## Deuel County Rainfed
### 2020 Winter Wheat Variety Trial

<table>
<thead>
<tr>
<th>Name</th>
<th>Company</th>
<th>Yield (bu/ac)</th>
<th>Test Weight (lb/bu)</th>
<th>Height (in)</th>
<th>Protein (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spur</td>
<td>AgriPro-Syngenta</td>
<td>42.7</td>
<td>51.0</td>
<td>27.5</td>
<td>13.0</td>
</tr>
<tr>
<td>CP7017AX</td>
<td>CROPLAN by Winfield United</td>
<td>42.6</td>
<td>56.1</td>
<td>28.3</td>
<td>12.5</td>
</tr>
<tr>
<td>Whistler</td>
<td>PlainsGold</td>
<td>41.7</td>
<td>53.0</td>
<td>29.3</td>
<td>12.9</td>
</tr>
<tr>
<td>SY Monument</td>
<td>AgriPro-Syngenta</td>
<td>40.7</td>
<td>55.2</td>
<td>28.3</td>
<td>12.7</td>
</tr>
<tr>
<td>NHH144913-3</td>
<td>UNL-Experimental</td>
<td>40.2</td>
<td>52.2</td>
<td>30.0</td>
<td>13.0</td>
</tr>
<tr>
<td>SY Rugged</td>
<td>AgriPro-Syngenta</td>
<td>39.9</td>
<td>55.4</td>
<td>27.3</td>
<td>12.4</td>
</tr>
<tr>
<td>WB4595</td>
<td>WestBred</td>
<td>39.9</td>
<td>56.4</td>
<td>27.3</td>
<td>12.4</td>
</tr>
<tr>
<td>WB4418</td>
<td>WestBred</td>
<td>39.7</td>
<td>57.3</td>
<td>27.0</td>
<td>12.9</td>
</tr>
<tr>
<td>SY Legend CL2</td>
<td>AgriPro-Syngenta</td>
<td>39.7</td>
<td>54.7</td>
<td>29.0</td>
<td>13.4</td>
</tr>
<tr>
<td>LCS Link</td>
<td>Limagrain Cereal Seeds</td>
<td>39.6</td>
<td>54.3</td>
<td>29.5</td>
<td>12.5</td>
</tr>
<tr>
<td>CP7869</td>
<td>CROPLAN by Winfield United</td>
<td>39.4</td>
<td>55.4</td>
<td>26.8</td>
<td>12.3</td>
</tr>
<tr>
<td>AP 18AX</td>
<td>AgriPro-Syngenta</td>
<td>39.0</td>
<td>56.4</td>
<td>27.0</td>
<td>12.4</td>
</tr>
<tr>
<td>Guardian</td>
<td>PlainsGold</td>
<td>38.4</td>
<td>57.7</td>
<td>28.0</td>
<td>13.0</td>
</tr>
<tr>
<td>NW15443</td>
<td>UNL-Experimental</td>
<td>38.0</td>
<td>56.0</td>
<td>30.0</td>
<td>12.6</td>
</tr>
<tr>
<td>Langin</td>
<td>PlainsGold</td>
<td>37.3</td>
<td>57.3</td>
<td>27.8</td>
<td>12.1</td>
</tr>
<tr>
<td>Crescent AX</td>
<td>PlainsGold</td>
<td>36.5</td>
<td>57.1</td>
<td>28.3</td>
<td>12.2</td>
</tr>
<tr>
<td>CP7050AX</td>
<td>CROPLAN by Winfield United</td>
<td>36.5</td>
<td>58.2</td>
<td>29.0</td>
<td>13.3</td>
</tr>
<tr>
<td>WB4462</td>
<td>WestBred</td>
<td>36.1</td>
<td>56.0</td>
<td>31.8</td>
<td>13.2</td>
</tr>
<tr>
<td>Settler CL</td>
<td>NuPride Genetics</td>
<td>36.1</td>
<td>55.0</td>
<td>27.8</td>
<td>13.4</td>
</tr>
<tr>
<td>Panhandle</td>
<td>Husker Genetics</td>
<td>36.0</td>
<td>55.9</td>
<td>29.5</td>
<td>14.2</td>
</tr>
<tr>
<td>CP7909</td>
<td>CROPLAN by Winfield United</td>
<td>35.9</td>
<td>57.5</td>
<td>26.0</td>
<td>12.1</td>
</tr>
<tr>
<td>WB-Grainfield</td>
<td>WestBred</td>
<td>35.7</td>
<td>55.1</td>
<td>30.5</td>
<td>13.0</td>
</tr>
<tr>
<td>Canvas</td>
<td>PlainsGold</td>
<td>35.7</td>
<td>56.9</td>
<td>26.5</td>
<td>12.8</td>
</tr>
<tr>
<td>Wesley</td>
<td>Husker Genetics</td>
<td>35.7</td>
<td>56.2</td>
<td>27.0</td>
<td>13.1</td>
</tr>
<tr>
<td>Breck</td>
<td>PlainsGold</td>
<td>35.5</td>
<td>56.6</td>
<td>27.0</td>
<td>13.5</td>
</tr>
<tr>
<td>Ruth</td>
<td>Husker Genetics</td>
<td>35.1</td>
<td>54.7</td>
<td>28.0</td>
<td>13.4</td>
</tr>
<tr>
<td>CP7010</td>
<td>CROPLAN by Winfield United</td>
<td>34.9</td>
<td>57.9</td>
<td>26.8</td>
<td>13.3</td>
</tr>
<tr>
<td>Long Branch</td>
<td>Dyna-Gro Seeds</td>
<td>34.1</td>
<td>55.8</td>
<td>25.5</td>
<td>12.3</td>
</tr>
<tr>
<td>NE14691</td>
<td>UNL-Experimental</td>
<td>33.5</td>
<td>53.4</td>
<td>28.8</td>
<td>13.3</td>
</tr>
<tr>
<td>Fortify SF</td>
<td>PlainsGold</td>
<td>33.0</td>
<td>55.3</td>
<td>28.0</td>
<td>12.9</td>
</tr>
<tr>
<td>Siege</td>
<td>NuPride Genetics</td>
<td>33.0</td>
<td>56.2</td>
<td>27.0</td>
<td>13.0</td>
</tr>
<tr>
<td>SY Wolverine</td>
<td>AgriPro-Syngenta</td>
<td>32.8</td>
<td>57.8</td>
<td>27.0</td>
<td>13.1</td>
</tr>
<tr>
<td>WB4792</td>
<td>WestBred</td>
<td>32.4</td>
<td>54.5</td>
<td>24.0</td>
<td>13.1</td>
</tr>
<tr>
<td>NE15624</td>
<td>UNL-Experimental</td>
<td>32.1</td>
<td>55.4</td>
<td>25.8</td>
<td>13.7</td>
</tr>
</tbody>
</table>

1 Yield values corrected to 12% moisture.
2 Protein corrected to 14% moisture, the correction factor used in analytical standards.
### SITE INFORMATION

<table>
<thead>
<tr>
<th>Collaborator:</th>
<th>Larry Flohr; Chappell, NE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Planting Date:</td>
<td>September 19, 2019</td>
</tr>
<tr>
<td>Seeding Rate:</td>
<td>800,000 seeds/acre</td>
</tr>
<tr>
<td>Harvest Date:</td>
<td>July 13, 2020</td>
</tr>
<tr>
<td>Fertility:</td>
<td>40 lb 28-0-0=5 in March followed by 20 lb 32-0-0 with herbicide application</td>
</tr>
<tr>
<td>Herbicide/Fungicides:</td>
<td>Olympus in mid-spring</td>
</tr>
<tr>
<td>Soil Type:</td>
<td>Johnstown-Satanta-Richfield loams</td>
</tr>
<tr>
<td>GPS:</td>
<td>41.174807, -102.247171</td>
</tr>
<tr>
<td>Notes:</td>
<td>Conventional tillage in a wheat-fallow rotation. Late spring frosts inhibited tillering and led to some freeze damage. Reports of wheat stem sawfly in the area with moderate pressure.</td>
</tr>
</tbody>
</table>

Do not reprint without permission. Contacts: Amanda Easterly or Cody Creech

---

<table>
<thead>
<tr>
<th>Variety</th>
<th>Source</th>
<th>Yield (bu/acre)</th>
<th>Protein (%)</th>
<th>Test Weight (lbs/bu)</th>
<th>Lodging (1-9)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SY 517CL2</td>
<td>AgriPro-Syngenta</td>
<td>32.1</td>
<td>56.2</td>
<td>27.0</td>
<td>13.6</td>
</tr>
<tr>
<td>NE15420</td>
<td>UNL-Experimental</td>
<td>32.0</td>
<td>56.1</td>
<td>26.3</td>
<td>13.7</td>
</tr>
<tr>
<td>Robidoux</td>
<td>Husker Genetics</td>
<td>31.4</td>
<td>53.1</td>
<td>28.8</td>
<td>13.7</td>
</tr>
<tr>
<td>LCS Valiant</td>
<td>Limagrain Cereal Seeds</td>
<td>30.5</td>
<td>55.4</td>
<td>26.8</td>
<td>13.5</td>
</tr>
<tr>
<td>NE14696</td>
<td>UNL-Experimental</td>
<td>30.1</td>
<td>56.3</td>
<td>28.8</td>
<td>13.3</td>
</tr>
<tr>
<td>NE16562</td>
<td>UNL-Experimental</td>
<td>29.9</td>
<td>55.2</td>
<td>27.3</td>
<td>13.4</td>
</tr>
<tr>
<td>Freeman</td>
<td>Husker Genetics</td>
<td>29.6</td>
<td>53.5</td>
<td>26.8</td>
<td>13.2</td>
</tr>
<tr>
<td>NW13493</td>
<td>UNL-Experimental</td>
<td>26.8</td>
<td>54.9</td>
<td>27.5</td>
<td>13.1</td>
</tr>
<tr>
<td>Pronghorn</td>
<td>Husker Genetics</td>
<td>26.8</td>
<td>56.7</td>
<td>34.0</td>
<td>13.7</td>
</tr>
<tr>
<td>Goodstreak</td>
<td>Husker Genetics</td>
<td>25.8</td>
<td>55.4</td>
<td>30.0</td>
<td>14.6</td>
</tr>
<tr>
<td>Scout 66</td>
<td>Check</td>
<td>25.7</td>
<td>56.7</td>
<td>29.5</td>
<td>12.9</td>
</tr>
<tr>
<td>NE15410</td>
<td>UNL-Experimental</td>
<td>22.8</td>
<td>54.3</td>
<td>27.5</td>
<td>13.5</td>
</tr>
<tr>
<td>Turkey</td>
<td>Check</td>
<td>22.2</td>
<td>54.8</td>
<td>30.0</td>
<td>13.7</td>
</tr>
<tr>
<td>NE14434</td>
<td>UNL-Experimental</td>
<td>20.5</td>
<td>54.5</td>
<td>26.3</td>
<td>13.9</td>
</tr>
</tbody>
</table>

**Standard Error**

<table>
<thead>
<tr>
<th>Yield</th>
<th>Protein</th>
<th>Test Weight</th>
<th>Lodging</th>
</tr>
</thead>
<tbody>
<tr>
<td>3.6</td>
<td>0.9</td>
<td>1.4</td>
<td>0.4</td>
</tr>
</tbody>
</table>

**LSD**

<table>
<thead>
<tr>
<th>Yield</th>
<th>Protein</th>
<th>Test Weight</th>
<th>Lodging</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.9</td>
<td>1.4</td>
<td>2.3</td>
<td>0.7</td>
</tr>
</tbody>
</table>

**Mean**

<table>
<thead>
<tr>
<th>Yield</th>
<th>Protein</th>
<th>Test Weight</th>
<th>Lodging</th>
</tr>
</thead>
<tbody>
<tr>
<td>34.3</td>
<td>55.6</td>
<td>28.0</td>
<td>13.1</td>
</tr>
</tbody>
</table>

**CV**

<table>
<thead>
<tr>
<th>Yield</th>
<th>Protein</th>
<th>Test Weight</th>
<th>Lodging</th>
</tr>
</thead>
<tbody>
<tr>
<td>15.6</td>
<td>2.7</td>
<td>6.1</td>
<td>4.1</td>
</tr>
</tbody>
</table>

**Reps**

<table>
<thead>
<tr>
<th>Yield</th>
<th>Protein</th>
<th>Test Weight</th>
<th>Lodging</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

---

3 For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

4 Mean performance of all entries in the trial.

5 Coefficient of Variation (CV) indicates the quality of a trial, and lower than 15 indicates a high quality trial. For CV>15, there was higher than expected variability in the field or the data and the results should be used with caution.