



UNIVERSITY of NEBRASKA  
LINCOLN

## Cheyenne 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)	Sawfly Damage Score <sup>3</sup>
WB4595	WestBred	<b>76.5</b>	<b>59.3</b>	11.5	31.1	17.4	6.1
Kivari AX	PlainsGold	<b>74.0</b>	56.9	10.7	30.2	16.7	5.0
NE17544	UNL-Experimental	<b>72.9</b>	<b>58.2</b>	12.5	31.7	15.3	5.5
LCS Steel AX	Limagrain	<b>72.5</b>	57.1	11.6	31.6	18.3	<b>4.8</b>
MS Maverick	Meridian Seeds	<b>72.4</b>	<b>58.8</b>	13.1	30.4	14.3	6.5
WB4483	WestBred	<b>72.0</b>	55.4	12.4	30.5	20.2	5.3
ARMOR EXP55	ARMOR	<b>69.7</b>	<b>58.4</b>	12.4	27.4	13.7	6.0
NHH17612	UNL-Experimental	<b>69.2</b>	<b>58.6</b>	12.9	30.0	17.4	5.0
Whistler	PlainsGold	<b>69.1</b>	57.4	12.9	31.9	17.4	6.0
NE16562	UNL-Experimental	<b>68.9</b>	56.8	<b>13.4</b>	29.0	18.1	<b>4.1</b>
NE19619	UNL-Experimental	<b>68.2</b>	56.5	<b>13.4</b>	32.7	14.9	6.1
WB4510CLP	WestBred	<b>68.1</b>	<b>59.5</b>	12.1	31.3	16.4	5.5
Wesley	Husker Genetics	<b>67.9</b>	57.0	<b>13.7</b>	28.8	14.7	<b>4.0</b>
AAC Goldrush	North Dakota Crop Improvement	66.8	<b>58.6</b>	<b>13.7</b>	32.2	17.4	5.8
MS Sundown	Meridian Seeds	65.9	<b>58.3</b>	12.6	29.8	17.3	5.9
NW15443	UNL-Experimental	65.4	56.5	13.0	31.6	15.1	6.0
WB4733CLP	WestBred	65.3	56.5	12.8	29.1	17.2	<b>4.5</b>
ARMOR EXP65AX	ARMOR	65.2	56.4	12.5	29.4	17.6	4.9
Robidoux	Husker Genetics	65.1	55.4	12.2	30.9	17.2	6.0
NHH19668	UNL-Experimental	64.8	57.8	12.9	28.7	17.8	6.3
Amplify SF	PlainsGold	64.7	57.6	12.3	29.7	16.4	<b>4.7</b>
Freeman	Husker Genetics	64.6	54.9	12.6	29.5	17.3	5.5
Fortify SF	PlainsGold	64.3	56.2	11.1	29.8	17.8	<b>4.6</b>

<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.

<sup>3</sup> Sawfly damage rated where 1 indicates little to no cutting of stems/lodging while 9 indicates a plot that is completely cut/lodged.

<b>Settler CL</b>	NuPride Genetics	64.3	<b>58.5</b>	12.9	29.9	14.4	5.5
<b>WB4418</b>	WestBred	64.1	56.1	12.2	26.0	19.0	<b>4.8</b>
<b>WB4422</b>	WestBred	64.1	<b>58.7</b>	13.3	28.7	17.7	6.0
<b>SY Legend CL2</b>	AgriPro	63.7	57.2	12.7	28.1	17.5	5.6
<b>Steamboat</b>	Crop Research Foundation of WY, Inc.	62.9	57.0	11.7	31.2	16.4	5.3
<b>NE17441</b>	UNL-Experimental	62.2	<b>58.0</b>	<b>13.5</b>	30.3	15.5	5.7
<b>AP Bigfoot</b>	AgriPro	62.1	57.1	13.3	28.9	18.6	5.7
<b>CP7017AX</b>	CROPLAN	61.4	<b>58.9</b>	11.6	27.0	16.6	5.7
<b>CP7266AX</b>	CROPLAN	61.3	57.1	12.8	29.3	18.0	5.2
<b>LCS Julep</b>	Limagrain	61.2	57.9	<b>13.6</b>	27.8	16.6	5.0
<b>WB4792</b>	WestBred	61.2	57.9	12.6	28.4	17.6	5.2
<b>Canvas</b>	PlainsGold	61.1	57.5	12.7	29.1	18.3	6.0
<b>LCS Valiant</b>	Limagrain	60.8	55.3	<b>13.7</b>	28.1	17.4	6.0
<b>Langin</b>	PlainsGold	60.3	54.6	12.0	27.9	18.1	5.7
<b>SY Wolverine</b>	AgriPro	59.8	56.5	<b>13.9</b>	27.7	16.4	<b>4.8</b>
<b>NE18455</b>	UNL-Experimental	59.6	56.3	12.7	28.5	20.2	6.0
<b>Crescent AX</b>	PlainsGold	59.6	<b>58.0</b>	12.8	29.3	15.1	5.6
<b>NHH17450</b>	UNL-Experimental	58.6	57.5	12.4	30.0	17.7	6.6
<b>Turkey</b>	Check	57.7	57.1	<b>13.8</b>	39.1	16.1	7.0
<b>Ruth</b>	Husker Genetics	57.5	56.6	13.0	29.0	18.3	6.0
<b>AP Solid</b>	AgriPro	56.5	<b>59.0</b>	13.2	26.6	18.0	5.1
<b>Pronghorn</b>	Husker Genetics	56.3	<b>58.9</b>	<b>13.6</b>	33.9	15.3	6.5
<b>AP 18AX</b>	AgriPro	53.8	55.3	13.0	28.8	16.8	<b>4.5</b>
<b>CP7050AX</b>	CROPLAN	51.0	57.1	<b>14.0</b>	27.3	19.5	4.9
<b>LCS Atomic AX</b>	Limagrain	49.3	55.5	13.1	27.4	18.1	5.2
<b>Scout 66</b>	Check	47.9	55.6	<b>14.3</b>	37.8	17.3	7.0

	<b>Standard Error</b>	5.4	0.9	0.5	1.3	1.4	0.5
	<b>LSD<sup>4</sup></b>	9.0	1.5	0.9	2.2	2.4	0.8
	<b>Mean<sup>5</sup></b>	63.2	57.1	12.8	29.8	17.2	5.5
	<b>CV<sup>6</sup></b>	8.6	1.6	4.0	4.4	8.4	NA
	<b>Reps</b>	4	4	2	4	2	4

**SITE INFORMATION**

Collaborator: Jake Hansen, High Plains Ag Lab, Sidney, NE  
 Planting Date: September 20, 2022  
 Seeding Rate: 900,000 seeds/acre  
 Harvest Date: July 31, 2023  
 Fertility: 300 lb/a 32-0-0 streamed in August; 30 lb/a P as 40 Rock in-furrow at planting; 10 lb N/a with 2.4-D in April  
 Herbicide/Fungicides: 32 oz RoundUp, 8 oz 2,4-D LV6 and 1% Class Act preplant; 2 pt Prowl H2O and 6 oz 2,4-D LV6 in early May  
 Soil Type: Alliance loam  
 GPS: 41.235923, -103.002828  
 Planting Info: Drilled 1-1.25" into no-till fallowed corn stubble with double disk no-till drill on 10" centers  
 Notes on Trial: Dusted into fairly dry soil in fall, decent fall stand and winter survival. Tillered well in spring and had rains during pollination and grain filling, helping to increase yields. Late season rains decreased test weight. Scab (FHB) observed in trial as well as in the area along with some stem rust. Leaf rust pressure moderately low and very little WSMV observed. Surrounding field was planted with Ruth and yielded approximately 60 bu/a.

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<sup>4</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>5</sup> Mean performance of all entries in the trial.

<sup>6</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.