

Wheat Variety Performance Tests in Tennessee

2018

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Variety test results are posted on UT's website at:

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General Information

Research and Education Center Tests: The 2017-18 variety performance tests were conducted on 61 soft red winter wheat varieties in each of the physiographic regions of the state. Tests were conducted at the East TN (Knoxville), Plateau (Crossville), Highland Rim (Springfield), Milan (Milan), and West TN (Jackson) Research and Education Centers (REC), and at the Agricenter in Memphis. The test at the Plateau station had poor stands which affected yield, so that data is not included in this report.

All varieties were seeded at rates of 35 seed per square foot (1.5 million seed per acre) (Table 1). Plots were seeded with drills using 7–7.5 inch row spacing. The plot size was six, seven, nine or ten rows, 20 to 25 feet in length depending on location equipment. Plots were replicated three times at each location. Seed of all varieties were treated with a fungicide.

County Standard Tests: The County Standard Wheat Test was conducted on 28 soft red winter wheat varieties across ten counties in Middle and West Tennessee (Carroll, Dyer, Fayette, Gibson, Henderson, Henry, Lake, Madison, Moore, and Weakley). Each variety was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the overall average yield and in conducting the statistical analysis to determine significant differences. At each location, plots were planted, sprayed, fertilized, and harvested with the equipment used by the cooperating producer in their farming operation. The width and length of strip-plots were different in each county; however, within a location in a county, the strips were trimmed so that the lengths were the same for each variety, or if the lengths were different then the harvested length was measured for each variety and appropriate harvested area adjustments were made to determine the yield per acre.

Growing Season: Planting of the winter wheat crop proceeded in a timely manner in the fall of 2017 at all locations except Knoxville. Planting at Knoxville was delayed due to extremely wet fall conditions. The growing season was normal for winter wheat and the crop progressed in a timely manner up to harvest. Disease pressure was light across most of Tennessee.

According to the Tennessee Agricultural Statistics Service (TASS), Estimated State yield average is 72 bu/a in 2018. Tennessee producers planted approximately 400,000 acres of wheat in the fall of 2017. Approximately 300,000 acres are estimated to be harvested for grain. According to TASS, the total wheat production in Tennessee for 2018 is projected to be 21.6 million bushels, an increase of 5 percent from 2017 production.

Interpretation of Data

The tables on the following pages have been prepared with the entries listed in order of performance, the highest-yielding entry being listed first. All yields presented have been adjusted to 13.5% moisture. At the bottom of the tables, **LSD** values stand for **Least Significant Difference**. The mean yields of any two varieties being compared must differ by at least the LSD amount shown to be considered different in yielding ability at the 5% level of probability of significance. For example, given that the LSD for a test is 8.0 bu/a and the mean yield of Variety A was 50 bu/a and the mean yield of Variety B was 55 bu/a, then the two varieties are not statistically different in yield because the difference of 5 bu/a is less than the minimum of 8 bu/a required for them to be significant. Similarly, if the average yield of Variety C was 63 bu/a then it is significantly higher yielding than both Variety B ($63 - 55 = 8$ bu/a = LSD of 8) and Variety A ($63 - 50 = 13$ bu/a > LSD of 8).

The **coefficient of variation (C.V.)** values are shown at the bottom of each table. This value is a measure of the error variability found within each experiment. It is the percentage that the square root of error mean square is of the overall test mean yield at that location. For example, a C.V. of 10% indicates that the size of the error variation is about 10% of the size of the test mean. Similarly, a C.V. of 30% indicates that the size of the error variation is nearly one-third as large as the test mean. A goal in conducting each yield test is to keep the C.V. as low as possible, preferably below 20%.

-----Wheat-----

Results Summary

Yield and Agronomic Traits: During 2018, 61 wheat varieties were evaluated in five Research and Education Center (REC) tests, and 28 varieties were evaluated in 10 county standard tests (CST). Twenty-one varieties in the CST were also present in the REC tests (Table 5). Twelve companies and four universities entered varieties into the tests this year. The average yield of the 61 varieties in the 2018 REC tests was 78 bu/a (range from 69 to 88 bu/a, Table 2). The varieties ranged in heading date from 116 to 123 days after January 1 (Julian date) with most of the varieties clustering around 120 days (Table 3). The average yield of the 28 varieties in the county tests was 63 bu/a, with individual varieties ranging from 108 to 41 bu/a (Table 4). The test weight values ranged from 52.1 to 57.1 lbs/bu in the REC tests (Table 3) and 53.4 to 56.4 lbs/bu in the CST (Table 4).

Table 1. Location information from research and education centers where the wheat variety tests were conducted in 2018.

Research and Education Center	Location	Planting Date	Harvest Date	Seeding Rate		Soil Type	Previous crop
Knoxville	Knoxville	11/14/2017	6/18/2018	35/ft ²	1.5 mill./ac	Huntington Silt Loam	Soybean
Highland Rim	Springfield	10/20/2017	6/19/2018	35/ft ²	1.5 mill./ac	Mountview Silt Loam	Soybean
West Tennessee	Jackson	10/18/2017	6/12/2018	35/ft ²	1.5 mill./ac	Lexington Silt Loam	Corn
Milan	Milan	11/14/2017	6/18/2018	35/ft ²	1.5 mill./ac	Loring Silt Loam	Cotton
Agricenter	Memphis	10/20/2017	6/21/2018	35/ft ²	1.5 mill./ac	Fayala Silt Loam	Corn

Table 2. Mean yields† of 61 soft red winter wheat varieties evaluated at five locations in Tennessee during 2018

Brand	Variety	Avg. Yield (n=5)‡	bu/a				
			Knoxville	Springfield	Jackson	Milan	Memphis Agricenter
Beck	721	87.8	91.3	92.4	108.9	68.5	77.8
Beck	726	85.7	100.3	84.0	104.8	66.1	73.3
Croplan by Winfield	SRW 8550	85.6	91.8	84.5	106.0	69.1	76.7
USG	3536	84.4	94.4	87.3	102.4	67.0	71.0
Armor	Mayhem	84.3	81.0	94.4	100.9	65.1	79.9
Dyna-gro	9701	84.1	81.0	85.9	107.9	62.3	83.4
Va Tech	Hilliard	84.1	89.9	92.5	103.8	61.1	73.2
Progeny	#Bullet	83.7	79.0	87.6	107.7	69.9	74.2
Dyna-gro	9811	83.1	97.3	94.7	98.7	62.2	63.8
Dyna-gro	WX17775	82.9	84.3	76.8	102.8	69.4	80.9
AgriPro/Syngenta	SY Miskin	82.7	76.3	81.6	92.8	70.4	92.4
TN Exp.	TN 1702	82.6	90.7	77.1	82.1	66.0	96.9
Limagrain	L11551	82.5	105.3	75.0	93.6	61.4	77.3
USG	3329	82.4	83.3	76.1	95.5	75.4	81.7
AgriPro/Syngenta	SY 547	81.6	91.4	90.5	76.9	76.4	72.5
Pioneer	26R10	81.4	75.2	78.9	102.2	70.9	79.9
Stratton	Go Wheat 2058	81.4	82.2	86.4	100.3	70.8	69.6
DeltaGrow	1000	81.0	87.7	86.1	93.2	67.6	70.4
Stratton	AGS 2055	80.9	84.0	83.1	96.2	68.9	72.2
Limagrain	L11538	80.3	85.2	76.5	99.1	66.1	74.6
Armor	ARW1719	80.0	83.7	79.7	91.1	71.5	73.8
USG	3438	79.9	89.3	77.2	85.9	68.5	78.8
USG	3404	79.4	79.3	67.7	99.2	78.6	72.0
Pioneer	26R41	79.2	91.8	82.3	90.5	67.5	64.0
Croplan by Winfield	SRW 9415	78.9	82.2	69.3	98.1	69.7	75.2
Progeny	#Fury	78.9	94.8	88.6	66.5	61.9	80.8
Progeny	#Boss	78.8	91.0	79.0	86.8	67.2	70.3
Progeny	PGX16-4	78.8	79.1	83.9	54.8	74.4	101.9
Limagrain	LCS Ammo	78.5	83.3	72.0	102.3	60.7	74.0
Progeny	#Turbo	78.3	87.3	103.2	74.9	58.2	66.2
Stratton	Go Wheat 2059	78.0	75.1	88.8	77.8	66.1	82.2
Pioneer	26R45	77.7	75.7	82.2	86.7	68.0	75.9
Univ. of Ark.	AR06146E-1-4	77.6	80.2	88.2	91.4	58.3	69.9

(continued)

Table 2. Mean yields† of 61 soft red winter wheat varieties evaluated at five locations in Tennessee during 2018

Brand	Variety	Avg. Yield	Knoxville	Springfield	Jackson	Milan	Memphis Agricenter
		(n=5)‡					
Dyna-gro	9522	77.6	74.0	58.4	96.9	69.4	89.0
AgriPro/Syngenta	SY Viper	77.0	83.4	91.2	59.2	71.9	79.1
Univ. of Ga	GA08535-15LE29	76.8	74.9	69.8	101.5	65.6	72.1
Progeny	#Blaze	76.7	69.5	68.6	96.3	70.8	78.4
USG	3228	76.6	81.8	83.3	81.0	70.2	66.8
Progeny	PGX17-20	76.6	82.7	76.5	98.6	67.3	58.7
Va Tech	VA12W-31	76.4	79.6	76.9	91.9	61.0	72.6
Progeny	PGX17-16	76.3	82.8	65.9	99.9	63.8	69.4
TN Exp.	TN 1803	76.2	71.1	77.8	88.2	68.1	75.7
USG	3895	76.1	80.4	67.9	95.7	68.1	68.5
Univ. of Ga	GA061471-15LE38	76.1	79.3	65.9	86.9	64.7	83.8
Stratton	AGS 2024	75.8	79.1	83.5	88.5	60.4	67.4
TN Exp.	TN 1802	75.5	79.5	73.9	91.7	62.4	69.9
Pioneer	26R36	75.0	81.8	62.3	89.4	72.8	71.8
Progeny	#Warrior	74.9	87.0	80.6	36.4	67.6	71.7
USG	3448	74.4	77.7	65.4	93.5	65.9	69.5
Dyna-gro	9750	74.4	82.6	74.4	80.5	64.5	70.0
TFC	FFR 2407	74.0	73.6	73.7	100.0	62.3	60.3
Progeny	PGX16-7	74.0	92.6	83.7	75.5	63.0	55.3
TN Exp.	TN 1801	74.0	88.7	55.6	83.5	60.4	81.7
Armor	ARW1716	73.8	74.5	73.2	85.0	59.9	76.2
USG	3429	72.4	63.3	79.7	82.5	62.5	74.0
USG	3118	72.3	87.8	75.2	84.2	48.6	65.9
TN Exp.	TN 1604	72.3	81.4	76.7	82.7	62.8	59.4
Croplan by Winfield	SRW 9606	72.3	62.2	55.5	94.1	74.9	74.6
Pioneer	26R59	71.3	53.1	79.7	79.0	74.1	70.7
TN Exp.	TN 1705	71.2	77.1	67.1	85.4	64.2	62.8
Dyna-gro	9862	69.3	74.8	70.3	52.4	61.0	78.3
Average (bu/a)		78.3	82.3	78.5	90.2	66.4	74.1
L.S.D._{.05} (bu/a)		8.5	14.7	13	10.4	9.8	17.3
C.V. (%)		14.9	10.9	10.1	13.1	10.9	14.3

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Table 3. Mean yields† and agronomic characteristics of 61 soft red winter wheat varieties evaluated at five locations in Tennessee during 2018

Brand	Variety	Avg. Yield (n=5)‡	Test Weight# (n=3)	Heading Date (n=3)	Height (n=2)	Lodged Plants (n=3)
		bu/a	lbs/bu	julian	in.	%
Beck	721	87.8	54.0	119	37	0
Beck	726	85.7	53.4	119	34	0
Croplan by Winfield	SRW 8550	85.6	55.2	119	35	0
USG	3536	84.4	55.2	120	36	0
Armor	Mayhem	84.3	54.9	120	35	0
Va Tech	Hilliard	84.1	56.1	120	37	0
Dyna-gro	9701	84.1	54.4	121	37	0
Progeny	#Bullet	83.7	55.3	119	36	0
Dyna-gro	9811	83.1	54.9	118	37	4
Dyna-gro	WX17775	82.9	52.3	121	32	1
AgriPro/Syngenta	SY Miskin	82.7	56.4	117	34	12
TN Exp.	TN 1702	82.6	55.4	119	33	3
Limagrain	L11551	82.5	53.4	117	33	0
USG	3329	82.4	53.7	119	35	2
AgriPro/Syngenta	SY 547	81.6	56.3	116	37	0
Pioneer	26R10	81.4	53.0	121	33	0
Stratton	Go Wheat 2058	81.4	55.4	119	30	2
DeltaGrow	1000	81.0	54.4	120	34	0
Stratton	AGS 2055	80.9	53.2	119	36	0
Limagrain	L11538	80.3	54.0	121	35	4
Armor	ARW1719	80.0	52.8	121	31	3
USG	3438	79.9	52.3	119	32	2
USG	3404	79.4	52.7	123	34	6
Pioneer	26R41	79.2	54.2	120	32	2
Progeny	PGX16-1	78.9	56.3	119	33	0
Croplan by Winfield	SRW 9415	78.9	54.8	121	34	0
Progeny	#Boss	78.8	53.2	119	31	2
Progeny	PGX16-4	78.8	56.4	118	35	2
Limagrain	LCS Ammo	78.5	55.0	118	33	4
Progeny	#Turbo	78.3	55.9	119	32	0
Stratton	Go Wheat 2059	78.0	55.0	118	31	2
Pioneer	26R45	77.7	55.2	119	35	10
Dyna-gro	9522	77.6	52.1	122	34	2
Univ. of Ark.	AR06146E-1-4	77.6	56.2	118	40	0

(continued)

Table 3. Mean yields† and agronomic characteristics of 61 soft red winter wheat varieties evaluated at five locations in Tennessee during 2018.

Brand	Variety	Avg Yield (n=5)‡	Test Weight# (n=3)	Heading date (n=5)	Height (n=6)	Lodged Plants (n=3)
		bu/a	lbs/bu	julian	in.	%
AgriPro/Syngenta	SY Viper	77.0	57.1	118	35	8
Univ. of Ga	GA08535-15LE29	76.8	56.2	118	35	6
Progeny	PGX16-3	76.7	53.7	119	34	0
Progeny	PGX17-20	76.6	54.9	121	34	0
USG	3228	76.6	52.8	117	33	0
Va Tech	VA12W-31	76.4	56.0	118	33	6
Progeny	PGX17-16	76.3	56.1	121	35	0
TN Exp.	TN 1803	76.2	52.5	116	30	20
Univ. of Ga	GA061471-15LE38	76.1	56.2	119	35	3
USG	3895	76.1	53.7	120	31	0
Stratton	AGS 2024	75.8	56.3	120	36	3
TN Exp.	TN 1802	75.5	54.8	119	34	3
Pioneer	26R36	75.0	54.4	122	33	0
Progeny	#Warrior	74.9	53.8	119	31	2
Dyna-gro	9750	74.4	53.2	118	32	0
USG	3448	74.4	54.4	118	33	0
TN Exp.	TN 1801	74.0	53.9	121	31	13
Progeny	PGX16-7	74.0	54.7	117	32	2
TFC	FFR 2407	74.0	53.8	121	33	0
Armor	ARW1716	73.8	57.8	120	30	4
USG	3429	72.4	56.9	121	32	10
TN Exp.	TN 1604	72.3	54.2	122	33	4
USG	3118	72.3	55.9	116	30	8
Croplan by Winfield	SRW 9606	72.3	53.6	119	33	0
Pioneer	26R59	71.3	55.2	119	31	0
TN Exp.	TN 1705	71.2	54.0	121	33	5
Dyna-gro	9862	69.3	55.3	122	32	9
Average		78.3	54.7	116	34	3

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Official test weight of No. 2 wheat = 58 lbs/bu.

Heading date = Days from Jan 1 to heading.

2017/2018 Standard Wheat Test
(28 Varieties x 10 Locations)

57	Location Yield
57	Top Yield
57	Yield above location avg.



MS	Variety	AvgYld	MOIST	TWT	Carroll	Dyer	Fayette	Gibson	Henderson	Henry	Lake	Madison	Moore	Weakley
		bu/ac	%	lb/bu	17-Nov	27-Nov	16-Nov	10-Nov	17-Nov	14-Nov	19-Oct	26-Oct	13-Nov	20-Oct
A	Armor Rage	69.9	14.2	55.5	75.9	65.9	37.9	65.7	81.5	57.6	58.9	97.3	92.9	64.9
AB	Dyna-Gro 9692	68.6	14.2	54.7	76.6	74.1	61.1	70.7	69.6	50.3	49.4	83.8	83.1	67.6
ABC	Croplan SRW 9415	66.0	14.2	54.1	74.5	49.5	60.1	77.9	70.3	46.1	44.1	84.3	93.5	59.5
ABC	**USG 3895	65.9	13.1	54.2	61.6	83.0	57.7	55.9	57.3	63.5	54.1	84.2	82.3	59.2
ABC	Beck's 120	65.8	13.6	53.9	65.4	57.4	60.0	67.0	61.6	51.1	55.2	93.9	85.3	61.3
ABC	*Croplan SRW 9606	65.8	13.3	54.4	62.9	74.7	41.4	53.9	65.0	55.1	49.9	93.2	94.1	67.4
ABC	Warren Seed McKenna 335	65.3	12.9	53.4	67.2	59.0	57.8	83.3	60.7	51.5	46.0	88.2	80.2	58.6
ABC	***Dyna-Gro 9522	64.7	13.6	54.2	70.6	57.4	44.9	56.4	69.9	57.7	51.8	87.1	90.5	60.5
ABC	Croplan SRW 8550	64.6	13.2	54.7	66.9	58.3	51.1	60.6	64.0	60.0	52.9	84.3	84.0	64.1
ABC	*Progeny #Boss	64.5	13.3	54.5	69.4	55.0	49.5	62.9	67.6	55.9	47.6	86.8	92.3	57.5
ABC	***Warren Seed McKay 120	64.1	13.6	53.6	70.6	55.3	48.1	58.8	63.5	63.7	42.8	90.2	80.2	67.4
ABC	Beck's 125	63.9	13.3	53.8	66.8	45.2	51.4	51.3	70.2	49.0	51.6	86.2	107.8	59.8
BC	USG 3404	63.1	13.5	53.9	81.8	61.4	46.0	64.2	61.9	49.2	63.2	60.9	84.1	58.6
BCD	Stratton Seed AGS 2055	62.9	12.7	53.5	76.3	63.2	64.9	57.3	64.4	41.7	45.6	85.4	82.6	47.6
BCD	Stratton Seed GW 2058	62.9	13.0	54.5	64.9	69.8	50.8	56.8	66.5	42.5	49.8	76.3	88.9	62.8
BCD	AgriPro SY 547	62.8	13.9	53.9	56.7	49.0	48.0	58.7	70.7	34.4	58.9	92.1	86.5	72.9
CD	USG 3536	62.0	12.9	53.7	60.8	57.2	59.9	48.3	70.4	55.5	42.5	72.7	86.9	66.1
CD	Progeny Bullet	61.9	13.1	54.1	55.8	46.2	45.0	60.4	76.7	58.0	43.5	84.5	82.0	66.5
CD	AgriPro SY Miskin	61.7	13.8	54.4	64.2	60.1	53.9	51.1	67.2	44.7	52.4	84.3	79.3	59.6
CD	AgriPro SY Viper	61.1	14.2	56.4	59.9	44.3	46.2	57.7	78.2	38.2	45.9	87.0	90.7	62.6
CD	USG 3448	60.8	14.1	54.5	61.9	59.0	46.7	57.8	60.7	48.6	46.5	81.0	81.4	64.6
CD	Dyna-Gro 9701	60.7	13.0	54.7	57.1	63.5	50.1	53.9	63.7	49.2	44.3	81.6	80.7	63.1
CD	USG 3228	60.7	13.3	53.5	59.1	73.6	55.4	47.7	58.4	51.2	41.3	75.7	85.0	59.3
CD	Armor Mayhem	60.6	13.2	54.8	62.1	45.5	48.8	63.7	65.4	38.1	41.0	84.1	90.3	66.8
CD	Dyna-Gro 9862	60.2	13.1	54.6	61.0	57.8	38.5	57.3	59.6	52.2	50.4	86.9	81.9	56.4
CD	Stratton Seed GW 2059	60.1	13.3	53.4	55.3	46.4	59.0	56.2	68.9	50.6	41.8	82.7	77.9	61.7
CD	Progeny Turbo	59.9	13.4	54.2	48.8	66.8	54.3	47.7	63.5	41.5	43.6	87.0	85.3	60.7
D	Dyna-Gro 9750	56.9	14.0	53.4	60.0	46.7	41.2	52.4	58.1	43.7	56.8	81.8	80.8	47.0
	Averages	63.1	13.5	54.2	64.8	58.8	51.1	59.1	66.3	50.0	49.0	84.2	86.1	61.6

Yields have been adjusted to 13.5% moisture. Each variety was evaluated in a large strip-plot at each location, thus each county test was considered as one replication of the test in calculating the average yield and in conducting the statistical analysis to determine significant differences (MS)

MS=Varieties that have any MS letter in common are not statistically different in yield at the 5% level of probability.

Varieties denoted with an asterisk (*), or (**), were in the top performing group in 2018 and 2017, or 2018- 2016, respectively.

Official test weight of No. 2 wheat=58 lbs/bu. TWT = Avg. Test Wt. lbs./bu @ 8 locations.

Table 5. Average yields† and test weights of 21 soft red winter wheat varieties that were in common to both the County Standard (CST) Tests (n=10) and the Research and Education Center (REC) Tests (n=5) in Tennessee during 2018.

Brand	Variety	Average of CST & REC Tests		County Standard Tests		REC Tests	
		Avg. Yield bu/a	Test Weight‡ lbs/bu	Avg. Yield bu/a	Test Weight lbs/bu	Avg. Yield bu/a	Test Weight lbs/bu
USG	3895	71	54.0	66	54.2	76	53.7
Croplan	SRW 9606	69	54.0	66	54.4	72	53.6
Dyna-Gro	9522	72	53.2	65	54.2	78	52.1
Croplan	SRW 8550	76	55.0	65	54.7	86	55.2
Progeny	#Boss	72	53.9	65	54.5	79	53.2
USG 3404	3404	70	53.3	63	53.9	79	52.7
Stratton Seed	AGS 2055	72	53.4	63	53.5	81	53.2
Stratton Seed	GW 2058	72	55.0	63	54.5	81	55.4
AgriPro	SY 547	73	55.1	63	53.9	82	56.3
USG	3536	73	54.5	62	53.7	84	55.2
Progeny	Bullet	73	54.7	62	54.1	84	55.3
AgriPro	SY Miskin	73	55.4	62	54.4	83	56.4
AgriPro	SY Viper	69	56.8	61	56.4	77	57.1
USG	3448	68	54.5	61	54.5	74	54.4
Dyna-Gro	9701	73	54.6	61	54.7	84	54.4
USG	3228	69	53.2	61	53.5	77	52.8
Armor Mayhem	Mayhem	73	54.9	61	54.8	84	54.9
Dyna-Gro	9862	65	55.0	60	54.6	69	55.3
Stratton Seed	GW 2059	69	54.2	60	53.4	78	55.0
Progeny	Turbo	69	55.0	60	54.2	78	55.9
Dyna-Gro	9750	66	53.3	57	53.4	74	53.2
Average		71	54.4	62	54.3	79	55

Table 6. Mean yields† of 33 soft red winter wheat varieties evaluated at four locations (n=8) in Tennessee for two years, 2017 and 2018.

Brand	Variety	Avg. Yield (n=8)‡	-----bu/a-----			
			Knoxville	Springfield	Jackson	Milan
Va Tech	Hilliard	84.4	86.2	85.3	96.3	69.9
Progeny	#Bullet	84.0	78.5	87.4	98.9	71.2
USG	3536	83.8	89.7	80.2	93.3	72.2
Pioneer	26R10	83.7	76.2	82.1	99.9	76.7
Stratton	Go Wheat 2058	82.4	82.3	78.4	91.3	77.9
Progeny	#Boss	82.3	83.8	80.2	90.3	74.8
USG	3438	82.2	89.0	79.2	86.2	74.4
DeltaGrow	1000	82.1	80.8	81.6	96.9	69.2
Dyna-gro	9701	81.9	80.1	82.2	96.9	68.6
Stratton	AGS 2055	81.2	81.2	77.0	93.7	72.8
Pioneer	26R41	80.7	82.9	81.0	87.2	71.7
Croplan by Winfield	SRW 9415	80.0	74.7	73.5	94.3	77.5
USG	3404	79.2	75.3	73.1	90.2	77.9
Va Tech	VA12W-31	79.0	79.9	78.3	89.0	69.0
Progeny	#Turbo	78.9	93.7	85.4	75.7	60.9
TN Exp.	TN 1702	78.9	82.0	80.8	81.7	70.8
Pioneer	26R36	78.8	78.7	67.2	92.0	78.4
AgriPro/Syngenta	SY 547	78.7	89.0	84.9	70.3	70.8
USG	3895	78.2	77.9	69.9	94.5	70.6
Progeny	#Blaze	78.0	72.0	72.1	92.9	74.8
Progeny	#Warrior	77.8	87.6	78.0	62.8	71.7
Dyna-gro	9522	77.5	71.1	70.7	92.8	75.6
USG	3448	77.2	78.7	67.5	90.5	72.2
Stratton	Go Wheat 2059	77.0	87.5	79.4	78.4	62.8
AgriPro/Syngenta	SY Viper	77.0	82.8	86.1	60.6	70.6
TN Exp.	TN 1604	76.5	74.6	90.6	78.0	65.4
Croplan by Winfield	SRW 9606	76.4	69.2	68.4	90.5	77.7
Pioneer	26R59	76.3	64.5	79.3	83.5	77.7
Progeny	#Fury	76.2	90.6	84.5	64.3	64.6
Dyna-gro	9750	75.7	89.6	72.0	71.9	69.5
TFC	FFR 2407	75.5	71.3	67.5	92.8	69.0
Pioneer	26R45	74.2	77.1	79.2	83.9	56.2
Progeny	PGX16-4	71.5	80.4	80.3	55.8	69.7
Average (bu/a)		79.0	80.5	78.3	86.0	71.4
L.S.D._{.05} (bu/a)		6.8	10.7	12.0	14.1	11.8
C.V. (%)		15.0	11.5	13.3	14.3	10.8

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Table 7. Mean yields† and agronomic characteristics of 33 soft red winter wheat varieties evaluated at four locations (n=8) in Tennessee for two years, 2017 and 2018.

Brand	Variety	Avg. Yield	Test	Date	Height	Lodged
		(n=8)‡	Weight#	Headed	(n=6)	Plants
		bu/a	lbs/bu	(n=6)	in.	(n=6)
				Julian		%
Va Tech	Hilliard	84.4	55.6	113	36	2
Progeny	#Bullet	84.0	55.3	113	36	3
USG	3536	83.8	55.2	115	36	1
Pioneer	26R10	83.7	53.8	116	33	2
Stratton	Go Wheat 2058	82.4	55.4	113	30	1
Progeny	#Boss	82.3	53.7	113	31	3
USG	3438	82.2	52.6	113	32	2
DeltaGrow	1000	82.1	54.9	114	34	2
Dyna-gro	9701	81.9	54.9	115	36	3
Stratton	AGS 2055	81.2	53.8	114	36	1
Pioneer	26R41	80.7	55.1	113	31	5
Croplan by Winfield	SRW 9415	80.0	54.6	115	34	2
USG	3404	79.2	53.4	116	34	4
Va Tech	VA12W-31	79.0	55.9	112	32	7
Progeny	#Turbo	78.9	55.7	113	32	1
TN Exp.	TN 1702	78.9	55.5	113	32	9
Pioneer	26R36	78.8	54.8	115	33	4
AgriPro/Syngenta	SY 547	78.7	56.5	111	36	5
USG	3895	78.2	53.9	113	31	2
Progeny	#Blaze	78.0	54.3	113	33	3
Progeny	#Warrior	77.8	54.1	112	32	3
Dyna-gro	9522	77.5	53.3	116	34	2
USG	3448	77.2	55.1	112	32	6
Stratton	Go Wheat 2059	77.0	54.3	112	31	1
AgriPro/Syngenta	SY Viper	77.0	56.6	111	34	9
TN Exp.	TN 1604	76.5	54.3	115	33	12
Croplan by Winfield	SRW 9606	76.4	53.7	112	32	5
Pioneer	26R59	76.3	55.9	113	31	2
Progeny	#Fury	76.2	55.9	112	33	2
Dyna-gro	9750	75.7	53.6	111	32	4
TFC	FFR 2407	75.5	54.4	115	34	1
Pioneer	26R45	74.2	54.7	113	35	18
Progeny	PGX16-4	71.5	55.9	111	33	18
	Average (bu/a)	79	54.8	116	33	5
	C.V. (%)	15	3.1	3.3	5.9	178

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Table 8. Mean yields† of 18 soft red winter wheat varieties evaluated at four locations (n=12) in Tennessee for three years, 2016 - 2018.

Brand	Variety	Avg. Yield (n=12)‡	Knoxville	Spring Field	Jackson	Milan
-----bu/a-----						
USG	3536	87.1	97.0	82.4	87.5	81.3
Va Tech	Hilliard	86.7	91.6	84.4	87.2	83.1
Progeny	#Bullet	85.9	89.0	83.6	92.3	78.6
Pioneer	26R10	85.9	82.7	79.3	98.0	83.4
Stratton	Go Wheat 2058	85.0	88.8	78.6	90.3	82.8
Pioneer	26R41	84.9	91.7	77.8	86.3	83.6
USG	3895	83.5	84.9	74.9	93.0	81.4
USG	3438	83.0	88.0	76.2	87.1	80.6
Stratton	Go Wheat 2059	82.6	97.5	78.6	78.3	76.0
USG	3404	82.5	81.0	72.1	88.0	88.6
Progeny	#Warrior	81.9	92.8	76.3	72.7	82.6
Progeny	#Turbo	81.1	98.6	80.4	73.5	72.0
AgriPro/Syngenta	SY Viper	80.5	83.2	82.3	73.1	80.9
Croplan by Winfield	SRW 9415	80.4	80.6	68.4	88.8	83.8
Pioneer	26R59	80.3	77.9	73.0	84.7	85.5
TN Exp.	TN 1604	79.9	78.9	84.5	82.8	75.0
Dyna-gro	9522	79.0	77.5	66.1	87.0	85.2
TFC	FFR 2407	78.5	78.9	63.6	90.6	80.1
Average (bu/a)		82.6	86.7	76.8	85.8	81.3
L.S.D._{.05} (bu/a)		14.5	11.8	14.8	16	9.6
C.V. (%)		5.6	11.1	12.3	14.8	8.5

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Table 9. Mean yields† and agronomic characteristics of 18 soft red winter wheat varieties evaluated at four locations (n=12) for three years, 2016 - 2018.

Brand	Variety	Avg. Yield (n=15)‡	Test Weight (n=9)	Date Headed (n=6)	Height (n=12)	Lodged Plants (n=12)
		bu/a	lbs/bu	julian	in.	%
USG	3536	87.1	55.3	117	37	2
Va Tech	Hilliard	86.7	56.8	114	36	3
Progeny	#Bullet	85.9	55.9	115	36	3
Pioneer	26R10	85.9	54.8	117	33	3
Stratton	Go Wheat 2058	85.0	56.5	114	30	2
Pioneer	26R41	84.9	56.1	116	31	5
USG	3895	83.5	55.3	115	32	2
USG	3438	83.0	53.8	115	32	3
Stratton	Go Wheat 2059	82.6	55.2	114	32	2
USG	3404	82.5	54.1	118	34	4
Progeny	#Warrior	81.9	54.7	115	32	3
Progeny	#Turbo	81.1	56.1	114	33	2
AgriPro/Syngenta	SY Viper	80.5	57.1	113	36	9
Croplan by Winfield	SRW 9415	80.4	55.7	117	33	3
Pioneer	26R59	80.3	56.9	116	31	3
TN Exp.	TN 1604	79.9	55.1	116	34	12
Dyna-gro	9522	79.0	54.1	118	34	3
TFC	FFR 2407	78.5	55.4	117	34	2
Average		82.6	55.4	116	33	4
C.V. (%)		14.5	3.1	1.5	5.3	182

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Date headed = no. of days after January 1.

Table 10. Contact information for wheat seed companies evaluated in yield tests in Tennessee during 2018.

Company	Contact	Phone	Email	Web site	Address
AgriPro/Syngenta	Ken Davis	815-953-2041	kenneth.davis@syngenta.com	https://agriprowheat.com/	726 River Place Drive, Bourbonnais, IL 60914
Armor Seed	Lane Dill	901-233-0274	lanedill@armorseed.com	www.armorseed.com	P.O. Box 9, Waldenburg, AR 72475
Beck's Hybrids	Austin Scott	731-234-3625	austin.scott@beckshybrids.com	www.beckshybrids.com	6767 E. 276th St., Atlanta, IN 46031
Cache River Valley Seed	Ted Holt	870-477-5427	tedh@crvseed.com	www.crvseed.com	P.O. Box 10, 12470 Hwy 226 E., Cash, AR 72421
Croplan by Winfield	Paul Gregor		PSGregor@landolakes.com	www.winfield.com/Farmer/Croplan	10515 115th St. NW, Thief River Falls, MN 56701
Delta Grow Seed	Lee Hughes	501-842-2572	leehughes19@hotmail.com	www.deltagrow.com	P O Box 219, England, AR 72046
Dyna-Gro	Jonathan Fant	731-885-1212	Jonathan.Fant@cpsagu.com	www.dynagroseed.com	710 South First St., Union City, TN 38261
Pioneer Hi-Bred Int.	George Stabler	803-308-1003	george.stabler@pioneer.com	www.pioneer.com	59 Greif Parkway, Suite 200, Delaware, OH 43015
Progeny	Hunter Fincher	731-693-3555	hunter@progenyag.com	www.progenyag.com	1529 Hwy 193, Wynne, AR 72396
Steyer Seeds	Joe Steyer	800-231-4274	joesteyer@yahoo.com	www.steyerseeds.com	PO Box 209, Old Fort, OH 44861
Stratton Seed Company	Heath North	800-264-4433	hnorth@strattonseed.com	www.gostrattonseed.com	1530 Hwy 79, South Stuttgart AR 72160
LimaGrain	Gary Moore		gary.moore@limagrain.com	www.limagraincerealseeds.com	
Tennessee Farmers Co-Op	Bryan Johnson	615-793-8506	bjohnson@ourcoop.com	www.ourcoop.com	180 Old Nashville Hwy, LaVergne, TN 37086

(continued)

Table 10. Contact information for wheat seed companies evaluated in yield tests in Tennessee during 2018.

Company	Contact	Phone	Email	Web site	Address
University of Arkansas	Esten Mason	479-387-8899	esten@uark.edu		
University of Tennessee	Dennis West	865-974-8826	dwest3@utk.edu		3421 Joe Johnson Dr, Knoxville, TN 37996-4561
University of Georgia	Mohamed Mergoum		mmergoum@uga.edu		Griffin, GA 30223
Unisouth Genetics (USG)	Stacy Burwick	645-504-1595	sburwick@usgseed.com	www.usgseed.com	3205-C HWY 46 South, Dickson, TN 37055
	David Fandrich	931-967-3377	fandrichsupply@aol.com		
	Mark Huffstetler	731-235-2167	huffy1@cruet.com		
	Trey Hurt	731-836-7574	hurtco@bellsouth.net		
	Wes Miller	731-536-6251	wes@obiongrain.com		
	Billy Sellers	731-538-2990			Obion Grain Co. Inc, Obion, TN Sellers Seed, Obion, TN
Virginia Crop Improvement	Tom Hardiman	804-746-4884	rmarkham@vt.edu	www.virginiacrop.org	Virginia Crop Improvement Assoc. 9225 Atlee Branch Lane Mechanicsville, VA 23116
Warren Seed	Lanny Warren	731-234-2921	lanny.warren@charter.net		208 S. Thompson St., Union City, TN 38261