

# WHEAT VARIETY PERFORMANCE TESTS IN TENNESSEE 2019

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## **General Information**

**AgResearch and Education Center Tests:** The 2018-19 variety performance tests were conducted on 81 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) AgResearch and Education Centers (REC), and at the Agricenter in Memphis. The test at the Agricenter in Memphis was not harvested due to damage from deer eating heads during the dough stage of development.

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 23 soft red winter wheat varieties across three counties in West Tennessee (Fayette, Madison, 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. No statistical analysis was completed due to small number of test sites that produced data. 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 2018 at all locations. 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 67 bu/a in 2019. Tennessee producers planted approximately 300,000 acres of wheat in the fall of 2018. Approximately 225,000 acres are estimated to be harvested for grain. According to TASS, the total wheat production in Tennessee for 2019 is projected to be 15.1 million bushels, a decrease of 19 percent from 2018 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 percent 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 percent 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 ( $63 - 55 = 8 \text{ bu/a} = \text{LSD of } 8$ ) and Variety A ( $63 - 50 = 13 \text{ bu/a} > \text{LSD of } 8$ ).

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 percent indicates that the size of the error variation is about 10 percent of the size of the test mean. Similarly, a C.V. of 30 percent 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 percent.

## -----Wheat-----

### **Results Summary**

**Yield and Agronomic Traits:** During 2019, 81 wheat varieties were evaluated in five AgResearch and Education Center (REC) tests, and 23 varieties were evaluated in 3 county standard tests (CST). Sixteen varieties in the CST were also present in the REC tests (Table 5). Eleven companies and five universities entered varieties into the tests this year. The average yield of the 81 varieties in the 2019 REC tests was 80 bu/a (range from 62 to 90 bu/a, Table 2). The varieties ranged in heading date from 112 to 118 days after January 1 (Julian date) with most of the varieties clustering around 116 days (Table 3). The average yield of the 23 varieties in the county tests was 74 bu/a, with individual varieties ranging from 83 to 63 bu/a (Table 4). The test weight values ranged from 53.5 to 59.1 lbs/bu in the REC tests (Table 3) and 53.7 to 58.9 lbs/bu in the CST (Table 4).

**Table 1. Location information from research and education centers where the wheat variety tests were conducted in 2019.**

| AgResearch and Education Center |               |              |              |                    |               |                      |                |
|---------------------------------|---------------|--------------|--------------|--------------------|---------------|----------------------|----------------|
| Location                        | Planting Date | Harvest Date | Seeding Rate | Soil Type          | Previous crop |                      |                |
| East Tennessee                  | Knoxville     | 10/24/2018   | 6/15/2019    | 35/ft <sup>2</sup> | 1.5 mill./ac  | Huntington Silt Loam | Forage Sorghum |
| Plateau                         | Crossville    | 10/24/2018   | 6/27/2019    | 35/ft <sup>2</sup> | 1.5 mill./ac  | Hendon Silt loam     | Sudangrass     |
| Highland Rim                    | Springfield   | 10/24/2018   | 6/13/2019    | 35/ft <sup>2</sup> | 1.5 mill./ac  | Dickson Silt Loam    | Soybean        |
| West Tennessee                  | Jackson       | 10/19/2018   | 6/19/2019    | 35/ft <sup>2</sup> | 1.5 mill./ac  | Memphis Silt Loam    | Corn           |
| Milan                           | Milan         | 10/24/2018   | 6/12/2019    | 35/ft <sup>2</sup> | 1.5 mill./ac  | Grenada Silt Loam    | Cotton         |

**Table 2. Mean yields† of 81 soft red winter wheat varieties evaluated at five locations in Tennessee during 2019**

| Brand               | Variety         | Avg. Yield | Knoxville | Crossville | Springfield | Milan | Jackson* |
|---------------------|-----------------|------------|-----------|------------|-------------|-------|----------|
|                     |                 | (n=5)‡     |           |            |             |       |          |
| -----bu/a-----      |                 |            |           |            |             |       |          |
| AgriMAXX            | 446             | 90.4       | 92.8      | 83.2       | 83.1        | 89.5  | 103.6    |
| Croplan by Winfield | CP9415          | 88.0       | 108.8     | 72.9       | 83.1        | 79.1  | 96.0     |
| Erwin-Keith/Progeny | PGX 18-2        | 87.8       | 96.8      | 69.8       | 93.5        | 88.6  | 90.4     |
| Dyna-Gro            | WX18416         | 87.2       | 93.6      | 64.0       | 104.5       | 86.5  | 87.1     |
| AgriMAXX            | 454             | 87.1       | 84.7      | 66.6       | 95.0        | 86.1  | 103.2    |
| USG                 | 3329            | 86.3       | 92.9      | 69.4       | 94.2        | 81.2  | 94.1     |
| Erwin-Keith/Progeny | #Blaze          | 86.2       | 94.8      | 82.8       | 80.3        | 84.9  | 88.1     |
| Dyna-Gro            | 9522            | 86.1       | 93.9      | 85.3       | 82.6        | 76.9  | 92.1     |
| Erwin-Keith/Progeny | PGX 18-7        | 86.1       | 85.5      | 77.4       | 92.8        | 82.1  | 92.9     |
| Armor               | ARW1819         | 85.9       | 98.0      | 61.6       | 101.1       | 79.3  | 89.5     |
| Limagrain           | L11814          | 85.8       | 101.6     | 67.9       | 102.2       | 89.6  | 67.6     |
| Dyna-Gro            | 9941            | 84.8       | 100.0     | 67.3       | 81.9        | 80.3  | 94.6     |
| USG                 | 3539            | 84.6       | 103.7     | 58.3       | 83.8        | 80.0  | 93.6     |
| Univ Tenn Exp       | TN1901          | 84.2       | 94.9      | 77.0       | 88.6        | 81.8  | 78.4     |
| Erwin-Keith/Progeny | #Bullet         | 84.0       | 100.7     | 64.0       | 83.3        | 85.5  | 86.6     |
| Armor               | Rage            | 83.9       | 80.2      | 77.1       | 89.9        | 85.2  | 87.3     |
| Pioneer             | 26R36           | 83.9       | 99.2      | 71.1       | 88.6        | 75.5  | 84.8     |
| Pioneer             | 26R45           | 83.9       | 90.7      | 65.9       | 91.5        | 85.2  | .        |
| Armor               | Velocity        | 83.6       | 88.0      | 74.2       | 83.2        | 83.1  | 89.6     |
| Croplan by Winfield | CP9606          | 83.5       | 107.8     | 65.4       | 76.3        | 76.9  | 91.0     |
| Stratton Seed Co    | GoWheat 2058    | 83.3       | 100.8     | 61.8       | 84.8        | 83.7  | 85.4     |
| Pioneer             | 26R10           | 83.2       | 95.8      | 70.8       | 83.1        | 75.7  | 90.8     |
| Local Seed Co       | LW2848          | 83.1       | 91.1      | 61.4       | 88.2        | 83.6  | 91.5     |
| Local Seed Co       | LW2937          | 82.9       | 91.6      | 62.0       | 92.3        | 78.6  | 89.9     |
| Erwin-Keith/Progeny | PGX 18-8        | 82.5       | 92.2      | 70.2       | 89.1        | 81.8  | 80.4     |
| Stratton Seed Co    | GoWheat EXP18-2 | 82.4       | 94.8      | 76.3       | 77.4        | 73.9  | 89.7     |
| Armor               | ARW1815         | 82.4       | 91.2      | 80.3       | 78.9        | 76.3  | 85.4     |
| AgriPro             | SY Viper        | 82.3       | 101.9     | 72.5       | 95.1        | 82.9  | 59.3     |

(continued)

**Table 2. Mean yields† of 81 soft red winter wheat varieties evaluated at five locations in Tennessee during 2019**

| Brand               | Variety      | Avg. Yield | Knoxville | Crossville | Springfield | Milan | Jackson |
|---------------------|--------------|------------|-----------|------------|-------------|-------|---------|
|                     |              | (n=5)‡     |           |            |             |       |         |
| -----bu/a-----      |              |            |           |            |             |       |         |
| Dyna-Gro            | 9701         | 82.3       | 87.2      | 71.9       | 86.2        | 80.3  | 85.6    |
| AgriMAXX            | Exp 1913     | 82.1       | 86.8      | 62.7       | 85.2        | 86.4  | 89.2    |
| VA Crop Imp Ass'n   | Liberty 5658 | 81.9       | 101.7     | 54.6       | 90.4        | 88.1  | 74.8    |
| Univ AR             | AR06146E-1-4 | 81.9       | 94.0      | 54.9       | 90.3        | 83.1  | 88.6    |
| Local Seed Co       | LWX19D       | 81.8       | 88.5      | 57.7       | 88.9        | 84.3  | 89.8    |
| Erwin-Keith/Progeny | #Turbo       | 80.9       | 98.4      | 51.5       | 91.8        | 84.4  | 76.1    |
| AgriMAXX            | 486          | 80.4       | 82.0      | 56.1       | 82.5        | 84.0  | 94.7    |
| USG                 | 3438         | 80.4       | 93.9      | 67.4       | 84.9        | 68.6  | 87.4    |
| Stratton Seed Co    | AGS 2038     | 80.2       | 85.6      | 65.3       | 85.5        | 72.4  | 92.0    |
| Armor               | Mayhem       | 80.1       | 81.6      | 54.4       | 94.2        | 84.8  | 79.0    |
| Armor               | Spirit       | 80.1       | 88.6      | 66.8       | 78.1        | 84.3  | 82.7    |
| Pioneer             | 26R41        | 80.0       | 84.1      | 63.7       | 78.3        | 83.1  | 91.1    |
| Stratton Seed Co    | AGS 2055     | 80.0       | 94.7      | 52.6       | 77.9        | 87.4  | 87.3    |
| Croplan by Winfield | CP8800       | 79.9       | 95.4      | 62.5       | 74.9        | 80.8  | 85.6    |
| USG                 | 3404         | 79.7       | 83.4      | 71.9       | 89.0        | 67.8  | 86.5    |
| Erwin-Keith/Progeny | PGX 17-16    | 79.4       | 80.4      | 67.3       | 88.8        | 77.8  | 82.8    |
| Croplan by Winfield | CP8550       | 79.4       | 92.4      | 52.5       | 84.1        | 85.3  | 82.5    |
| AgriMAXX            | Exp 1906     | 79.4       | 92.7      | 53.4       | 79.4        | 79.5  | 91.7    |
| AgriPro             | SY 547       | 79.3       | 84.6      | 65.0       | 83.3        | 84.6  | 78.9    |
| AgriMAXX            | 473          | 79.1       | 90.6      | 53.6       | 84.4        | 83.9  | 82.8    |
| Dyna-Gro            | 9811         | 78.9       | 83.7      | 69.8       | 74.3        | 82.8  | 84.1    |
| Univ Tenn Exp       | TN1702       | 78.9       | 89.2      | 55.3       | 100.1       | 75.2  | 74.7    |
| Local Seed Co       | LW2958       | 78.4       | 91.5      | 60.5       | 79.2        | 77.3  | 83.7    |
| USG                 | 3536         | 78.1       | 81.1      | 69.1       | 86.9        | 73.4  | 79.9    |
| Texas A&M Univ      | TX15D9579    | 77.8       | 76.9      | 78.3       | 85.9        | 74.2  | 73.9    |
| Erwin-Keith/Progeny | #Warrior     | 77.7       | 101.7     | 64.6       | 77.2        | 84.9  | 60.1    |

(continued)

**Table 2. Mean yields† of 81 soft red winter wheat varieties evaluated at five locations in Tennessee during 2019**

| Brand               | Variety         | Avg. Yield | Knoxville | Crossville | Springfield | Milan | Jackson |
|---------------------|-----------------|------------|-----------|------------|-------------|-------|---------|
|                     |                 | (n=5)‡     |           |            |             |       |         |
| -----bu/a-----      |                 |            |           |            |             |       |         |
| Limagrain           | L11719          | 77.6       | 92.0      | 63.1       | 76.4        | 77.2  | 79.3    |
| Stratton Seed Co    | GoWheat EXP18-1 | 77.4       | 93.4      | 66.9       | 71.5        | 75.7  | .       |
| Texas A&M Univ      | TX15D9597       | 77.2       | 86.6      | 48.9       | 89.5        | 81.2  | 79.5    |
| Armor               | ARW1766         | 76.8       | 82.7      | 60.6       | 73.0        | 77.2  | 90.7    |
| AgriPro             | SX 8186         | 76.6       | 90.3      | 69.6       | 83.0        | 82.7  | 57.4    |
| Univ Tenn Exp       | TN1903          | 76.3       | 84.0      | 66.0       | 74.4        | 76.2  | 80.9    |
| Pioneer             | 26R59           | 76.1       | 74.1      | 72.6       | 91.6        | 85.9  | 56.5    |
| USG                 | 3228            | 76.0       | 95.9      | 56.8       | 80.4        | 81.2  | 59.7    |
| AgriMAXX            | 495             | 76.0       | 87.7      | 59.0       | 81.8        | 74.9  | 76.7    |
| AgriMAXX            | 463             | 76.0       | 98.6      | 47.9       | 70.9        | 87.3  | 75.1    |
| Dyna-Gro            | 9932            | 75.2       | 84.9      | 61.3       | 81.4        | 66.9  | 81.6    |
| Erwin-Keith/Progeny | #Fury           | 74.8       | 94.6      | 57.3       | 71.7        | 80.7  | 55.1    |
| Univ GA             | GA071518-16E39  | 74.8       | 80.4      | 60.7       | 82.5        | 68.3  | 82.1    |
| AgriMAXX            | 485             | 74.8       | 82.8      | 64.0       | 76.2        | 83.3  | 48.7    |
| Univ MD             | 15 MDX20        | 74.4       | 91.7      | 53.5       | 71.3        | 73.9  | 81.6    |
| Univ MD             | 15MW131         | 74.2       | 82.5      | 67.3       | 72.3        | 79.5  | 69.6    |
| Texas A&M Univ      | TX15D9253       | 74.2       | 85.1      | 51.4       | 79.4        | 71.3  | 83.6    |
| USG                 | 3458            | 74.0       | 97.4      | 53.0       | 81.1        | 81.4  | 47.6    |
| USG                 | 3118            | 73.7       | 88.8      | 53.7       | 80.5        | 73.7  | 72.2    |
| Univ AR             | AR07133C-19-4   | 73.6       | 72.6      | 61.0       | 81.0        | 68.2  | 85.2    |
| USG                 | 3895            | 71.5       | 78.0      | 64.6       | 75.8        | 56.3  | 82.6    |
| Erwin-Keith/Progeny | PGX 16-4        | 71.4       | 100.6     | 45.6       | 70.3        | 76.1  | 64.4    |
| Univ Tenn Exp       | TN1902          | 71.3       | 77.8      | 63.7       | 87.2        | 70.8  | 56.8    |
| Univ MD             | 15MDX18         | 69.3       | 81.0      | 61.0       | 66.3        | 75.9  | 67.0    |
| Univ GA             | GA09129-16E55   | 69.0       | 70.6      | 51.9       | 81.2        | 68.7  | 72.8    |
| Univ GA             | GA09436-16LE12  | 67.6       | 74.6      | 60.5       | 74.8        | 58.1  | 70.2    |
| Texas A&M Univ      | TX15D9608       | 61.6       | 69.5      | .          | 63.7        | 63.8  | 64.9    |
|                     |                 |            |           |            |             |       |         |
| Average (bu/a)      |                 | 79.7       | 89.6      | 64.2       | 83.4        | 79.0  | 81.7    |
| L.S.D. .05 (bu/a)   |                 | 6.7        | 14.8      | 16.0       | 15.6        | 10.3  | 17.8    |
| C.V. (%)            |                 | 13.4       | 10.1      | 15.2       | 11.4        | 8.0   | 13.4    |

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

\* Missing values due to deer damage

**Table 3. Mean yields† and agronomic characteristics of 81 soft red winter wheat varieties evaluated at five locations in Tennessee during 2019**

| <b>Brand</b>        | <b>Variety</b>  | <b>Avg.<br/>Yield<br/>(n=5)‡<br/>bu/a</b> | <b>Test<br/>Weight#<br/>(n=3)<br/>lbs/bu</b> | <b>Heading<br/>Date<br/>(n=3)<br/>julian</b> | <b>Height<br/>(n=3)<br/>in.</b> |
|---------------------|-----------------|-------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------|
| AgriMAXX            | 446             | 90.4                                      | 56.1                                         | 117                                          | 31                              |
| Croplan by Winfield | CP9415          | 88.0                                      | 55.6                                         | 117                                          | 32                              |
| Erwin-Keith/Progeny | PGX 18-2        | 87.8                                      | 57.1                                         | 111                                          | 30                              |
| Dyna-Gro            | WX18416         | 87.2                                      | 54.6                                         | 116                                          | 32                              |
| AgriMAXX            | 454             | 87.1                                      | 56.0                                         | 117                                          | 31                              |
| USG                 | 3329            | 86.3                                      | 54.9                                         | 115                                          | 32                              |
| Erwin-Keith/Progeny | #Blaze          | 86.2                                      | 55.1                                         | 116                                          | 33                              |
| Dyna-Gro            | 9522            | 86.1                                      | 56.1                                         | 115                                          | 33                              |
| Erwin-Keith/Progeny | PGX 18-7        | 86.1                                      | 56.0                                         | 116                                          | 33                              |
| Armor               | ARW1819         | 85.9                                      | 54.7                                         | 115                                          | 31                              |
| Limagrain           | L11814          | 85.8                                      | 55.0                                         | 114                                          | 28                              |
| Dyna-Gro            | 9941            | 84.8                                      | 54.3                                         | 116                                          | 32                              |
| USG                 | 3539            | 84.6                                      | 55.2                                         | 117                                          | 30                              |
| Univ Tenn exp       | TN1901          | 84.2                                      | 54.3                                         | 114                                          | 33                              |
| Erwin-Keith/Progeny | #Bullet         | 84.0                                      | 55.8                                         | 117                                          | 34                              |
| Armor               | Rage            | 83.9                                      | 56.0                                         | 116                                          | 33                              |
| Pioneer             | 26R36           | 83.9                                      | 55.4                                         | 116                                          | 32                              |
| Pioneer             | 26R45           | 83.9                                      | 55.7                                         | 117                                          | 33                              |
| Armor               | Velocity        | 83.6                                      | 56.3                                         | 113                                          | 34                              |
| Croplan by Winfield | CP9606          | 83.5                                      | 54.5                                         | 116                                          | 32                              |
| Stratton Seed Co    | GoWheat 2058    | 83.3                                      | 54.0                                         | 116                                          | 29                              |
| Pioneer             | 26R10           | 83.2                                      | 54.6                                         | 117                                          | 31                              |
| Local Seed Co       | LW2848          | 83.1                                      | 56.2                                         | 116                                          | 34                              |
| Local Seed Co       | LW2937          | 82.9                                      | 55.8                                         | 116                                          | 32                              |
| Erwin-Keith/Progeny | PGX 18-8        | 82.5                                      | 55.5                                         | 117                                          | 30                              |
| Stratton Seed Co    | GoWheat EXP18-2 | 82.4                                      | 54.6                                         | 117                                          | 31                              |
| Armor               | ARW1815         | 82.4                                      | 55.4                                         | 117                                          | 33                              |
| AgriPro             | SY Viper        | 82.3                                      | 55.2                                         | 113                                          | 33                              |

(continued)

**Table 3. Mean yields† and agronomic characteristics of 81 soft red winter wheat varieties evaluated at five locations in Tennessee during 2019**

| <b>Brand</b>        | <b>Variety</b> | <b>Avg<br/>Yield<br/>(n=5)‡<br/>bu/a</b> | <b>Test<br/>Weight#<br/>(n=3)<br/>lbs/bu</b> | <b>Heading<br/>date<br/>(n=3)<br/>julian</b> | <b>Height<br/>(n=3)<br/>in.</b> |
|---------------------|----------------|------------------------------------------|----------------------------------------------|----------------------------------------------|---------------------------------|
| Dyna-Gro            | 9701           | 82.3                                     | 55.1                                         | 117                                          | 34                              |
| AgriMAXX            | Exp 1913       | 82.1                                     | 56.1                                         | 114                                          | 31                              |
| VA Crop Imp Ass'n.  | Liberty 5658   | 81.9                                     | 57.4                                         | 115                                          | 34                              |
| Univ AR             | AR06146E-1-4   | 81.9                                     | 55.6                                         | 113                                          | 35                              |
| Local Seed Co       | LWX19D         | 81.8                                     | 53.7                                         | 117                                          | 32                              |
| Erwin-Keith/Progeny | #Turbo         | 80.9                                     | 55.9                                         | 114                                          | 28                              |
| AgriMAXX            | 486            | 80.4                                     | 55.4                                         | 118                                          | 34                              |
| USG                 | 3438           | 80.4                                     | 53.9                                         | 115                                          | 31                              |
| Stratton Seed Co    | AGS 2038       | 80.2                                     | 57.8                                         | 118                                          | 39                              |
| Armor               | Mayhem         | 80.1                                     | 55.2                                         | 116                                          | 34                              |
| Armor               | Spirit         | 80.1                                     | 54.9                                         | 115                                          | 30                              |
| Pioneer             | 26R41          | 80.0                                     | 55.5                                         | 116                                          | 30                              |
| Stratton Seed Co    | AGS 2055       | 80.0                                     | 54.9                                         | 117                                          | 34                              |
| Croplan by Winfield | CP8800         | 79.9                                     | 54.9                                         | 117                                          | 33                              |
| USG                 | 3404           | 79.7                                     | 55.0                                         | 118                                          | 33                              |
| Erwin-Keith/Progeny | PGX 17-16      | 79.4                                     | 56.2                                         | 117                                          | 33                              |
| Croplan by Winfield | CP8550         | 79.4                                     | 56.3                                         | 117                                          | 35                              |
| AgriMAXX            | Exp 1906       | 79.4                                     | 56.1                                         | 114                                          | 32                              |
| AgriPro             | SY 547         | 79.3                                     | 56.0                                         | 114                                          | 34                              |
| AgriMAXX            | 473            | 79.1                                     | 54.3                                         | 115                                          | 33                              |
| Dyna-Gro            | 9811           | 78.9                                     | 54.9                                         | 116                                          | 33                              |
| Univ Tenn Exp       | TN1702         | 78.9                                     | 56.3                                         | 116                                          | 30                              |
| Local Seed Co       | LW2958         | 78.4                                     | 57.1                                         | 115                                          | 33                              |
| USG                 | 3536           | 78.1                                     | 55.5                                         | 116                                          | 34                              |
| Texas A&M Univ      | TX15D9579      | 77.8                                     | 55.6                                         | 113                                          | 33                              |
| Erwin-Keith/Progeny | #Warrior       | 77.7                                     | 54.6                                         | 114                                          | 30                              |

(continued)

**Table 3. Mean yields† and agronomic characteristics of 81 soft red winter wheat varieties evaluated at five locations in Tennessee during 2019**

| Brand               | Variety         | Avg<br>Yield<br>(n=5)‡ | Test<br>Weight#<br>(n=3) | Heading<br>date<br>(n=3) | Height<br>(n=3) |
|---------------------|-----------------|------------------------|--------------------------|--------------------------|-----------------|
|                     |                 | bu/a                   | lbs/bu                   | julian                   | in.             |
| Limagrain           | L11719          | 77.6                   | 55.9                     | 117                      | 30              |
| Stratton Seed Co    | GoWheat EXP18-1 | 77.4                   | 56.1                     | 118                      | 32              |
| Texas A&M Univ      | TX15D9597       | 77.2                   | 56.6                     | 114                      | 33              |
| Armor               | ARW1766         | 76.8                   | 56.2                     | 115                      | 32              |
| AgriPro             | SX 8186         | 76.6                   | 56.0                     | 115                      | 31              |
| Univ Tenn Exp       | TN1903          | 76.3                   | 56.5                     | 117                      | 35              |
| Pioneer             | 26R59           | 76.1                   | 54.4                     | 115                      | 29              |
| USG                 | 3228            | 76.0                   | 53.5                     | 113                      | 30              |
| AgriMAXX            | 495             | 76.0                   | 55.3                     | 114                      | 32              |
| AgriMAXX            | 463             | 76.0                   | 56.1                     | 115                      | 32              |
| Dyna-Gro            | 9932            | 75.2                   | 55.5                     | 117                      | 32              |
| Erwin-Keith/Progeny | #Fury           | 74.8                   | 56.4                     | 115                      | 31              |
| Univ Georgia        | GA071518-16E39  | 74.8                   | 55.4                     | 115                      | 32              |
| AgriMAXX            | 485             | 74.8                   | 55.5                     | 116                      | 32              |
| Univ MD             | 15 MDX20        | 74.4                   | 54.2                     | 114                      | 30              |
| Univ MD             | 15MW131         | 74.2                   | 56.8                     | 116                      | 31              |
| Texas A&M Univ      | TX15D9253       | 74.2                   | 53.8                     | 113                      | 29              |
| USG                 | 3458            | 74.0                   | 53.9                     | 114                      | 30              |
| USG                 | 3118            | 73.7                   | 56.7                     | 113                      | 28              |
| Univ AR             | AR07133C-19-4   | 73.6                   | 55.9                     | 116                      | 33              |
| USG                 | 3895            | 71.5                   | 54.6                     | 117                      | 30              |
| Erwin-Keith/Progeny | PGX 16-4        | 71.4                   | 56.1                     | 113                      | 31              |
| Univ Tenn Exp       | TN1902          | 71.3                   | 56.9                     | 115                      | 31              |
| Univ MD             | 15MDX18         | 69.3                   | 56.3                     | 116                      | 28              |
| Univ Georgia        | GA09129-16E55   | 69.0                   | 56.8                     | 113                      | 31              |
| Univ Georgia        | GA09436-16LE12  | 67.6                   | 59.1                     | 115                      | 35              |
| Texas A&M Univ      | TX15D9608       | 61.6                   | 54.0                     | 112                      | 28              |
| Average             |                 | 79.7                   | 55.6                     | 115.0                    | 31.0            |
| CV (%)              |                 | 6.7                    | 1.6                      | 1.1                      | 7.0             |

† 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.

**Table 4. Yields† of 23 soft red winter wheat varieties evaluated in 3 County Standard Tests in Tennessee during 2019**

| Variety                        | AvgYld<br>bu/ac | MOIST<br>% | TWT<br>lb/bu | County  |         |         |
|--------------------------------|-----------------|------------|--------------|---------|---------|---------|
|                                |                 |            |              | Fayette | Madison | Weakley |
|                                |                 |            |              | 24-Oct  | 29-Nov  | 24-Oct  |
| <b>Armor Rage</b>              | 83.2            | 14.9%      | 56.6         | 65.5    | 107.4   | 76.5    |
| <b>Progeny #Blaze</b>          | 81.8            | 14.7%      | 57.8         | 59.1    | 106.5   | 79.7    |
| <b>Croplan SRW 9415</b>        | 80.2            | 14.8%      | 58.9         | 55.6    | 100.2   | 84.9    |
| <b>Dyna-Gro 9692</b>           | 79.4            | 14.9%      | 56.9         | 74.0    | 98.9    | 65.2    |
| <b>Stratton Seed GW 2058</b>   | 78.3            | 14.7%      | 57.3         | 64.9    | 101.9   | 68.1    |
| <b>Progeny #Bullet</b>         | 77.7            | 14.8%      | 56.8         | 68.3    | 98.8    | 66.1    |
| <b>Armor Mayhem</b>            | 77.6            | 15.1%      | 56.6         | 62.5    | 99.7    | 70.5    |
| <b>Croplan SRW 8550</b>        | 77.5            | 14.7%      | 56.6         | 75.8    | 90.1    | 66.6    |
| <b>Dyna-Gro 9522</b>           | 77.3            | 15.5%      | 56.1         | 60.4    | 96.9    | 74.7    |
| <b>Warren Seed McKenna 335</b> | 76.9            | 15.2%      | 56.7         | 67.6    | 91.6    | 71.6    |
| <b>AgriPro SY Viper</b>        | 76.6            | 15.7%      | 55.9         | -       | 90.1    | 63.1    |
| <b>Warren Seed McKay 120</b>   | 75.0            | 15.5%      | 56.4         | 55.5    | 92.4    | 77.1    |
| <b>USG 3329</b>                | 74.9            | 15.8%      | 56.5         | 44.1    | 101.2   | 79.4    |
| <b>Stratton Seed AGS 2055</b>  | 74.5            | 14.3%      | 56.3         | 56.6    | 101.9   | 65.0    |
| <b>Progeny #Warrior</b>        | 73.4            | 15.3%      | 56.2         | -       | 88.3    | 58.5    |
| <b>Croplan SRW 9606</b>        | 73.1            | 14.5%      | 56.3         | 33.3    | 101.1   | 84.8    |
| <b>Dyna-Gro 9941</b>           | 70.5            | 15.8%      | 53.7         | 37.7    | 96.8    | 76.9    |
| <b>USG 3895</b>                | 69.3            | 15.6%      | 55.5         | 47.6    | 80.1    | 80.2    |
| <b>USG 3536</b>                | 68.4            | 14.6%      | 57.1         | 54.9    | 80.0    | 70.4    |
| <b>Dyna-Gro 9932</b>           | 67.1            | 16.0%      | 56.0         | 49.8    | 92.9    | 58.6    |
| <b>AgriPro SY 547</b>          | 66.1            | 14.9%      | 56.6         | 39.4    | 93.0    | 65.9    |
| <b>Armor Venom</b>             | 65.1            | 15.2%      | 57.3         | 40.0    | 88.8    | 66.6    |
| <b>Stratton Seed GW 2032</b>   | 63.2            | 15.4%      | 57.6         | 35.4    | 82.5    | 71.7    |
| <b>Averages</b>                | 74.2            | 15.1%      | 56.6         | 54.7    | 94.8    | 71.4    |

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

Statistical analysis was not conducted on this data due to the lack of replication.

Official test weight of No. 2 wheat=58 lbs/bu. TWT = Avg. Test Wt. lbs./bu @ 3 locations.

(-) denotes complete loss to deer damage (awnless varieties)

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**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=3) and the AgResearch and Education Center (REC) Tests (n=5) in Tennessee during 2019.**

| Brand            | Variety  | Average<br>of CST & REC Tests |              | County<br>Standard Tests |             | REC<br>Tests  |             |
|------------------|----------|-------------------------------|--------------|--------------------------|-------------|---------------|-------------|
|                  |          | Avg.<br>Yield                 | Test Weight‡ | Avg.<br>Yield            | Test Weight | Avg.<br>Yield | Test Weight |
|                  |          | bu/a                          | lbs/bu       | bu/a                     | lbs/bu      | bu/a          | lbs/bu      |
| Armor            | Rage     | 83.6                          | 56.3         | 83.2                     | 56.6        | 83.9          | 56.0        |
| Progeny          | #Blaze   | 84.0                          | 56.5         | 81.8                     | 57.8        | 86.2          | 55.1        |
| Croplan          | SRW9415  | 84.6                          | 56.8         | 80.2                     | 58.9        | 88.0          | 55.6        |
| Stratton Seed    | GW 2058  | 80.5                          | 55.7         | 78.3                     | 57.3        | 83.3          | 54.0        |
| Progeny          | #BULLET  | 81.0                          | 56.3         | 77.7                     | 56.8        | 84.0          | 55.8        |
| Armor            | Mayhem   | 78.9                          | 56.4         | 77.6                     | 56.6        | 80.1          | 56.2        |
| Croplan SRW 8550 | SRW 8550 | 78.5                          | 56.5         | 77.5                     | 56.6        | 79.4          | 56.3        |
| AgriPro          | SY Viper | 79.4                          | 55.7         | 76.6                     | 55.9        | 82.3          | 55.2        |
| USG              | 3329     | 80.1                          | 55.7         | 74.9                     | 56.5        | 86.3          | 54.9        |
| Stratton Seed    | AGS 2055 | 76.8                          | 55.6         | 74.5                     | 56.3        | 80.0          | 54.9        |
| Progeny          | #Warrior | 75.6                          | 55.5         | 73.4                     | 56.2        | 77.7          | 54.6        |
| USG              | 3895     | 70.4                          | 55.1         | 69.3                     | 55.5        | 71.5          | 54.6        |
| USG              | 3536     | 73.1                          | 56.4         | 68.4                     | 57.1        | 78.1          | 55.5        |
| Dyna-Gro         | 9932     | 71.2                          | 55.8         | 67.1                     | 56.0        | 75.2          | 55.5        |
| AgriPro          | SY 547   | 72.7                          | 56.3         | 66.1                     | 56.6        | 79.3          | 56.0        |
| Armor            | Venom    | 69.6                          | 57.2         | 65.1                     | 57.3        | 74.0          | 57.0        |
| Average          |          | 77.5                          | 56.2         | 74.5                     | 56.8        | 80.6          | 55.5        |

**Table 6. Mean yields† of 31 soft red winter wheat varieties evaluated at four locations (n=8) in Tennessee for two years, 2018 and 2019.**

| Brand                              | Variety      | Avg. Yield<br>(n=8)‡ | -----bu/a----- |             |       |         |
|------------------------------------|--------------|----------------------|----------------|-------------|-------|---------|
|                                    |              |                      | Knoxville      | Springfield | Milan | Jackson |
| Erwin-Keith/Progeny                | #Bullet      | 87.5                 | 89.9           | 85.5        | 77.7  | 97.1    |
| Croplan by Winfield                | CP8550       | 87.0                 | 92.1           | 84.3        | 77.2  | 94.2    |
| USG                                | 3329         | 86.6                 | 88.1           | 85.1        | 78.3  | 94.8    |
| Stratton Seed Co                   | GoWheat 2058 | 86.5                 | 91.5           | 85.6        | 77.2  | 92.2    |
| Dyna-Gro                           | 9941         | 86.2                 | 92.2           | 79.3        | 74.8  | 98.7    |
| Croplan by Winfield                | CP9415       | 85.8                 | 95.5           | 76.2        | 74.4  | 97.1    |
| Armor                              | Mayhem       | 85.4                 | 81.3           | 94.0        | 75.0  | 89.9    |
| Stratton Seed Co                   | AGS 2055     | 84.9                 | 89.4           | 80.5        | 78.2  | 91.7    |
| Dyna-Gro                           | 9701         | 84.6                 | 84.1           | 86.0        | 71.3  | 96.8    |
| Erwin-Keith/Progeny                | #Turbo       | 84.2                 | 91.1           | 97.5        | 71.3  | 74.3    |
| Pioneer                            | 26R10        | 84.1                 | 85.5           | 81.0        | 73.3  | 96.5    |
| Univ AR                            | AR06146E-1-4 | 84.1                 | 87.1           | 89.4        | 70.7  | 90.0    |
| USG                                | 3536         | 84.0                 | 87.7           | 87.1        | 70.2  | 91.1    |
| Pioneer                            | 26R41        | 83.6                 | 87.9           | 80.3        | 75.3  | 90.8    |
| AgriPro                            | SY 547       | 83.3                 | 88.0           | 86.9        | 80.5  | 77.9    |
| Dyna-Gro                           | 9811         | 83.0                 | 88.4           | 84.9        | 70.4  | 88.6    |
| Pioneer                            | 26R45        | 82.8                 | 83.2           | 86.9        | 76.6  | 82.0    |
| USG                                | 3438         | 81.9                 | 91.6           | 81.0        | 68.5  | 86.7    |
| UniV TN ezp                        | TN1702       | 81.9                 | 89.9           | 88.6        | 70.6  | 78.4    |
| Erwin-Keith/Progeny                | #Blaze       | 81.6                 | 82.2           | 74.4        | 77.8  | 92.2    |
| Pioneer                            | 26R36        | 81.6                 | 90.5           | 75.5        | 73.3  | 87.1    |
| USG                                | 3404         | 81.4                 | 81.3           | 78.3        | 73.2  | 92.9    |
| AgriPro                            | SY Viper     | 80.6                 | 92.7           | 93.1        | 77.4  | 59.2    |
| Dyna-Gro                           | 9522         | 80.5                 | 84.0           | 70.5        | 73.1  | 94.5    |
| USG                                | 3228         | 80.0                 | 88.9           | 81.9        | 75.7  | 71.7    |
| Croplan by Winfield                | CP9606       | 79.8                 | 85.0           | 65.9        | 75.9  | 92.6    |
| Erwin-Keith/Progeny                | #Warrior     | 79.2                 | 96.1           | 78.9        | 76.3  | 57.0    |
| Erwin-Keith/Progeny                | #Fury        | 78.7                 | 94.7           | 80.2        | 72.1  | 61.1    |
| USG                                | 3118         | 76.3                 | 89.3           | 77.8        | 61.2  | 78.2    |
| USG                                | 3895         | 75.6                 | 79.2           | 71.9        | 62.2  | 89.2    |
| Pioneer                            | 26R59        | 74.2                 | 63.6           | 85.6        | 80.0  | 67.7    |
| <hr/>                              |              |                      |                |             |       |         |
| <b>Average (bu/a)</b>              |              | 82.4                 | 87.3           | 82.4        | 73.8  | 86.4    |
| <b>L.S.D.<sub>.05</sub> (bu/a)</b> |              | 14.3                 | 12.4           | 12.6        | 10.6  | 13.5    |
| <b>C.V. (%)</b>                    |              | 9.7                  | 12.6           | 11.9        | 9.1   | 13.6    |

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

**Table 7. Mean yields† and agronomic characteristics of 31 soft red winter wheat varieties evaluated at four locations (n=8) in Tennessee for two years, 2018 and 2019.**

| Brand               | Variety      | Avg. Yield<br>(n=8)‡<br>bu/a | Test<br>Weight#<br>(n=6)<br>lbs/bu | Date<br>Headed<br>(n=6)<br>Julian | Height<br>(n=6)<br>in. |
|---------------------|--------------|------------------------------|------------------------------------|-----------------------------------|------------------------|
| Erwin-Keith/Progeny | #Bullet      | 87.5                         | 55.6                               | 116                               | 36                     |
| Croplan by Winfield | CP8550       | 87.0                         | 55.7                               | 116                               | 35                     |
| USG                 | 3329         | 86.6                         | 54.3                               | 115                               | 34                     |
| Stratton Seed Co    | GoWheat 2058 | 86.5                         | 54.7                               | 116                               | 30                     |
| Dyna-Gro            | 9941         | 86.2                         | 53.2                               | 117                               | 33                     |
| Croplan by Winfield | CP9415       | 85.8                         | 55.2                               | 118                               | 33                     |
| Armor               | Mayhem       | 85.4                         | 55.0                               | 116                               | 35                     |
| Stratton Seed Co    | AGS 2055     | 84.9                         | 54.1                               | 116                               | 35                     |
| Dyna-Gro            | 9701         | 84.6                         | 54.8                               | 118                               | 35                     |
| Erwin-Keith/Progeny | #Turbo       | 84.2                         | 55.9                               | 115                               | 29                     |
| Pioneer             | 26R10        | 84.1                         | 53.8                               | 118                               | 32                     |
| Univ AR             | AR06146E-1-4 | 84.1                         | 56.0                               | 114                               | 37                     |
| USG                 | 3536         | 84.0                         | 55.3                               | 117                               | 36                     |
| Pioneer             | 26R41        | 83.6                         | 54.9                               | 116                               | 32                     |
| AgriPro             | SY 547       | 83.3                         | 56.2                               | 113                               | 36                     |
| Dyna-Gro            | 9811         | 83.0                         | 55.6                               | 116                               | 35                     |
| Pioneer             | 26R45        | 82.8                         | 55.5                               | 116                               | 35                     |
| USG                 | 3438         | 81.9                         | 53.1                               | 116                               | 32                     |
| Univ Tenn exp       | TN1702       | 81.9                         | 55.9                               | 116                               | 32                     |
| Erwin-Keith/Progeny | #Blaze       | 81.6                         | 54.4                               | 116                               | 34                     |
| Pioneer             | 26R36        | 81.6                         | 54.9                               | 118                               | 33                     |
| USG                 | 3404         | 81.4                         | 53.9                               | 119                               | 34                     |
| AgriPro             | SY Viper     | 80.6                         | 56.2                               | 114                               | 34                     |
| Dyna-Gro            | 9522         | 80.5                         | 54.1                               | 118                               | 34                     |
| USG                 | 3228         | 80.0                         | 53.1                               | 114                               | 32                     |
| Croplan by Winfield | CP9606       | 79.8                         | 54.1                               | 116                               | 33                     |
| Erwin-Keith/Progeny | #Warrior     | 79.2                         | 54.2                               | 115                               | 31                     |
| Erwin-Keith/Progeny | #Fury        | 78.7                         | 56.4                               | 115                               | 33                     |
| USG                 | 3118         | 76.3                         | 56.3                               | 113                               | 30                     |
| USG                 | 3895         | 75.6                         | 54.1                               | 117                               | 31                     |
| Pioneer             | 26R59        | 74.2                         | 54.8                               | 115                               | 30                     |
| <b>Average</b>      |              | 82.4                         | 54.9                               | 116                               | 33                     |
| <b>C.V. (%)</b>     |              | 14.3                         | 2.1                                | 3.6                               | 8.7                    |

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

**Table 8. Mean yields† of 23 soft red winter wheat varieties evaluated at four locations (n=12) in Tennessee for three years, 2017 - 2019.**

| Brand                              | Variety      | Avg. Yield<br>(n=12)‡ | Knoxville | Spring<br>Field | Milan | Jackson |
|------------------------------------|--------------|-----------------------|-----------|-----------------|-------|---------|
|                                    |              |                       |           | bu/a            |       |         |
| Erwin-Keith/Progeny                | #Bullet      | 85.7                  | 85.9      | 86.0            | 76.0  | 94.8    |
| Pioneer                            | 26R10        | 84.6                  | 82.7      | 82.4            | 76.4  | 96.9    |
| Stratton Seed Co                   | GoWheat 2058 | 84.5                  | 88.5      | 80.5            | 79.8  | 89.1    |
| Croplan by Winfield                | CP9415       | 83.9                  | 86.1      | 76.7            | 78.1  | 94.8    |
| Stratton Seed Co                   | AGS 2055     | 83.1                  | 85.7      | 77.3            | 77.7  | 91.6    |
| Dyna-Gro                           | 9701         | 82.9                  | 82.4      | 83.6            | 72.5  | 93.2    |
| USG                                | 3536         | 82.7                  | 86.8      | 82.4            | 72.6  | 88.8    |
| USG                                | 3438         | 82.7                  | 90.6      | 81.0            | 72.5  | 86.6    |
| Pioneer                            | 26R36        | 82.1                  | 85.5      | 75.9            | 77.1  | 89.6    |
| Erwin-Keith/Progeny                | #Turbo       | 82.0                  | 95.2      | 87.5            | 68.7  | 75.4    |
| Pioneer                            | 26R41        | 81.8                  | 83.3      | 80.1            | 75.5  | 88.5    |
| Erwin-Keith/Progeny                | #Blaze       | 81.0                  | 79.6      | 74.8            | 78.1  | 91.3    |
| TN Exp                             | TN1702       | 80.8                  | 84.4      | 87.3            | 72.3  | 79.4    |
| Dyna-Gro                           | 9522         | 80.5                  | 78.7      | 74.7            | 76.0  | 92.5    |
| Croplan by Winfield                | CP9606       | 80.3                  | 82.1      | 71.0            | 77.5  | 90.7    |
| AgriPro                            | SY 547       | 80.1                  | 87.6      | 84.3            | 75.4  | 73.2    |
| USG                                | 3404         | 80.0                  | 78.0      | 78.4            | 74.5  | 89.0    |
| AgriPro                            | SY Viper     | 79.7                  | 89.1      | 89.1            | 74.7  | 60.4    |
| Erwin-Keith/Progeny                | #Warrior     | 79.0                  | 92.3      | 77.7            | 76.6  | 62.9    |
| Pioneer                            | 26R45        | 78.8                  | 81.6      | 83.3            | 67.0  | 82.0    |
| Erwin-Keith/Progeny                | #Fury        | 77.2                  | 91.9      | 80.2            | 70.4  | 62.0    |
| USG                                | 3895         | 76.5                  | 77.9      | 71.9            | 65.8  | 90.5    |
| Pioneer                            | 26R59        | 76.5                  | 67.7      | 83.4            | 80.4  | 74.5    |
| <b>Average (bu/a)</b>              |              | 81.1                  | 84.5      | 80.5            | 74.6  | 85.1    |
| <b>L.S.D.<sub>.05</sub> (bu/a)</b> |              | 5.6                   | 9.8       | 9.7             | 8.3   | 11.4    |
| <b>C.V. (%)</b>                    |              | 14.5                  | 12.3      | 12.8            | 11.8  | 14.2    |

† All yields are adjusted to 13.5% moisture.

‡ n = number of environments

**Table 9. Mean yields† and agronomic characteristics of 23 soft red winter wheat varieties evaluated at four locations (n=12) for three years, 2017 - 2019.**

| Brand               | Variety      | Avg. Yield<br>(n=15)‡ | Test<br>Weight<br>(n=9) | Date<br>Headed<br>(N=6) | Height<br>(n=12) |
|---------------------|--------------|-----------------------|-------------------------|-------------------------|------------------|
|                     |              | bu/a                  | lbs/bu                  | julian                  | in.              |
| Erwin-Keith/Progeny | #Bullet      | 85.7                  | 55.5                    | 117                     | 35               |
| Pioneer             | 26R10        | 84.6                  | 54.1                    | 118                     | 32               |
| Stratton Seed Co    | GoWheat 2058 | 84.5                  | 55.0                    | 116                     | 30               |
| Croplan by Winfield | CP9415       | 83.9                  | 54.9                    | 118                     | 33               |
| Stratton Seed Co    | AGS 2055     | 83.1                  | 54.2                    | 117                     | 35               |
| Dyna-Gro            | 9701         | 82.9                  | 55.0                    | 118                     | 34               |
| USG                 | 3536         | 82.7                  | 55.2                    | 117                     | 35               |
| USG                 | 3438         | 82.7                  | 52.9                    | 116                     | 32               |
| Pioneer             | 26R36        | 82.1                  | 55.0                    | 118                     | 33               |
| Erwin-Keith/Progeny | #Turbo       | 82.0                  | 55.8                    | 115                     | 29               |
| Pioneer             | 26R41        | 81.8                  | 55.2                    | 117                     | 31               |
| Erwin-Keith/Progeny | #Blaze       | 81.0                  | 54.5                    | 116                     | 33               |
| TN Exp              | TN1702       | 80.8                  | 55.8                    | 116                     | 32               |
| Dyna-Gro            | 9522         | 80.5                  | 54.2                    | 118                     | 33               |
| Croplan by Winfield | CP9606       | 80.3                  | 54.0                    | 116                     | 32               |
| AgriPro             | SY 547       | 80.1                  | 56.3                    | 114                     | 35               |
| USG                 | 3404         | 80.0                  | 53.9                    | 119                     | 33               |
| AgriPro             | SY Viper     | 79.7                  | 56.1                    | 114                     | 34               |
| Erwin-Keith/Progeny | #Warrior     | 79.0                  | 54.3                    | 115                     | 31               |
| Pioneer             | 26R45        | 78.8                  | 55.1                    | 117                     | 34               |
| Erwin-Keith/Progeny | #Fury        | 77.2                  | 56.1                    | 115                     | 32               |
| USG                 | 3895         | 76.5                  | 54.1                    | 116                     | 30               |
| Pioneer             | 26R59        | 76.5                  | 55.4                    | 116                     | 30               |
| Average             |              | 81.1                  | 54.9                    | 116.0                   | 32.0             |
| C.V. (%)            |              | 14.5                  | 2.0                     | 1.3                     | 7.0              |

† 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 2019.**

| Company                   | Contact                                                                                         | Phone                                                                                        | Email                                                                                                                                                                                                                                                                                                                            | Website                                                                              | Address                                                                                                         |
|---------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| AgriMAXX Seed Co          | James Yarber                                                                                    | 855-629-9432                                                                                 | <a href="mailto:james.yarber@agrimaxxwheat.com">james.yarber@agrimaxxwheat.com</a>                                                                                                                                                                                                                                               |                                                                                      | 7167 Highbanks Rd., Mascoutah, IL 62258                                                                         |
| AgriPro/Syngenta          | Ken Davis                                                                                       | 815-953-2041                                                                                 | <a href="mailto:kenneth.davis@syngenta.com">kenneth.davis@syngenta.com</a>                                                                                                                                                                                                                                                       |                                                                                      |                                                                                                                 |
| 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 9, Waldenburg, AR 72475                                                                                |
| Cache River Valley Seed   | Ted Holt                                                                                        | 870-477-5427                                                                                 | <a href="mailto:tedh@crvseed.com">tedh@crvseed.com</a>                                                                                                                                                                                                                                                                           | <a href="http://www.crvseed.com">www.crvseed.com</a>                                 | P.O. Box 10, 12470 Hwy 226 E., Cash, AR 72421                                                                   |
| Croplan by Winfield       | Jason Hinton                                                                                    | 804-291-6785                                                                                 | <a href="mailto:jason@northernstaris.com">jason@northernstaris.com</a>                                                                                                                                                                                                                                                           | <a href="http://www.winfield.com/Farmer/Croplan">www.winfield.com/Farmer/Croplan</a> | 10515 115th St. NW, Thief River Falls, MN 56701                                                                 |
| Delta Grow Seed           | Lee Hughes                                                                                      | 501-842-2572                                                                                 | <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                  | Jonathan Fant                                                                                   | 731-885-1212                                                                                 | <a href="mailto:Jonathan.Fant@cpsaqu.com">Jonathan.Fant@cpsaqu.com</a>                                                                                                                                                                                                                                                           | <a href="http://www.dynagroseed.com">www.dynagroseed.com</a>                         | 710 South First St., Union City, TN 38261                                                                       |
| LimaGrain                 | Gary Moore                                                                                      |                                                                                              | <a href="mailto:gary.moore@limagrains.com">gary.moore@limagrains.com</a>                                                                                                                                                                                                                                                         | <a href="http://www.limagraincerealseeds.com">www.limagraincerealseeds.com</a>       |                                                                                                                 |
| Local Seed Co             | Charlie Robinette                                                                               | 662-820-2035                                                                                 | <a href="mailto:Charlie.Robinette@localseed.com">Charlie.Robinette@localseed.com</a>                                                                                                                                                                                                                                             |                                                                                      | 802 Rozelle St., Memphis, TN 38109                                                                              |
| Pioneer Hi-Bred Int.      | George Stabler                                                                                  | 803-308-1003                                                                                 | <a href="mailto:george.stabler@pioneer.com">george.stabler@pioneer.com</a>                                                                                                                                                                                                                                                       | <a href="http://www.pioneer.com">www.pioneer.com</a>                                 | 59 Greif Parkway, Suite 200, Delaware, OH 43015                                                                 |
| Progeny                   | Brian Murray                                                                                    | 870-238-2079                                                                                 | <a href="mailto:bmurray@progenyaq.com">bmurray@progenyaq.com</a>                                                                                                                                                                                                                                                                 | <a href="http://www.progenyaq.com">www.progenyaq.com</a>                             | 1529 Hwy 193, Wynne, AR 72396                                                                                   |
| Steyer Seeds              | Joe Steyer                                                                                      | 800-231-4274                                                                                 | <a href="mailto:joesteyer@yahoo.com">joesteyer@yahoo.com</a>                                                                                                                                                                                                                                                                     | <a href="http://www.steyerseeds.com">www.steyerseeds.com</a>                         | PO Box 209, Old Fort, OH 44861                                                                                  |
| Stratton Seed Company     | Heath North                                                                                     | 800-264-4433                                                                                 | <a href="mailto:hnorth@strattonseed.com">hnorth@strattonseed.com</a>                                                                                                                                                                                                                                                             | <a href="http://www.gostrattonseed.com">www.gostrattonseed.com</a>                   | 1530 Hwy 79, South Stuttgart AR 72160                                                                           |
| Syngenta                  | Ken Davis                                                                                       | 815-953-2041                                                                                 | <a href="mailto:kenneth.davis@syngenta.com">kenneth.davis@syngenta.com</a>                                                                                                                                                                                                                                                       | <a href="https://agriprowheat.com/">https://agriprowheat.com/</a>                    | 726 River Place Drive, Bourbonnais, IL 60914                                                                    |
| Tennessee Farmers Co-Op   | Bryan Johnson                                                                                   | 615-793-8506                                                                                 | <a href="mailto:bjohnson@ourcoop.com">bjohnson@ourcoop.com</a>                                                                                                                                                                                                                                                                   | <a href="http://www.ourcoop.com">www.ourcoop.com</a>                                 | 180 Old Nashville Hwy, LaVergne, TN 37086                                                                       |
| University of Arkansas    | Esten Mason                                                                                     | 479-387-8899                                                                                 | <a href="mailto:esten@uark.edu">esten@uark.edu</a>                                                                                                                                                                                                                                                                               |                                                                                      |                                                                                                                 |
| University of Tennessee   | Dennis West                                                                                     | 865-974-8826                                                                                 | <a href="mailto:dwest3@utk.edu">dwest3@utk.edu</a>                                                                                                                                                                                                                                                                               |                                                                                      | 2505 EJ Chapman Dr. Rm. 212 Plant Biotech<br>Knoxville, TN 37996                                                |
| University of Georgia     | Mohamed Mergoum                                                                                 |                                                                                              | <a href="mailto:mmergoum@uga.edu">mmergoum@uga.edu</a>                                                                                                                                                                                                                                                                           |                                                                                      | Griffin, GA 30223                                                                                               |
| University of Maryland    | Jason Wight                                                                                     | 301-4054558                                                                                  | <a href="mailto:jpwight@umd.edu">jpwight@umd.edu</a>                                                                                                                                                                                                                                                                             |                                                                                      | 4252 Terrapin Trail,<br>College Park, MD, 20742                                                                 |
| Unisouth Genetics (USG)   | Stacy Burwick<br>David Fandrich<br>Mark Huffstetler<br>Trey Hurt<br>Wes Miller<br>Billy Sellers | 645-504-1595<br>931-967-3377<br>731-235-2167<br>731-836-7574<br>731-536-6251<br>731-538-2990 | <a href="mailto:sburwick@usgseed.com">sburwick@usgseed.com</a><br><a href="mailto:fandrichsupply@aol.com">fandrichsupply@aol.com</a><br><a href="mailto:huffy1@crunet.com">huffy1@crunet.com</a><br><a href="mailto:hurtco@bellsouth.net">hurtco@bellsouth.net</a><br><a href="mailto:wes@obiongrain.com">wes@obiongrain.com</a> | <a href="http://www.usgseed.com">www.usgseed.com</a>                                 | 3205-C HWY 46 South, Dickson, TN 37055<br><br><br><br>Obion Grain Co. Inc, Obion, TN<br>Sellers Seed, Obion, TN |
| Virginia Crop Improvement | Tom Hardiman                                                                                    | 804-746-4884                                                                                 | <a href="mailto:rmarkham@vt.edu">rmarkham@vt.edu</a>                                                                                                                                                                                                                                                                             | <a href="http://www.virginiacrop.org">www.virginiacrop.org</a>                       | Virginia Crop Improvement Assoc.<br>9225 Atlee Branch Lane<br>Mechanicsville, VA 23116                          |





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