74.6	58.4	58.5	38	37	24	25
SYNGENTA SY 007	1.5	31.4	40.0	48.0	55.0	34	35	19	19
SYNGENTA SY VIPER	1.5	65.6	63.2	61.1	59.8	40	39	20	20
X11-0420-120-13-3	1.5	68.8	70.8	61.1	59.8	36	35	26	25
X12-3010-4-4-1	1.5	73.7	72.0	60.8	60.0	37	39	28	27
AgriMAXX 473	1.0	66.3	72.5	59.6	55.6	38	37	25	26
CROPLAN CP8022	1.0	74.8	76.1	59.3	60.1	33	34	26	26
Dyna-Gro WX20737	1.0	56.3	58.2	61.0	61.1	35	36	23	23
Go Wheat 4010	1.0	68.8	72.9	59.6	59.9	37	36	25	26
Go Wheat 4059S	1.0	72.0	74.5	61.1	60.1	36	36	27	26
GoWheat 2059	1.0	53.3	44.2	58.3	57.3	33	34	23	22
KAS 19X24	1.0	63.6	65.2	61.4	61.2	35	36	25	25
KAS 19X27	1.0	68.0	71.5	59.4	59.5	37	36	26	25
KAS RAGE	1.0	78.5	76.8	58.4	58.6	36	36	25	26
KWS333	1.0	53.6	54.4	58.6	59.0	37	38	23	22
KY07C-1145-94-12-5	1.0	69.6	65.6	61.9	62.0	36	35	21	21
LOCAL LW2848	1.0	69.4	79.8	59.7	60.8	37	39	27	26
LOCAL LW2958	1.0	69.1	66.8	60.0	59.9	36	37	25	26
PROGENY PGX19-10	1.0	74.9	85.8	58.9	57.6	35	36	27	26
PROGENY PGX19-11	1.0	68.2	70.1	60.1	58.9	34	34	26	26
SYNGENTA SY 576	1.0	73.4	71.9	58.5	59.8	37	38	31	30
USG 3316	1.0	81.1	82.4	60.2	58.1	36	37	26	26
USG 3790	1.0	73.6	72.0	60.1	59.6	34	35	26	25
Average	1.9	65.3	65.7	59.1	59.2	36	35	24	24

*Injury rating: 5 = severe, 1 = no injury (visual rating of chlorosis and necrosis recorded 3-16-20).

Location: Caldwell County (Princeton, KY)

Planting date: 10-15-19; conventional tillage.

Harvest date: 6-17-20; lodging = 0%.

Maximum labeled rate of 10-2/3 oz/A DimetricEXT (75% Metribuzin) applied 2-17-2020 (Feekes 4/5).

50% of plot area sprayed.

Test sustained minor/moderate freeze damage.

Table 15. 2020 Kentucky Hulless Barley Variety Trial.

Variety	Yield (bu/a)*		Test Wt. (lb/bu)		Height (in)	Heading Date > April 1
	2020	2019	2020	2019	2020	2020
AMAZE 10	61.1	50.5	56.5	57.8	38	22
Dan	58.7	56.5	57.8	58.5	36	19
Doyce	43.6	51.0	46.6	52.5	35	14
Eve	21.2	51.5	34.6	57.2	35	12
Average	46.2	52.4	48.9	56.5	36	17

*60-lb standard bushel weight.

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

Planting date: 10-15-19; conventional tillage.

Harvest date: 6-7-20; lodging = 0%.

Freeze damage: 2020 trial results compromised by freeze damage. Use 2019 results.

Early heading varieties sustained more freeze damage.

Table 16. 2020 Kentucky Barley Variety Trial.

Variety	Yield (bu/a)*		Test Wt. (lb/bu)		Height (in)	Heading Date > April 1
	2020	2019	2020	2019	2020	2020
Hirondella**	109.7	73.1	41.7	44.5	34	25
KWS Faro**	105.5		44.3		35	23
FLAVIA**	98.6	81.6	43.4	44.9	31	26
KWS Donau**	98.3		43.9		33	23
LCS Calypso**	97.2	68.2	42.9	45.2	38	26
KWS Somerset**	96.9		43.6		35	25
Thoroughbred**	80.2	71.2	42.9	42.3	36	20
LCS Violetta**	77.9	72.0	44.2	47	31	20
Atlantic	70.4	84.3	41.4	44.3	30	13
Price	66.9	77.9	42.3	45.6	32	15
Callao	65.9		44.6		31	13
Secretariat**	64.8	87.3	41.1	44.3	30	14
Nomini	42.5	70.9	42.4	41.7	38	12
Wysor	42.2		39.9		37	14
Barsoy	36.4	70.5	40.8	43.8	35	12
Average	76.9	75.7	42.6	44.4	34	19

*48-lb standard bushel weight.

**Matling barley.

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

Planting date: 10-15-19; conventional tillage.

Harvest date: 6-7-20; lodging = 0%.

Freeze damage: 2020 trial results compromised by freeze damage. Use 2019 results.

Early heading varieties sustained more freeze damage.

Table 17. 2020 Kentucky Cereal Rye Variety Trial.

Variety	Yield (bu/a)*		Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Cover Crop*** Canopy (%)
	2020	2019	2020	2020	2020	2020
KWS Bono**	87.0	60.3	58.8	53	35	58
KWS Serafino**	84.8	37.3	57.8	56	35	65
KWS Tayo**	84.8	64.7	58.7	56	34	64
KWS Berado**	78.5		59.9	55	35	60
KWS Trebiano**	77.9	60.6	57.5	58	34	65
Brasetto**	58.7	61.9	59.2	55	35	58
Guardian	53.2	40.4	54.6	64	34	46
Aventino	48.1		52.1	63	34	57
CCWRY1	44.8	40.3	52.7	62	35	64
KWS SH02**	39.1	68.8	46.2	51	21	71
KWS SH01**	27.2	67.6	35.3	51	21	73
Spooner	26.7	44.6	40.5	66	30	42
Aroostook	4.8	40.1	8.7	62	11	67
Average	55.1	53.3	49.4	58	30	61

*56-lb standard bushel weight.

**Hybrid cereal rye.

***Winter cover crop/grazing biomass estimate (% canopy coverage using Canopeo); measured: 1-14-2020.

Planting date: 10-5-19; conventional tillage.

Harvest date: 6-26-20; lodging = 0%.

Freeze damage: 2020 trial results compromised by freeze damage. Use 2019 results.

Central Kentucky freeze dates: 4-15-2020 & 5-9-2020.

Table 18. 2020 Kentucky Triticale Variety Trial.

Variety	Yield (bu/a)*	Test Wt. (lb/bu)	Height (in)	Heading Date > April 1	Cover Crop** Canopy (%)
SY TF813	34.2	44.4	62	41	46
Trical Flex 719	23.0	33.4	62	39	68
Trical Thor	21.9	33.2	59	40	73
Trical Exp 20T04	12.9	20.8	53	39	75
LAX Nitrous	11.3	17.4	52	38	63
Trical Exp 20T03	10.3	21.2	58	37	66
Arcia	7.0	14.6	49	19	79
Trical 154	6.5	9.0	49	20	73
Merlin Max	6.0	9.8	43	34	74
Trical Exp 20T01	3.7	6.1	50	38	72
Trical Exp 20T02	3.6	6.1	49	30	81
SS1414	3.1	4.3	49	21	74
Trical Surge	2.7	4.9	45	34	73
Average	11.3	17.3	52	33	71

*60-lb standard bushel weight.

**Winter cover crop/grazing biomass estimate (% canopy coverage using Canopeo); measured: 1-14-2020.

Planting date: 10-5-19; conventional tillage.

Harvest date: 6-26-20; lodging = 0%.

Freeze damage: 2020 trial results compromised by freeze damage. Use 2019 results.

Central Kentucky Freeze Dates: 4-15-2020 & 5-9-2020.

Table 19. 2020 Kentucky Oat Variety Trial.

Variety	Yield (bu/a)*		Test Wt. (lb/bu)	Height (in)	Heading Date > May 1
	2020	2019-20	2020	2020	2020
NC17-6440	108.2		33.0	36	10
NC12-3578	101.7	90.2	32.8	34	9
Gerard 224	90.6	80.2	32.0	37	7
NC12-3447	89.7	82.9	31.7	36	9
Gerard 229	89.2	79.2	32.1	35	11
RAM 99016	88.6	75.1	31.4	39	8
SS 76-50	81.7	77.4	31.2	34	8
SCLA 0100214	79.2	79.5	31.5	34	11
GRAHAM	71.1	68.8	32.2	33	13
NC17-6563	61.9		29.1	39	7
SCOP 86-4	51.4	54.6	29.1	38	8
NC09-4274N**	40.2	49.5	28.9	35	9
Average	79.5	73.7	31.2	36	9

*32-lb standard bushel weight.

**Hulless oat; winter survival = 100%.

Planting date: 10-5-19; conventional tillage.

Harvest date: 6-26-20; lodging = 0%.

Central Kentucky freeze dates: 4-15-2020 & 5-9-2020.

Table 20. 2020 Kentucky Spelt Variety Trial.

Variety	Yield (bu/a)*		Height (in)	Heading Date > May 1
	2020	2019-20	2020	2020
Sungold	100.7	84.6	49	20
Zollernperle	88.2	76.0	45	23
Sonic	87.4	69.0	49	24
Mavrick	80.3	74.4	50	19
Zollernspelz	76.2	55.7	43	27
Sammy	74.8	70.6	46	17
Comet	72.1	69.8	39	17
Average	82.8	71.4	46	21

*40-lb standard bushel weight.

Planting date: 10-5-19 at Fayette County, KY.

Harvest date: 6-29-20



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