



UNIVERSITY of NEBRASKA  
LINCOLN

## Clay 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)	Grain Weight (1000 seeds/lb)
WB4595	WestBred	<b>106.7</b>	<b>59.9</b>	9.5	31.1	12.0
WB4401	WestBred	<b>104.4</b>	58.1	8.9	30.5	10.8
WB4792	WestBred	<b>102.2</b>	<b>59.9</b>	9.3	33.0	12.7
AP Prolific	AgriPro	<b>99.9</b>	58.2	10.2	31.0	11.4
CP7220	Croplan	<b>97.6</b>	58.7	10.0	30.7	10.3
NHH19668	UNL	<b>93.1</b>	<b>59.4</b>	10.1	32.7	12.0
Rockstar	Polansky Seed, Inc.	<b>92.9</b>	57.3	10.1	32.1	11.2
Golden Hawk	Polansky Seed, Inc.	<b>92.9</b>	56.9	10.3	32.0	12.8
WB4523	WestBred	<b>91.8</b>	56.9	9.2	28.3	14.2
WB4510CLP	WestBred	89.0	59.2	9.6	34.0	12.0
LCS Runner	Limagrain	88.4	58.8	9.8	32.3	11.6
WB4422	WestBred	88.2	<b>60.2</b>	10.1	30.5	11.6
CP7017AX	Croplan	86.9	58.8	9.5	32.2	12.0
NE17441	UNL	86.4	57.9	10.7	32.3	11.9
LCS Steel AX	Limagrain	84.7	58.8	9.7	34.7	12.2
NE18435	UNL	84.5	58.4	9.4	31.4	12.7
WB4445CLP	WestBred	84.0	58.9	11.4	29.5	11.0
Wesley	Husker Genetics	83.0	57.2	10.9	30.2	10.8
NE Prism CLP	NuHorizon Genetics	80.7	58.6	10.2	33.6	13.5
CO18D297R	PlainsGold	80.0	58.7	9.6	32.0	13.9
LCS Atomic AX	Limagrain	76.2	<b>59.4</b>	9.9	32.3	10.5
NW15443	UNL	75.8	57.1	10.2	35.5	10.0
NI17410	UNL	75.7	57.7	10.6	31.7	11.8
Siege	NuHorizon Genetics	74.6	59.1	10.7	31.4	10.9
AR Iron Eagle 22AX	Armor	73.7	58.7	10.2	30.8	11.3
Ruth	NuHorizon Genetics	71.9	58.3	9.7	32.9	12.2
NE16562	UNL	71.3	57.9	10.0	31.1	12.8
Turkey	Check	68.4	57.2	<b>11.8</b>	38.3	11.9
Paradise	Polansky Seed, Inc.	64.6	57.6	<b>12.3</b>	30.8	10.7
KS Providence	Kansas Wheat Alliance	62.1	56.2	11.2	31.0	11.4
Scout 66	Check	60.8	57.8	<b>12.5</b>	35.4	10.5
WB4699	WestBred	51.8	56.6	9.7	28.6	14.9

<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>AR Iron Eagle 33AX</b>	Armor	41.5	57.5	10.9	32.1	13.0
<b>CP7266AX</b>	Croplan	40.8	57.6	10.0	32.6	13.2
<b>AP Bigfoot</b>	AgriPro	31.7	56.1	<b>11.8</b>	29.9	12.8
	<b>Standard Error</b>	9.7	0.5	0.4	1.2	0.3
	<b>LSD<sup>3</sup></b>	16.6	0.8	0.7	2.0	0.6
	<b>Mean<sup>4</sup></b>	78.8	58.2	10.3	32.0	12.0
	<b>CV<sup>5</sup></b>	12.3	0.8	4.2	3.7	2.9
	<b>Reps</b>	2	2	2	2	2

### SITE INFORMATION

Collaborator:	USDA-MARC
Planting Date:	9/28/2023
Seeding Rate:	1,200,000 seeds/a
Harvest Date:	7/12/2024
Fertility:	115 lb/a N & 19 lb/a S on 4/4/2024
Herbicide/Fungicides:	Zidua 4/4/2024; Prosaro at flowering
Soil Type:	Crete silt loam
GPS:	40.538671, -98.149308
Planting Info:	Drilled 2" into good soil moisture using a double disk drill on 9" centers on disked soybean stubble.
Notes on Trial:	Excellent fall emergence and stand, but adjacent corn field led to deer damage to part of the field. Only the two minimally affected replications were analyzed. Data should be used with caution. Recommend consulting other site results in region and multi-year summaries.

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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 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.