Table 1. Winter annual small grain forage study, 2014-2015, Southwest Research-Extension Center at Garden City, KS

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**Study Description**

**Location:**
- County/Area: Finney
- Longitude: 100°49' 100° 49'
- Latitude: 37°59' 37° 59'
- Elevation: 2865 ft
- Soil Series: Ulysses Silt Loam
- Soil Texture: Silt Loam
- Soil Depth: >80"

**Management Practices:**
- Previous Crop: Corn
- Planting Date: 9/26/2014
- Forage Harvest:
  - Fall: 12/10/2014
  - Spring: 5/12/2015 & 5/27/2015

**Growing Conditions:**

<table>
<thead>
<tr>
<th></th>
<th>Avg. Precip.</th>
<th>Precip.</th>
<th>Irrigation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oct</td>
<td>1.78</td>
<td>1.21</td>
<td>0.5</td>
</tr>
<tr>
<td>Nov</td>
<td>0.03</td>
<td>0.55</td>
<td>0</td>
</tr>
<tr>
<td>Dec</td>
<td>0.4</td>
<td>0.59</td>
<td>0</td>
</tr>
<tr>
<td>Jan</td>
<td>0.3</td>
<td>0.46</td>
<td>0</td>
</tr>
<tr>
<td>Feb</td>
<td>1.21</td>
<td>0.55</td>
<td>0</td>
</tr>
<tr>
<td>Mar</td>
<td>0.32</td>
<td>1.31</td>
<td>1.01</td>
</tr>
<tr>
<td>Apr</td>
<td>0.37</td>
<td>1.74</td>
<td>3.97</td>
</tr>
<tr>
<td>May</td>
<td>6.38</td>
<td>2.98</td>
<td>0.99</td>
</tr>
</tbody>
</table>

\( ^{a} \)Average precipitation is 30-yr mean

**Production Inputs:**

<table>
<thead>
<tr>
<th>Nutrient</th>
<th>Rate (lb/a)</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>74</td>
<td>Carryover</td>
</tr>
<tr>
<td>P</td>
<td>59</td>
<td>Carryover</td>
</tr>
<tr>
<td>N</td>
<td>5.5</td>
<td>9/26/2014</td>
</tr>
<tr>
<td>P</td>
<td>26</td>
<td>9/26/2014</td>
</tr>
<tr>
<td>N</td>
<td>100</td>
<td>3/25/2015</td>
</tr>
</tbody>
</table>

**Seeding Rate:**
- All Entries: 70 lb/a

**Herbicides:**
- Starane Ulta: 0.4 pt/a 4/3/2015
- MCPA: 0.375 qt/a 4/3/2015
- Ally (Ciramet): 0.1 oz/a 4/3/2015
- NIS: 0.375 pt/a 4/3/2015

**Field Notes:**

Above normal precipitation and below normal temperatures for the month of May.

Later maturing Slick Trit II performed well in 2015, which may have been in part due to cooler temperature and above normal precipitation late in the growing season.

Recommend more than 1 year of results before making variety selection decisions.
Table 2. Winter annual small grain forage yield, 2014-2015, Southwest Research-Extension Center at Garden City, KS

<table>
<thead>
<tr>
<th>Company</th>
<th>Species</th>
<th>Awn-Type</th>
<th>Harvest Date</th>
<th>Fall Yield</th>
<th>Spring Yield</th>
<th>Fall + Spring Yield</th>
<th>Plant Height</th>
<th>Lodging %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thundercale F</td>
<td>Ehmke Seed</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td>278</td>
<td>7575</td>
<td>7853</td>
<td>37</td>
<td>0</td>
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<tr>
<td>Thundercale</td>
<td>Ehmke Seed</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td><strong>520</strong></td>
<td><strong>9308</strong></td>
<td><strong>9828</strong></td>
<td>45</td>
<td>0</td>
</tr>
<tr>
<td>Thunderall II</td>
<td>Ehmke Seed</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td>144</td>
<td>9035</td>
<td>9179</td>
<td>49</td>
<td>0</td>
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<tr>
<td>Short Beard Thunder</td>
<td>Ehmke Seed</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td><strong>424</strong></td>
<td>9821</td>
<td><strong>10245</strong></td>
<td>46</td>
<td>0</td>
</tr>
<tr>
<td>ThunderGreen DL Rye</td>
<td>Ehmke Seed</td>
<td>Cereal Rye</td>
<td>5/12/2015</td>
<td>211</td>
<td>7876</td>
<td>8097</td>
<td>44</td>
<td>17</td>
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<tr>
<td>Thundercale MAES</td>
<td>Ehmke Seed</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td>269</td>
<td>8607</td>
<td>8876</td>
<td>46</td>
<td>17</td>
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<tr>
<td>Thundercale V</td>
<td>Ehmke Seed</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td>221</td>
<td>10116</td>
<td>10337</td>
<td>44</td>
<td>0</td>
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<tr>
<td>Thundertall</td>
<td>Ehmke Seed</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td><strong>600</strong></td>
<td>9109</td>
<td><strong>9709</strong></td>
<td>48</td>
<td>33</td>
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<tr>
<td>348</td>
<td>AgriPro</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td>366</td>
<td>10284</td>
<td>10650</td>
<td>48</td>
<td><strong>83</strong></td>
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<tr>
<td>Forerunner</td>
<td>Barenburg</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td><strong>481</strong></td>
<td>9727</td>
<td><strong>10207</strong></td>
<td>50</td>
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<tr>
<td>Endurance</td>
<td>Ok State Univ.</td>
<td>Wheat (control)</td>
<td>5/12/2015</td>
<td>185</td>
<td>5125</td>
<td>5310</td>
<td>37</td>
<td>0</td>
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<tr>
<td>NF 201 Trit</td>
<td>Noble Foundation</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td><strong>531</strong></td>
<td>9427</td>
<td><strong>9958</strong></td>
<td>56</td>
<td>0</td>
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<tr>
<td>Slick Trit II</td>
<td>Watley Seed Co.</td>
<td>Triticale</td>
<td>5/27/2015</td>
<td>338</td>
<td><strong>14011</strong></td>
<td><strong>14349</strong></td>
<td>45</td>
<td>8</td>
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<tr>
<td>WS I</td>
<td>Watley Seed Co.</td>
<td>Triticale</td>
<td>5/12/2015</td>
<td><strong>492</strong></td>
<td>9744</td>
<td><strong>10236</strong></td>
<td>46</td>
<td>8</td>
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<tr>
<td>LSD</td>
<td></td>
<td></td>
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<td>211.54</td>
<td>2000.40</td>
<td>2049.20</td>
<td>3.65</td>
<td>31.80</td>
</tr>
</tbody>
</table>

*a Values in bold and underlined are in the highest LSD group, P ≤0.05.
*b Short Beard Thunder classified as awnletted but in this study most plants were classified as awned.
*c All varieties cut at heading, variety Slick Trit II was later maturing and harvested on 5/27/2015.
*d Values in bold and italicized are in the highest LSD group for fall yield and second highest LSD group for spring yield, P ≤0.05.