# Keith County Rainfed
# 2022 Winter Wheat Variety Trial

| Name | Company | Yield (bu/ac)[1] | Test Weight (lb/bu) | Protein (%)[2] | Plant Height (in) | Seed Weight (1000 seeds/lb) |
|---|---|---|---|---|---|---|
| **High Country** | Polansky Seed, Inc. | **78.8** | **59.2** | 13.1 | 27.4 | **18.1** |
| **Langin** | PlainsGold | **78.3** | 57.7 | 14.7 | 28.2 | 15.6 |
| **SY Wolverine** | AgriPro | **75.2** | **59.0** | 15.6 | 28.6 | 15.8 |
| **LCS Atomic AX** | Limagrain Cereal Seeds | **73.8** | **59.3** | 13.4 | 26.8 | 13.9 |
| **CP7017AX** | CROPLAN by Winfield United | 71.7 | **59.5** | 14.4 | 27.5 | 14.8 |
| **KS Hamilton** | Kansas Wheat Alliance | 70.6 | **59.2** | 14.4 | 27.2 | 16.0 |
| **SY Legend** | AgriPro | 70.1 | 58.3 | 15.6 | 28.3 | 16.1 |
| **LCS Steel AX** | Limagrain Cereal Seeds | 69.8 | 58.0 | 15.0 | 30.3 | **16.6** |
| **Rock Star** | Polansky Seed, Inc. | 69.5 | **58.6** | 15.8 | 29.1 | 14.4 |
| **NE16562** | UNL-Experimental | 69.5 | 57.7 | 14.5 | 28.9 | 16.1 |
| **NHH17450** | UNL-Experimental | 68.1 | 58.0 | 14.7 | 30.6 | 14.4 |
| **CP7869** | CROPLAN by Winfield United | 67.5 | 58.0 | 16.1 | 27.9 | 13.9 |
| **AP Bigfoot** | AgriPro | 64.9 | **58.9** | 15.2 | 28.2 | **17.7** |
| **MS Maverick** | Meridian Seeds | 64.0 | 58.3 | 16.0 | 29.2 | 14.6 |
| **Settler CL** | Husker Genetics | 63.7 | **58.6** | 15.1 | 27.3 | 13.5 |
| **Robidoux** | Husker Genetics | 63.6 | 57.9 | 15.6 | 30.0 | 14.6 |
| **Freeman** | Husker Genetics | 63.5 | 56.8 | 14.7 | 27.6 | 15.3 |
| **Crescent AX** | PlainsGold | 63.3 | 58.2 | 14.5 | 28.7 | 14.0 |
| **CPX72166AX** | CROPLAN by Winfield United | 62.2 | 56.8 | 14.3 | 27.1 | 15.6 |
| **AP 18AX** | AgriPro | 61.9 | 57.1 | 15.0 | 28.5 | 14.4 |
| **LCS Helix AX** | Limagrain Cereal Seeds | 61.8 | **59.0** | 14.6 | 27.3 | 14.5 |
| **NHH19668** | UNL-Experimental | 61.7 | 57.5 | 14.6 | 26.9 | 13.4 |
| **NE17443** | UNL-Experimental | 61.6 | 57.8 | 15.6 | 23.7 | 15.6 |
| **WB4792** | WestBred | 61.2 | 57.8 | 15.0 | 29.1 | 14.9 |
| **WB4418** | WestBred | 61.2 | 56.6 | 15.6 | 27.4 | **18.4** |
| **LCS Chrome** | Limagrain Cereal Seeds | 60.7 | **58.9** | 16.0 | 28.1 | **17.3** |
| **MS Iceman** | Meridian Seeds | 60.4 | **59.2** | 16.3 | 26.8 | **16.7** |
| **Wesley** | Husker Genetics | 59.4 | 56.6 | 16.3 | 25.6 | 16.2 |
| **CP7050AX** | CROPLAN by Winfield United | 59.2 | **58.7** | 15.0 | 27.1 | 16.1 |
| **AP Roadrunner** | AgriPro | 58.8 | 57.0 | 15.8 | 27.7 | 16.0 |
| **Epoch** | NuHorizon | 58.7 | 57.2 | 16.0 | 26.7 | 15.9 |

[1] Yield values corrected to 12%. Bolded values indicate highest LSD grouping. **Reminder!** Plot yields are often higher than surrounding field because area between plots provides more soil moisture, but the relative performance and differences are accurate.
[2] Protein corrected to 14% moisture, the correction factor used in analytical standards.

| | | | | | | |
|---|---|---|---|---|---|---|
| **WB4595** | WestBred | 58.5 | 58.1 | 15.5 | 29.0 | 13.9 |
| **LCS Runner** | Limagrain Cereal Seeds | 58.0 | 57.8 | 15.4 | 29.1 | 14.6 |
| **NE17441** | UNL-Experimental | 57.6 | **58.9** | 15.1 | 28.9 | 15.0 |
| **NHH17612** | UNL-Experimental | 57.2 | **58.5** | 15.6 | 27.6 | **16.8** |
| **WB4510CLP** | WestBred | 56.1 | **59.1** | 15.9 | 27.7 | **16.9** |
| **WB4309** | WestBred | 55.7 | 57.0 | 15.2 | 26.6 | 15.2 |
| **Scout 66** | Check | 48.8 | 58.3 | 14.8 | 31.2 | 13.3 |
| **WB4422** | WestBred | 48.5 | 55.6 | **17.5** | 29.0 | 15.5 |
| **Ruth** | Husker Genetics | 48.1 | 56.6 | 16.3 | 30.5 | **17.5** |
| **PSB13NEDH-14-83** | UNL-Experimental | 47.7 | 56.3 | **17.4** | 30.3 | 12.9 |
| **LCS Valiant** | Limagrain Cereal Seeds | 46.7 | 56.4 | **17.8** | 26.3 | 15.2 |
| **NW15443** | UNL-Experimental | 46.7 | 55.6 | 15.4 | 28.5 | 14.5 |
| **Turkey** | Check | 44.7 | 56.2 | **16.9** | 33.6 | 16.1 |
| **LCS Link** | Limagrain Cereal Seeds | 36.9 | 54.7 | **17.0** | 28.0 | 15.5 |
| | | | | | | |
| | Standard Error | 4.2 | 0.7 | 0.5 | 1.2 | 1.1 |
| | LSD[3] | 6.9 | 1.1 | 0.9 | 1.9 | 1.8 |
| | Mean[4] | 60.8 | 57.8 | 15.4 | 28.2 | 15.4 |
| | CV[5] | 6.8 | 1.2 | 3.3 | 4.1 | 6.9 |
| | Reps | 4 | 4 | 2 | 4 | 2 |

**SITE INFORMATION**

| | |
|---|---|
| Collaborator: | Toby Spiehs, UNL WCREC Water Resource Lab, Brule, NE |
| Planting Date: | September 20, 2021 |
| Seeding Rate: | 1.0 million seeds/acre |
| Harvest Date: | July 8, 2022 |
| Fertility: | 70 lb/a 40 Rock in-furrow at planting; 60 lb N streamed in spring |
| Herbicide/Fungicides: | Starane and Patriot at labeled rates |
| Soil Type: | Kuma loam |
| GPS: | 41.163308, -101.997725 |
| Planting Info: | Drilled into tilled fallowed corn stalks with double disk no-till drill on 10" centers |
| Notes on Trial: | One of the better sites of 2022, though still impacted by drought and low precipitation |

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[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.

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