

## **Cheyenne 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)
WB4422	WestBred	74.7	56.9	10.5	32.3	17.6
Whistler	PlainsGold	72.6	55.2	10.6	33.2	19.0
LCS Atomic AX	Limagrain	71.3	56.8	9.9	32.3	15.4
CO18042RA	PlainsGold	70.7	56.9	10.0	30.9	18.8
MS Maverick	Meridian Seeds	70.7	56.6	10.7	32.6	17.9
WB4445CLP	WestBred	70.2	56.3	11.4	32.3	18.2
WB4595	WestBred	69.6	58.9	9.8	31.5	17.3
Canvas	PlainsGold	69.6	57.7	10.2	30.5	19.0
AP 24AX	AgriPro	69.6	54.9	10.3	34.9	18.4
AP Sunbird	AgriPro	68.6	59.6	10.4	32.3	16.2
LCS Julep	Limagrain	68.5	57.3	10.6	32.5	17.0
CP7017AX	Croplan	68.5	58.1	10.9	31.1	20.4
WB4792	WestBred	68.4	57.2	9.9	32.8	17.5
NE19412	UNL	68.1	55.6	10.8	33.7	17.6
Robidoux	NuHorizon Genetics	68.1	57.6	10.8	31.9	19.4
AP Roadrunner	AgriPro	67.7	54.3	10.8	32.2	18.8
LCS Helix AX	Limagrain	67.0	57.5	10.0	31.3	16.6
Steamboat	Crop Research Foundation of Wyoming, Inc.	66.6	57.7	10.4	32.7	18.4
SY Legend CL2	AgriPro	66.5	55.6	10.6	31.1	19.0
NHH19668	UNL	66.4	57.2	11.1	32.7	17.6
Crescent AX	PlainsGold	66.2	57.4	9.8	33.6	17.6
NE18455	UNL	66.1	58.5	9.5	32.6	19.2
AP Solid	AgriPro	66.1	56.7	10.7	31.5	20.8
WB4347	WestBred	65.9	58.4	10.2	32.5	16.4
NE18435	UNL	65.4	55.8	10.2	31.2	19.4
NHH19651	UNL	64.9	56.6	11.3	35.0	17.7
NEB145-12	UNL	64.7	55.4	10.8	33.4	16.5
WB4510CLP	WestBred	64.6	57.0	10.6	32.2	18.6
NE17544	UNL	64.1	55.8	11.6	34.3	19.9
NE19454	UNL	64.0	55.4	11.3	31.1	18.8

 $<sup>^{\</sup>rm 1}$  Yield values corrected to 12% moisture content. Bolded values indicate highest LSD grouping.

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

LCS Radar	Limagrain	63.5	55.7	11.2	30.2	19.6
AP Bigfoot	AgriPro	63.5	58.2	11.1	30.5	19.5
NE16562	UNL	63.4	55.4	10.9	31.3	18.1
NE17441	UNL	62.9	57.2	11.0	31.9	18.2
Settler CL	NuHorizon Genetics	62.7	56.7	9.8	32.2	16.8
AR Iron Eagle 22AX	Armor	62.7	58.8	10.2	30.2	19.2
Ruth	NuHorizon Genetics	61.6	57.4	11.0	33.3	18.3
Wesley	Husker Genetics	61.2	54.7	11.4	29.7	18.3
Windom SF	PlainsGold	60.5	56.9	10.7	31.1	18.3
NE19455	UNL	60.5	57.1	12.5	33.2	19.1
NE Prism CLP	NuHorizon Genetics	60.5	56.1	11.9	32.0	22.3
NE19590	UNL	60.4	56.2	9.8	31.6	18.5
Amplify SF	PlainsGold	59.7	58.3	11.0	31.6	17.8
Kivari AX	PlainsGold	59.5	56.0	10.1	32.0	18.2
AR Iron Eagle 33AX	Armor	58.8	56.6	11.1	31.6	20.1
NI17410	UNL	58.0	56.8	11.3	32.4	17.6
WB4483	WestBred	57.5	55.5	11.2	29.9	20.8
LCS Steel AX	Limagrain	57.5	56.0	11.1	31.8	20.2
CP7266AX	Croplan	57.4	56.2	10.5	32.0	19.7
NSF22115	UNL	57.4	56.4	11.1	30.3	18.4
Pronghorn	NuHorizon Genetics	57.2	58.8	11.8	35.9	18.6
NW15443	UNL	57.2	56.3	11.6	33.9	17.6
NSF22102	UNL	56.5	56.8	11.0	33.3	18.7
NE19619	UNL	55.9	54.9	12.2	35.2	20.5
NSF22113	UNL	55.1	56.3	11.6	31.9	19.0
CP7220	Croplan	55.0	55.9	11.0	29.3	15.1
WB4444	WestBred	54.6	54.8	11.8	30.5	21.4
WB4733CLP	WestBred	52.3	55.8	12.0	27.5	23.1
Turkey	Check	47.1	55.1	12.3	36.5	19.3
Scout 66	Check	44.3	56.6	11.3	34.9	18.2
	Standard Error	4.0	1.1	0.7	1.0	1.3
	LSD <sup>3</sup>	6.6	1.8	1.2	1.6	2.3
	Mean⁴	66.2	56.6	10.9	32.2	18.6
	CV <sup>5</sup>	6.0	2.0	6.6	3.1	7.2
	Reps	4	4	2	4	2

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

## **SITE INFORMATION**

Collaborator:	UNL High Plains Ag Lab and Jacob Hansen	
Planting Date:	9/19/2023	
Seeding Rate:	900,000 seeds/a	
Harvest Date:	7/13/2024	
Fertility:	50 lb/a N streamed on pre-plant; 50 lb/a 40 Rock in-furrow at planting; additional 10 lb/a N with spring herbicide application	
Herbicide/Fungicides:	Zidua 4/4/2024; 6 oz/a 2,4D LV6 in spring; Prosaro for stripe rust	
Soil Type:	Rosebud loam, Sidney-Canyon complex, Duroc loam	
GPS:	41.231477, -103.002897	
Planting Info:	Drilled 1.5" into good soil moisture in tilled millet fallow with a no-till double disk drill on 10" centers.	
Notes on Trial:	Excellent emergence and early stand. One small hail event occurred in early grain fill but had minimal to zero impacts on final yield.	

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