# 2017 MISSOURI WHEAT TEST

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Our motto is “We test the best” and that is exactly what we do. Each year, the best seed companies and organizations select several of their best varieties for evaluation by the MU Variety Testing Program. We use the latest scientific principles and procedures to provide farmers and others interested in corn variety performance with accurate and unbiased information.

We respect the seed companies and organizations that put their varieties to the test. We are honored that they entrust us with their valuable products. It takes courage to allow their varieties to be compared with all of the others. Not every company participates in our program for various reasons. Those companies that do participate deserve your consideration when purchasing seed for the next growing season. Please view the table at the back of our book for names and addresses of participating seed companies. Thank them for their courage and tell them you saw their variety in our program.

The MU Variety Testing Program has provided Missouri farmers with unbiased variety comparisons for more than 75 years, first with corn, then soybean and wheat. Our staff members are experienced veterans of testing crop yield performance. Our plots are placed where you farm. They have the soils and weather conditions your fields have. The MU Variety Testing Program is on-farm research in the truest sense of the word. Eight of our wheat locations are on farmer fields in your communities. The other two locations are MU farms. These CAFNR owned and operated research centers, combined with the private farm locations, provide the diversity of environments you need to select the best varieties for your farm. View the map in our procedures section to see the placement of our locations and the cooperators that are so important to the quality of our information.

Evaluating yield and making decisions based on that evaluation are difficult because yield is highly affected by environment — even the small differences that exist across a field. We use replication, plot size and plot placement to minimize the “noise.” Please read the procedures section of this book to better understand what we do and the tools we provide you to make variety selection decisions. Our data tables are arranged to help you quickly see how varieties compare. We strongly suggest that you use information from more than one location. Our tables of “region means” provide comparisons across multiple locations. If varieties are entered by companies in more than one year, we provide you with two-year means to increase the number of environments for your observation. Finally, although yield is extremely important, please see our variety characteristics table located near the back of the book to view additional information that you might find helpful during variety selection.

Thank you for your interest and support. Please support the companies that participate in our program. If you have suggestions on how we can improve our program, please contact me directly (wieboldw@missouri.edu). The MU Variety Testing Program exists to serve your needs. We want to provide you with the best information possible.

William “Bill” Wiebold
PROCEDURES

Regions and locations
The MU Variety Testing Program divides the wheat growing area of Missouri into three regions: North, Southwest and Southeast. The North Region contains four locations, and the Southwest and Southeast regions contain three locations each. The same varieties are tested in all locations within a region. Locations for 2017 are as follows:

North
1. Trenton (Grundy County); Peter Brewer Farm
2. Novelty (Knox County); Greenley Memorial Research Center
3. Columbia (Boone County); Bradford Research Center
4. Martinsburg (Audrain County); Warren Hale Farm

Southwest
5. Garden City (Cass County); Bill Cook Farm
6. Montrose (Henry County); Jeff Nold Farm
7. Lamar (Barton County); Walley Norton Farm

Southeast
8. Morehouse (New Madrid County); Tom Jennings Farm
9. Charleston (Mississippi County); Don Deline Farm
10. Portageville (Pemiscot County); Lewis Rone Farm

Entries
All seed companies were eligible to enter varieties in the 2017 wheat test. Participation was voluntary and the MU Variety Testing Program exercised no control over which, or how many, varieties were entered. The MU Variety Testing Program receives no Missouri tax dollars, so a fee was collected for each entry to fund the program.

Field plot design and plot management
Varieties were randomly arranged in the field according to a lattice design with three replications. Plots were six rows wide and 25 feet long. Row spacing was 7.5 inches. Planting rate was 1,500,000 seeds/acre. All six rows were harvested with a combine designed for small-plot work.

Fertilizer was applied at each location at the discretion of the farmer or research station manager. Herbicides were used to control weeds. Fungicides and insecticides were applied as needed for disease and insect management. Management details varied among locations and are specified in individual region crop management summaries.
**Data recorded**

Plant height was measured at maturity. Lodging was rated immediately before harvest using a scale of 1 to 5, where 1 = less than 20% plants lodged and 5 = 80% or more plants lodged. During harvest, plot grain weights and test weights were measured and an electronic moisture tester was used to determine the moisture content of the grain. Yields were corrected to a moisture content of 13% and expressed as bushels/acre.

**Comparing varieties**

The performance of a variety cannot be measured with absolute precision. Uncontrolled variability is involved in determining each plot’s yield. This variability exists in all field experiments and in farmer fields. Statistics are used to account for this variability and to help farmers select superior varieties. The statistical tool used by the MU Variety Testing Program is called “least significant difference” (LSD). The LSD is simple to use. When two varieties are compared and the difference between them is greater than the LSD, the entries are considered to be significantly different. Differences between two varieties that are smaller than the LSD may have occurred by chance and are considered to be not significant. In other words, the two varieties might have the same yield, grain moisture or other characteristics of interest. The LSD can be found at the bottom of each table.

The MU Variety Testing Program arranges varieties within each table from highest yield to lowest yield. The “top yielding” variety in each test is identified by a double asterisk (**) placed next to its yield. Varieties that did not yield significantly less than the highest yielding variety in the test are denoted in the tables by a single asterisk (*). Thus, by reading down the yield column, readers can readily identify the highest yielding varieties in a location.

Variety performance might seem inconsistent from location to location and from year to year. These differences are caused by differences among environments for rainfall, temperatures, soil fertility, diseases, insects and many other factors. For an improved estimate of relative variety performance, readers should consider results from more than one environment (locations and/or years). The vast majority of varieties are entered into our tests for only one year, so comparing varieties across multiple locations becomes even more important. The MU Variety Testing Program facilitates variety comparisons across locations by publishing region means. Region means tables contain yield data from all individual locations in the region and yields averaged across all of the locations. The variety with the highest average yield and varieties that do not differ for yield from that variety are designated with double (**) and single (*) asterisks.

Although yield usually receives first consideration, other agronomic characteristics may be important when selecting a wheat variety. The MU Variety Testing Program measures test weight and plant height and rates plant lodging. These data are presented in each location table. Winter hardiness, maturity, resistance to Hessian fly, and resistance to several diseases are among the variety characteristics that deserve careful consideration. We provide a table that contains several important characteristics of varieties entered into the MU Variety Testing Program. This information was provided by seed companies. Please contact seed company representatives for the latest information. Seed entered into the MU Variety Testing Program is usually treated with one or more seed treatments. These seed treatments are identified in the table listing the variety characteristics.
Accessibility of data

Results of the 2017 crop performance tests are available online at varietytesting.missouri.edu. If you need help accessing the website or would like to receive a printed copy, please call 573-882-2307.

Authors

William J. Wiebold, professor of Plant Sciences and state extension specialist; Delbert Knerr; Michael Grissum; Chris Cravens; and Jarrod Nichols.

Acknowledgments

The MU Variety Testing Program recognizes and expresses appreciation to the following individuals for their part in making the 2017 wheat performance tests possible: Peter Brewer, Trenton; Dana Harder, superintendent, Greenley Memorial Research Center, Novelty; Andrew Biggs, superintendent, Bradford Research Center, Columbia; Warren Hale, Martinsburg; Bill Cook, Garden City; Jeff Nold, Montrose; Walley Norton, Lamar; Tom Jennings, Morehouse; Don Deline, Charleston; Lewis Rone, Portageville.
NORTH REGION — CROP MANAGEMENT SUMMARY

The wheat test was conducted at four locations in the North Region (Trenton, Novelty, Columbia, and Martinsburg). The Martinsburg location was managed with higher than normal level of management. Frequent and heavy rains delayed harvest of the Novelty location, but yields and test weights were consistent with other locations.

Characteristics of the wheat test locations

<table>
<thead>
<tr>
<th>Location</th>
<th>Soil type</th>
<th>Soil test</th>
<th>Precipitation</th>
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<td>OM</td>
<td>P</td>
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<td>Novelty</td>
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<td>Trenton</td>
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Crop management practices at the wheat test locations

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<th>Dates</th>
<th>Fertilizer</th>
<th>Herbicides</th>
<th>Fungicide/Insecticides</th>
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### NORTH REGION — 2017 MISSOURI WHEAT TEST LOCATIONS

#### Columbia

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<th>Brand-Variety</th>
<th>Yield (bu/ac)</th>
<th>2-year mean (bu/ac)</th>
<th>Test weight (lb/bu)</th>
<th>Lodging</th>
<th>Height (inches)</th>
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<td>2-year mean (bu/ac)</td>
<td>Test weight (lb/bu)</td>
<td>Lodging ~</td>
<td>Height (inches)</td>
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<td>LSD (10%)</td>
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<td>CV (%)</td>
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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
### Martinsburg

<table>
<thead>
<tr>
<th>Brand-Variety</th>
<th>Yield (bu/ac)</th>
<th>2-year mean (bu/ac)</th>
<th>Test weight (lb/bu)</th>
<th>Lodging</th>
<th>Height (inches)</th>
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<td>Croplan 9606</td>
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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
### NORTH REGION — 2017 MISSOURI WHEAT TEST LOCATIONS

#### Novelty

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**Highest yielding variety in test**

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
## NORTH REGION — REGION SUMMARY

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### North Region summary (continued)

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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test
The wheat test was conducted at three locations in the Southeast Region (Charleston, Morehouse, and Portageville). Air temperatures below freezing occurred on at least two nights in mid-March throughout Southeast Missouri. Freeze damage on some wheat heads was visible and may have decreased yields. Stripe rust was apparent on some varieties at Portageville.

### Characteristics of the wheat test locations

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### Crop management practices at the wheat test locations

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### SOUTHEAST REGION — 2017 MISSOURI WHEAT TEST LOCATIONS

#### Charleston

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<th>2-year mean (bu/ac)</th>
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<th>Height (inches)</th>
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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
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### Portageville Southeast Region (continued)

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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
## SOUTHEAST REGION — REGION SUMMARY

<table>
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<tr>
<th>Brand-Variety</th>
<th>Charleston (bu/ac)</th>
<th>Morehouse (bu/ac)</th>
<th>Portageville (bu/ac)</th>
<th>Mean (bu/ac)</th>
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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test
The wheat test was conducted at three locations in the Southwest Region (Garden City, Lamar, and Montrose).

### Characteristics of the wheat test locations

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<th>OM</th>
<th>P</th>
<th>K</th>
<th>March</th>
<th>April</th>
<th>May</th>
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### Crop management practices at the wheat test locations

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<th>Herbicides</th>
<th>Fungicide/Insecticides</th>
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## Garden City

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**Garden City** Southwest Region (continued)

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**LSD (10%)**  
| **18.3** | **11.0** | **11.1**  
**CV (%)**       | **13.8** | **12.3** | **11.9** |

**Highest yielding variety in test**

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
## Lamar

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**Highest yielding variety in test**

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
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**Montrose  Southwest Region (continued)**

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<th>Test weight (lb/bu)</th>
<th>Lodging ~</th>
<th>Height (inches)</th>
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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test

~ Lodging rated on a 1 to 5 scale, where 1 = less than 20% plants lodged, 3 = all plants leaning moderately or 40% to 60% lodged, and 5 = 80% or more plants lodged.
## SOUTH WEST REGION — REGION SUMMARY

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<th>Brand-Variety</th>
<th>Garden City (bu/ac)</th>
<th>Lamar (bu/ac)</th>
<th>Montrose (bu/ac)</th>
<th>Mean (bu/ac)</th>
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## Southwest Region summary (continued)

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** Highest yielding variety in test

* Yield not significantly less than the highest yielding variety in the test
# CHARACTERISTICS FOR SOFT RED WINTER WHEAT VARIETIES

All information in this table was provided by the seed companies. The MU Variety Testing Program does not guarantee accuracy. Please contact seed dealers for the latest information.

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<sup>1</sup> E = Early, M = Medium, L = Late, n/i means the company did not provide information  
<sup>2</sup> A = Awned, U = Unawned, n/i means the company did not provide information  
<sup>3</sup> E = Excellent, G = Good, F = Fair, n/i means the company did not provide information  
<sup>4</sup> S = Susceptible, R = Resistant, I = Intermediate, n/i means the company did not provide information  
<sup>5</sup> 1 to 9 rating, 1 = Excellent 9 = Poor, n/i means the company did not provide information  
<sup>6</sup> 1 to 9 rating, 1 = Excellent 9 = Poor, n/i means the company did not provide information  
<sup>7</sup> 1 to 9 rating, 1 = Excellent 9 = Poor, n/i means the company did not provide information  
<sup>8</sup> 1 to 9 rating, 1 = Excellent 9 = Poor, n/i means the company did not provide information  
<sup>9</sup> 1 = Cruiser, 2 = Cruiser 5FS, 3 = Dividend, 4 = Escalate, 5 = Evergol energy,  
6 = Foothold, 7 = Gaucho, 8 = Imidacoprid, 9 = Ipconazole, 10 = Maxim 4 FS,  
11 = Nitroshield IV, 12 = Poncho, 13 = Raxil MD extra, 14 = Storicide II, 15 = Vibrance,  
16 = Vibrance extreme, n/i means the company did not provide information
### SOURCES FOR VARIETIES
ENTERED IN THE 2017 MISSOURI WHEAT TEST

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