



UNIVERSITY of NEBRASKA  
LINCOLN

## Kimball County Rainfed 2024 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) <sup>1</sup>	Test Weight (lb/bu)	Protein (%) <sup>2</sup>	Plant Height (in)
Whistler	PlainsGold	<b>43.4</b>	54.7	7.8	25.9
Kivari AX	PlainsGold	<b>42.9</b>	54.6	8.1	24.4
Amplify SF	PlainsGold	<b>39.8</b>	56.3	8.9	25.8
Settler CL	NuHorizon Genetics	<b>39.3</b>	54.6	8.7	25.9
AP Solid	AgriPro	<b>38.6</b>	<b>56.7</b>	8.3	24.4
AP Roadrunner	AgriPro	<b>38.3</b>	54.8	8.2	26.9
WB4510CLP	WestBred	<b>37.6</b>	<b>57.9</b>	8.4	26.0
WB4733CLP	WestBred	<b>37.2</b>	53.2	<b>9.6</b>	24.9
NI17410	UNL	<b>37.1</b>	56.0	<b>9.3</b>	26.8
CP7017AX	Croplan	<b>37.1</b>	56.0	7.9	25.6
WB4595	WestBred	<b>37.0</b>	55.5	8.7	24.6
NHH19651	UNL	<b>37.0</b>	54.3	<b>9.5</b>	30.7
Pronghorn	NuHorizon Genetics	36.4	<b>56.7</b>	<b>9.4</b>	27.9
AP 24AX	AgriPro	36.4	53.8	7.6	26.8
CO18042RA	PlainsGold	36.2	55.4	7.3	22.9
AP Sunbird	AgriPro	35.8	<b>56.9</b>	8.3	25.0
LCS Julep	Limagrain	35.6	55.8	8.9	26.9
AR Iron Eagle 22AX	Armor	35.5	<b>56.5</b>	7.6	23.1
NW15443	UNL	35.4	54.4	8.0	26.3
Canvas	PlainsGold	34.8	<b>57.5</b>	8.5	24.3
NE19454	UNL	34.5	54.9	<b>9.4</b>	28.2
WB4444	WestBred	34.1	55.6	<b>9.5</b>	25.6
Windom SF	PlainsGold	33.9	53.8	8.6	23.4
Robidoux	NuHorizon Genetics	33.7	55.5	7.4	25.8
SY Legend CL2	AgriPro	33.2	55.4	<b>9.7</b>	24.4
LCS Atomic AX	Limagrain	32.7	<b>56.7</b>	8.1	25.7
LCS Helix AX	Limagrain	32.4	55.8	8.8	23.4
MS Maverick	Meridian Seeds	32.2	55.1	8.0	23.2
NEB145-12	UNL	32.1	54.9	8.8	27.4
WB4422	WestBred	32.1	<b>56.4</b>	8.8	25.3
NE17441	UNL	32.0	55.3	<b>9.4</b>	26.0
AP Bigfoot	AgriPro	31.9	56.2	<b>9.3</b>	23.3
WB4347	WestBred	31.6	56.1	9.1	26.9

<sup>1</sup> Yield values corrected to 12% moisture content. Bolded values indicate highest LSD grouping.

<sup>2</sup> Protein corrected to 14% moisture content, the correction factor used in analytical standards.

<b>WB4792</b>	WestBred	31.3	54.5	8.4	23.2
<b>NE16562</b>	UNL	31.1	55.0	<b>9.9</b>	24.4
<b>Crescent AX</b>	PlainsGold	30.9	55.3	7.9	25.5
<b>NE18455</b>	UNL	30.5	54.5	9.2	25.2
<b>LCS Steel AX</b>	Limagrain	29.5	54.6	7.9	25.8
<b>LCS Radar</b>	Limagrain	29.0	55.1	<b>10.0</b>	22.7
<b>WB4445CLP</b>	WestBred	28.9	55.8	<b>9.3</b>	25.0
<b>Scout 66</b>	Check	28.9	56.0	8.5	27.6
<b>CP7220</b>	Croplan	28.7	54.3	9.1	24.7
<b>NSF22115</b>	UNL	28.2	54.8	<b>9.4</b>	26.3
<b>Turkey</b>	Check	28.2	<b>57.0</b>	<b>9.7</b>	25.9
<b>NE17544</b>	UNL	28.1	55.0	9.0	24.4
<b>WB4483</b>	WestBred	27.9	51.5	<b>10.6</b>	24.7
<b>NSF22102</b>	UNL	27.9	54.9	8.2	25.8
<b>NE19412</b>	UNL	27.8	55.0	<b>9.6</b>	25.4
<b>NE19590</b>	UNL	27.5	55.4	8.0	26.0
<b>NE19619</b>	UNL	27.3	54.4	8.3	26.9
<b>NSF22113</b>	UNL	27.1	55.1	<b>9.3</b>	28.1
<b>Wesley</b>	Husker Genetics	27.0	54.3	8.5	23.4
<b>NHH19668</b>	UNL	27.0	56.2	9.1	25.9
<b>NE18435</b>	UNL	26.7	56.2	8.8	25.0
<b>Steamboat</b>	Crop Research Foundation of Wyoming, Inc.	24.2	<b>57.3</b>	8.3	24.2
<b>NE Prism CLP</b>	NuHorizon Genetics	22.7	55.7	<b>9.8</b>	24.5
<b>CP7266AX</b>	Croplan	22.3	55.0	8.4	25.2
<b>Ruth</b>	NuHorizon Genetics	21.9	54.5	<b>10.3</b>	25.2
<b>AR Iron Eagle 33AX</b>	Armor	21.5	55.1	8.6	24.7
<b>NE19455</b>	UNL	20.4	52.6	<b>10.6</b>	24.7
	<b>Standard Error</b>	4.0	0.9	0.8	1.6
	<b>LSD<sup>3</sup></b>	6.6	1.5	1.3	2.7
	<b>Mean<sup>4</sup></b>	32.7	55.4	8.8	25.4
	<b>CV<sup>5</sup></b>	12.1	1.7	8.9	6.3
	<b>Reps</b>	4 <sup>6</sup>	4	2	4

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

<sup>4</sup> Mean performance of all plots in the trial.

<sup>5</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.

<sup>6</sup> Roughly 25-30% of plots were lost due to implement traffic through the plot area and affected plots were removed from the final analysis.

**SITE INFORMATION**

Collaborator:	Chad Bomberger and Freeburg Farms
Planting Date:	9/25/2023
Seeding Rate:	900,000 seeds/a
Harvest Date:	7/26/2024
Fertility:	50 lb/a 40 Rock in-furrow at planting
Herbicide/Fungicides:	NA
Soil Type:	Rosebud-Canyon loams, Alliance loam
GPS:	41.407545, -104.002413
Planting Info:	Drilled 1.5" into tilled corn fallow with a no-till double disk drill on 10" centers.
Notes on Trial:	Very heavy tillage was used and may have impacted initial stand. Dry conditions at planting and throughout season contributed to decreased tillering in the spring and lower yields. Part of the field was impacted by implement traffic so affected plots were removed from the final analysis. Recommend consulting regional and other site reports to make final decisions. Given variable yield results and higher CV, kernel/grain weight was not evaluated.

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