2014 Warm-Season Annual Grass Variety Trial

The forage cultivar evaluation program is a partnership between University of Tennessee Extension and UT AgResearch to aid producers in the selection of the best cultivars for their farm. This study was conducted using a randomized complete block design with three replications. The crop was grown using management practices considered to be the best for the crop, including fertilization according to soil test results.

Least significant difference (LSD) values at the 5 percent level are shown at the bottom of each table. Within any table, yields of any two varieties being compared must differ by at least this amount to be considered different.

Table 1: 2014 Yield of warm-season annual grass varieties at the East Tennessee Research and Education Center at Knoxville.

<table>
<thead>
<tr>
<th>Variety</th>
<th>Species</th>
<th>Knoxville Yield (ton DM/acre)</th>
<th>Jul 11</th>
<th>Aug 25</th>
<th>Oct 3</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASBDSS BMR6 sorghum x sudangrass</td>
<td></td>
<td>1.72</td>
<td>2.51*</td>
<td>0.94*</td>
<td></td>
<td>5.18</td>
</tr>
<tr>
<td>Cowvittles II forage sorghum</td>
<td></td>
<td>2.28*</td>
<td>2.86*</td>
<td>1.03*</td>
<td></td>
<td>6.17*</td>
</tr>
<tr>
<td>Dessie teffgrass</td>
<td></td>
<td>1.37</td>
<td>2.91*</td>
<td>---</td>
<td></td>
<td>4.28</td>
</tr>
<tr>
<td>Exceed BMR hybrid pearl millet</td>
<td></td>
<td>1.69</td>
<td>2.77*</td>
<td>1.08*</td>
<td></td>
<td>5.54*</td>
</tr>
<tr>
<td>FSG 114 BMR6 forage sorghum</td>
<td></td>
<td>2.85*</td>
<td>3.25*</td>
<td>1.05*</td>
<td></td>
<td>7.16*</td>
</tr>
<tr>
<td>FSG 115 BMR6 dwarf forage sorghum</td>
<td></td>
<td>2.21*</td>
<td>2.80*</td>
<td>1.10*</td>
<td></td>
<td>6.11*</td>
</tr>
<tr>
<td>FSG 214 BMR6 sorghum x sudangrass</td>
<td></td>
<td>2.98*</td>
<td>2.60*</td>
<td>0.86</td>
<td></td>
<td>6.44*</td>
</tr>
<tr>
<td>GreenGrazer V sorghum x sudangrass</td>
<td></td>
<td>3.11*</td>
<td>3.16*</td>
<td>0.82</td>
<td></td>
<td>7.10*</td>
</tr>
<tr>
<td>Quick-N-Big crabgrass</td>
<td></td>
<td>1.33</td>
<td>2.05</td>
<td>1.01*</td>
<td></td>
<td>4.40</td>
</tr>
<tr>
<td>Surpass BMR6 sorghum x sudangrass</td>
<td></td>
<td>2.26*</td>
<td>2.71*</td>
<td>1.12*</td>
<td></td>
<td>6.09*</td>
</tr>
<tr>
<td>XtraGraze BMR6 sorghum x sudangrass</td>
<td></td>
<td>2.02*</td>
<td>2.79*</td>
<td>1.24*</td>
<td></td>
<td>6.05*</td>
</tr>
<tr>
<td>LSD P=0.05</td>
<td></td>
<td>1.16</td>
<td>0.89</td>
<td>0.36</td>
<td></td>
<td>1.65</td>
</tr>
</tbody>
</table>

* yielded statistically the same as the top-yielding variety

Nitrogen application: 60 lb/acre at planting, 60 lb/acre after first harvest

Planted May 9, 2014

Table 2: Variety Information

<table>
<thead>
<tr>
<th>Variety</th>
<th>Species</th>
<th>Supplier</th>
<th>Commercially Available</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASBDSS BMR6 sorghum x sudangrass</td>
<td></td>
<td>Tennessee Farmers Co-Op</td>
<td>No</td>
</tr>
<tr>
<td>Cowvittles II forage sorghum</td>
<td></td>
<td>Tennessee Farmers Co-Op</td>
<td>Yes</td>
</tr>
<tr>
<td>Dessie teffgrass</td>
<td></td>
<td>Tennessee Farmers Co-Op</td>
<td>Yes</td>
</tr>
<tr>
<td>Exceed BMR hybrid pearl millet</td>
<td></td>
<td>Tennessee Farmers Co-Op</td>
<td>Yes</td>
</tr>
<tr>
<td>FSG 114 BMR6 forage sorghum</td>
<td></td>
<td>Tennessee Farmers Co-Op</td>
<td>Yes</td>
</tr>
<tr>
<td>FSG 115 BMR6 dwarf forage sorghum</td>
<td></td>
<td>Tennessee Farmers Co-Op</td>
<td>Yes</td>
</tr>
<tr>
<td>FSG 214 BMR6 sorghum x sudangrass</td>
<td></td>
<td>Tennessee Farmers Co-Op</td>
<td>Yes</td>
</tr>
<tr>
<td>GreenGrazer V sorghum x sudangrass</td>
<td></td>
<td>Tennessee Farmers Co-Op</td>
<td>Yes</td>
</tr>
<tr>
<td>Quick-N-Big crabgrass</td>
<td></td>
<td>Estel Farm and Seed</td>
<td>Yes</td>
</tr>
<tr>
<td>Surpass BMR6 sorghum x sudangrass</td>
<td></td>
<td>Coffey Forage Seeds, Inc</td>
<td>Yes</td>
</tr>
<tr>
<td>XtraGraze BMR6 sorghum x sudangrass</td>
<td></td>
<td>Coffey Forage Seeds, Inc</td>
<td>Yes</td>
</tr>
</tbody>
</table>

This and other useful information can be found at your local extension office, or on our website.

UTBeef.com

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