



UNIVERSITY of NEBRASKA
LINCOLN

South Cheyenne County Rainfed 2025 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Grain Weight (1000 seeds/lb)
Whistler	PlainsGold	76.2	55.9	10.7	27.7	16.28
WB4347	WestBred	63.3	55.5	11.9	22.5	16.36
CO19D087R	CSU-Experimental	62.0	55.3	11.8	23.7	16.39
Telluride	PlainsGold	61.7	57.2	11.9	21.3	14.93
AP24 AX	AgriPro	61.5	53.1	10.7	29.4	16.84
FVC Valley	FVC	60.8	56.8	11.1	25.4	16.86
CO21SF263RA	CSU-Experimental	60.0	54.1	11.4	24.4	16.97
Canvas	PlainsGold	58.9	55.7	11.5	21.7	18.43
Sheridan	PlainsGold	58.3	56.2	11.3	25.1	16.41
Robidoux	Nu Horizon Genetics	57.6	55.6	12.0	22.3	16.65
AP Solid	AgriPro	57.0	55.2	11.5	20.8	16.18
WB4595	WestBred	56.6	55.5	10.5	23.3	18.22
Amplify SF	PlainsGold	56.4	55.0	11.4	23.8	17.05
WB4422	WestBred	56.0	54.0	12.0	24.0	15.45
NE22252	UNL-Experimental	55.7	54.8	11.9	20.5	16.44
CO200037R	CSU-Experimental	55.2	54.6	11.0	20.6	18.42
NSF23324	UNL-Experimental	55.0	56.3	12.2	24.8	15.84
CO21SF191RA	CSU-Experimental	54.4	52.3	12.5	26.4	17.15
NE18435	UNL-Experimental	54.3	57.1	11.7	23.0	14.57
NE19455	UNL-Experimental	54.1	51.6	12.6	22.0	18.42
NE22284	UNL-Experimental	53.6	56.9	12.2	26.8	15.83
CP7017AX	Croplan	53.6	55.4	11.6	21.1	15.87
WB4510CLP	WestBred	53.6	55.1	11.9	21.1	16.06
NSF22115	UNL-Experimental	52.5	56.4	11.5	26.4	15.68
WB4733CLP	WestBred	52.5	55.2	12.2	23.2	17.98
NE22212	UNL-Experimental	52.4	53.0	12.0	19.5	15.85
NE18445	UNL-Experimental	52.2	52.7	12.8	21.6	17.48
AP Sunbird	AgriPro	51.7	55.6	12.2	21.3	13.38
LCS Steel AX	Limagrain Cereal Seeds	51.4	52.1	11.3	25.7	18.83
Crescent AX	PlainsGold	51.1	53.8	11.9	24.5	16.14
NE20620	UNL-Experimental	51.1	54.6	12.1	21.9	15.32
NE19619	UNL-Experimental	50.8	52.4	13.1	22.2	16.47
Ruth	Nu Horizon Genetics	50.4	55.9	12.8	24.2	16.24

¹ Yield values corrected to 12% moisture content. Bolded values indicate highest LSD grouping.

² Protein corrected to 14% moisture content, the correction factor used in analytical standards. Turkey and Scout 66 excluded from protein LSD groups due to known high protein contents.

Name	Company	Yield (bu/ac)	Test Weight (lb/bu)	Protein (%)	Plant Height (in)	Grain Weight (1000 seeds/lb)
Settler CL	Nu Horizon Genetics	50.2	55.4	11.6	24.1	14.86
MS Maverick	Meridian Seeds	50.2	56.0	11.9	23.7	16.67
NSF23323	UNL-Experimental	50.0	53.8	12.1	20.9	19.14
Pronghorn	Nu Horizon Genetics	48.8	55.7	12.4	24.1	17.29
NE18455	UNL-Experimental	48.2	55.0	11.9	23.4	17.75
CP7869	Croplan	47.6	53.1	12.4	21.2	17.23
NHH19651	UNL-Experimental	47.6	52.2	11.8	23.1	18.97
WB4445CLP	WestBred	47.1	54.6	12.4	20.3	17.82
NSF23312	UNL-Experimental	47.0	56.0	13.2	20.8	18.06
Scout 66	Check	46.2	54.2	12.3	23.1	15.27
Wesley	NuHorizon Genetics	45.8	53.7	13.7	21.3	15.34
AR Iron Eagle 22AX	Armor	45.6	56.3	11.7	20.3	16.38
NHH19668	UNL-Experimental	44.8	55.5	11.8	25.7	15.68
LCS Atomic AX	Limagrain Cereal Seeds	44.7	53.6	13.2	19.8	15.97
AR Turret 25	Armor	42.3	54.5	12.3	20.1	16.66
Turkey	Check	40.4	54.8	13.2	29.4	17.25
NE21579	UNL-Experimental	39.5	54.8	13.3	26.5	16.88
NE Prism CLP	Nu Horizon Genetics	39.2	54.7	12.5	22.6	18.52
NSF22101	UNL-Experimental	39.0	54.8	12.9	23.9	17.98
LCS Valiant	Limagrain Cereal Seeds	38.7	54.2	13.1	21.9	17.87
WB4444	WestBred	38.0	52.1	13.0	24.4	17.08
Summary Statistics						
Standard Error		5.8	1.6	0.4	2.5	1.21
LSD³		9.6	2.6	0.6	4.1	2.01
Mean⁴		51.7	54.7	12.1	23.2	16.74
CV⁵		11.2	2.9	3.2	10.7	7.2
Reps		4	4	2	4	2

³ For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

⁴ Mean performance of all plots in the trial.

⁵ 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:	JJ Mule Barn LLC, Scott and Dwight Easterly
Planting Date:	9/25/2024
Seeding Rate:	900,000 s/a
Harvest Date:	7/15/2025
Fertility:	10 ton/a manure applied in year prior so no in-furrow 40 Rock used; 4 gal/a of High NRG-N and AccesS (5:1 ratio by volume) with 1 qt/a Micro 550 top-dressed; secondary top-dress application of 6 gal/a of High NRG-N/Access mix in late April (AgroLiquid fertilizers)
Herbicide/Fungicides:	.2 oz/a Patriot (generic Ally) and 5 oz/a WeedOne (2,4D LV4)
Soil Type:	Alliance and Kuma loams
GPS:	41.054797, -103.145765
Planting Info:	Planted 1.5" deep into dry soil, tilled corn fallow.
Notes on Trial:	Surrounding field averaged 53.5 bu/a and was planted to Snowmass 2.0 and Windom SF white wheats. Very dry conditions at planting and seed depth was critical, slow fall emergence and low stand over winter. Emerged slowly but had decent spring tillering. Plant height very short due to dry conditions. Late season rains significantly improved yield and test weight. Protein reflected area averages. Weed control excellent with some grassy weeds in areas with thinner stand on west edge of plot and field. Testing site is new in 2025, was conducted in addition to typical Cheyenne county plot at the High Plains Ag Lab, reflects microclimate differences in the South Divide/CO border area of county.

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