



UNIVERSITY of NEBRASKA  
LINCOLN

## Box Butte County Rainfed 2025 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)
Crescent AX	PlainsGold	73.6	60.4	8.4	28.8	14.94
LCS Atomic AX	Limagrain Cereal Seeds	73.1	60.8	8.9	31.5	14.41
Canvas	PlainsGold	71.4	60.8	9.0	27.8	17.69
WB4422	WestBred	70.2	60.4	8.7	28.2	15.76
CP7869	Croplan	69.8	58.2	8.7	30.0	17.05
Amplify SF	PlainsGold	69.3	60.5	9.3	25.5	15.23
LCS Steel AX	Limagrain Cereal Seeds	69.2	59.6	8.1	29.8	16.50
NE22284	UNL-Experimental	68.6	60.2	9.0	27.6	15.80
CO21SF191RA	CSU-Experimental	68.4	57.6	10.2	29.5	17.17
NSF22115	UNL-Experimental	68.2	58.6	10.3	30.3	19.46
NSF23323	UNL-Experimental	68.0	60.7	8.9	33.1	17.05
Whistler	PlainsGold	67.8	58.4	8.0	26.9	15.82
NSF23312	UNL-Experimental	67.8	60.5	8.9	28.6	17.95
AP Solid	AgriPro	66.9	61.6	9.5	27.3	15.95
NE20620	UNL-Experimental	66.6	60.0	8.9	29.3	15.20
FVC Valley	FVC	65.8	59.2	8.0	31.9	18.29
NE22252	UNL-Experimental	65.7	61.2	8.5	28.9	14.63
WB4595	WestBred	65.6	61.2	9.3	33.1	17.22
CO19D087R	CSU-Experimental	64.7	57.6	8.9	30.1	18.16
CP7017AX	Croplan	64.4	59.0	8.9	30.3	17.94
NE18435	UNL-Experimental	64.4	60.4	8.7	29.4	15.98
Settler CL	Nu Horizon Genetics	64.4	59.6	8.5	28.8	14.80
NSF23324	UNL-Experimental	64.4	59.0	10.0	29.8	15.86
NE21579	UNL-Experimental	64.2	54.8	9.2	26.9	19.83
WB4444	WestBred	64.1	58.6	10.6	30.5	19.57
Telluride	PlainsGold	63.7	59.2	8.2	26.4	15.32
Sheridan	PlainsGold	63.6	58.9	8.8	29.7	17.57
Wesley	NuHorizon Genetics	63.3	58.3	10.0	27.1	16.28
NE22212	UNL-Experimental	63.1	57.9	9.7	28.2	16.18
Ruth	Nu Horizon Genetics	62.9	58.7	8.9	26.5	15.82
NE18445	UNL-Experimental	62.4	58.8	10.5	29.3	17.50
NE18455	UNL-Experimental	61.7	58.4	9.2	26.7	18.10
CO200037R	CSU-Experimental	61.5	59.9	8.7	27.2	18.47

<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. Turkey and Scout 66 may be 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)
CO21SF263RA	CSU-Experimental	61.3	56.8	<b>10.0</b>	30.5	17.37
WB4347	WestBred	61.2	<b>59.9</b>	8.9	23.9	15.02
LCS Valiant	Limagrain Cereal Seeds	61.1	59.4	<b>10.3</b>	28.0	14.71
NHH19651	UNL-Experimental	60.8	<b>60.2</b>	9.3	29.6	16.61
AR Iron Eagle 22AX	Armor	60.4	58.8	8.7	28.4	17.59
NE19619	UNL-Experimental	60.2	58.1	<b>10.1</b>	30.5	15.51
Robidoux	Nu Horizon Genetics	59.7	55.8	9.7	28.1	17.07
Pronghorn	Nu Horizon Genetics	59.3	<b>60.3</b>	9.8	28.5	14.81
AP24 AX	AgriPro	59.2	57.8	8.2	27.0	15.65
AP Sunbird	AgriPro	58.5	59.3	8.8	30.5	16.56
NE19455	UNL-Experimental	58.3	57.2	<b>10.8</b>	30.3	16.87
NHH19668	UNL-Experimental	56.9	<b>59.6</b>	9.1	27.5	14.84
NSF22101	UNL-Experimental	54.6	59.0	<b>10.4</b>	27.0	17.74
WB4733CLP	WestBred	54.0	56.8	<b>10.8</b>	23.6	20.30
Turkey	Check	54.0	<b>59.5</b>	9.6	31.7	16.79
MS Maverick	Meridian Seeds	52.9	59.2	9.5	25.5	14.68
WB4510CLP	WestBred	52.8	<b>60.8</b>	9.4	29.9	16.18
NE Prism CLP	Nu Horizon Genetics	50.1	57.9	<b>10.0</b>	27.1	18.06
AR Turret 25	Armor	49.7	56.4	<b>10.0</b>	26.4	20.00
Scout 66	Check	49.6	58.9	10.6	25.5	18.05
WB4445CLP	WestBred	48.2	58.4	<b>10.2</b>	27.4	15.02
<b>Summary Statistics</b>						
<b>Standard Error</b>		5.7	1.3	0.5	2.6	1.50
<b>LSD<sup>3</sup></b>		9.4	2.1	0.8	4.2	2.53
<b>Mean<sup>4</sup></b>		62.4	59.1	9.3	28.6	16.72
<b>CV<sup>5</sup></b>		9.1	2.2	5.0	9.0	9.0
<b>Reps</b>		4	4	2	4	2

<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.

**SITE INFORMATION**

Collaborator:	Chris Cullan, Cullan Farm Seed, Hemingford, NE
Planting Date:	9/17/2024
Seeding Rate:	900,000 s/a
Harvest Date:	7/28/2025
Fertility:	50 lb/a 40 Rock applied in-furrow with planting; 50 lb/a N and 10 lb/a S topdressed in spring.
Herbicide/Fungicides:	1 pt/a Prowl H2O + 24 oz/a glyphosate + AMS applied to clean alleys; 2,4-D LV6 and Affinity applied for weed control in the spring.
Soil Type:	Rosebud loam
GPS:	42.248553, -103.018568
Planting Info:	Planted 1.5" into very dry soil, tilled corn fallow.
Notes on Trial:	Plot area appeared extremely non-uniform and anticipated to have poor yields, but late season rains evened out the field and yields were much higher than expected. Surrounding field was planted to Ruth and had an average yield of 63 bu/a. Test weights in surrounding field were slightly higher due to rain between days of harvest for overall field versus plot.

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