Wheat Variety Performance Tests in Tennessee

2013

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

http://varietytrials.tennessee.edu

and

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Obion County
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**General Information**

**AgResearch and Education Center Tests:** The 2013 variety performance tests were conducted on 84 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) AgResearch 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.

In Knoxville, cool, wet temperatures during head development resulted in severe lodging caused by an infestation of foot rot disease (aka, eyespot and strawbreaker) caused by *Oculimacula yallundae*. Lesions form on the base of the stems just above the soil line and cause the stems to weaken and collapse, thus resulting in lodging. According to the APS “Compendium of Wheat Diseases” the organism is fairly widespread throughout wheat growing regions but is usually not a significant widespread problem. The disease is most severe during maturing conditions of high moisture and cool temperatures, the type of weather conditions experienced at Knoxville during jointing and heading. Fifty percent of plots at Knoxville had lodging scores of 4 or greater on a scale of 1 to 5, where 1= erect and 5= prostrate. A sample of plots was harvested and a high correlation between lodging and yield was observed. Knoxville yield data were not included in the overall analysis to prevent bias in variety evaluations due to the effects of lodging.

<table>
<thead>
<tr>
<th>Lodging Score</th>
<th>1 (n=9)</th>
<th>2 (n=2)</th>
<th>3 (n=3)</th>
<th>4 (n=12)</th>
<th>5 (n=8)</th>
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<tr>
<td>Yield</td>
<td>94.1</td>
<td>85.3</td>
<td>70.5</td>
<td>65.2</td>
<td>44.8</td>
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</table>

*n=number of plots per lodging category*
County Standard Tests: The County Standard Wheat Test was conducted on 18 soft red winter wheat varieties across ten counties in Kentucky, Middle and West Tennessee (Ballard, Dyer, Franklin, Gibson, Henry, Madison, Moore, Obion, Shelby, 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 2013 wheat varieties for silage yield, a duplicate test with differing randomization was planted at the Middle Tennessee AgResearch 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 2012 allowed for timely planting. Temperatures and moisture were below average during the early growing season. Spring conditions included average temperatures and above average moisture. According to the Tennessee Agricultural Statistics Service (TASS), the crop rated mostly good to excellent conditions in June with high winds causing some lodging. The wheat crop experienced a low incidence of disease and insect pressure. Above average moisture delayed harvest by two weeks. Yields were 63 bu/a state average in 2013. Tennessee producers planted approximately 420,000 acres of wheat in the fall of 2012. Approximately 340,000 acres were harvested for grain, which was 10,000 acres less than in 2012. The remaining 80,000 acres were utilized for hay, silage, cover crop or abandoned. According to TASS, the total wheat production in Tennessee for 2013 is 21.4 million bushels, a decrease of seven percent from the production of 2012.

Interpretation of Data

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

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

Wheat

Results

Yield and Agronomic Traits: During 2013, 84 wheat varieties were evaluated in seven AgResearch and Education Center (REC) tests, and 18 varieties were evaluated in ten county standard tests (CST). All eighteen varieties in the CST were also present in the REC tests (Table 5). Ten companies and five universities entered varieties into the tests this year. The average yield of the 84 varieties in the 2013 REC tests was 68 bu/a (range from 61 to 79 bu/a, Table 2). The varieties ranged in maturity from 201 to 224 days after planting (DAP) with most of the varieties clustering around 220. The average yield of the 18 varieties in the county tests was 85.6 bu/a with individual varieties ranging from 73.5 to 93.5 bu/a. The test weight values ranged from 55 to 59.3 lbs/bu (Table 4).

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<thead>
<tr>
<th>AgResearch and Education Center</th>
<th>Location</th>
<th>Planting Date</th>
<th>Harvest Date</th>
<th>Seeding Rate</th>
<th>Soil Type</th>
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<td>Knoxville</td>
<td>Knoxville</td>
<td>10/17/2012</td>
<td>6/21/2013</td>
<td>28/ft²</td>
<td>1.2 mill./ac</td>
</tr>
<tr>
<td>Plateau</td>
<td>Crossville</td>
<td>10/23/2012</td>
<td>7/15/2013</td>
<td>28/ft²</td>
<td>1.2 mill./ac</td>
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<tr>
<td>Highland Rim</td>
<td>Springfield</td>
<td>10/22/2012</td>
<td>6/22/2013</td>
<td>28/ft²</td>
<td>1.2 mill./ac</td>
</tr>
<tr>
<td>Middle Tennessee</td>
<td>Spring Hill</td>
<td>10/26/2012</td>
<td>6/26/2013</td>
<td>28/ft²</td>
<td>1.2 mill./ac</td>
</tr>
<tr>
<td>West Tennessee</td>
<td>Jackson</td>
<td>11/1/2012</td>
<td>6/21/2013</td>
<td>28/ft²</td>
<td>1.2 mill./ac</td>
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<tr>
<td>West Tennessee PM</td>
<td>Jackson</td>
<td>11/2/2012</td>
<td>6/22/2013</td>
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<td>1.2 mill./ac</td>
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<tr>
<td>Milan</td>
<td>Milan</td>
<td>11/8/2012</td>
<td>6/21/2013</td>
<td>32/ft²</td>
<td>1.4 mill./ac</td>
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<td>Agricenter International</td>
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<td>10/17/2012</td>
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<td>28/ft²</td>
<td>1.2 mill./ac</td>
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Table 2. Mean yields† of 84 soft red winter wheat varieties evaluated at seven locations in Tennessee during 2013.

<table>
<thead>
<tr>
<th>Brand</th>
<th>Variety</th>
<th>Avg. Yield ± Std Err.(^{‡})</th>
<th>Crossville 10/23/12</th>
<th>Springfield 10/22/12</th>
<th>Spring Hill 10/26/12</th>
<th>Jackson 11/1/12</th>
<th>Jackson 2 11/2/12</th>
<th>Milan 11/8/12</th>
<th>Memphis 10/17/12</th>
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### Table 2. Mean yields† of 84 soft red winter wheat varieties evaluated at seven locations in Tennessee during 2013.

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<th></th>
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Average (bu/a) 75 56 69 81 79 86 79 73
L.S.D. .05 (bu/a) 6 13 10 14 11 17 9 10
C.V. (%) 14.2 14.2 9.0 10.5 8.5 12.1 7.4 8.5

† All yields are adjusted to 13.5% moisture.
‡ n = number of environments
§ Planting date
Table 3. Mean yields† and agronomic characteristics of 84 soft red winter wheat varieties evaluated at eight locations in Tennessee during 2013.

<table>
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<th>Brand</th>
<th>Variety</th>
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Table 3. Mean yields† and agronomic characteristics of 84 soft red winter wheat varieties evaluated at eight locations in Tennessee during 2013.

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### Table 3. Mean yields† and agronomic characteristics of 84 soft red winter wheat varieties evaluated at eight locations in Tennessee during 2013.

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<th>Variety</th>
<th>Avg. Yield ± Std Err. (n=7)‡</th>
<th>Moisture (n=7)</th>
<th>Maturity (n=4)</th>
<th>Height (n=8)</th>
<th>Lodging (n=8)</th>
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† All yields are adjusted to 13.5% moisture.
‡ n = number of environments
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°.
Table 4. Yields† of 18 soft red winter wheat varieties evaluated in 10 County Standard Test in Tennessee/Kentucky during 2013.

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† 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. TWT. = Avg. Test Wt. lbs./bu. @ 8 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 2013 and 2012, or 2013, 2012 and 2011, 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 18 soft red winter wheat varieties that were in common to both the County Standard (CST) Tests (n=10) and the Research and Education Center (REC) Tests (n=7) in Tennessee during 2013.

<table>
<thead>
<tr>
<th>Brand</th>
<th>Variety</th>
<th>CST Tests</th>
<th>REC Tests</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Avg. Yield</td>
<td>Moisture</td>
<td>Test Weight‡</td>
</tr>
<tr>
<td></td>
<td>bu/a</td>
<td>%</td>
<td>lbs/bu</td>
</tr>
<tr>
<td>Dyna-Gro</td>
<td>9053</td>
<td>87</td>
<td>13</td>
</tr>
<tr>
<td>Armor</td>
<td>Rampage</td>
<td>85</td>
<td>13</td>
</tr>
<tr>
<td>Dyna-Gro</td>
<td>9223</td>
<td>85</td>
<td>13</td>
</tr>
<tr>
<td>AgriPro/Coker</td>
<td>SY Harrison</td>
<td>84</td>
<td>13</td>
</tr>
<tr>
<td>Terral</td>
<td>TV8848</td>
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<td>13</td>
</tr>
<tr>
<td>Warren Seed</td>
<td>McKay 110</td>
<td>83</td>
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</tr>
<tr>
<td>USG</td>
<td>3833</td>
<td>83</td>
<td>13</td>
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<tr>
<td>Progeny</td>
<td>357</td>
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<tr>
<td>Terral</td>
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</tr>
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<td>Terral</td>
<td>TV8861</td>
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<tr>
<td>Dyna-Gro</td>
<td>9171</td>
<td>80</td>
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<td>80</td>
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<td>Progeny</td>
<td>870</td>
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<td>13</td>
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<tr>
<td>Warren Seed</td>
<td>McKenna 200</td>
<td>79</td>
<td>13</td>
</tr>
<tr>
<td>AgriPro/Coker</td>
<td>Oakes</td>
<td>77</td>
<td>14</td>
</tr>
<tr>
<td>Warren Seed</td>
<td>McKenna 300</td>
<td>77</td>
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<td>Progeny</td>
<td>117</td>
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<tr>
<td>USG</td>
<td>3120</td>
<td>72</td>
<td>13</td>
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† All yields are adjusted to 13.5% moisture.
‡ Official test weight of No. 2 wheat = 58 lbs/bu.
Table 6. Mean yields† of 44 soft red winter wheat varieties evaluated at six locations (n=12) in Tennessee for two years, 2012 and 2013.

<table>
<thead>
<tr>
<th>Brand</th>
<th>Variety</th>
<th>Avg. Yield ± Std Err. (n=12)</th>
<th>Crossville</th>
<th>Springfield</th>
<th>Spring Hill</th>
<th>Jackson</th>
<th>Milan</th>
<th>Memphis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Warren Seed</td>
<td>McKay 110</td>
<td>80 ± 1</td>
<td>62</td>
<td>80</td>
<td>79</td>
<td>91</td>
<td>88</td>
<td>78</td>
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<tr>
<td>USG</td>
<td>3251</td>
<td>78 ± 1</td>
<td>64</td>
<td>75</td>
<td>80</td>
<td>89</td>
<td>88</td>
<td>73</td>
</tr>
<tr>
<td>TN Exp.</td>
<td>TN 1102</td>
<td>78 ± 1</td>
<td>64</td>
<td>86</td>
<td>77</td>
<td>83</td>
<td>87</td>
<td>69</td>
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<tr>
<td>Terral</td>
<td>TV8848</td>
<td>78 ± 1</td>
<td>68</td>
<td>71</td>
<td>79</td>
<td>88</td>
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<td>91</td>
<td>84</td>
<td>70</td>
</tr>
<tr>
<td>Dyna-Gro</td>
<td>9053</td>
<td>77 ± 1</td>
<td>59</td>
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<td>89</td>
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<td>74</td>
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<td>88</td>
<td>74</td>
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<td>69</td>
<td>74</td>
<td>95</td>
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<td>76</td>
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<td>73</td>
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<tr>
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<td>Rampage</td>
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<td>87</td>
<td>67</td>
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<tr>
<td>AgriPro/Coker (Syngenta)</td>
<td>SY Harrison</td>
<td>74 ± 1</td>
<td>59</td>
<td>67</td>
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<td>Milton</td>
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<td>AgriPro/Coker (Syngenta)</td>
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<td>TN 1202</td>
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</tbody>
</table>
Table 6. Mean yields† of 44 soft red winter wheat varieties evaluated at six locations (n=12) in Tennessee for two years, 2012 and 2013.

<table>
<thead>
<tr>
<th>Brand</th>
<th>Variety</th>
<th>Avg. Yield ± Std Err. (n=12)‡</th>
<th>Crossville</th>
<th>Springfield</th>
<th>Spring Hill</th>
<th>Jackson</th>
<th>Milan</th>
<th>Memphis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Progeny</td>
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<td>66</td>
<td>68</td>
<td>81</td>
<td>79</td>
<td>74</td>
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<td>Dyna-Gro</td>
<td>9012</td>
<td>70 ± 1</td>
<td>54</td>
<td>66</td>
<td>68</td>
<td>84</td>
<td>82</td>
<td>66</td>
</tr>
<tr>
<td>Cache River Valley Seed</td>
<td>Dixie McAlister</td>
<td>70 ± 1</td>
<td>56</td>
<td>64</td>
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<td>84</td>
<td>82</td>
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</tr>
<tr>
<td>Terral</td>
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<td>66</td>
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<td>84</td>
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</tr>
<tr>
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<td>79</td>
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<td>Bess</td>
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<td>75</td>
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<td>Cache River Valley Seed</td>
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<td>54</td>
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<td>85</td>
<td>73</td>
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<td>Pioneer</td>
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<td>67 ± 1</td>
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<td>Jamestown</td>
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<td>65</td>
<td>70</td>
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<td>76</td>
<td>68</td>
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<td>Progeny</td>
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<td>66 ± 1</td>
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<td>76</td>
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<td>81</td>
<td>77</td>
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</tr>
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<td>Average (bu/a)</td>
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</table>

† All yields are adjusted to 13.5% moisture.
‡ n = number of environments
Table 7. Mean yields† and agronomic characteristics of 44 soft red winter wheat varieties evaluated at seven locations (n=14) in Tennessee for two years, 2012 and 2013.

<table>
<thead>
<tr>
<th>Brand</th>
<th>Variety</th>
<th>Avg. Yield (n=12)</th>
<th>Moisture (n=12)</th>
<th>Test Weight# (n=10)</th>
<th>Maturity Height (n=14)</th>
<th>Lodging (n=12)</th>
<th>Protein* (n=1)</th>
<th>Barley Yellow Dwarf Virus (n=1)</th>
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<tr>
<td>USG</td>
<td>3251</td>
<td>78 ± 1</td>
<td>13.9</td>
<td>57.2</td>
<td>216.0</td>
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<td>9.4</td>
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<td>34</td>
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<td>9.5</td>
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<td>Dyna-Gro</td>
<td>9053</td>
<td>77 ± 1</td>
<td>13.6</td>
<td>54.5</td>
<td>215.0</td>
<td>34</td>
<td>1</td>
<td>9.1</td>
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<tr>
<td>Delta Grow</td>
<td>7300</td>
<td>76 ± 1</td>
<td>13.5</td>
<td>53.9</td>
<td>216.0</td>
<td>34</td>
<td>1</td>
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<td>13.4</td>
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<td>33</td>
<td>1</td>
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<td>ARX 1107</td>
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<td>9.3</td>
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<td>Rampage</td>
<td>75 ± 1</td>
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† 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 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 34 soft red winter wheat varieties evaluated at six locations (n=18) in Tennessee for three years, 2011 - 2013.

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† All yields are adjusted to 13.5% moisture.
‡ n = number of environments
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† All yields are adjusted to 13.5% moisture. ‡ n = number of environments
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.
Maturity (DAP) = Days after planting
Lodging = 1 to 5 scale; where 1 = 95% of plants erect; 2.5 = ~50% of plants leaning at an angle ≥ 45°; 5 = 95+% of plants leaning at an angle ≥ 45°.
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.
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<td>AgriPro/Coker (Syngenta)</td>
<td>Barton Fogleman</td>
<td>870-483-7691</td>
<td><a href="mailto:barton.fogleman@syngenta.com">barton.fogleman@syngenta.com</a></td>
<td><a href="http://www.agriprowheat.com">www.agriprowheat.com</a></td>
<td>778 CR 680, Bay, AR 72411</td>
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<td>Armor Seed</td>
<td>Lane Dill</td>
<td>901-233-0274</td>
<td><a href="mailto:lanedill@armorseed.com">lanedill@armorseed.com</a></td>
<td>wwwarmorseed.com</td>
<td>P.O. Box 178, Fisher, AR 72429</td>
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<td>Dixie (Cache River Valley Seed)</td>
<td>Jim Bigger</td>
<td>870-477-5233</td>
<td><a href="mailto:jimb@crvseed.com">jimb@crvseed.com</a></td>
<td><a href="http://www.crvseed.com">www.crvseed.com</a></td>
<td>P.O. Box 10, Cash, AR 72421</td>
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<td>Croplan Genetics</td>
<td>Jesse Witt</td>
<td>256-221-5932</td>
<td><a href="mailto:JBWitt@landolakes.com">JBWitt@landolakes.com</a></td>
<td><a href="http://www.croplangenetics.com">www.croplangenetics.com</a></td>
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<td>Keith Saum</td>
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<td><a href="mailto:ipayne@ourcoop.com">ipayne@ourcoop.com</a></td>
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<td>Lee Hughes</td>
<td>800-530-7933</td>
<td><a href="mailto:leehughes19@hotmail.com">leehughes19@hotmail.com</a></td>
<td><a href="http://www.deltagrow.com">www.deltagrow.com</a></td>
<td>P O Box 219, England, AR 72046</td>
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<td>Dyna-Gro</td>
<td>Dewain Riley</td>
<td>731-223-9876</td>
<td><a href="mailto:dewain.riley@cpsagu.com">dewain.riley@cpsagu.com</a></td>
<td><a href="http://www.dynagroseed.com">www.dynagroseed.com</a></td>
<td>710 South First Street, Union City, TN 38621</td>
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<tr>
<td>University of Georgia</td>
<td>Jerry Johnson</td>
<td>770-228-7345</td>
<td><a href="mailto:johnson@griffin.uga.edu">johnson@griffin.uga.edu</a></td>
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<td>Michigan Crop Improvement</td>
<td>C.J. Palmer</td>
<td>517-332-3546</td>
<td><a href="mailto:palmerj@michcrop.com">palmerj@michcrop.com</a></td>
<td>Michigan Crop Improvement Association</td>
<td>P.O. Box 21008 Lansing, MI 48909</td>
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<td>University of MO Foundation Seed</td>
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<td>North Carolina State University</td>
<td>Paul Murphy</td>
<td>919-610-0100</td>
<td><a href="mailto:paul.murphy@ncsu.edu">paul.murphy@ncsu.edu</a></td>
<td>North Carolina State University</td>
<td>840 Method Rd, Unit 3 Raleigh, NC 27695</td>
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<td>Pioneer Hi-Bred Int.</td>
<td>Dan Poston</td>
<td>622-820-0893</td>
<td><a href="mailto:dan.poston@pioneer.com">dan.poston@pioneer.com</a></td>
<td><a href="http://www.pioneer.com">www.pioneer.com</a></td>
<td>700 Boulevard South, Suite 302, Huntsville, AL 35802</td>
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<td>Progeny</td>
<td>Brian Murray</td>
<td>870-238-2079</td>
<td><a href="mailto:bmurray@progenyag.com">bmurray@progenyag.com</a></td>
<td><a href="http://www.progenyag.com">www.progenyag.com</a></td>
<td>1529 Hwy 193, Wynne, AR 72396</td>
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<tr>
<td>Steyer Seeds</td>
<td>Joe Steyer</td>
<td>800-231-4274</td>
<td><a href="mailto:josteyster@yahoo.com">josteyster@yahoo.com</a></td>
<td><a href="http://www.steyerseeds.com">www.steyerseeds.com</a></td>
<td>6154 N. County Rd. 33, Tiffin, OH 44883</td>
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<tr>
<td>Terral Seed Inc</td>
<td>Larry Mullen</td>
<td>318-282-3681</td>
<td><a href="mailto:lmullen@terralseed.com">lmullen@terralseed.com</a></td>
<td><a href="http://www.terralseed.com">www.terralseed.com</a></td>
<td>P O Box 826, Lake Providence, LA 71254</td>
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<tr>
<td>Tennessee Farmers Co-Op</td>
<td>Matt Henderson</td>
<td>731-836-7739</td>
<td><a href="mailto:mhenderson@ourcoop.com">mhenderson@ourcoop.com</a></td>
<td><a href="http://www.terralseed.com">www.terralseed.com</a></td>
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Table 10. Contact information for wheat seed companies evaluated in yield tests in Tennessee during 2011-12.

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<tr>
<td>University of Tennessee</td>
<td>Dennis West</td>
<td>865-974-8826</td>
<td><a href="mailto:dwest3@utk.edu">dwest3@utk.edu</a></td>
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<td>3421 Joe Johnson Dr, Knoxville, TN 37996-4561</td>
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<tr>
<td>Unisouth Genetics (USG)</td>
<td>Stacy Burwick</td>
<td>800-505-3133</td>
<td><a href="mailto:sburwick@bellsouth.net">sburwick@bellsouth.net</a></td>
<td><a href="http://www.usgseed.com">www.usgseed.com</a></td>
<td>2640-C Nolensville Rd., Nashville, TN 37211</td>
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<td></td>
<td>David Fandrich</td>
<td>931-967-3377</td>
<td><a href="mailto:fandrichsupply@aol.com">fandrichsupply@aol.com</a></td>
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<td>Fandrich Supply Co, Belvidere, TN</td>
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<td></td>
<td>Mark Huffstetler</td>
<td>731-235-2167</td>
<td><a href="mailto:huffy1@crunet.com">huffy1@crunet.com</a></td>
<td></td>
<td>Huffstetter &amp; Sons Seed Inc, Greenfield, TN</td>
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<tr>
<td></td>
<td>Trey Hurt</td>
<td>731-836-7574</td>
<td><a href="mailto:hurto2@bellsouth.net">hurto2@bellsouth.net</a></td>
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<td></td>
<td>Wes Miller</td>
<td>731-536-6251</td>
<td><a href="mailto:wes@obiongrain.com">wes@obiongrain.com</a></td>
<td></td>
<td>Obion Grain Co. Inc, Halls, TN</td>
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<td>Billy Sellers</td>
<td>731-538-2990</td>
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<td>Sellers Seed, Obion, TN</td>
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<tr>
<td>Virginia Crop Improvement</td>
<td>Robin Markham</td>
<td>804-333-3485</td>
<td><a href="mailto:rmarkham@vt.edu">rmarkham@vt.edu</a></td>
<td><a href="http://www.virginiacrop.org">www.virginiacrop.org</a></td>
<td>Virginia Crop Improvement Assoc.</td>
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<td>9225 Atlee Branch Lane</td>
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<td>Mechanicsville, VA 23116</td>
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<tr>
<td>Warren Seed</td>
<td>Lanny Warren</td>
<td>731-234-2921</td>
<td><a href="mailto:lanny.warren@charter.net">lanny.warren@charter.net</a></td>
<td></td>
<td>P.O. Box 10, Woodland Mills, TN 38721</td>
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