

# Wheat Variety Performance Tests in Tennessee

2012

**Fred L. Allen**, Coordinator, Agronomic Crop Variety Testing & Demonstrations

**Richard D. Johnson**, Research Associate, Agronomic Crop Variety Testing & Demonstrations

**Robert C. Williams Jr.**, Extension Area Specialist, Grain Crops

**Chris Main**, Extension Specialist, Cotton & Small Grains

**Agronomic Crop Variety Testing and Demonstrations  
Department of Plant Sciences  
University of Tennessee  
Knoxville**

Telephone: (865)974-8821  
FAX: (865)974-1947  
email: allenf@utk.edu

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

<http://varietytrials.tennessee.edu>

and

[UTCrops.com](http://UTCrops.com)

## Acknowledgments

This research was funded by the Tennessee Agricultural Experiment Station and UT Extension with partial funding from participating companies.

We gratefully acknowledge the assistance of the following individuals in conducting these experiments:

### Dept. of Plant Sciences

**Dennis West**, Professor and Grains Breeder

**David Kincer**, Research Associate

**Victoria Knapp**, Undergraduate Research Assistant

### **Research and Education Centers:**

#### East Tennessee Research and Education Center, Knoxville

**Robert Simpson**, Center Director

**Lee Ellis**, Research Associate

#### Plateau Research & Education Center, Crossville

**Walt Hitch**, Center Director

**Greg Blaylock**, Light Farm Equipment Operator

**Sam Simmons**, Light Farm Equipment Operator

#### Highland Rim Research and Education Center, Springfield

**Barry Sims**, Center Director

**Brad S. Fisher**, Research Associate

#### Middle Tennessee Research and Education Center, Spring Hill

**Kevin Thompson**, Center Director

**Roy Thompson**, Research Associate

#### Research and Education Center at Milan, Milan

**Blake Brown**, Center Director

**Jason Williams**, Research Associate

**James McClure**, Research Associate

#### West Tennessee Research and Education Center, Jackson

**Robert Hayes**, Center Director

**Randi Dunagan**, Research Associate

#### Agricenter International, Memphis

**Bruce Kirksey**, Director

## **County Standard Wheat Test:**

### Coordinator:

**Robert C. Williams, Jr.**, Extension Area Specialist, Grain Crops

### Dyer County

**Tim Campbell**, Extension Director  
Allen & Keith Sims Farm

### Franklin/Grundy County

**Ed Burns and Creig Kimbro**, Extension Agents  
Steve Dixon Farm

### Gibson County

**Philip Shelby**, Extension Director  
Charles & Andy King Farm

### Henry County

**Ranson Goodman**, Extension Agent  
Edwin Ables Farm

### Lake County

**Greg Allen**, Extension Director  
Jon Dickey Farm

### Moore County

**Larry Moorehead**, Extension Director  
Jerry Ray Farm

### Weakley County

**Jeff Lannom**, Extension Director  
Gary & Gail Hall Farm

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## **General Information**

**Research and Education Center Tests:** The 2012 variety performance tests were conducted on 67 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), Middle TN (Spring Hill), Milan (Milan), and West TN (Jackson) Research and Education Centers and at the Agricenter International Research Center in Memphis.

All varieties were seeded at rates from 28-32 seed per square foot (1.2–1.4 million seed per acre) (Table 1). Plots were seeded with drills using 7–7.5 inch row spacings. The plot size was six, seven, nine or ten rows, 25 to 30 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 20 soft red winter wheat varieties across seven counties in Middle and West Tennessee (Dyer, Franklin, Gibson, Henry, Lake, 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 on the ends 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.

**Wheat Silage Tests:** In order to evaluate the 2012 wheat varieties for silage yield, a duplicate test with differing randomization was planted at the Middle Tennessee Research and Education Center. These data will be presented in the UT Extension Silage Tests publication SP618 later this year.

**Growing Season:** Mild conditions and adequate moisture during the fall of 2011 allowed for timely planting. Above normal temperatures and moisture during the early growing season were beneficial to establishment and growth. Spring conditions were very warm and dry overall with the exception of a frost which occurred across many Tennessee locations in early April. According to the Tennessee Agricultural Statistics Service (TASS), damage to the wheat crop was minimal and the crop rated in good to excellent condition in May. The wheat crop experienced a low incidence of disease and the weather conditions at maturity were very favorable for harvest which was approximately three weeks ahead of the normal pace. The result was a near record 66 bu/a state average wheat yield in 2012. This is the second highest yield on record and only 3 bushels lower than the 2011 high of 69 bu/a. Tennessee producers planted approximately 420,000 acres of wheat in the fall of 2011. Approximately 350,000 acres were harvested for grain, which was 40,000 acres more than in 2011. The remaining 70,000 acres were utilized for hay, silage, cover crop or abandoned. According to TASS, the total wheat production in Tennessee for 2012 is 23.1 million bushels, an increase of eight percent from the production of 2011.

## 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).

Also, 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

**Yield and Agronomic Traits:** During 2012, 67 wheat varieties were evaluated in seven research and education center (REC) tests, and 20 varieties were evaluated in seven county standard tests (CST). Nineteen of the 20 varieties in the CST were also present in the REC tests (Table 5). Twelve companies and five universities entered varieties into the tests this year. The average yield of the 67 varieties in the 2012 REC tests was 70 bu/a (range from 54 to 80 bu/a, Table 2). The varieties ranged in maturity from 202 to 211 days after planting (DAP) with most of the varieties clustering around 205. The test weight values ranged from 53.0 to 58.6 lbs/bu (Table 3). The average yield of the 20 varieties in the county tests was 82.1 bu/a with individual varieties ranging from 76.6 to 90.1 bu/a. The test weight values ranged from 56.7 to 60.2 lbs/bu (Table 4).

**Table 1. Location information from research and education centers where the wheat variety tests were conducted in 2012.**

Research and Education Center	Location	Planting Date	Harvest Date	Seeding Rate	Soil Type	
Knoxville	Knoxville	10/26/2011	6/8/2012	28/ft <sup>2</sup>	1.2 mill./ac	Huntington Silt Loam
Plateau	Crossville	10/24/2011	6/7/2012	28/ft <sup>2</sup>	1.2 mill./ac	Lilly Silt Loam
Highland Rim	Springfield	10/25/2011	6/6/2012	28/ft <sup>2</sup>	1.2 mill./ac	Dickson Silt Loam
Middle Tennessee	Spring Hill	10/26/2011	6/6/2012	28/ft <sup>2</sup>	1.2 mill./ac	Maury Silt Loam
West Tennessee	Jackson	10/21/2011	5/25/2012	28/ft <sup>2</sup>	1.2 mill./ac	Freeland Silt Loam
Milan	Milan	11/1/2011	6/6/2012	32/ft <sup>2</sup>	1.4 mill./ac	Loring Silt Loam
Agricenter International	Memphis	11/10/2011	6/6/2012	28/ft <sup>2</sup>	1.2 mill./ac	Falaya Silt Loam

**Table 2. Mean yields† of 67 soft red winter wheat varieties evaluated at seven locations in Tennessee during 2012.**

Brand	Variety	Avg. Yield	Knoxville	Crossville	Springfield	Spring	Jackson	Milan	Memphis
		± Std Err. (n=7)‡	10/26/11 §	10/24/11	10/25/11	Hill 10/26/11	10/21/11	11/1/11	11/10/11
USG	3251	80 ± 1	74	62	87	72	102	95	70
Warren Seed	McKay 110	80 ± 1	73	63	85	64	99	93	82
TN Exp.	TN 1102	79 ± 1	77	67	96	72	88	90	63
USG	3120	79 ± 1	86	55	86	70	93	96	66
GA Exp.	GA-001138-8E36	78 ± 1	76	58	87	73	96	85	68
Delta Grow	7300	77 ± 1	74	62	78	61	95	89	83
Croplan Genetics	8868	77 ± 1	73	59	96	65	90	95	61
TN Exp.	TN 1201	77 ± 1	75	64	89	60	95	92	62
Terral	TV8848	76 ± 1	67	69	72	65	97	92	68
Armor	ARX 1109	75 ± 2	72	59	73	69	103	92	60
VA Exp.	VA08W-294	75 ± 1	89	69	70	64	88	84	62
USG	3555	75 ± 1	82	57	71	72	93	95	54
Pioneer	26R10	75 ± 2	67	65	69	69	102	85	66
Progeny	357	74 ± 1	68	58	72	61	97	83	80
Dyna-Gro	9053	74 ± 1	69	61	75	65	100	81	66
FFR	2239s	74 ± 1	75	60	89	70	88	82	52
Terral	TV8861	74 ± 1	76	48	78	65	84	91	73
Pioneer	XW10V	73 ± 1	80	64	60	68	89	88	63
Armor	Rampage	73 ± 1	65	63	86	63	93	93	50
Armor	ARX 1107	73 ± 2	68	58	64	64	90	87	78
AgriPro/Coker (Syngenta)	W1104	73 ± 1	68	59	91	55	104	85	48
Terral	TV8626	73 ± 1	68	56	73	57	87	90	77
Dyna-Gro	9223	72 ± 2	66	62	74	62	95	90	58
TN Exp.	TN 1202	72 ± 1	68	56	95	51	106	76	53
Pioneer	26R20	72 ± 1	63	58	76	63	98	90	58
AgriPro/Coker (Syngenta)	B05*0154	72 ± 1	64	57	67	59	98	88	71
TN Exp.	TN 1101	71 ± 2	75	53	74	63	80	78	74
Warren Seed	McKenna 200	71 ± 1	75	53	66	52	86	86	76
Croplan Genetics	554W	71 ± 2	74	53	91	53	94	80	50
Pioneer	XW10T	71 ± 1	61	57	61	64	90	93	69
Terral	TV8535	71 ± 1	55	53	72	56	96	93	69
MO	Milton	71 ± 1	64	60	68	72	95	87	48
Progeny	PGX11-14	70 ± 1	52	62	74	52	97	91	65

(continued)

**Table 2. Mean yields† of 67 soft red winter wheat varieties evaluated at seven locations in Tennessee during 2012.**

Brand	Variety	Avg. Yield	Spring						
		± Std Err. (n=7)‡	Knoxville 10/26/11 §	Crossville 10/24/11	Springfield 10/25/11	Hill 10/26/11	Jackson 10/21/11	Milan 11/1/11	Memphis 11/10/11
USG	3201	70 ± 1	65	54	59	65	92	92	64
Progeny	870	70 ± 2	61	50	68	55	87	88	82
Croplan Genetics	9004	70 ± 1	75	57	82	57	93	93	31
Armor	ARX 1133	69 ± 1	61	52	68	54	99	90	61
AgriPro/Coker (Syngenta)	SY 9978	69 ± 1	55	59	74	55	84	81	77
Progeny	PGX11-8	69 ± 1	57	53	64	66	85	83	76
Pioneer	26R15	69 ± 1	42	54	77	56	91	88	72
Dyna-Gro	9171	69 ± 1	56	55	72	52	94	84	68
Terral	TV8525	68 ± 1	73	57	65	57	90	76	62
VA	Jamestown	68 ± 1	80	45	66	67	80	78	62
Dyna-Gro	9922	68 ± 1	50	50	78	52	89	79	80
Armor	Ricochet	68 ± 1	69	47	64	52	95	79	70
GA Exp.	GA-021245-9E16	68 ± 1	66	55	74	57	83	82	57
Michigan Crop Improvement	Red Ruby	68 ± 1	56	55	70	53	104	81	56
Dyna-Gro	9012	68 ± 1	64	57	67	58	88	83	57
MO	Bess	67 ± 1	59	52	82	54	87	81	55
Progeny	185	67 ± 1	72	46	76	56	80	86	53
USG	3438	67 ± 1	53	51	69	55	94	89	55
VA Exp.	VA07W-415	67 ± 1	71	57	61	61	91	81	42
Croplan Genetics	8302	66 ± 1	60	57	63	54	84	80	66
Cache River Valley Seed	Dixie McAlister	66 ± 1	55	52	66	55	92	86	57
Cache River Valley Seed	Dixie Kelsey	66 ± 1	68	55	68	51	84	82	56
Delta Grow	7500	66 ± 1	55	49	67	49	93	90	60
Croplan Genetics	8925	66 ± 1	42	54	82	50	88	71	75
Pioneer	26R22	66 ± 2	60	52	54	59	84	85	66
Pioneer	25R32	65 ± 1	53	55	71	58	81	86	51
Progeny	117	65 ± 1	71	55	82	54	85	83	24
Progeny	125	64 ± 1	77	46	74	61	80	81	33
USG	3244	64 ± 1	64	46	86	53	98	83	18
AgriPro/Coker (Syngenta)	SY 1526	64 ± 1	56	50	68	53	95	75	50



(continued)

**Table 2. Mean yields† of 67 soft red winter wheat varieties evaluated at seven locations in Tennessee during 2012.**

Brand	Variety	Avg. Yield	Knoxville	Crossville	Springfield	Spring	Jackson	Milan	Memphis
		± Std Err. (n=7)‡	10/26/11 §	10/24/11	10/25/11	Hill 10/26/11	10/21/11	11/1/11	11/10/11
Delta Grow	7900	64 ± 1	77	55	71	53	84	91	15
USG	3562	64 ± 1	56	49	52	58	86	85	58
TFC	NS 1102	55 ± 1	33	35	73	50	98	71	27
MO	Truman	54 ± 1	47	45	81	35	93	64	10
<b>Average (bu/a)</b>		<b>70</b>	<b>66</b>	<b>56</b>	<b>74</b>	<b>59</b>	<b>92</b>	<b>85</b>	<b>59</b>
<b>L.S.D.<sub>.05</sub> (bu/a)</b>		<b>4</b>	<b>13</b>	<b>7</b>	<b>11</b>	<b>10</b>	<b>10</b>	<b>10</b>	<b>7</b>
<b>C.V. (%)</b>		<b>8.8</b>	<b>12.4</b>	<b>8.2</b>	<b>9.1</b>	<b>10.8</b>	<b>6.4</b>	<b>7.3</b>	<b>7.7</b>

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

§ Planting date

**Table 3. Mean yields† and agronomic characteristics of 67 soft red winter wheat varieties evaluated at seven locations in Tennessee during 2012.**

Brand	Variety	Avg. Yield	Test			Lodging	Protein*	Barley Yellow		
		± Std Err. (n=7)‡	Moisture (n=7)	Weight# (n=1)	Maturity (n=4)			Height (n=7)	Dwarf Virus (n=1)	Awns (n=1)
		bu/a	%	lbs/bu	DAP	in.	Score	%	Score	trait
USG	3251	80 ± 1	14.6	57.2	206	35	1.0	9.4	2.3	a
Warren Seed	McKay 110	80 ± 1	14.7	57.1	206	34	1.0	9.5	2.5	a
TN Exp.	TN 1102	79 ± 1	13.9	53.9	202	34	1.1	9.2	3.3	a
USG	3120	79 ± 1	14.1	57.9	203	34	1.1	9.4	3.3	a
GA Exp.	GA-001138-8E36	78 ± 1	14.7	58.6	208	38	1.0	9.1	1.8	a
Delta Grow	7300	77 ± 1	13.7	53.9	206	33	1.0	9.0	2.5	a
Croplan Genetics	8868	77 ± 1	14.2	56.9	204	34	1.0	9.3	1.5	l
TN Exp.	TN 1201	77 ± 1	13.9	56.7	206	35	1.0	9.8	2.0	a
Terral	TV8848	76 ± 1	14.5	57.4	206	35	1.1	9.8	2.8	a
Armor	ARX 1109	75 ± 2	14.7	54.2	205	32	1.0	9.2	2.8	a
VA Exp.	VA08W-294	75 ± 1	14.7	56.8	205	33	1.0	9.7	1.3	l
USG	3555	75 ± 1	14.3	56.2	203	31	1.0	9.9	1.5	p
Pioneer	26R10	75 ± 2	14.1	56.5	205	33	1.0	9.5	2.8	a
Progeny	357	74 ± 1	13.8	53.8	206	33	1.0	9.0	2.0	a
Dyna-Gro	9053	74 ± 1	13.6	54.5	205	33	1.0	9.1	1.8	a
FFR	2239s	74 ± 1	13.9	56.8	205	32	1.0	10.0	2.3	l
Terral	TV8861	74 ± 1	14.6	56.6	207	34	1.1	9.2	2.0	a
Pioneer	XW10V	73 ± 1	14.0	56.4	204	32	1.0	9.4	2.5	a
Armor	Rampage	73 ± 1	14.5	54.7	207	35	1.1	9.4	1.8	l
Armor	ARX 1107	73 ± 2	14.0	55.6	203	33	1.0	9.3	2.3	a
AgriPro/Coker (Syngenta)	W1104	73 ± 1	14.3	54.8	206	34	1.0	9.7	2.3	l
Terral	TV8626	73 ± 1	13.5	53.4	206	33	1.0	9.1	2.0	a
Dyna-Gro	9223	72 ± 2	14.4	56.6	206	36	1.0	9.6	2.8	l
TN Exp.	TN 1202	72 ± 1	13.3	53.0	204	35	1.0	9.4	3.5	p
Pioneer	26R20	72 ± 1	14.1	57.5	206	35	1.0	9.9	2.0	a
AgriPro/Coker (Syngenta)	B05*0154	72 ± 1	14.1	55.5	205	33	1.0	9.3	2.8	a
TN Exp.	TN 1101	71 ± 2	13.7	54.6	202	34	1.1	9.7	3.3	a
Warren Seed	McKenna 200	71 ± 1	14.1	57.4	204	33	1.0	10.1	3.0	a
Croplan Genetics	554W	71 ± 2	14.1	55.9	205	33	1.0	9.0	1.8	l
Pioneer	XW10T	71 ± 1	14.2	55.7	205	32	1.1	10.0	2.5	a
Terral	TV8535	71 ± 1	13.5	53.5	205	32	1.1	10.0	3.8	a
MO	Milton	71 ± 1	14.2	56.6	205	35	1.0	9.9	1.0	a
Progeny	PGX11-14	70 ± 1	14.3	57.0	207	35	1.0	9.9	2.8	l

(continued)

**Table 3. Mean yields† and agronomic characteristics of 67 soft red winter wheat varieties evaluated at seven locations in Tennessee during 2012.**

Brand	Variety	Avg. Yield	Test				Barley Yellow		Awns (n=1) trait	
		± Std Err. (n=7)‡	Moisture (n=7)	Weight# (n=1)	Maturity (n=4)	Height (n=7)	Lodging (n=5)	Protein* (n=1)		Dwarf Virus (n=1)
USG	3201	70 ± 1	14.1	57.4	205	33	1.0	9.9	2.3	a
Progeny	870	70 ± 2	13.6	53.9	206	32	1.1	9.9	3.3	a
Croplan Genetics	9004	70 ± 1	14.3	57.7	205	36	1.0	9.6	1.8	l
Armor	ARX 1133	69 ± 1	13.6	53.6	205	32	1.0	9.9	3.3	a
AgriPro/Coker (Syngenta)	SY 9978	69 ± 1	14.0	55.9	205	35	1.1	9.5	2.5	a
Progeny	PGX11-8	69 ± 1	14.4	56.6	205	32	1.1	9.7	2.8	a
Pioneer	26R15	69 ± 1	13.6	54.6	205	34	1.1	10.6	3.0	a
Dyna-Gro	9171	69 ± 1	13.7	53.7	205	32	1.1	9.9	3.8	a
Terral	TV8525	68 ± 1	14.5	56.5	205	33	1.0	9.5	3.0	a
VA	Jamestown	68 ± 1	14.0	58.1	204	32	1.0	10.1	2.5	a
Dyna-Gro	9922	68 ± 1	14.3	58.3	206	35	1.0	10.7	3.0	a
Armor	Ricochet	68 ± 1	14.0	54.6	205	31	1.0	9.3	2.5	a
GA Exp.	GA-021245-9E16	68 ± 1	14.4	58.4	205	35	1.0	10.2	2.3	a
Michigan Crop Improvement	Red Ruby	68 ± 1	13.6	56.1	205	34	1.1	9.9	2.3	a
Dyna-Gro	9012	68 ± 1	14.2	57.8	205	33	1.0	10.1	2.0	a
MO	Bess	67 ± 1	14.2	56.9	205	36	1.0	9.5	3.0	l
Progeny	185	67 ± 1	14.3	55.4	207	34	1.1	9.2	2.5	l
USG	3438	67 ± 1	13.6	53.9	205	32	1.1	9.8	4.3	a
VA Exp.	VA07W-415	67 ± 1	13.9	55.9	204	33	1.0	9.8	3.0	l
Croplan Genetics	8302	66 ± 1	14.1	57.8	204	35	1.0	9.8	2.3	a
Cache River Valley Seed	Dixie McAlister	66 ± 1	13.5	53.8	205	31	1.1	9.5	3.8	a
Cache River Valley Seed	Dixie Kelsey	66 ± 1	14.4	57.5	205	33	1.0	9.8	3.0	a
Delta Grow	7500	66 ± 1	13.6	53.6	205	31	1.1	10.0	2.5	a
Croplan Genetics	8925	66 ± 1	14.2	58.3	206	35	1.0	10.3	3.0	a
Pioneer	26R22	66 ± 2	14.0	57.5	205	33	1.0	9.6	2.8	a
Pioneer	25R32	65 ± 1	14.2	56.9	205	34	1.0	10.5	3.5	a
Progeny	117	65 ± 1	14.3	55.7	205	35	1.0	9.2	3.3	l
Progeny	125	64 ± 1	14.1	54.6	202	32	1.1	9.7	3.0	l
USG	3244	64 ± 1	13.8	54.9	204	36	1.0	9.6	3.5	l
AgriPro/Coker (Syngenta)	SY 1526	64 ± 1	13.7	53.6	205	35	1.0	10.3	2.5	l

(continued)

**Table 3. Mean yields† and agronomic characteristics of 67 soft red winter wheat varieties evaluated at seven locations in Tennessee during 2012.**

Brand	Variety	Avg. Yield	Test				Barley Yellow		Awns (n=1)	
		± Std Err. (n=7)‡	Moisture (n=7)	Weight# (n=1)	Maturity (n=4)	Height (n=7)	Lodging (n=5)	Protein* (n=1)		Dwarf Virus (n=1)
		bu/a	%	lbs/bu	DAP	in.	Score	%	Score	trait
Delta Grow	7900	64 ± 1	14.0	57.5	205	35	1.1	9.4	1.8	l
USG	3562	64 ± 1	13.9	56.7	205	32	1.0	10.1	2.8	a
TFC	NS 1102	55 ± 1	14.4	55.5	209	34	1.0	10.0	3.5	l
MO	Truman	54 ± 1	16.3	57.2	211	35	1.0	9.5	2.3	l
<b>Average</b>		<b>70</b>	<b>14.1</b>	<b>56.0</b>	<b>205</b>	<b>34</b>	<b>1.0</b>	<b>9.7</b>	<b>2.6</b>	

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

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

Maturity (DAP) = Days after planting

Lodging = 1 to 5 scale; where 1 = 95% of plants erect; 2.5 = ~50% of plants leaning at angle ≥ 45°; 5 = 95+% of plants leaning at an angle ≥ 45°.

\* Protein on dry weight basis.

Barley Yellow Dwarf Virus = 1 to 5 scale; where 1 = no disease; 2.5 = ~50% plant tissue diseased; 5 = 95+% of plant tissue diseased, taken at the East TN REC (Knoxville).

Awns - a = awned, p = partially awned, l = awnless

**Table 4. Yields† of 20 soft red winter wheat varieties evaluated in seven County Standard Tests in Tennessee during 2012.**

MS	Brand/Variety	Avg.	Moisture	Test	Dyer	Franklin	Gibson	Henry	Lake	Moore	Weakley
		Yield		Weight‡							
		bu/a	%	lbs/bu	11/1§	11/14	10/21	10/21	10/25	11/7	10/14
A	*Dyna-Gro 9053	90.1	12.0	57.5	114.0	91.3	88.0	78.6	70.9	101.9	86.4
AB	Terral TV8848	88.1	12.8	58.3	117.9	90.6	96.1	74.0	63.0	85.7	89.5
ABC	*USG 3251	87.3	13.1	59.2	104.2	92.6	72.9	74.8	69.4	109.3	88.0
ABCD	Warren Seed McKay 110	86.3	13.8	58.3	101.0	94.5	70.1	68.8	73.0	110.1	86.8
ABCDE	Terral TV8626	85.1	12.2	56.7	90.9	89.1	84.1	73.7	65.2	105.5	87.6
ABCDE	Croplan 554W	84.2	12.1	58.0	98.2	76.0	68.3	73.3	74.5	114.6	84.5
ABCDE	Dyna-Gro 9171	84.1	11.9	58.5	107.2	65.9	88.0	66.5	67.2	104.2	90.1
ABCDE	*Terral TV8861	84.0	13.3	59.3	101.3	80.2	76.0	69.8	73.8	98.0	88.9
ABCDE	***Progeny 117	83.8	12.3	58.8	98.7	77.6	85.5	73.6	62.9	98.7	89.8
BCDE	Progeny 185	81.2	12.2	58.2	90.0	72.8	88.4	63.0	71.1	93.0	89.8
BCDE	Dyna-Gro 9012	81.0	12.8	59.8	92.4	76.9	87.5	67.7	70.1	85.8	86.4
BCDE	USG 3438	80.1	12.0	58.3	94.9	70.3	87.7	71.4	67.2	80.0	89.5
BCDE	AgriPro/Coker Exp 0154	80.1	13.2	57.5	110.3	75.9	67.7	73.7	73.5	68.1	91.4
BCDE	AgriPro/Coker Oakes	79.8	13.3	59.2	91.0	77.4	67.4	69.8	78.7	87.6	86.9
CDE	USG 3201	78.7	13.0	60.2	107.1	74.7	81.2	69.7	58.7	74.7	84.9
CDE	Armor Ricochet	78.4	12.6	58.0	99.0	84.7	62.8	65.0	67.7	86.4	83.5
DE	Croplan 9004	77.8	12.4	60.0	91.2	67.9	64.8	59.9	77.0	100.6	83.4
DE	Progeny 125	77.5	11.8	59.2	98.4	54.9	77.5	68.3	79.2	72.2	92.1
E	Croplan 8302	77.0	12.6	59.0	99.7	68.1	69.3	66.6	70.0	78.5	87.1
E	Warren Seed McKenna 200	76.6	13.1	60.2	102.8	74.2	51.8	65.9	68.4	84.5	88.8
<b>Average</b>		<b>82.1</b>	<b>12.6</b>	<b>58.7</b>	<b>100.5</b>	<b>77.8</b>	<b>76.8</b>	<b>69.7</b>	<b>70.1</b>	<b>92.0</b>	<b>87.8</b>

† 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).

‡ Official test weight of No. 2 wheat = 58 lbs/bu. - average of 6 locations.

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 2011 or 2011, 2010 and 2009, respectively.

Data provided by Robert C. Williams, Ext. Area Specialist, Grain Crops, and extension agents in counties shown above.

§ Planting date

**Table 5. Yields† , moistures, and test weights of 19 soft red winter wheat varieties that were in common to both the County Standard (CST) Tests (n=7) and the Research and Education Center (REC) Tests (n=7) in Tennessee during 2012.**

Brand	Variety	Averages of CST & REC Tests			County Standard Tests			R E C Tests		
		Avg. Yield	Moisture	Test Weight‡	Avg. Yield	Moisture	Test Weight	Avg. Yield	Moisture	Test Weight
					bu/a	%	lbs/bu	bu/a	%	lbs/bu
USG	3251	84	14	58	87	13.1	59.2	80	14.6	57.2
Warren Seed	McKay 110	83	14	58	86	13.8	58.3	80	14.7	57.1
Dyna-Gro	9053	82	13	56	90	12.0	57.5	74	13.6	54.5
Terral	TV8848	82	14	58	88	12.8	58.3	76	14.5	57.4
Terral	TV8626	79	13	55	85	12.2	56.7	73	13.5	53.4
Terral	TV8861	79	14	58	84	13.3	59.3	74	14.6	56.6
Croplan Genetics	554W	78	13	57	84	12.1	58.0	71	14.1	55.9
Dyna-Gro	9171	77	13	56	84	11.9	58.5	69	13.7	53.7
AgriPro/Coker (Syngenta)	B05*0154	76	14	57	80	13.2	57.5	72	14.1	55.5
Dyna-Gro	9012	74	13	59	81	12.8	59.8	68	14.2	57.8
Progeny	117	74	13	57	84	12.3	58.8	65	14.3	55.7
USG	3201	74	14	59	79	13.0	60.2	70	14.1	57.4
Progeny	185	74	13	57	81	12.2	58.2	67	14.3	55.4
Croplan Genetics	9004	74	13	59	78	12.4	60.0	70	14.3	57.7
Warren Seed	McKenna 200	74	14	59	77	13.1	60.2	71	14.1	57.4
USG	3438	74	13	56	80	12.0	58.3	67	13.6	53.9
Armor	Ricochet	73	13	56	78	12.6	58.0	68	14.0	54.6
Croplan Genetics	8302	72	13	58	77	12.6	59.0	66	14.1	57.8
Progeny	125	71	13	57	78	11.8	59.2	64	14.1	54.6
<b>Average</b>		<b>76</b>	<b>13.4</b>	<b>57.3</b>	<b>82</b>	<b>12.6</b>	<b>58.7</b>	<b>71</b>	<b>14.1</b>	<b>56.0</b>

† All yields are adjusted to 13.5% moisture.

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

**Table 6. Mean yields† of 42 soft red winter wheat varieties evaluated at seven locations (n=14) in Tennessee for two years, 2011 and 2012.**

Brand	Variety	Avg. Yield ± Std Err. (n=14)‡	Spring						
			Knoxville	Crossville	Springfield	Hill	Jackson	Milan	Memphis
USG	3251	79 ± 1	82	61	76	70	97	84	82
Pioneer	26R10	78 ± 1	87	68	71	70	98	80	70
Terral	TV8848	77 ± 1	78	68	69	67	100	84	74
TN Exp.	TN 1102	77 ± 1	80	65	85	66	92	82	68
Progeny	357	76 ± 1	77	65	74	63	97	79	79
Terral	TV8861	76 ± 1	84	59	78	65	90	82	75
USG	3120	74 ± 1	78	58	77	69	90	83	66
Terral	TV8626	74 ± 1	76	60	72	63	92	79	78
Dyna-Gro	9053	74 ± 1	77	60	73	63	97	76	73
Pioneer	26R15	73 ± 1	66	63	75	61	97	78	73
Progeny	870	73 ± 1	77	57	68	59	94	81	77
USG	3555	73 ± 1	86	62	68	64	94	77	58
Dyna-Gro	9171	73 ± 1	73	58	72	56	102	79	68
Pioneer	26R20	72 ± 1	70	61	75	67	95	78	60
Cache River Valley Seed	Dixie McAlister	72 ± 1	75	58	70	55	97	82	66
AgriPro/Coker (Syngenta)	W1104	72 ± 1	73	60	79	62	97	74	58
MO	Milton	72 ± 1	76	62	65	72	95	77	55
AgriPro/Coker (Syngenta)	SY 9978	71 ± 1	55	64	74	60	94	77	75
Delta Grow	7500	71 ± 1	71	57	67	56	102	82	65
Cache River Valley Seed	Dixie Kelsey	71 ± 1	77	61	65	61	93	78	63
Warren Seed	McKenna 200	71 ± 1	80	57	65	58	88	78	72
USG	3201	71 ± 1	71	61	63	64	91	80	67
Terral	TV8535	71 ± 1	72	58	66	63	92	80	66
Dyna-Gro	9922	71 ± 1	66	52	70	62	92	75	80
Croplan Genetics	8302	71 ± 1	75	59	64	57	93	77	69
Armor	Ricochet	70 ± 1	76	52	67	60	97	75	64
TN Exp.	TN 1101	70 ± 1	72	57	71	65	87	76	63
FFR	2239s	70 ± 1	82	57	75	65	80	71	59
Dyna-Gro	9012	70 ± 1	75	59	63	60	90	77	65
Pioneer	26R22	70 ± 1	72	57	64	62	88	79	64
USG	3438	69 ± 1	68	56	68	59	92	80	62
VA	Jamestown	69 ± 1	84	51	62	63	84	72	67
Terral	TV8525	69 ± 1	78	56	65	63	86	72	61
USG	3244	68 ± 1	71	55	80	62	97	80	33
Pioneer	25R32	67 ± 1	65	54	69	61	85	76	63

(continued)

**Table 6. Mean yields† of 42 soft red winter wheat varieties evaluated at seven locations (n=14) in Tennessee for two years, 2011 and 2012.**

Brand	Variety	Avg. Yield ± Std Err. (n=14)‡	Spring						
			Knoxville	Crossville	Springfield	Hill	Jackson	Milan	Memphis
			-----bu/a-----						
Croplan Genetics	8925	67 ± 1	59	53	73	57	84	68	76
MO	Bess	67 ± 1	65	53	75	59	88	72	56
Progeny	117	67 ± 1	75	58	74	59	88	77	35
Progeny	185	66 ± 1	67	54	68	60	82	77	58
Progeny	125	66 ± 1	81	53	68	67	77	70	46
Delta Grow	7900	63 ± 1	69	52	63	59	83	82	29
MO	Truman	60 ± 1	63	48	67	54	93	60	36
<b>Average (bu/a)</b>		<b>71</b>	<b>74</b>	<b>58</b>	<b>70</b>	<b>62</b>	<b>92</b>	<b>77</b>	<b>64</b>
<b>L.S.D.<sub>.05</sub> (bu/a)</b>		<b>4</b>	<b>11</b>	<b>8</b>	<b>9</b>	<b>10</b>	<b>11</b>	<b>8</b>	<b>10</b>
<b>C.V. (%)</b>		<b>9.5</b>	<b>10.6</b>	<b>9.4</b>	<b>9.0</b>	<b>11.2</b>	<b>8.4</b>	<b>7.2</b>	<b>10.8</b>

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments



**Table 7. Mean yields† and agronomic characteristics of 42 soft red winter wheat varieties evaluated at seven locations (n=14) in Tennessee for two years, 2011 and 2012.**

Brand	Variety	Avg. Yield	Test									Barley Yellow
		± Std Err. (n=14)‡	Moisture (n=14)	Weight§ (n=2)	Emergence (n=1)	Vigor (n=1)	Heading (n=1)	Maturity (n=9)	Height (n=14)	Lodging (n=11)	Protein (n=2)	Dwarf Virus (n=1)
		bu/a	%	lbs/bu	Score	Score	DAP	DAP	in.	Score	%	Score
USG	3251	79 ± 1	14.7	56.3	1.7	3.0	191	212	34	1.0	10.1	2.3
Pioneer	26R10	78 ± 1	14.5	55.5	1.7	2.5	188	211	33	1.0	10.4	2.8
Terral	TV8848	77 ± 1	14.8	56.3	1.3	2.7	189	213	34	1.1	10.7	2.8
TN Exp.	TN 1102	77 ± 1	14.4	54.4	1.2	2.0	188	210	34	1.1	10.3	3.3
Progeny	357	76 ± 1	14.4	53.2	1.5	2.7	190	212	32	1.0	9.8	2.0
Terral	TV8861	76 ± 1	15.0	56.0	1.2	2.5	187	213	33	1.1	10.1	2.0
USG	3120	74 ± 1	14.6	57.1	1.2	1.8	188	210	35	1.3	10.6	3.3
Terral	TV8626	74 ± 1	14.0	52.8	1.7	2.3	191	212	33	1.1	10.0	2.0
Dyna-Gro	9053	74 ± 1	14.0	52.8	1.3	2.5	190	211	33	1.0	10.2	1.8
Pioneer	26R15	73 ± 1	14.1	54.4	1.5	2.3	190	211	34	1.0	11.1	3.0
Progeny	870	73 ± 1	13.9	53.5	2.0	2.7	186	211	32	1.0	10.4	3.3
USG	3555	73 ± 1	14.7	55.3	1.5	2.0	189	210	31	1.0	10.7	1.5
Dyna-Gro	9171	73 ± 1	14.1	53.5	1.3	2.5	186	211	32	1.0	10.3	3.8
Pioneer	26R20	72 ± 1	14.6	56.3	1.3	2.5	190	211	34	1.1	10.7	2.0
Cache River Valley Seed	Dixie McAlister	72 ± 1	13.9	53.3	1.5	2.5	186	210	32	1.0	10.1	3.8
AgriPro/Coker	W1104	72 ± 1	14.7	54.1	1.5	2.7	192	212	33	1.2	10.9	2.3
MO	Milton	72 ± 1	14.5	56.2	1.7	2.3	188	211	35	1.0	10.6	1.0
AgriPro/Coker	SY 9978	71 ± 1	14.4	54.8	1.2	2.2	190	211	36	1.3	10.9	2.5
Delta Grow	7500	71 ± 1	13.8	53.4	1.5	2.5	186	211	32	1.0	10.3	2.5
Cache River Valley Seed	Dixie Kelsey	71 ± 1	14.8	56.5	1.2	2.3	189	211	33	1.1	10.7	3.0
Warren Seed	McKenna 200	71 ± 1	14.5	56.4	1.3	2.5	190	211	33	1.0	11.0	3.0
USG	3201	71 ± 1	14.5	56.5	1.5	2.7	190	211	32	1.1	10.8	2.3
Terral	TV8535	71 ± 1	14.0	53.3	1.3	2.5	186	211	32	1.0	10.5	3.8
Dyna-Gro	9922	71 ± 1	14.6	57.1	1.0	2.5	189	212	35	1.0	10.8	3.0
Croplan Genetics	8302	71 ± 1	14.6	56.2	1.5	2.0	188	211	34	1.0	10.8	2.3
Armor	Ricochet	70 ± 1	14.5	53.9	1.3	2.8	190	211	32	1.0	10.1	2.5
TN Exp.	TN 1101	70 ± 1	14.0	53.4	1.3	1.7	189	209	34	1.3	10.7	3.3
FFR	2239s	70 ± 1	14.3	56.3	1.2	2.5	190	211	32	1.0	11.1	2.3
Dyna-Gro	9012	70 ± 1	14.6	57.0	1.7	2.5	189	211	33	1.0	10.8	2.0
Pioneer	26R22	70 ± 1	14.3	56.1	1.3	2.8	187	211	34	1.0	10.2	2.8
USG	3438	69 ± 1	14.0	53.3	1.3	2.7	186	211	32	1.0	10.6	4.3
VA	Jamestown	69 ± 1	14.4	57.7	1.2	1.7	187	210	32	1.1	11.0	2.5
Terral	TV8525	69 ± 1	14.6	55.6	1.0	2.3	188	211	33	1.0	10.8	3.0
USG	3244	68 ± 1	14.3	54.2	1.0	2.2	189	210	36	1.2	10.5	3.5
Pioneer	25R32	67 ± 1	14.6	56.1	1.3	3.0	191	211	34	1.0	11.0	3.5

(continued)

**Table 7. Mean yields† and agronomic characteristics of 42 soft red winter wheat varieties evaluated at seven locations (n=14) in Tennessee for two years, 2011 and 2012.**

Brand	Variety	Avg. Yield	Test					Barley Yellow				
		± Std Err. (n=14)‡	Moisture (n=14)	Weight§ (n=2)	Emergence (n=1)	Vigor (n=1)	Heading (n=1)	Maturity (n=9)	Height (n=14)	Lodging (n=11)	Protein (n=2)	Dwarf Virus (n=1)
		bu/a	%	lbs/bu	Score	Score	DAP	DAP	in.	Score	%	Score
Croplan Genetics	8925	67 ± 1	14.5	57.2	1.8	3.0	190	213	34	1.0	10.3	3.0
MO	Bess	67 ± 1	14.5	56.3	1.2	2.5	188	211	35	1.1	10.7	3.0
Progeny	117	67 ± 1	14.6	55.8	1.2	2.2	188	211	35	1.1	10.1	3.3
Progeny	185	66 ± 1	14.5	55.1	1.7	2.7	188	213	34	1.1	10.2	2.5
Progeny	125	66 ± 1	14.0	54.9	1.5	2.0	188	209	32	1.0	10.4	3.0
Delta Grow	7900	63 ± 1	14.5	56.5	1.3	2.5	187	211	34	1.2	10.5	1.8
MO	Truman	60 ± 1	15.7	56.5	1.0	2.5	196	217	36	1.0	10.4	2.3
<b>Average</b>		<b>71</b>	<b>14.4</b>	<b>55.3</b>	<b>1.4</b>	<b>2.4</b>	<b>189</b>	<b>211</b>	<b>33</b>	<b>1.1</b>	<b>10.5</b>	<b>2.7</b>

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

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

Emergence = 1 to 5 scale; where 1 = 95%+ plants emerged; 2.5 = ~50% plants emerged; 5 = <5% of plants emerged - taken at Knoxville on 3/8/11.

Vigor = 1 to 5 visual scale; where 1 = very vigorous growth; 2.5 = normal or average growth; 5 = low growth rate - taken at Knoxville on 3/8/11.

Heading, Maturity (DAP) = Days after planting

Lodging = 1 to 5 scale; where 1 = 95% of plants erect; 2.5 = ~50% of plants leaning at angle ≥ 45°; 5 = 95+% of plants leaning at an angle ≥ 45°.

\* Protein on a dry weight basis.

Barley Yellow Dwarf Virus = 1 to 5 scale; where 1 = no disease; 2.5 = ~50% plant tissue diseased; 5 = 95+% of plant tissue diseased, taken at the East TN REC (Knoxville) in 2012.

**Table 8. Mean yields† of 25 soft red winter wheat varieties evaluated at six locations (n=18) in Tennessee for three years, 2010 - 2012.**

Brand	Variety	Avg. Yield ± Std Err. (n=18)‡	Spring					
			Knoxville	Crossville	Springfield	Hill	Jackson	Milan
-----bu/a-----								
USG	3251	76 ± 1	90	61	75	63	88	82
Terral	TV8861	73 ± 1	88	57	77	57	82	81
MO	Milton	73 ± 1	88	61	65	63	84	74
USG	3120	73 ± 1	84	58	75	61	80	79
USG	3244	72 ± 1	80	57	77	57	86	77
AgriPro/Coker	W1104	72 ± 1	80	60	76	55	86	73
Pioneer	26R20	72 ± 1	79	59	70	62	83	77
USG	3555	71 ± 1	86	63	67	56	83	74
Dyna-Gro	9012	70 ± 1	81	65	66	56	81	75
Pioneer	26R22	70 ± 1	83	57	64	61	80	77
USG	3201	70 ± 1	82	59	65	58	80	77
Armor	Ricochet	70 ± 1	85	55	66	56	86	73
Progeny	117	70 ± 1	82	58	69	52	81	76
Croplan Genetics	8302	69 ± 1	82	59	62	55	84	74
USG	3438	69 ± 1	77	53	67	55	85	78
Pioneer	26R15	69 ± 1	74	56	69	54	85	74
AgriPro/Coker	SY 9978	68 ± 1	66	61	71	58	81	72
Dyna-Gro	9922	68 ± 1	78	52	70	55	80	74
Pioneer	25R32	67 ± 1	74	53	66	57	77	75
Progeny	125	67 ± 1	87	47	65	57	75	70
Progeny	185	66 ± 1	76	52	65	53	76	74
Croplan Genetics	8925	66 ± 1	73	53	71	51	76	68
MO	Bess	65 ± 1	76	48	69	52	77	69
VA	Jamestown	65 ± 1	86	49	60	54	72	69
MO	Truman	62 ± 1	70	48	64	47	83	59
<b>Average (bu/a)</b>		<b>69</b>	<b>80</b>	<b>56</b>	<b>68</b>	<b>56</b>	<b>81</b>	<b>74</b>
<b>L.S.D.<sub>.05</sub> (bu/a)</b>		<b>3</b>	<b>10</b>	<b>8</b>	<b>8</b>	<b>8</b>	<b>11</b>	<b>7</b>
<b>C.V. (%)</b>		<b>9.2</b>	<b>9.4</b>	<b>10.1</b>	<b>8.7</b>	<b>11.2</b>	<b>9.1</b>	<b>6.9</b>

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

**Table 9. Mean yields† and agronomic characteristics of 25 soft red winter wheat varieties evaluated at six locations (n=18) for three years, 2010 - 2012.**

Brand	Variety	Avg. Yield ± Std Err. (n=18)‡	Moisture (n=18)	Test Weight§ (n=3)	Emergence (n=1)	Vigor (n=1)	Heading (n=2)	Maturity (n=13)	Height (n=18)	Lodging (n=13)	Protein* (n=3)	Septoria		BYDV (n=1)
												Leaf Blight (n=2)	Head Scab (n=1)	
		bu/a	%	lbs/bu	Score	Score	DAP	DAP	in.	Score	%	Score	Score	Score
USG	3251	76 ± 1	14.3	56.1	1.7	3.0	183	213	34	1.0	10.4	2.2	2.0	2.3
Terral	TV8861	73 ± 1	14.6	56.3	1.2	2.5	181	214	32	1.1	10.3	2.3	2.3	2.0
MO	Milton	73 ± 1	14.2	56.4	1.7	2.3	182	212	35	1.1	11.1	2.8	2.0	1.0
USG	3120	73 ± 1	14.2	57.3	1.2	1.8	181	211	35	1.3	10.7	3.2	2.7	3.3
USG	3244	72 ± 1	13.9	54.7	1.0	2.2	183	211	35	1.2	10.6	3.0	2.3	3.5
AgriPro/Coker	W1104	72 ± 1	14.2	54.1	1.5	2.7	187	213	33	1.1	10.8	2.7	1.7	2.3
Pioneer	26R20	72 ± 1	14.0	56.2	1.3	2.5	185	212	34	1.1	10.6	2.7	2.0	2.0
USG	3555	71 ± 1	14.3	55.4	1.5	2.0	182	212	30	1.1	11.2	2.3	1.7	1.5
Dyna-Gro	9012	70 ± 1	14.3	57.0	1.7	2.5	184	212	32	1.1	11.0	3.0	2.0	2.0
Pioneer	26R22	70 ± 1	13.7	55.6	1.3	2.8	181	212	34	1.0	10.1	2.7	1.7	2.8
USG	3201	70 ± 1	14.2	56.9	1.5	2.7	183	212	32	1.1	11.0	2.7	1.0	2.3
Armor	Ricochet	70 ± 1	13.9	54.1	1.3	2.8	186	211	31	1.0	10.3	2.7	2.0	2.5
Progeny	117	70 ± 1	14.3	56.3	1.2	2.2	182	212	35	1.1	10.2	3.2	1.7	3.3
Croplan Genetics	8302	69 ± 1	14.2	56.5	1.5	2.0	183	211	34	1.1	10.9	3.0	2.7	2.3
USG	3438	69 ± 1	13.5	53.4	1.3	2.7	181	212	31	1.1	10.7	2.7	3.0	4.3
Pioneer	26R15	69 ± 1	13.7	54.4	1.5	2.3	184	212	33	1.1	11.4	3.0	3.0	3.0
AgriPro/Coker	SY 9978	68 ± 1	14.0	54.9	1.2	2.2	183	212	36	1.3	10.7	3.2	2.7	2.5
Dyna-Gro	9922	68 ± 1	14.0	57.0	1.0	2.5	185	213	34	1.1	10.6	2.7	2.3	3.0
Pioneer	25R32	67 ± 1	14.0	55.8	1.3	3.0	186	212	33	1.0	11.0	2.2	1.3	3.5
Progeny	125	67 ± 1	13.5	54.9	1.5	2.0	183	210	31	1.1	10.5	4.2	2.7	3.0
Progeny	185	66 ± 1	14.0	55.5	1.7	2.7	182	214	33	1.1	10.4	3.0	2.0	2.5
Croplan Genetics	8925	66 ± 1	14.0	57.3	1.8	3.0	185	214	34	1.0	10.4	2.3	2.0	3.0
MO	Bess	65 ± 1	14.3	56.5	1.2	2.5	182	211	35	1.1	10.7	2.5	1.7	3.0
VA	Jamestown	65 ± 1	13.9	57.6	1.2	1.7	180	211	31	1.1	11.2	3.5	3.0	2.5
MO	Truman	62 ± 1	15.3	56.0	1.0	2.5	191	217	37	1.0	10.4	1.9	1.0	2.3
	<b>Average</b>	<b>69</b>	<b>14.1</b>	<b>55.8</b>	<b>1.4</b>	<b>2.4</b>	<b>183</b>	<b>212</b>	<b>33</b>	<b>1.1</b>	<b>10.7</b>	<b>2.8</b>	<b>2.1</b>	<b>2.6</b>

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

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

\* Protein on a dry weight basis.

Emergence = 1 to 5 scale; where 1 = 95%+ plants emerged; 2.5 = ~50% plants emerged; 5 = <5% of plants emerged - taken at Knoxville on 3/8/11.

Vigor = 1 to 5 visual scale; where 1 = very vigorous growth; 2.5 = normal or average growth; 5 = low growth rate - taken at Knoxville on 3/8/11.

Heading, Maturity (DAP) = Days after planting

Lodging = 1 to 5 scale; where 1 = 95% of plants erect; 2.5 = ~50% of plants leaning at angle ≥ 45°; 5 = 95+% of plants leaning at an angle ≥ 45°.

Septoria Leaf Blight, Head Scab = 1 to 5 scale; where 1 = no disease; 2.5 = ~50% plant tissue diseased; 5 = 95+% of plant tissue diseased.

Septoria Leaf Blight and Head Scab disease ratings taken at the Highland Rim (Springfield, TN) and West Tennessee (Jackson, TN) Research & Education Centers in 2010.

BYDV = Barley Yellow Dwarf Virus = 1 to 5 scale; where 1 = no disease; 2.5 = ~50% plant tissue diseased; 5 = 95+% of plant tissue diseased, taken at East TN REC (Knoxville) in 2012.

**Table 10. Contact information for wheat seed companies evaluated in yield tests in Tennessee during 2011-12.**

<b>Company</b>	<b>Contact</b>	<b>Phone</b>	<b>Email</b>	<b>Web site</b>	<b>Address</b>
AgriPro/Coker (Syngenta)	David Hill	870-930-0010	<a href="mailto:david-1.hill@syngenta.com">david-1.hill@syngenta.com</a>	<a href="http://www.agriprowheat.com">www.agriprowheat.com</a>	778 CR 680, Bay, AR 72411
Armor Seed	Lane Dill	901-233-0274	<a href="mailto:lanedill@armorseed.com">lanedill@armorseed.com</a>	<a href="http://www.armorseed.com">www.armorseed.com</a>	P.O. Box 178, Fisher, AR 72429
Dixie (Cache River Valley Seed)	Josh Rupard	870-897-9112	<a href="mailto:joshr@crvseed.com">joshr@crvseed.com</a>	<a href="http://www.crvseed.com">www.crvseed.com</a>	P.O. Box 10, Cash, AR 72421
Croplan Genetics  (available at TN Farmers Co-Op and Agreliance locations)	Jesse Witt Keith Saum Ashley Plymale  Jim Payne Matt Sowder	256-221-5932 731-610-7006 270-719-1570  901-652-0903 901-355-7267	<a href="mailto:JBWitt@landolakes.com">JBWitt@landolakes.com</a> <a href="mailto:kdsaum@landolakes.com">kdsaum@landolakes.com</a>  <a href="mailto:jpayne@ourcoop.com">jpayne@ourcoop.com</a>	<a href="http://www.croplangenetics.com">www.croplangenetics.com</a>  <a href="http://www.ourcoop.com">www.ourcoop.com</a>	DSM Middle & East TN DSM West TN Agronomist  West TN East & Middle TN
Delta Grow Seed	Lee Hughes	800-530-7933	<a href="mailto:leehughes19@hotmail.com">leehughes19@hotmail.com</a>	<a href="http://www.deltagrow.com">www.deltagrow.com</a>	P O Box 219, England, AR 72046
Dyna-Gro (Crop Production Services)	Todd Theobald	731-885-1212 765-623-1382	<a href="mailto:todd.theobald@cpsagu.com">todd.theobald@cpsagu.com</a>	<a href="http://www.dynagroseed.com">www.dynagroseed.com</a>	710 South First Street, Union City, TN 38621
University of Georgia	Jerry Johnson	770-228-7345	<a href="mailto:jjohnson@griffin.uga.edu">jjohnson@griffin.uga.edu</a>		UGA, Griffin Campus 1109 Experiment St. Griffin, GA 30223
Michigan Crop Improvement Association	C.J. Palmer	517-332-3546	<a href="mailto:palmerj@michcrop.com">palmerj@michcrop.com</a>		Michigan Crop Improvement Association P.O. Box 21008 Lansing, MI 48909
University of Missouri	Mary Ann Quade Anne McKendry	573-884-7333 573-882-7707	<a href="mailto:quadem@missouri.edu">quadem@missouri.edu</a> <a href="mailto:mckendrya@missouri.edu">mckendrya@missouri.edu</a>		University of MO Foundation Seed 3600 New Haven Rd Columbia, MO 65201
Pioneer Hi-Bred Int.	Dan Poston	800-331-2475	<a href="mailto:dan.poston@pioneer.com">dan.poston@pioneer.com</a>	<a href="http://www.pioneer.com">www.pioneer.com</a>	700 Boulevard South, Suite 302, Huntsville, AL 35802
Progeny	Corey Dildine	870-208-6032	<a href="mailto:corey@progenyag.com">corey@progenyag.com</a>	<a href="http://www.progenyag.com">www.progenyag.com</a>	1529 Hwy 193, Wynne, AR 72396
Terral Seed Inc	Larry Mullen	318-231-8811	<a href="mailto:lmullen@terralseed.com">lmullen@terralseed.com</a>	<a href="http://www.terralseed.com">www.terralseed.com</a>	P O Box 826, Lake Providence, LA 71254
Tennessee Farmers Co-Op	Matt Henderson	731-836-7739	<a href="mailto:mhenderson@ourcoop.com">mhenderson@ourcoop.com</a>		
University of Tennessee	Dennis West	865-974-8826	<a href="mailto:dwest3@utk.edu">dwest3@utk.edu</a>		3421 Joe Johnson Dr, Knoxville, TN 37996-4561

(continued)

**Table 10. Contact information for wheat seed companies evaluated in yield tests in Tennessee during 2011-12.**

<b>Company</b>	<b>Contact</b>	<b>Phone</b>	<b>Email</b>	<b>Web site</b>	<b>Address</b>
Unisouth Genetics (USG)	Stacy Burwick	800-505-3133	<a href="mailto:sburwick@bellsouth.net">sburwick@bellsouth.net</a>	<a href="http://www.usgseed.com">www.usgseed.com</a>	2640-C Nolensville Rd., Nashville, TN 37211
	David Fandrich	931-967-3377	<a href="mailto:fandrichsupply@aol.com">fandrichsupply@aol.com</a>		Fandrich Supply Co, Belvidere, TN
	Mark Huffstetler	731-235-2167	<a href="mailto:huffy1@crunet.com">huffy1@crunet.com</a>		Huffstetler & Sons Seed Inc, Greenfield, TN
	Trey Hurt	731-836-7574	<a href="mailto:hurtco@bellsouth.net">hurtco@bellsouth.net</a>		Hurt Seed Co. Inc, Halls, TN
	Wes Miller	731-536-6251	<a href="mailto:wes@obiongrain.com">wes@obiongrain.com</a>		Obion Grain Co. Inc, Obion, TN
	Billy Sellers	731-538-2990			Sellers Seed, Obion, TN
Virginia Crop Improvement	Bruce Beahm	804-746-4884	<a href="mailto:bbeahm@rivnet.net">bbeahm@rivnet.net</a>	<a href="http://www.virginiacrop.org">www.virginiacrop.org</a>	Virginia Crop Improvement Assoc. 9225 Atlee Branch Lane Mechanicsville, VA 23116
Warren Seed	Lanny Warren	731-234-2921	<a href="mailto:lanny.warren@charter.net">lanny.warren@charter.net</a>		P.O. Box 10, Woodland Mills, TN 38721