

Wheat Variety Performance Tests in Tennessee

2017

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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 2016-17 variety performance tests were conducted on 69 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). A test at the Agricenter in Memphis was lost due to damage from deer.

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 26 soft red winter wheat varieties across ten counties in Middle and West Tennessee (Chester, Dyer, Fayette, Franklin, Gibson, 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 2016 at all locations except Knoxville. Planting at Knoxville was delayed due to extremely dry 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, with leaf blight caused by *Septoria tritici* being the most widespread problem.

According to the Tennessee Agricultural Statistics Service (TASS), Estimated State yield average is 72 bu/a in 2017. Tennessee producers planted approximately 380,000 acres of wheat in the fall of 2016. Approximately 285,000 acres are estimated to be harvested for grain. According to TASS, the total wheat production in Tennessee for 2017 is projected to be 20.5 million bushels, a decrease of 26 percent from 2016 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 2017, 69 wheat varieties were evaluated in five Research and Education Center (REC) tests, and 26 varieties were evaluated in 12 county standard tests (CST). Sixteen varieties in the CST were also present in the REC tests (Table 5). Fourteen companies and three universities entered varieties into the tests this year. The average yield of the 69 varieties in the 2017 REC tests was 73 bu/a (range from 57 to 83 bu/a, Table 2). The varieties ranged in heading date from 113 to 122 days after January 1 (Julian date) with most of the varieties clustering around 117 days (Table 3). The average yield of the 26 varieties in the county tests was 83 bu/a, with individual varieties ranging from 90 to 74 bu/a (Table 4). The test weight values ranged from 51.6 to 56.8 lbs/bu in the REC tests (Table 3) and 51 to 56 lbs/bu in the CST (Table 4).

Table 1. Location information from research and education centers where the wheat variety tests were conducted in 2016-17.

Research and Education Center	Location	Planting Date	Harvest Date	Seeding Rate	Soil Type	
Knoxville	Knoxville	11/15/2016	6/12/2017	35/ft ²	1.5 mill./ac	Huntington Silt Loam
Highland Rim	Springfield	10/24/2016	6/14/2017	35/ft ²	1.5 mill./ac	Dickson Silt Loam
West Tennessee	Jackson	10/18/2016	6/13/2017	35/ft ²	1.5 mill./ac	Dexter Silt Loam
Milan	Milan	10/28/2016	6/14/2017	35/ft ²	1.5 mill./ac	Grenada Silt Loam
Plateau	Crossville	10/25/2016	6/14/2017	35/ft ²	1.5 mill./ac	Hendon Silt Loam

Table 2. Mean yields† of 69 soft red winter wheat varieties evaluated at five locations in Tennessee during 2017

Brand	Variety	Avg. Yield	Knoxville	Crossville	Springfield	Jackson	Milan
		(n=5)‡					
		-----bu/a-----					
Pioneer	26R10	83	77	72	85	98	83
USG	3438	82	89	72	81	87	80
Progeny	#Boss	79	77	63	81	94	82
Progeny	#Bullet	79	78	66	87	90	73
Va Tech	VA12W-31	79	80	70	80	86	77
Pioneer	26R53	79	76	69	79	88	81
USG	EXP 3228	78	97	66	78	80	71
Va Tech	Hilliard	78	82	64	78	89	79
Becks	128	78	66	61	79	102	82
Stratton	Go Wheat 2058	78	82	69	70	84	85
Becks	123	78	87	64	71	87	79
USG	3536	77	85	66	73	84	77
Croplan by Winfield	SRW 9606	77	76	61	81	87	81
Becks	125	77	81	68	71	88	78
DeltaGrow	1000	77	74	63	77	101	71
USG	3895	77	75	70	72	93	73
Croplan by Winfield	SRW 9415	77	67	63	78	90	85
Progeny	#Turbo	77	103	73	68	76	64
TN Exp.	TN 1702	76	73	67	85	81	76
Stratton	AGS 2055	76	78	65	71	91	77
Dyna-gro	9522	76	68	60	83	89	82
Dyna-gro	9701	76	79	62	79	86	75
Progeny	PGX16-3	76	75	61	76	90	79
Pioneer	26R41	76	74	66	80	84	76
TN Exp.	TN 1604	76	68	71	99	73	68

(continued)

Table 2. Mean yields† of 69 soft red winter wheat varieties evaluated at five locations in Tennessee during 2017

Brand	Variety	Avg. Yield	Knoxville	Crossville	Springfield	Jackson	Milan
		(n=5)‡					
		-----bu/a-----					
Dyna-gro	9772	76	86	63	84	75	72
Progeny	P243	76	85	61	75	76	82
Limagrain	LES14-4508	76	75	70	71	86	76
Progeny	#Warrior	75	85	64	75	74	76
Limagrain	L11610	75	83	64	73	81	75
Va Tech	VA11W-108PA	75	82	61	82	77	74
Dyna-gro	9750	75	97	72	69	63	74
Pioneer	26R36	75	76	49	72	95	84
USG	3448	75	80	59	70	87	79
Armor	Mayhem	74	80	66	75	87	66
USG	3404	74	71	63	79	81	77
Syngenta	SY Viper	74	82	62	81	72	69
USG	3201	74	73	59	71	93	76
USG	EXP 3458	74	80	70	83	56	74
Stratton	Go Wheat 2059	74	100	62	70	79	59
Armor	Menace	73	77	60	66	89	72
Dyna-gro	WX17782	73	71	59	78	.	79
Syngenta	SY 547	73	87	70	79	64	65
USG	3013	73	69	58	82	78	77
Stratton	Go Wheat EXP 100	72	75	50	74	92	71
Progeny	PGX16-1	72	86	65	80	62	67
Pioneer	26R59	72	62	71	77	72	78
Dyna-gro	9591	72	77	61	74	84	65
Armor	ARW1575	72	92	49	73	72	75
DeltaGrow	3500	71	66	61	73	81	72

(continued)

Table 2. Mean yields† of 69 soft red winter wheat varieties evaluated at five locations in Tennessee during 2017

Brand	Variety	Avg. Yield	Knoxville	Crossville	Springfield	Jackson	Milan
		(n=5)‡					
-----bu/a-----							
Univ. of Ga	GA071012-14E6	70	84	62	69	66	71
USG	3197	70	82	60	65	80	64
TFC	FFR 2407	70	69	56	62	86	76
Progeny	P357	70	60	54	79	88	67
Progeny	PGX14-5	70	69	64	89	72	55
Univ. of Ga	GA07353-14E19	69	69	49	84	74	70
USG	EXP 3569	69	90	60	66	46	76
Va Tech	VA11W-313	69	83	62	74	71	58
TN Exp.	TN 1703	69	72	55	71	71	77
Pioneer	XW15C	68	78	66	76	.	37
Univ. of Ga	GA051207-14E53	68	80	57	71	61	72
Stratton	AGS 2038	68	67	57	69	76	71
Texas A&M	Tx-EL2	67	68	51	76	71	70
Progeny	PGX16-4	67	82	56	77	57	65
TN Exp.	TN 1701	66	72	68	80	56	56
TN Exp.	TN 1501	66	69	54	76	63	67
Va Tech	VA11W-279	65	78	65	64	57	63
Univ. of Ga	GAJT 141-14E45	57	70	58	46	50	62
TN Exp.	TN 1704	57	62	51	62	63	45
Average (bu/a)		73.4	77.8	62.3	75.4	79.2	72.4
L.S.D._{.05} (bu/a)		7.6	11.5	14.4	14.2	17.1	11.4
C.V. (%)		14.2	8.5	14.1	11.4	13.2	9.7

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Table 3. Mean yields† and agronomic characteristics of 69 soft red winter wheat varieties evaluated at five locations in Tennessee during 2017

Brand	Variety	Avg. Yield (n=5)‡	Test Weight# (n=3)	Heading Date (n=5)	Height (n=6)	Lodged Plants (n=3)	Leaf blotch (n=4)
		bu/a	lbs/bu	julian	in.	%	1 to 9
Pioneer	26R10	83	54.5	119	32	5	1.8
USG	3438	82	52.9	116	32	3	3.5
Progeny	#Boss	79	54.2	117	31	6	3.1
Progeny	#Bullet	79	55.4	120	34	6	2.4
Va Tech	VA12W-31	79	55.8	118	30	9	2.0
Pioneer	26R53	79	56.5	118	30	4	2.1
USG	EXP 3228	78	53.9	117	30	4	2.4
Va Tech	Hilliard	78	55.1	117	32	5	2.6
Becks	128	78	54.2	119	31	2	3.9
Stratton	Go Wheat 2058	78	55.5	119	28	2	3.2
Becks	123	78	55.2	115	33	12	3.4
USG	3536	77	55.0	120	33	3	2.6
Croplan by Winfield	SRW 9606	77	53.8	118	31	9	2.2
Becks	125	77	55.5	120	33	4	2.6
DeltaGrow	1000	77	55.4	120	33	4	2.4
USG	3895	77	54.2	117	29	4	2.0
Croplan by Winfield	SRW 9415	77	54.5	120	32	5	2.4
Progeny	#Turbo	77	55.5	115	31	3	2.1
TN Exp.	TN 1702	76	55.6	118	30	14	2.9
Stratton	AGS 2055	76	54.3	118	32	3	2.6
Dyna-gro	9522	76	54.4	120	33	4	2.4
Dyna-gro	9701	76	55.4	119	33	6	2.3
Progeny	PGX16-3	76	54.9	118	31	7	2.6
Pioneer	26R41	76	55.9	118	28	8	2.2
TN Exp.	TN 1604	76	54.1	118	33	18	1.7

(continued)

Table 3. Mean yields[†] and agronomic characteristics of 69 soft red winter wheat varieties evaluated at six locations in Tennessee during 2017

Brand	Variety	Avg Yield (n=5)[‡]	Test Weight# (n=3)	Heading date (n=5)	Height (n=6)	Lodged Plants (n=3)	Leaf Blotch N=3
		bu/a	lbs/bu	julian	in.	%	1 to 9
Dyna-gro	9772	76	53.5	115	33	13	2.7
Progeny	P243	76	55.7	116	34	7	3.2
Limagrain	LES14-4508	76	56.2	118	32	11	2.6
Progeny	#Warrior	75	54.3	117	32	3	2.1
Limagrain	L11610	75	55.4	115	32	20	3.6
Va Tech	VA11W-108PA	75	55.1	115	33	6	2.9
Dyna-gro	9750	75	53.6	115	30	8	2.3
Pioneer	26R36	75	55.1	120	32	8	2.8
USG	3448	75	55.8	117	31	11	2.2
Armor	Mayhem	74	55.5	119	35	7	2.9
USG	3404	74	54.0	120	32	2	2.0
Syngenta	SY Viper	74	56.0	116	33	10	2.8
USG	3201	74	55.8	119	30	7	2.4
USG	EXP 3458	74	54.1	117	31	7	2.0
Stratton	Go Wheat 2059	74	53.6	117	30	2	2.0
Armor	Menace (nee 1521)	73	55.4	119	33	7	2.7
Dyna-gro	WX17782	73	56.1	121	32	8	1.9
Syngenta	SY 547	73	56.6	116	35	9	2.7
USG	3013	73	53.6	121	35	12	2.2
Stratton	Go Wheat EXP 100	72	54.5	117	31	7	2.9
Progeny	PGX16-1	72	55.4	116	31	4	2.2
Pioneer	26R59	72	54.5	117	30	5	2.1
Dyna-gro	9591	72	55.8	116	34	12	2.7
Armor	ARW1575	72	.	119	32	4	2.9
DeltaGrow	3500	71	56.4	113	30	7	3.0

(continued)

Table 3. Mean yields† and agronomic characteristics of 69 soft red winter wheat varieties evaluated at six locations in Tennessee during 2017

Brand	Variety	Avg. Yield (n=7)‡	Test Weight# (n=3)	Heading date (n=5)	Height (n=6)	Lodged plants (n=3)	Leaf Blotch (n=3)
		bu/a	lbs/bu	julian	in.	%	1 to 9
Univ. of Ga	GA071012-14E6	70	56.6	116	30	4	3.4
USG	3197	70	53.4	118	33	11	3.1
TFC	FFR 2407	70	54.4	121	32	3	2.1
Progeny	P357	70	51.6	122	31	2	2.6
Progeny	PGX14-5	70	56.5	116	34	21	2.6
Univ. of Ga	GA07353-14E19	69	55.8	118	31	3	3.3
USG	EXP 3569	69	56.0	117	32	4	3.0
Va Tech	VA11W-313	69	52.7	114	27	22	4.2
TN Exp.	TN 1703	69	53.2	122	29	8	2.6
Pioneer	XW15C	68	54.2	119	33	24	1.7
Univ. of Ga	GA051207-14E53	68	55.1	115	31	5	2.4
Stratton	AGS 2038	68	57.1	121	37	4	2.6
Texas A&M	Tx-EL2	67	55.4	119	30	18	3.3
Progeny	PGX16-4	67	55.4	115	29	29	2.9
TN Exp.	TN 1701	66	53.8	115	32	26	2.6
TN Exp.	TN 1501	66	52.7	114	31	24	3.3
Va Tech	VA11W-279	65	56.8	115	28	12	1.8
Univ. of Ga	GAJT 141-14E45	57	55.8	115	31	8	3.0
TN Exp.	TN 1704	57	53.0	114	30	23	4.4
Average		73	54.9	119	31	9	2.6

† 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.

Leaf blotch incited by *Septoria tritici*. Rating scale: 1 = no disease, 9 = all leaves dead.

Table 4. Yields† of 26 soft red winter wheat varieties evaluated in 11 County Standard Test in Tennessee during 2017.

		AvgYld	MOIST	TWT	Chester	Dyer	Fayette	Franklin 15	Franklin 7.5	Gibson	Henry	Lake	Madison	Moore	Weakley
MS	Brand/Variety	bu/a	%	lbs/bu	11/3	11/1	11/11	11/21	11/10	11/7	11/2	11/9	10/26	11/2	10/18
A	Progeny #Boss	90.2	12.2	56	86	92	92	78	131	69	96	76	103	85	85
AB	USG 3536	87.7	12.9	56	80	94	85	83	122	70	90	63	98	93	89
AB	**USG 3404	87.6	12.9	54	89	96	91	70	133	61	82	76	104	88	74
AB	**Warren Seed McKay 120	86.9	12.9	56	93	93	92	71	124	74	87	63	104	76	79
ABC	AgriPro SY Viper	86.6	13.2	54	83	96	73	81	123	66	94	80	107	77	71
ABCD	AgriPro SY 547	86.3	13.5	56	84	90	79	78	125	68	92	70	101	77	85
ABCD	Armor Mayhem	85.6	13.0	55	85	96	92	87	102	72	93	66	99	62	88
ABCD	**Dyna-Gro 9522	85.6	13.2	55	83	97	103	71	126	62	93	64	100	77	66
ABCDE	Croplan SRW 9606	85.0	12.9	53	85	102	72	75	123	69	77	71	103	84	74
ABCDE	Dyna-Gro 9750	84.2	12.8	54	75	100	72	85	101	65	82	79	105	92	70
ABCDEF	*USG 3895	84.1	12.8	55	85	100	70	72	123	65	92	66	99	73	79
BCDEFG	Beck's 125	83.3	13.1	56	81	98	79	78	126	58	88	71	104	63	69
BCDEFG	Warren Seed McKenna 315	83.1	12.5	53	80	95	83	70	115	57	81	61	103	92	78
BCDEFGH	Beck's 120	82.9	12.8	55	84	96	87	67	115	70	79	67	102	75	71
BCDEFGH	Armor ARW 1575	82.7	13.2	52	79	95	64	69	113	66	98	73	97	76	82
BCDEFGH	Stratton Seed AGS 2055	81.7	12.8	55	82	92	91	60	109	59	80	70	98	85	72
BCDEFGH	Croplan SRW 9415	81.3	13.1	54	80	95	85	65	123	63	88	59	101	68	68
CDEFGHI	Dyna-Gro 9772	80.1	12.5	53	77	89	78	84	119	57	89	71	95	58	65
CDEFGHI	Armor Menace	80.1	13.5	54	81	94	82	66	114	74	68	71	94	77	62
DEFGHI	USG 3197	80.0	13.0	53	74	92	82	77	105	67	82	72	102	77	52
EFGHI	Dyna-Gro 9600	78.9	13.0	52	70	88	70	83	106	59	73	89	89	92	50
EFGHI	Dyna-Gro 9223	78.9	13.2	54	90	93	80	54	112	71	73	58	96	88	51
FGHI	Warren Seed McKenna 325	77.6	12.4	51	86	97	83	56	110	63	77	58	103	82	39
GHI	Progeny P243	77.3	12.7	53	76	89	79	69	116	67	81	64	93	75	42
HI	Stratton Seed 2059	76.4	12.7	54	73	91	63	80	116	57	80	57	102	66	55
I	Progeny P357	73.7	12.4	53	86	86	80	49	106	51	76	45	103	75	53
	Average	82.6	12.9	54.1	81.8	94.0	81.0	72.2	116.9	64.6	84.3	67.7	100.1	78.1	68.0

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 2017 and 2016, or 2017- 2015, respectively.

Official test weight of No. 2 wheat=58 lbs/bu. TWT = Avg. Test Wt. lbs./bu @ 10 locations.

Franklin Co. had two separate locations with different row spacings. 15in., and 7.5 in.

Table 5. Average yields† and test weights of 16 soft red winter wheat varieties that were in common to both the County Standard (CST) Tests (n=12) and the Research and Education Center (REC) Tests (n=5) in Tennessee during 2017.

<u>Brand</u>	<u>Variety</u>	<u>Average of CST & REC Tests</u>		<u>County Standard Tests</u>		<u>REC Tests</u>	
		<u>Avg. Yield</u> bu/a	<u>Test Weight††</u> lbs/bu	<u>Avg. Yield</u> bu/a	<u>Test Weight</u> lbs/bu	<u>Avg. Yield</u> bu/a	<u>Test Weight</u> lbs/bu
Progeny	#Boss	85	55	90	56	79	54
USG	3536	83	56	88	56	77	55
USG	3404	81	54	88	54	74	54
AgriPro	SY Viper	81	55	87	54	74	56
AgriPro	SY547	80	56	86	56	73	57
Dyna-Gro	9522	81	55	86	55	76	54
USG	3895	81	55	84	55	77	54
Beck's	125	80	56	83	56	77	56
Armor	ARW1575	78	54	83	52	72	56
Stratton Seed	AGS 2055	79	55	82	55	76	54
Croplan	SRW 9415	79	54	81	54	77	55
Dyna-Gro	9772	78	53	80	53	76	54
Armor	Menace	77	55	80	54	73	55
Progeny	P243	77	55	77	53	76	56
Stratton Seed	2059	75	54	76	54	74	54
Progeny	P357	72	52	74	53	70	52
Average		79	55	83	54	75	55

Table 6. Mean yields† of 27 soft red winter wheat varieties evaluated at five locations (n=10) in Tennessee for two years, 2016 and 2017

Brand	Variety	Avg. Yield					
		(n=10)‡	Knoxville	Springfield	Milan	Crossville	Jackson
		-----bu/a-----					
Pioneer	26R10	83	86	79	90	66	96
USG	3895	82	87	78	88	67	92
Pioneer	26R41	82	92	76	92	66	84
USG	3536	81	98	80	89	59	80
Progeny	#Bullet	80	94	82	83	59	85
Va Tech	Hilliard	80	92	80	94	54	78
USG	3438	80	87	76	87	62	88
Stratton	Go Wheat 2058	80	92	75	89	57	86
USG	3197	79	96	76	87	55	84
USG	3201	79	88	73	87	57	92
Stratton	Go Wheat 2059	79	109	74	81	54	78
Pioneer	26R53	79	90	70	91	56	88
Progeny	#Warrior	78	94	74	90	55	78
TN Exp.	TN 1604	78	78	86	81	64	83
Syngenta	SY Viper	78	83	78	85	60	85
Becks	123	78	95	66	89	56	84
Progeny	#Turbo	78	106	69	79	62	73
USG	3404	78	82	74	94	55	82
USG	3013	77	82	73	93	59	80
Pioneer	26R59	77	72	76	94	64	79
Dyna-gro	9591	76	84	73	81	57	85
Dyna-gro	9522	76	79	70	93	54	82
Croplan by Winfield	SRW 9415	75	80	68	91	54	84
TN Exp.	TN 1501	75	87	78	80	55	74
Progeny	P243	75	93	67	92	51	70
TFC	FFR 2407	73	81	59	89	51	86
Progeny	P357	71	73	69	84	52	77
Average (bu/a)		78	88	74	88	58	83
L.S.D._{.05} (bu/a)		6	10	13	10	10	14
C.V. (%)		14	10	15	10	15	15

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Table 7. Mean yields[†] and agronomic characteristics of 27 soft red winter wheat varieties evaluated at five locations (n=10) in Tennessee for two years, 2016 and 2017.

Brand	Variety	Avg. Yield (n=10)[‡]	Test Weight# (n=6)	Date Headed (n=6)	Height (n=8)	Lodged Plants (n=3)
		bu/a	lbs/bu	Julian	in.	%
Pioneer	26R10	83	53.7	120	32	5
USG	3895	82	55.3	117	31	4
Pioneer	26R41	82	56.3	119	30	8
USG	3536	81	54.6	120	36	3
Progeny	#Bullet	80	55.4	119	35	6
Va Tech	Hilliard	80	56.2	116	34	5
USG	3438	80	53.7	117	32	3
Stratton	Go Wheat 2058	80	56.2	118	29	2
USG	3197	79	53.3	116	35	11
USG	3201	79	55.9	118	32	7
Stratton	Go Wheat 2059	79	54.3	116	32	2
Pioneer	26R53	79	57.0	119	30	4
Progeny	#Warrior	78	54.2	118	32	4
TN Exp.	TN 1604	78	54.6	119	34	18
Syngenta	SY Viper	78	56.1	115	36	10
Becks	123	78	56.2	116	35	12
Progeny	#Turbo	78	55.3	115	32	3
USG	3404	78	54.0	120	33	3
USG	3013	77	53.8	120	35	12
Pioneer	26R59	77	55.5	118	30	5
Dyna-gro	9591	76	55.6	116	35	12
Dyna-gro	9522	76	54.3	120	33	4
Croplan by Winfield	SRW 9415	75	55.3	121	32	5
TN Exp.	TN 1501	75	53.9	114	32	24
Progeny	P243	75	56.5	117	35	7
TFC	FFR 2407	73	55.0	121	32	3
Progeny	P357	71	52.7	121	33	2
	Average	78	55.7	117	33	7

[†] All yields are adjusted to 13.5% moisture.

[‡] n = number of environments

Table 8. Mean yields† of 16 soft red winter wheat varieties evaluated at five locations (n=15) in Tennessee for three years, 2015 - 2017.

Brand	Variety	Avg. Yield (n=15)‡	Knoxville	Spring Field	Jackson	Milan	Crossville
-----bu/a-----							
USG	3895	77	85	80	79	83	60
Pioneer	26R10	77	86	76	82	85	55
Va Tech	Hilliard	75	85	77	71	87	54
USG	3438	75	86	75	76	80	57
Pioneer	26R41	74	84	72	75	85	55
USG	3013	74	83	73	71	87	56
Stratton	Go Wheat 2058	74	87	73	77	82	51
USG	3404	74	79	74	73	91	52
Pioneer	26R59	73	78	78	71	87	52
Pioneer	26R53	73	85	68	76	88	49
Croplan by Winfield	SRW 9415	72	78	69	77	87	50
Dyna-gro	9522	72	80	74	76	86	45
Dyna-gro	9591	72	83	72	75	79	49
TN Exp.	TN 1501	71	82	76	64	78	53
TFC	FFR 2407	69	82	63	74	82	46
Progeny	P357	68	73	69	67	81	51
Average (bu/a)		73	82	73	74	84	52
L.S.D._{.05} (bu/a)		5	9	9	11	8	9
C.V. (%)		13.2	11	13.4	14.9	9.9	17.5

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

Table 9. Mean yields† and agronomic characteristics of 16 soft red winter wheat varieties evaluated at five locations (n=15) for three years, 2015 - 2017.

Brand	Variety	Avg. Yield (n=15)‡	Test Weight (n=9)	Date Headed	Height (n=12)	Lodged Plants
		bu/a	lbs/bu	julian	in.	%
USG	3895	77	57.3	114	32	2
Pioneer	26R10	77	57.0	117	32	2
Va Tech	Hilliard	75	57.6	113	34	2
USG	3438	75	55.7	113	32	1
Pioneer	26R41	74	57.6	115	31	2
USG	3013	74	54.7	117	35	5
Stratton	Go Wheat 2058	74	57.7	114	30	1
USG	3404	74	56.8	117	33	2
Pioneer	26R59	73	55.9	114	30	3
Pioneer	26R53	73	56.0	115	31	2
Croplan by Winfield	SRW 9415	72	57.3	117	32	3
Dyna-gro	9522	72	57.0	117	33	2
Dyna-gro	9591	72	58.4	113	34	5
TN Exp.	TN 1501	71	53.4	110	33	10
TFC	FFR 2407	69	57.0	118	32	2
Progeny	P357	68	55.4	117	33	1
Average		73	57.0	117	32	3.0

† 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 2016-17.

Company	Contact	Phone	Email	Web site	Address
Armor Seed	Lane Dill	901-233-0274	lanedill@armorseed.com	www.armorseed.com	P.O. Box 9, Waldenburg, AR 72475
Beck's Hybrids		800-937-2325		www.beckshybrids.com	6767 E. 276th St., Atlana, 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				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	Bret Mize	870-208-4423	bret@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
Syngenta	Ken Davis	815-953-2041	kenneth.davis@syngenta.com	https://agriprowheat.com/	726 River Place Drive, Bourbonnais, IL 60914
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
University of Tennessee	Dennis West	865-974-8826	dwest3@utk.edu		3421 Joe Johnson Dr, Knoxville, TN 37996-4561

(continued)

Table 10. Contact information for wheat seed companies evaluated in yield tests in Tennessee during 2016-17.

Company	Contact	Phone	Email	Web site	Address
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@crunet.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