



UNIVERSITY of NEBRASKA
LINCOLN

Banner County Rainfed 2023 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Seed Weight (1000 seeds/lb)
LCS Steel AX	Limagrain	90.9	57.0	9.8	31.3	15.4
Steamboat	Crop Research Foundation of Wyoming, Inc.	88.0	58.2	10.6	28.9	13.3
Ruth	Husker Genetics	87.5	57.6	11.1	28.7	14.7
Amplify SF	PlainsGold	86.9	58.1	10.4	28.9	12.9
NE17544	UNL-Experimental	82.9	57.3	10.4	29.7	13.4
Whistler	PlainsGold	81.8	56.4	10.9	29.7	14.1
AP 18AX	AgriPro	81.4	56.1	9.9	28.5	14.4
MS Maverick	Meridian Seeds	80.8	58.2	11.2	28.3	13.9
ARMOR EXP55	ARMOR	80.3	56.9	10.0	28.2	11.9
Scout 66	Check	79.5	55.7	11.2	29.8	15.0
NE18455	UNL-Experimental	79.0	55.5	11.4	27.3	17.9
Kivari AX	PlainsGold	78.3	56.3	10.0	29.7	14.9
Pronghorn	Husker Genetics	78.1	56.9	11.6	31.2	14.8
Crescent AX	PlainsGold	78.0	58.3	11.0	29.2	12.8
WB4595	WestBred	78.0	58.2	10.5	28.5	15.1
WB4733CLP	WestBred	77.5	57.4	10.8	28.6	18.2
WB4422	WestBred	77.3	58.3	10.8	28.1	14.8
Freeman	Husker Genetics	77.3	56.4	11.1	27.4	14.0
NW15443	UNL-Experimental	76.8	57.2	10.7	31.9	12.7
WB4483	WestBred	76.7	56.8	10.7	29.8	15.4
Settler CL	NuPride Genetics	76.5	58.5	10.4	28.9	13.5
NE19619	UNL-Experimental	76.1	56.5	10.8	32.1	11.9
AP Solid	AgriPro	75.9	57.6	11.3	28.0	14.8
NE17441	UNL-Experimental	75.6	56.7	11.3	29.2	14.8
ARMOR EXP65AX	ARMOR	75.5	56.1	11.1	27.6	15.4
NHH17612	UNL-Experimental	75.2	57.3	11.0	31.1	17.3
NE16562	UNL-Experimental	75.1	56.1	11.6	28.8	15.3
WB4792	WestBred	75.1	58.8	10.7	28.0	15.3
CP7017AX	CROPLAN	74.7	56.7	10.5	27.5	15.3
MS Sundown	Meridian Seeds	74.1	57.7	10.4	28.8	15.6
WB4418	WestBred	73.3	55.1	11.4	26.5	16.7
LCS Julep	Limagrain	73.1	58.7	11.4	28.4	12.4

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

² Protein corrected to 14% moisture, the correction factor used in analytical standards.

Canvas	PlainsGold	72.7	57.2	11.1	27.9	16.2
Fortify SF	PlainsGold	72.6	57.7	10.6	27.9	14.5
AAC Goldrush	North Dakota Crop Improvement	72.5	59.3	11.3	31.4	13.8
Wesley	Husker Genetics	72.4	55.9	11.6	27.7	14.5
SY Wolverine	AgriPro	71.7	55.0	11.3	28.0	14.6
CP7266AX	CROPLAN	71.5	57.3	11.3	28.8	15.6
NHH17450	UNL-Experimental	71.4	55.1	10.4	29.9	17.6
AP Bigfoot	AgriPro	71.3	55.1	11.5	27.7	15.5
Turkey	Check	70.3	56.2	12.0	32.9	15.0
Langin	PlainsGold	70.1	55.3	10.2	26.5	14.8
WB4510CLP	WestBred	69.5	59.4	11.2	29.5	14.0
CP7050AX	CROPLAN	68.7	57.9	11.9	27.1	15.2
Robidoux	Husker Genetics	68.1	55.0	10.2	28.2	16.1
LCS Atomic AX	Limagrain	66.5	55.8	11.0	27.6	13.6
LCS Valiant	Limagrain	60.4	54.7	11.5	26.0	15.1
SY Legend CL2	AgriPro	58.9	57.5	12.1	27.0	14.6
NHH19668	UNL-Experimental	55.7	55.2	10.8	27.8	14.4
	Standard Error	5.9	0.9	0.5	1.0	0.7
	LSD³	9.8	1.4	0.8	1.7	1.2
	Mean⁴	75.1	56.9	10.9	28.8	14.8
	CV⁵	7.9	1.5	4.4	3.6	5.0
	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 entries 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: Jim Wyatt, Harrisburg, NE
Planting Date: September 19, 2022
Seeding Rate: 900,000 seeds/acre
Harvest Date: August 11, 2023
Fertility: About 30lbs/A of P as 40 rock
Herbicide/Fungicides: 2 pints Prowl H2O + LV6
Soil Type: Bridget very fine sandy loam
GPS: 41.568388, -103.716031
Planting Info: Drilled about 1.5” deep into tilled wheat fallow, very little soil moisture.
Notes on Trial: Timely rains in the spring improved yields, then rains in July delayed harvest, leading to reduced test weights. Overall very good yields given dry fall conditions.

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