



UNIVERSITY of NEBRASKA  
LINCOLN

## Kimball County Rainfed 2023 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) <sup>1</sup>	Test Weight (lb/bu)	Protein (%) <sup>2</sup>	Plant Height (in)	Seed Weight (1000 seeds/lb)
<b>WB4483</b>	WestBred	<b>64.7</b>	<b>58.6</b>	11.4	30.7	16.2
<b>ARMOR EXP55</b>	ARMOR	<b>63.9</b>	55.7	11.2	28.0	12.3
<b>WB4595</b>	WestBred	<b>63.2</b>	<b>57.9</b>	10.8	29.6	14.6
<b>CP7017AX</b>	CROPLAN	<b>61.2</b>	<b>57.4</b>	10.8	28.0	16.0
<b>Kivari AX</b>	PlainsGold	<b>59.7</b>	55.6	11.0	30.2	15.5
<b>AAC Goldrush</b>	North Dakota Crop Improvement	<b>58.9</b>	<b>57.3</b>	12.0	31.7	15.4
<b>Wesley</b>	Husker Genetics	57.7	54.6	<b>12.5</b>	27.4	13.4
<b>Settler CL</b>	NuPride Genetics	57.4	<b>56.8</b>	11.9	29.0	14.1
<b>LCS Steel AX</b>	Limagrain	56.5	<b>56.9</b>	11.4	32.1	16.4
<b>Whistler</b>	PlainsGold	56.0	<b>56.8</b>	11.3	32.2	13.6
<b>NW15443</b>	UNL-Experimental	55.0	55.3	11.3	30.2	12.9
<b>SY Wolverine</b>	AgriPro	54.7	54.9	11.3	27.1	14.5
<b>NE17441</b>	UNL-Experimental	54.4	<b>56.6</b>	11.6	28.3	15.3
<b>MS Maverick</b>	Meridian Seeds	53.8	55.9	11.6	30.6	13.6
<b>Amplify SF</b>	PlainsGold	53.3	<b>56.5</b>	11.9	28.3	14.8
<b>Robidoux</b>	Husker Genetics	52.9	55.5	11.8	30.8	14.3
<b>NE19619</b>	UNL-Experimental	52.9	55.9	12.4	33.4	13.7
<b>NE17544</b>	UNL-Experimental	52.5	55.9	11.7	29.3	14.5
<b>Canvas</b>	PlainsGold	52.1	<b>57.3</b>	11.8	26.6	15.8
<b>AP Solid</b>	AgriPro	51.2	54.5	12.1	27.4	15.5
<b>NHH19668</b>	UNL-Experimental	51.2	<b>56.7</b>	12.4	28.7	13.7
<b>AP Bigfoot</b>	AgriPro	51.1	54.8	12.1	27.1	17.6
<b>NE18455</b>	UNL-Experimental	50.3	54.9	12.0	27.7	16.1
<b>WB4733CLP</b>	WestBred	50.2	54.8	12.0	25.9	17.4
<b>NHH17450</b>	UNL-Experimental	49.5	54.6	11.9	30.5	15.5
<b>NE16562</b>	UNL-Experimental	49.5	55.0	11.7	27.5	15.3
<b>Langin</b>	PlainsGold	49.3	53.3	11.4	26.4	15.5
<b>WB4792</b>	WestBred	48.9	55.2	11.3	29.5	15.7
<b>Crescent AX</b>	PlainsGold	48.5	<b>56.8</b>	11.6	26.4	13.6
<b>LCS Atomic AX</b>	Limagrain	48.4	54.5	11.6	25.3	14.7
<b>Steamboat</b>	Crop Research Foundation of Wyoming, Inc.	48.2	<b>56.6</b>	11.3	28.4	14.0

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

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

<b>WB4418</b>	WestBred	47.5	53.0	12.2	27.1	17.6
<b>Freeman</b>	Husker Genetics	46.3	55.5	12.2	27.9	14.1
<b>WB4422</b>	WestBred	46.1	<b>57.5</b>	<b>12.8</b>	27.4	13.9
<b>WB4510CLP</b>	WestBred	45.7	56.2	11.6	28.9	14.7
<b>AP 18AX</b>	AgriPro	43.4	54.0	11.7	27.0	14.8
<b>Pronghorn</b>	Husker Genetics	43.4	55.1	<b>12.5</b>	33.9	15.3
<b>MS Sundown</b>	Meridian Seeds	43.1	54.8	12.4	27.9	17.0
<b>LCS Julep</b>	Limagrain	42.9	53.7	<b>12.9</b>	27.3	14.7
<b>SY Legend CL2</b>	AgriPro	41.5	55.9	<b>12.7</b>	26.5	13.4
<b>Turkey</b>	Check	41.5	55.0	<b>13.3</b>	35.0	15.5
<b>ARMOR EXP65AX</b>	ARMOR	40.9	54.3	11.5	28.9	16.5
<b>CP7050AX</b>	CROPLAN	40.6	53.0	<b>13.2</b>	27.0	17.2
<b>Ruth</b>	Husker Genetics	40.5	53.8	<b>12.7</b>	28.6	15.2
<b>Scout 66</b>	Check	40.2	53.3	<b>13.2</b>	33.8	15.8
<b>NHH17612</b>	UNL-Experimental	40.0	55.3	<b>12.8</b>	28.3	16.3
<b>CP7266AX</b>	CROPLAN	38.4	54.1	<b>12.5</b>	28.6	15.6
<b>Fortify SF</b>	PlainsGold	37.5	52.7	<b>12.7</b>	27.1	19.4
<b>LCS Valiant</b>	Limagrain	37.3	52.4	<b>12.8</b>	26.4	14.6
	<b>Standard Error</b>	3.7	1.3	0.5	1.1	0.7
	<b>LSD<sup>3</sup></b>	6.1	2.2	0.8	1.8	1.2
	<b>Mean<sup>4</sup></b>	49.7	55.4	12.0	28.8	15.2
	<b>CV<sup>5</sup></b>	7.4	2.4	4.2	3.8	4.6
	<b>Reps</b>	4	4	2	4	2

<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 entries 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.

**SITE INFORMATION**

Collaborator: Chad Bomberger, Freeburg Farms, Albin, WY  
Planting Date: September 21, 2022  
Seeding Rate: 900,000 seeds/acre  
Harvest Date: August 12, 2023  
Fertility: About 30 lbs P/A as 40 rock  
Herbicide/Fungicides: 2 pints Prowl H2O + LV6 in spring  
Soil Type: Satanta fine sandy loam  
GPS: 41.393448, -103.993727  
Planting Info: Drilled 1.5” into dry soil, using no-till drill on 10” centers into tilled corn fallow.  
Notes on Trial: Decent fall growth despite dry seeding conditions. Some spring rains improved yields, but continued rains during July delayed harvest, contributing to overall lower than expected mean and reduced test weights.

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