



UNIVERSITY of NEBRASKA  
LINCOLN

## Perkins County Irrigated 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)
WB4422	WestBred	<b>93.4</b>	<b>58.3</b>	13.0	30.0	12.4
LCS Steel AX	Limagrain	<b>91.8</b>	<b>56.7</b>	11.9	30.1	14.0
ARMOR EXP55	ARMOR	<b>90.4</b>	<b>55.7</b>	12.3	29.7	11.2
NHH17612	UNL-Experimental	<b>86.9</b>	<b>56.5</b>	13.2	32.0	13.6
Wesley	Husker Genetics	82.7	<b>56.1</b>	13.2	28.3	11.6
LCS Julep	Limagrain	82.3	<b>55.8</b>	13.2	28.7	12.1
NE18435	UNL-Experimental	80.8	<b>55.8</b>	11.9	28.5	12.5
WB4595	WestBred	78.9	<b>57.1</b>	11.6	28.7	14.2
NE19590	UNL-Experimental	78.6	<b>55.8</b>	12.6	34.5	13.2
NE17441	UNL-Experimental	77.8	<b>57.1</b>	12.8	31.7	12.2
NHH17450	UNL-Experimental	77.7	<b>56.2</b>	13.1	31.9	13.0
Canvas	PlainsGold	77.4	55.0	12.4	28.2	14.8
CP7017AX	CROPLAN	76.5	54.8	11.4	24.7	13.8
NE19454	UNL-Experimental	76.4	55.3	13.1	29.8	13.4
ARMOR EXP65AX	ARMOR	76.4	54.1	12.3	31.5	13.9
LCS Atomic AX	Limagrain	75.6	<b>55.8</b>	12.6	26.1	11.8
WB4699	WestBred	75.5	53.2	12.0	29.5	15.6
NI17410	UNL-Experimental	75.3	55.6	12.7	30.7	12.7
CP7266AX	CROPLAN	72.2	<b>55.9</b>	12.2	29.2	13.5
WB4523	WestBred	72.1	50.6	11.7	24.3	15.5
Epoch	NuHorizon Genetics	72.1	54.8	12.0	26.9	13.6
Turkey	Check	72.1	<b>56.8</b>	<b>14.5</b>	39.2	12.1
WB4418	WestBred	71.5	53.0	12.3	27.1	15.7
WB4303	WestBred	71.5	51.2	12.4	25.5	12.5
Scout 66	Check	70.1	<b>57.5</b>	<b>14.2</b>	39.6	11.3
CP7050AX	CROPLAN	66.5	54.7	13.4	26.5	14.2
Crescent AX	PlainsGold	65.3	52.8	12.7	28.8	12.9
SY Wolverine	AgriPro	62.5	51.1	12.7	26.1	14.5
LCS Valiant	Limagrain	60.5	52.2	12.7	25.5	14.9

<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>Standard Error</b>	6.0	1.6	0.6	1.8	0.9
	<b>LSD<sup>3</sup></b>	10.0	2.6	1.0	3.0	1.5
	<b>Mean<sup>4</sup></b>	76.2	55.0	12.6	29.4	13.3
	<b>CV<sup>5</sup></b>	7.9	2.9	4.8	6.2	6.5
	<b>Reps</b>	4	4	2	4	2

**SITE INFORMATION**

Collaborator:	UNL Stumpf Farm, Grant, NE
Planting Date:	October 11, 2022
Seeding Rate:	1.25 million seeds/acre
Harvest Date:	August 10, 2023
Fertility:	30 lbs P/A as 40 Rock at planting, 125 lb/a N fertigated in the spring
Herbicide/Fungicides:	2 pints Prowl H2O and 6 oz LV6 in spring
Soil Type:	Kuma and Mace silt loams
GPS:	40.845372, -101.705381
Planting Info:	Planted 1.75" into good soil moisture using 10" row spacing on a no-till drill in no-till soybean residue
Notes on Trial:	Delayed planting and heavy residue resulted in poor fall growth. Irrigation was limited to 3" in the spring, but fertigation helped with grain protein levels. Later than optimal planting and July rains delayed harvest.

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<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.