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UNL EXTENSION CIRCULAR 103
FALL SEED GUIDE
- August 2023 -

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ACKNOWLEDGMENTS
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Special acknowledgment is made to farmer cooperators who furnished land for experiments; also to Extension Educators and others who assisted with the tests. The authors wish to acknowledge the assistance of the technical support staff: Stephen Geu, Greg Dorn, TJ McAndrew, Greg Teichmeier, Jenny Stebbing, Michael Schlick, Gary Mahnken, Justin Richardson, Toby Spiehs, Robert Klein, Jake Hansen, and Bill Struckmeyer. Their help is vital to this research.

We would like to thank the Nebraska Wheat Board for contributing wheat check-off money and the Nebraska Agricultural Statistics Service for compiling data on varieties and production of wheat.

This circular reports data from winter wheat trials conducted throughout Nebraska. Entries include commercial varieties and promising experimental lines from Nebraska, surrounding states, and private breeders. The state has been divided into four districts for the purposes of variety testing (Panhandle, West Central, South Central, and East).

There were 18 trials planted across Nebraska in the fall of 2022. Names of cooperators, trial locations, planting dates, harvest dates, highest location mean yield, and mean of top five varieties are shown in Table A. Location specific information such as soil type, tillage, previous crop, and fertilizer applications when available are shown in Table B. Plot sizes varied with location. Six row wide and 20 to 35 feet long plots were planted across locations. All tests were direct harvested with plot combines. Entries were replicated 3 to 6 times. Yield values are corrected to 12% moisture.

Protein data were collected from two replicates at each location. The protein data was combined within each district and reported in the district tables. Protein was determined from whole grain using a Perten DA 7250 Near Infrared Spectrometer. Protein is corrected to 14% moisture, the correction factor used in most analytical standards. Please refer to the UNL Crop Variety Testing Home Page (https://cropwatch.unl.edu/varietytest) for individual site yields, disease score, and other relevant information.

Results of spring wheat variety, corn hybrid, and grain sorghum hybrid trials conducted in 2023 will be posted on the UNL Crop Variety and Hybrid Testing Program CropWatch page and published in the 2024 Spring Seed Guide.
WINTER WHEAT PERFORMANCE

According to the National Agricultural Statistics Service, winter wheat was sown on 1.13 million acres in Nebraska last year. 0.84 million acres were harvested producing a projected 33 million bushels of grain. The average winter wheat yield of Nebraska for all wheat harvested during the summer of 2023 was projected to be 39 bushels per acre (bu/ac). Yields were down this year due to drought, frequent hail, and late season freezes. Winter wheat yields and production from the previous 10 years are reported below.

Average Nebraska Winter Wheat Yield (all practices)

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<tr>
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<th></th>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Yield (bu/a)</td>
<td>49</td>
<td>38</td>
<td>54</td>
<td>46</td>
<td>49</td>
<td>57</td>
<td>41</td>
<td>49</td>
<td>32</td>
<td>39</td>
</tr>
<tr>
<td>NE Total Production (million bu)</td>
<td>71</td>
<td>46</td>
<td>71</td>
<td>47</td>
<td>49</td>
<td>55</td>
<td>34</td>
<td>41</td>
<td>26</td>
<td>33</td>
</tr>
</tbody>
</table>


Yielding ability of different varieties cannot be measured with absolute accuracy because of variations in local disease incidence, soil fertility, seasonal rainfall or moisture, and other factors. For this reason, small differences in yield have no significance. Unless the difference in performance of two varieties is greater than the difference required for least significance difference (LSD) shown in the tables, little confidence can be placed in the superiority of one variety over the other for measured traits in that particular test. These differences are shown at the 10% level, meaning that differences as large or larger could be expected through chance alone in 1 of 10 trials (10%). Even though two varieties are not statistically different, there may be other factors such as disease resistance, grain quality, agronomic desirability or availability of seed which may influence the choice of one variety over the other.

Complementary varieties are important when selecting additional varieties to grow. One definition of complementary varieties is that they come from diverse parentages. In order to help select varieties with diverse parentages, the related families of many varieties are included in the characteristics chart.

RESULTS AT INDIVIDUAL LOCATIONS

East:

There were three rainfed trials conducted in the East Region in Saunders, SaundersIM (Intensive Management) and Lancaster counties. Site specific management, soil type, and previous crops are shown in Table B. All Eastern sites experienced drought conditions through the fall and winter.

- The Saunders County Rainfed trial was planted on October 4th into disked ground previously in oats. 80 lb/a N was applied at greenup in the spring. Finesse herbicides was applied preplant while Prowl and 2,4-D herbicides were applied in April. Plots were harvested on July 10th with a top yield of 32 bu/a and an average yield of 24 bu/a.

- The SaundersIM County Rainfed trial was planted on October 4th, where the previous crop was oats. 40 lb/a N was applied at greenup and 80 lb/a N was applied at Feekes 5. Finesse herbicides was applied preplant while Prowl and 2,4-D herbicides were applied in April. Plots were harvested on July 10th with a top yield of 43 bu/a and an average yield of 30 bu/a.

- The Lancaster County Rainfed trial was planted on October 5th into disked oat stubble. 80 lb/a N was applied preplant and 80 lb/a of N in the spring. Finesse was applied preplant and Prowl H2O plus 2,4-D herbicides in the spring for weeds. The site was lost to extreme drought.

South Central:

Three rainfed trial was conducted in the South-Central Region in Jefferson, Clay, and Furnas counties. Site specific management and previous crops are shown in Table B.

- The Jefferson County Rainfed trial was planted on October 13th no-till into soybean stubble. The site was lost to winter freeze kill and the cooperator planted an alternative crop in the spring.

- The Clay County Rainfed trial was planted on October 5th into disked soybean stubble. The site was lost to drought and winter freeze damage.

- The Furnas County Rainfed trial was planted on October 11th no-till into corn fallow. Plots were lost to spring hailstorm damage.
West Central:

Five locations were planted in the West Central Region. One irrigated trial was planted in Perkins County. Rainfed trials were planted in Red Willow, Lincoln, Perkins, and Keith counties. Most rainfed sites were left fallow during the previous growing season with corn or wheat as the previous crop (Table B).

- The Perkins County Irrigated trial was planted on September 11th no-till into soybean stubble. 30 lb/a 40 Rock was applied in-furrow at planting and 125 lb/a N fertigated in the spring. Plots were harvested on August 10th with a top yield of 93 bu/a and an average yield of 76 bu/a.

- The Red Willow County Rainfed trial was planted on September 29th in no-till corn fallow. 30 lb/a 40 Rock was applied in-furrow at planting and 22 gal/a 30-0-0-3 applied in the spring. Amber herbicide was applied preplant and Trivapro and Tebustar fungicides were applied in June. Plots were harvested on July 17th with a top yield of 82 bu/a and an average yield of 70 bu/a.

- The Lincoln County Rainfed trial was planted on September 29th no-till into milo fallow. 30 lb/a 40 Rock was applied in-furrow at planting. The site was lost to hail damage.

- The Perkins County Rainfed trial was planted on September 21st no-till into corn fallow. 30 lb/a 40 Rock was applied in-furrow at planting. Prowl H2O and 2,4-D LV6 herbicides were applied in the spring for weed control. Plots were harvested July 11th with a top yield of 80 bu/a and an average yield of 68 bu/a.

- The Keith County Rainfed trial was planted on September 27th into no-till corn fallow ground. 30 lb/a 40 Rock was applied in-furrow at planting and 50 lb/a N topdressed in the spring. Prowl and 2,4-D LV6 herbicides were applied for weed control. Plots were harvested on July 31st with a top yield of 94 bu/a and an average yield of 80 bu/a.

Panhandle (West):

Seven locations were planted in the Panhandle (West Region). One irrigated trial was planted in Box Butte County. Rainfed trials were planted in Deuel, Cheyenne, CheyenneIM (Intensive Management), Kimball, Banner and Box Butte counties. All rainfed sites were left fallow the previous year (Table B).

- The Box Butte County Irrigated trial was planted on September 15th into disked dry bean stubble. 30 lb/a 40 Rock was applied in-furrow at planting and 50 lb/a N in the spring. 2,4-D LV-6 and Affinity were applied preplant and Prowl H2O and 2,4-D LV6 in the spring for weed control. Onset fungicide was applied. Plots were harvested August 2nd with a top yield of 104 bu/a and an average yield of 86 bu/a.

- The Deuel County Rainfed trial was planted on September 27th into conventionally tilled wheat fallow. 30 lb/a 40 Rock was applied in-furrow at planting and 30 lb/a N in the spring. Amber and Prowl herbicides were applied for weed control. Plots were harvested July 29th with a top yield of 85 bu/a and an average yield of 73 bu/a.

- The Cheyenne County Rainfed trial was planted on September 20th no-till into corn fallow. 30 lb/a N was applied preplant and 30 lb/a 40 Rock was applied in-furrow at planting. RoundUp and 2,4-D LV-6 were applied preplant and Prowl H2O and 2,4-D LV6 in the spring. Plots were harvested on July 31st with a top yield of 77 bu/a and an average yield of 63 bu/a.

- The CheyenneIM (Intensive Management) County Rainfed trial was planted on September 20th no-till into corn fallow. 50 lb/a N was applied preplant and 30 lb/a 40 Rock in-furrow at planting. 10 lb/a N was applied in early April and 50 lb/a N in late April. RoundUp and 2,4-D LV-6 herbicides were applied preplant and Prowl H2O and 2,4-D LV6 in the spring. Plots were harvested on July 26th with a top yield of 86 bu/a and an average yield of 70 bu/a.

- The Kimball County Rainfed trial was planted on September 20th into conventionally tilled corn fallow. 30 lb/a 40 Rock was applied in-furrow at planting. Prowl H2O and 2,4-D LV6 were applied in the spring. Plots were harvested on August 12th with a top yield of 65 bu/a and an average yield of 50 bu/a.

- The Banner County Rainfed trial was planted on September 19th into wheat fallow. 30 lb/a 40 Rock was applied in-furrow at planting. Prowl H2O and 2,4-D LV6 were applied in the spring. Plots were harvested on August 11th with a top yield of 91 bu/a and an average yield of 75 bu/a.

- The Box Butte County Rainfed trial was planted on September 15th into disked corn fallow. 30 lb/a 40 Rock was applied at planting and 50 lb/a N topdressed in the spring. Prowl, 2,4-D LV6, and Nexicor in the spring were used for weeds. Plots were harvested on July 22nd with a top yield of 106 bu/a and an average yield of 95 bu/a.
2023 WINTER WHEAT TRIAL LOCATIONS MAP

Panhandle

West Central

South Central

East

Rainfed Sites

Irrigated Sites

2023 WINTER WHEAT TRIAL SITE PRECIPITATION (inches)

<table>
<thead>
<tr>
<th>Precipitation (in)</th>
<th>Sept</th>
<th>Oct</th>
<th>Nov</th>
<th>Dec</th>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
<th>April</th>
<th>May</th>
<th>June</th>
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# TABLE A - LOCATION SUMMARY FOR NEBRASKA WINTER WHEAT VARIETY TESTS - 2023

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<tr>
<th>Location</th>
<th>Cooperator</th>
<th>Latitude</th>
<th>Longitude</th>
<th>Dates</th>
<th>Mean Yield (bu/a)</th>
<th>Location Mean Yield (bu/a)</th>
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<tr>
<td></td>
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<td>Plant</td>
<td>Harvest</td>
<td>Top Yield</td>
<td>Site</td>
<td>Site Avg</td>
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<td>Southeast</td>
<td></td>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Saunders Rainfed</td>
<td>UNL ARDC; Ithaca, NE</td>
<td>41.164746</td>
<td>-96.419017</td>
<td>10/4/22</td>
<td>32.0</td>
<td>23.8</td>
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<td>SaundersIM Rainfed</td>
<td>UNL ARDC; Ithaca, NE</td>
<td>41.164201</td>
<td>-96.419017</td>
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<td>42.5</td>
<td>30.4</td>
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<tr>
<td>Lancaster Rainfed</td>
<td>UNL Havelock Farm; Lincoln, NE</td>
<td>40.857285</td>
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<tr>
<td>South Central</td>
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<tr>
<td>Jefferson Rainfed</td>
<td>Mark Knobel; Fairbury, NE</td>
<td>40.276981</td>
<td>-97.216391</td>
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<td>Clay Rainfed</td>
<td>South Central Res &amp; Ext Center; Harvard, NE</td>
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<td>Lost to drought and freeze.</td>
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<td>Furnas Rainfed</td>
<td>Troy tenBensel, Arapahoe, NE</td>
<td>40.161901</td>
<td>-99.96837</td>
<td>10/11/22</td>
<td>Lost to hail damage.</td>
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<td>West Central</td>
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<tr>
<td>Red Willow Rainfed</td>
<td>Randy Peters; McCook, NE</td>
<td>40.176476</td>
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<td>Lincoln Rainfed</td>
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<td>9/29/22</td>
<td>Lost to hail damage.</td>
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<td>40.845372</td>
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<td>Keith Rainfed</td>
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<td>CheyenneIM Rainfed</td>
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<td>Kimball/Banner Rainfed</td>
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<td>Cullan Seed Farms; Hemingford, NE</td>
<td>42.246128</td>
<td>-103.014585</td>
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<td>8/10/23</td>
<td>93.4</td>
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### TABLE B - SOIL TYPE, PREVIOUS CROP, FERTILIZERS AND HERBICIDES/ FUNGICIDES APPLIED TO NEBRASKA WINTER WHEAT VARIETY TESTS

<table>
<thead>
<tr>
<th>Location</th>
<th>Soil Type</th>
<th>Tillage System</th>
<th>Previous Crop(s)</th>
<th>Fertilizer</th>
<th>Herbicide/Fungicide</th>
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<td><strong>Southeast</strong></td>
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<td>Saunders Rainfed</td>
<td>Yutan silty clay loam</td>
<td>Disked</td>
<td>Oats</td>
<td>80 lb/a N applied at greenup</td>
<td>0.3 oz/a Finesse preplant; 0.5 pt/a 2,4-D + 2 pt/a Prowl in April</td>
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<td>SaundersIM Rainfed</td>
<td>Yutan silty clay loam</td>
<td>Disked</td>
<td>Oats</td>
<td>40 lb/a N applied at greenup, 80 lb/a N applied at Feekes 5</td>
<td>0.3 oz/a Finesse preplant; 0.5 pt/a 2,4-D + 2 pt/a Prowl in April</td>
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<td>Lancaster Rainfed</td>
<td>Crete silt loam</td>
<td>Disked</td>
<td>Oats</td>
<td>80 lbs/a N preplant, 80 lbs/a N in March</td>
<td>0.3 oz/a Finesse preplant, 2,4-D + Prowl in April</td>
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<td>Jefferson Rainfed</td>
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<td>Furnas Rainfed</td>
<td>Holdrege silt loam</td>
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<tr>
<td>Red Willow Rainfed</td>
<td>Keith &amp; Blackwood silt loams</td>
<td>No-till</td>
<td>Fallow (corn)</td>
<td>30 lb/a P as 40 Rock at planting, 22 gal/a 30-0-0-3 in April</td>
<td>0.56 oz/a Amber in September, Trivapro &amp; 4 oz/a Tebustar in June</td>
</tr>
<tr>
<td>Lincoln Rainfed</td>
<td>Holdrege silt loam</td>
<td>No-till</td>
<td>Fallow (milo)</td>
<td>30 lb/a P as 40 rock</td>
<td>2.4 pts/a Prowl H2O + 6 oz/a 2,4-D LV6 + 1/4 lb/a N</td>
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<tr>
<td>Perkins Rainfed</td>
<td>Mace &amp; Rosebud-Canyon silt loams</td>
<td>No-till</td>
<td>Fallow (corn)</td>
<td>30 lb/a P as 40 rock</td>
<td>2.4 pts/a Prowl H2O + 6 oz/a 2,4-D LV6 + 1/4 lb/a N</td>
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<tr>
<td>Keith Rainfed</td>
<td>Kuma loam</td>
<td>No-till</td>
<td>Fallow (corn)</td>
<td>30 lb/a P as 40 rock</td>
<td>2.4 pts/a Prowl H2O + 6 oz/a 2,4-D LV6 + 1/4 lb/a N</td>
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<td><strong>Panhandle (West)</strong></td>
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<td>Deuel Rainfed</td>
<td>Johnstown-Satanta-Richfield-Altvan loams</td>
<td>Tilled</td>
<td>Fallow (wheat)</td>
<td>30 lbs/lb P as 40 rock at planting, 20 lb/a N, followed by 10 lbs N with Amber in early spring</td>
<td>Amber in early spring, 2 pt/a Prowl H2O in spring</td>
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<tr>
<td>Cheyenne Rainfed</td>
<td>Alliance loam</td>
<td>No-till</td>
<td>Fallow (corn)</td>
<td>30 lb/a N as 32-0-0 streamed in August; 30 lb/a P as 40 Rock in-furrow at planting; 10 lb/a N with 2.4-D in April</td>
<td>32 oz/a RoundUp, 8 oz/a 2,4-D LV6 and 1% Class Act preplant; 2 pt/a Prowl H2O and 6 oz/a 2,4-D LV6 in early May</td>
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<td>CheyenneIM Rainfed</td>
<td>Alliance loam</td>
<td>No-till</td>
<td>Fallow (corn)</td>
<td>50 lb/a N as 32-0-0 streamed in August; 30 lb/a P as 40 Rock in-furrow at planting; 10 lb/a N with 2.4-D in April; 50 lb/a N applied with streamer nozzles after herbicide application</td>
<td>32 oz/a RoundUp, 8 oz/a 2,4-D LV6 preplant; 2 pt/a Prowl H2O and 6 oz/a 2,4-D LV6 in early May</td>
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<tr>
<td>Kimball/Banner Rainfed</td>
<td>Satanta fine sandy loam</td>
<td>Tilled</td>
<td>Fallow (corn)</td>
<td>30 lbs/a of P as 40 rock</td>
<td>2 pt/a Prowl H2O + 2,4-D LV6 in the spring</td>
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<td>Banner Rainfed</td>
<td>Bridget very fine sandy loam</td>
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<td>30 lbs/a of P as 40 rock</td>
<td>2 pt/a Prowl H2O + 2,4-D LV6</td>
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<tr>
<td>Box Butte Rainfed</td>
<td>Rosebud loam</td>
<td>Tilled</td>
<td>Fallow (corn)</td>
<td>30 lb/a P as 40 Rock at planting, 50 lb/a N topdressed in spring</td>
<td>2 pt/a Prowl H2O + 2,4-D LV6 and Nexicor in spring.</td>
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<tr>
<td>Box Butte Irrigated</td>
<td>Rosebud &amp; Alliance loams</td>
<td>Tilled</td>
<td>Dry bean</td>
<td>30 lb/a P as 40 Rock at planting, 50 lb/a N topdressed in spring</td>
<td>LV6 and Affinity in the fall, 2.4 pt/a Prowl H2O with 6 oz/a 2,4-D LV6 in April, Onset fungicide</td>
</tr>
<tr>
<td>Perkins Irrigated</td>
<td>Mace &amp; Kuma silt loams</td>
<td>No-till</td>
<td>Soybean</td>
<td>30 lb/a 40 Rock in-furrow; 125 lb/a N fertigated in the spring</td>
<td>2 pt/a Prowl H2O + 2,4-D LV6 in the spring</td>
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<td>TABLE C - ENTRIES AND CONTACT INFORMATION</td>
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<tr>
<td>The entrant should be contacted for information on seed availability, adaptation and agronomic characteristics.</td>
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<tr>
<th>Company</th>
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<tr>
<td>AgriPro - Syngenta</td>
<td>AP18AX, AP Bigfoot, AP Prolific, AP Roadrunner, AP Solid, SY Legend CL2, SY Wolverine</td>
<td>47765 899th Rd, Atkinson, NE 68713 agriprowheat.com</td>
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<tr>
<td>Armor Seed</td>
<td>AR Iron Eagle 33AX, AR Turret 25</td>
<td>2532 Alexander Dr b, Jonesboro, AR 72401 armorseed.com</td>
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<tr>
<td>Crop Rsch Foundation of WY</td>
<td>Steamboat</td>
<td>P.O. Box 1778, Laramie, WY 82073-1778 wyomingwheat.com</td>
</tr>
<tr>
<td>CROPLAN by Winfield United</td>
<td>CP7017AX, CP7050AX, CP7266AX</td>
<td>500 North 1st Street, Vincent, IA 50594 croplan.com</td>
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<tr>
<td>Husker Genetics</td>
<td>Freeman, Pronghorn, Robidoux, Ruth, Wesley</td>
<td>1071 County Rd G, Ithaca, NE 68033 huskergenetics.unl.edu</td>
</tr>
<tr>
<td>Kansas Wheat Alliance</td>
<td>KS Territory</td>
<td>1990 Kimball Ave. Ste 200, Manhattan, KS 66502 kswheattalliance.org</td>
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<tr>
<td>Limagrain Cereal Seeds</td>
<td>LCS Atomic AX, LCS Julep, LCS Steel AX, LCS Valiant</td>
<td>6414 N. Sheridan, Wichita, KS 67204 limagraincerealseeds.com</td>
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<tr>
<td>Meridian Seeds</td>
<td>MS Maverick, MS Sundown</td>
<td>16553 37th St SE, Suite 3, Mapleton, ND 58059 meridianseeds.com</td>
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<tr>
<td>ND Crop Improvement &amp; Seed Assn</td>
<td>AAC Goldrush</td>
<td>11360 Albrecht Blvd, Fargo, ND 58102 ndcropimprovement.com</td>
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<tr>
<td>NuHorizon Genetics</td>
<td>Epoch</td>
<td>6731 Franklin Rd, Hemingford, NE 69348 nuhorizon genetics.com</td>
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<tr>
<td>NuPride Genetics</td>
<td>Settler CL, Siege</td>
<td>P. O. Box 830911, Lincoln, NE 68583-0911 necrop.org</td>
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<tr>
<td>PlainsGold</td>
<td>Amplify SF, Canvas, Crescent AX, Fortify SF, Kivari AX, Langin, Whistler</td>
<td>Colorado State University 4026 S. Timberline Rd. Suite 100, Fort Collins, CO 80525 plainsgold.com</td>
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<tr>
<td>Polansky Seed, Inc.</td>
<td>High Country, Paradise, Rock Star</td>
<td>P.O. Box 306, Belleville, KS 66935 polanskyseed.com</td>
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<tr>
<td>WestBred</td>
<td>WB4303, WB4401, WB4418, WB4422, WB4483, WB4510CLP, WB4523, WB4595, WB4632, WB4699, WB4733CLP, WB4792</td>
<td>9105 W. Meadow Knoll St., Wichita, KS 67205 westbred.com</td>
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<td>Variety</td>
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1 = Early, 5 = Late, 1 = Tender, 5 = Hardy, 6 = Strong, 9 = Tall, 1 = Short, 9 = Long, 1 = High, 9 = Low
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<th>Variety</th>
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<th>Straw Strength</th>
<th>Plant Height</th>
<th>Coleoptile Length</th>
<th>Bushel Weight</th>
<th>Grain Protein</th>
<th>Hessian Fly</th>
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<td>CSU/PlainsGold</td>
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<td>5</td>
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1 = Early 5 = Late  1 = Tender  5 = Hardy  1=Weak  6=Strong  1 = Short  9 = Tall  1 = Short  9 = Long  1 = High  9 = Low

[1] Variety characteristics and descriptors are provided by the companies.
<table>
<thead>
<tr>
<th>Variety</th>
<th>Origin</th>
<th>Maturity</th>
<th>Winter Hardiness</th>
<th>Straw Strength</th>
<th>Plant Height</th>
<th>Coleoptile Length</th>
<th>Bushel Weight</th>
<th>Grain Protein</th>
<th>Hessian Fly</th>
<th>Leaf Rust</th>
<th>Stem Rust</th>
<th>Soil Borne Mosaic</th>
<th>Wheat Streak Mosaic</th>
<th>Stripe Rust</th>
<th>Tan Spot</th>
<th>Target Environment in Nebraska</th>
<th>Other Information</th>
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<td>Broad adaptation; dry-land and irrigated</td>
<td>Single gene Clearfield for grassy weed pressure, good winter hardiness, stable yields</td>
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<td>Siege</td>
<td>NE</td>
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<td>Eastern; South Central</td>
<td>Moderate disease/pest resistance package, excellent yield and straw strength, acceptable end use</td>
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<td>Excellent Protein and Mill/Bake</td>
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<td>Very good FHB tolerance</td>
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<td>2-gene Clearfield with excellent yield potential and agronomics</td>
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<td>Western Irrigated</td>
<td>New in 2021: Very good yield potential with excellent standability and disease package. Good FHB tolerance</td>
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<td>Excellent drought and heat tolerance. Good sawfly tolerance for light to moderate infestations</td>
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<td>5</td>
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<td>Western Dryland</td>
<td>New for 2022: Very good yield and test weight, with good FHB and BLS.</td>
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<td>Bayer</td>
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<td>6</td>
<td>2</td>
<td>7</td>
<td>4</td>
<td>3</td>
<td>Western Dryland</td>
<td>Excellent yield potential, standability with a very good disease package. Very good FHB tolerance</td>
</tr>
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<td>WB4483</td>
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<td>2-gene Clearfield Solid Stem variety with good yield potential</td>
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<tr>
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<td>5</td>
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<td>Western Dryland</td>
<td>Excellent drought and heat tolerance. Good sawfly tolerance for light to moderate infestations</td>
</tr>
<tr>
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<td>Bayer</td>
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<td>Eastern Dryland/Western Irrigated</td>
<td>New for 2021: Very good yield potential with excellent standability and disease package. Good FHB tolerance</td>
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<td>Excellent drought and heat tolerance. Good sawfly tolerance for light to moderate infestations</td>
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<td>New in 2022: Targeted as WB-Grainfield replacement</td>
</tr>
<tr>
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<td>Bayer</td>
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<td>4</td>
<td>Eastern Dryland</td>
<td>Excellent sawfly tolerance for light to moderate infestations</td>
</tr>
<tr>
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<td>ARS-NE</td>
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<td>7</td>
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<td>1</td>
<td>9</td>
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<td>5</td>
<td>7</td>
<td>Western Dryland</td>
<td>Excellent yield potential, standability with a very good disease package. Very good FHB tolerance</td>
</tr>
<tr>
<td>Whistler</td>
<td>CSU/PlainsGold</td>
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<td>5</td>
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<td>6</td>
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<td>6</td>
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<td>2</td>
<td>3</td>
<td>--</td>
<td>Eastern Dryland</td>
<td>Excellent yield potential, standability with a very good disease package. Very good FHB tolerance</td>
</tr>
</tbody>
</table>

1 = Resistant  9 = Susceptible  Seg = Segregating  R* = Resistant (by marker)
## EAST DRYLAND WHEAT VARIETY TESTS

### SAUNDERS AND SAUNDERS(IM) COUNTIES - 2023

<table>
<thead>
<tr>
<th>Variety</th>
<th>Brand</th>
<th>Average 2023 Yield (bu/a)</th>
<th>Saunders Yield (bu/a)</th>
<th>Saunders IM Yield (bu/a)</th>
<th>Grain Protein (%)</th>
<th>Plant Height (in)</th>
<th>Seed Weight (1000 seeds/lb)</th>
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</thead>
<tbody>
<tr>
<td>LCS Steel AX</td>
<td>Limagrain</td>
<td>37.3</td>
<td>32.0</td>
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<td>WestBred</td>
<td>32.7</td>
<td>30.7</td>
<td>34.6</td>
<td>16.0</td>
<td>22.7</td>
<td>12.3</td>
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<tr>
<td>Turkey</td>
<td>Check</td>
<td>30.8</td>
<td>29.3</td>
<td>32.2</td>
<td>16.9</td>
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<td>13.8</td>
</tr>
<tr>
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<td>UNL-Experimental</td>
<td>29.0</td>
<td>27.3</td>
<td>30.7</td>
<td>14.9</td>
<td>22.7</td>
<td>13.3</td>
</tr>
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<td>29.4</td>
<td>27.2</td>
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<td>16.2</td>
<td>20.7</td>
<td>13.0</td>
</tr>
<tr>
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<td>27.3</td>
<td>26.4</td>
<td>28.1</td>
<td>15.7</td>
<td>22.8</td>
<td>13.2</td>
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<td>Husker Genetics</td>
<td>29.9</td>
<td>26.1</td>
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<td>16.1</td>
<td>21.5</td>
<td>11.6</td>
</tr>
<tr>
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<td>WestBred</td>
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<td>25.8</td>
<td>35.1</td>
<td>14.3</td>
<td>21.9</td>
<td>12.5</td>
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<tr>
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<td>Check</td>
<td>29.2</td>
<td>25.2</td>
<td>33.1</td>
<td>16.3</td>
<td>28.2</td>
<td>12.7</td>
</tr>
<tr>
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<td>32.4</td>
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<td>15.9</td>
<td>23.3</td>
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<td>UNL-Experimental</td>
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<tr>
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<td>NuPride Genetics</td>
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<td>28.3</td>
<td>15.3</td>
<td>21.1</td>
<td>12.7</td>
</tr>
</tbody>
</table>

|                | Average of all entries   | 27.1                      | 23.8                  | 30.4                     | 15.4              | 21.9              | 13.1                      |
|                | Standard error           | 2.7                      | 2.9                  | 2.4                     | 0.3              | 1.0              | 0.3                      |
|                | LSD<sub>0.10</sub>       | 4.5                      | 4.9                  | 4.0                     | 0.5              | 1.6              | 0.6                      |
|                | Coefficient of variation<sup>[4]</sup> | 10.1                    | 12.2                 | 8.0                     | 1.8              | 4.3              | 2.5                      |

---

[1] Yield values corrected to 12% moisture and 60 lb/bu test weight.

[2] Protein corrected to 14% moisture, the correction factor used in analytical standards.

[3] For differences between varieties that are equal to or greater than the LSD<sub>0.10</sub> value, the chance that the difference is significant is 90%.

[4] 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.
# EAST DRYLAND AVERAGE WHEAT PERFORMANCE

<table>
<thead>
<tr>
<th>Variety</th>
<th>Brand</th>
<th>Grain Yield (bu/a)</th>
<th>Bushel Weight (lb/bu)</th>
<th>Grain Protein (%)</th>
<th>Plant Height (inches)</th>
<th>Seed Weight (1000 seeds/lb)</th>
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<tr>
<td><strong>Two-year (2022-2023) averages</strong></td>
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<td>UNL-Experimental</td>
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[1] Across the 2022 and 2023 growing season, overall yield differences were not statistically significant, so no LSD is provided.

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* 2023 Saunders, SaundersIM (2023 drought caused loss of site in Lancaster County.)
* 2022 Saunders, Lancaster
* 2021 Saunders, SaundersIM, Lancaster
## WEST CENTRAL DRYLAND WHEAT VARIETY TESTS
### RED WILLOW, PERKINS, AND KEITH COUNTIES - 2023 (PAGE 1/2)

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<th>Variety</th>
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<th>Average 2023 Yield (bu/a)</th>
<th>Red Willow Yield (bu/a)</th>
<th>Perkins Yield (bu/a)</th>
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**TABLE CONTINUED ON NEXT PAGE**
### WEST CENTRAL DRYLAND WHEAT VARIETY TESTS

**RED WILLOW, PERKINS, AND KEITH COUNTIES - 2023**

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<th>Variety</th>
<th>Brand</th>
<th>Average 2023 Yield (bu/a)</th>
<th>Red Willow Yield (bu/a)</th>
<th>Perkins Yield (bu/a)</th>
<th>Keith Yield (bu/a)</th>
<th>Bushel Weight (lb/bu)</th>
<th>Grain Protein (%)</th>
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**Average of all entries**

- Yield: 72.4
- Red Willow: 70.0
- Perkins: 67.5
- Keith: 79.6
- Bushel Weight: 57.9
- Grain Protein: 10.8
- Plant Height: 30.1
- Seed Weight: 14.6

**Standard error**

- Yield: 4.6
- Red Willow: 3.3
- Perkins: 4.8
- Keith: 5.6
- Bushel Weight: 0.7
- Grain Protein: 0.5
- Plant Height: 1.2
- Seed Weight: 0.8

**LSD**

- Red Willow: 7.6
- Perkins: 5.4
- Keith: 8.0
- Bushel Weight: 0.7
- Grain Protein: 1.1
- Plant Height: 0.8
- Seed Weight: 1.2

**Coefficient of variation**

- Yield: 6.3
- Red Willow: 4.7
- Perkins: 7.2
- Keith: 7.0
- Bushel Weight: 4.2
- Grain Protein: 4.1
- Plant Height: 5.1
- Seed Weight: 5.1

---

[1] Yield values corrected to 12% moisture and 60 lb/bu test weight.

[2] Protein corrected to 14% moisture, the correction factor used in analytical standards.

[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] 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.
## WEST CENTRAL DRYLAND AVERAGE WHEAT PERFORMANCE

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<th>Grain Protein (%)</th>
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**Two-year (2022-2023) averages***

**Average of all entries**: 67.3  58.3  12.4  28.8  15.1

**Standard error**: 3.4  0.5  0.3  0.7  0.5

**LSD**<sub>0.10</sub>: 5.6  0.9  0.6  1.2  0.8

**Coefficient of variation**: 5.0  0.9  2.8  2.4  3.3

---

*TABLE CONTINUED ON NEXT PAGE*
## WEST CENTRAL DRYLAND AVERAGE WHEAT PERFORMANCE

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<th>Grain Protein (%)</th>
<th>Plant Height (inches)</th>
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### Three-year (2021-2023) averages*

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* 2023 Red Willow, Keith, Perkins
* 2022 Keith, Perkins, Lincoln
* 2021 Red Willow, Perkins, Lincoln
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TABLE CONTINUED ON NEXT PAGE
## PANHANDLE (WEST) DRYLAND WHEAT VARIETY TESTS
DEUEL, CHEYENNE, CHEYENNE(IM), KIMBALL, BANNER, & BOX BUTTE COUNTIES - 2023 (PAGE 2/2)

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[^1] Yield values corrected to 12% moisture and 60 lb/bu test weight.
[^2] Protein corrected to 14% moisture, the correction factor used in analytical standards.
[^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] 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.
## PANHANDLE DRYLAND AVERAGE WHEAT PERFORMANCE (1/2)

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**Average of all entries**
- Grain Yield (bu/a): 52.2
- Bushel Weight (lb/bu): 56.5
- Grain Protein (%): 14.2
- Plant Height (inches): 27.6
- Seed Weight (1000 seeds/lb): 18.9

**Standard error**
- Grain Yield (bu/a): 2.4
- Bushel Weight (lb/bu): 0.5
- Grain Protein (%): 0.3
- Plant Height (inches): 0.6
- Seed Weight (1000 seeds/lb): 0.7

**LSD sub 0.10**
- Grain Yield (bu/a): 4.0
- Bushel Weight (lb/bu): 0.8
- Grain Protein (%): 0.5
- Plant Height (inches): 1.0
- Seed Weight (1000 seeds/lb): 1.1

**Coefficient of variation**
- Grain Yield (bu/a): 4.7
- Bushel Weight (lb/bu): 0.9
- Grain Protein (%): 2.0
- Plant Height (inches): 2.3
- Seed Weight (1000 seeds/lb): 3.6
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* 2023 Deuel, Cheyenne, CheyenneIM, Kimball, Banner, Box Butte
* 2022 Cheyenne, CheyenneIM, Kimball, Banner
* 2021 Deuel, Cheyenne, CheyenneIM, Kimball, Banner, Box Butte
## WEST IRRIGATED WHEAT VARIETY TESTS
### BOX BUTTE AND PERKINS COUNTIES - 2023

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Average of all entries 81.0 85.8 76.2 54.7 12.9 32.7 14.5
Standard error 4.9 3.7 6.0 1.1 0.5 1.7 0.9
LSD\(_{0.05}\)\(^{[3]}\) 8.1 6.1 10.0 1.9 0.8 2.9 1.6
Coefficient of variation \(^{[4]}\) 6.1 4.3 7.9 2.1 3.7 5.3 6.1

\(^{[1]}\) Yield values corrected to 12% moisture and 60 lb/bu test weight.

\(^{[2]}\) Protein corrected to 14% moisture, the correction factor used in analytical standards.

\(^{[3]}\) For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

\(^{[4]}\) 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.
## WEST IRRIGATED AVERAGE WHEAT PERFORMANCE

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* 2023 Box Butte  
* 2021 Box Butte
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### 2023 WHEAT GRAIN YIELD* AT ALL LOCATIONS TESTED (2/2)

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Average of all entries 24 30 70 67 80 73 64 70 50 75 95 86 76

*Yield values are calculated in bushels/acre and corrected to 12% moisture.
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*Protein corrected to 14% moisture, the correction factor used in analytical standards.
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## CHEYENNE COUNTY SAWFLY RATINGS WINTER WHEAT VARIETY TRIAL - 2023

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[^1]: (1=no damage, 9=plot killed)
### CHEYENNE COUNTY SAWFLY RATINGS WINTER WHEAT VARIETY TRIAL - 2023 (continued)

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[^1] Ratings were conducted no more than 1 week before harvest using a 1-9 scale where 1 indicates little to no cutting of stems/lodging while 9 indicates a plot that is completely cut/lodged. Two- and three-year averages include data collected in 2020 and 2021 for varieties tested in those years. This data is meant to provide guidance in variety selection but may not reflect absolute sawfly impacts on the varieties.
### 2023 Winter Triticale Variety Trials

#### Lincoln, Mead, and Sidney, NE

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<sup>[1]</sup> There is no grain yield data for Lincoln due to drought.

<sup>[2]</sup> For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 95%.

<sup>[3]</sup> 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.
UNIVERSITY OF NEBRASKA VARIETY TESTING PROGRAM

http://cropwatch.unl.edu/varietytest

Check out the Wheat Variety App at varietytesting.unl.edu!

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University of Nebraska-Lincoln Extension
Institute of Agriculture and Natural Resources
Department of Agronomy & Horticulture

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