Georgia
2013-2014 Small Grain Performance Tests

John D. Gassett, Anton E. Coy, Dustin Dunn, Henry Jordan Jr., and J. LaDon Day
Editors

Wheat  Oat  Rye
Triticale  Barley  Ryegrass

Department of Crop and Soil Sciences
Griffin Campus
## Conversion Table

<table>
<thead>
<tr>
<th><strong>U.S.</strong></th>
<th><strong>Abbr.</strong></th>
<th><strong>Unit</strong></th>
<th><strong>Approximate Metric Equivalent</strong></th>
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<tr>
<td><strong>Length</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>mi</td>
<td>mile</td>
<td>1.609 kilometers</td>
</tr>
<tr>
<td></td>
<td>yd</td>
<td>yard</td>
<td>0.9144 meters</td>
</tr>
<tr>
<td></td>
<td>ft or '</td>
<td>foot</td>
<td>0.3048 meters</td>
</tr>
<tr>
<td></td>
<td>in or &quot;</td>
<td>inch</td>
<td>0.0254 meters</td>
</tr>
<tr>
<td></td>
<td>sq mi or mi²</td>
<td>square mile</td>
<td>2.59 square kilometers</td>
</tr>
<tr>
<td></td>
<td>acre</td>
<td>acre</td>
<td>0.4053 hectares or 4047 square meters</td>
</tr>
<tr>
<td></td>
<td>sq ft or ft²</td>
<td>square foot</td>
<td>0.093 square meters</td>
</tr>
<tr>
<td><strong>Area</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>gal</td>
<td>gallon</td>
<td>3.785 liters</td>
</tr>
<tr>
<td></td>
<td>qt</td>
<td>quart</td>
<td>0.946 liters</td>
</tr>
<tr>
<td></td>
<td>pt</td>
<td>pint</td>
<td>0.473 liters</td>
</tr>
<tr>
<td></td>
<td>fl oz</td>
<td>fluid ounce</td>
<td>29.573 milliliters or 28.416 cubic centimeters</td>
</tr>
<tr>
<td></td>
<td>bu</td>
<td>bushel</td>
<td>35.238 liters</td>
</tr>
<tr>
<td></td>
<td>cu ft or ft³</td>
<td>cubic foot</td>
<td>0.028 cubic meters</td>
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<tr>
<td><strong>Volume/Capacity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>ton</td>
<td>ton</td>
<td>0.907 metric ton</td>
</tr>
<tr>
<td></td>
<td>lb</td>
<td>pound</td>
<td>0.453 kilogram</td>
</tr>
<tr>
<td></td>
<td>oz</td>
<td>ounce</td>
<td>28.349 grams</td>
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<table>
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<tr>
<th><strong>Metric</strong></th>
<th><strong>Abbr.</strong></th>
<th><strong>Unit</strong></th>
<th><strong>Approximate U.S. Equivalent</strong></th>
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<tr>
<td><strong>Length</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>km</td>
<td>kilometer</td>
<td>0.62 mile</td>
</tr>
<tr>
<td></td>
<td>m</td>
<td>meter</td>
<td>39.37 inches or 1.09 yards</td>
</tr>
<tr>
<td></td>
<td>cm</td>
<td>centimeter</td>
<td>0.39 inch</td>
</tr>
<tr>
<td></td>
<td>mm</td>
<td>millimeter</td>
<td>0.04 inch</td>
</tr>
<tr>
<td></td>
<td>ha</td>
<td>hectare</td>
<td>2.47 acres</td>
</tr>
<tr>
<td><strong>Area</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>liter</td>
<td>liter</td>
<td>61.02 cubic inches or 1.057 quarts</td>
</tr>
<tr>
<td></td>
<td>ml</td>
<td>milliliter</td>
<td>0.06 cubic inch or 0.034 fluid ounce</td>
</tr>
<tr>
<td></td>
<td>cc</td>
<td>cubic centimeter</td>
<td>0.061 cubic inch or 0.035 fluid ounce</td>
</tr>
<tr>
<td><strong>Volume/Capacity</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MT</td>
<td>metric ton</td>
<td>1.1 tons</td>
</tr>
<tr>
<td></td>
<td>kg</td>
<td>kilogram</td>
<td>2.205 pounds</td>
</tr>
<tr>
<td></td>
<td>g</td>
<td>gram</td>
<td>0.035 ounce</td>
</tr>
<tr>
<td></td>
<td>mg</td>
<td>milligram</td>
<td>3.5 x 10⁻³ ounce</td>
</tr>
</tbody>
</table>

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Results of the 2013-2014 performance tests of small grains grown for grain and forage are printed in this research report. Grain evaluation studies were conducted at five locations in Georgia, including Tifton, Plains and Midville in the Coastal Plain region, Griffin in the Piedmont region, and Calhoun in the Limestone Valley region. Small grain forage evaluation tests were conducted at four locations in Georgia, which included Tifton and Plains in the Coastal Plain region, Griffin in the Piedmont region and Calhoun in the Limestone Valley region, and at Marianna, Florida. For identification of the test locations, consult the map on following page.

Grain yields are reported as bushels per acre at 13.5% moisture for wheat, 13% moisture for triticale and rye, 12.5% moisture for oats and 12% moisture for barley. Additional agronomic data such as plant height, lodging, disease incidence, etc. are listed along with the corresponding yield data. Information concerning culture and fertilizer practices used is included in footnotes. Since the average yield from several years indicates a variety's potential better than a single year's data, multiple year yield summaries are included.

In order to have a broad base of information, a number of varieties, including experimental lines, are included in the tests, but this does not imply that all are recommended for Georgia. Varieties best suited to a specific area or for a particular purpose and agreed upon by College of Agricultural and Environmental Sciences scientists are presented on pages 4 and 5 and also in the 2014 Fall Planting Schedule for Georgia (available at your county Extension office). For additional information, contact your local county Extension office, the nearest UGA campus or nearest UGA Research and Education Center.

The Least Significant Difference (LSD) at the 10 percent level has been included in the tables to aid in comparing varieties and tests. If the yields' difference of any two varieties exceeds the LSD value, they can be considered different in yield ability. **Bolding** is used in the performance tables to indicate entries with yields statistically equal to the highest yielding entry in the test. The standard error (Std. Err.) of an entry mean is included at the bottom of each table to provide a general indicator of the level of precision of each variety experiment. The lower the value for the standard error of the entry mean, the more precise the experiment.

This report is one of five publications presenting the performance of agronomic crops in Georgia. For information concerning other crops, refer to one of the following research reports: 2013 Corn Performance Tests (Annual Publication 101-5), 2013 Soybean, Sorghum Grain and Silage, and Summer Annual Forages Performance Tests (Annual Publication 103-5), 2013 Peanut, Cotton and Tobacco Performance Tests (Annual Publication 104-5) and 2013-2014 Canola Performance Tests (available at http://www.swvt.uga.edu/canola.html).

This report, along with performance test information on other crops, is also available online at www.swvt.uga.edu. Additional information may be obtained by writing to Mr. John D. Gassett, Department of Crop and Soil Sciences, Griffin Campus, 1109 Experiment Street, Griffin, GA 30223-1797.
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