



UNIVERSITY of NEBRASKA
LINCOLN

Box Butte County Rainfed 2023 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu) ²	Protein (%) ³	Plant Height (in)	Seed Weight (1000 seeds/lb)
Steamboat	Crop Research Foundation of Wyoming, Inc.	105.6	58.9	10.4	33.3	14.3
Crescent AX	PlainsGold	104.8	57.9	10.3	31.6	14.0
NE16562	UNL-Experimental	103.2	57.3	11.6	29.7	17.2
ARMOR EXP65AX	ARMOR	103.1	58.0	10.8	32.5	15.9
AP 18AX	AgriPro	102.9	56.7	10.8	30.0	14.9
NE17441	UNL-Experimental	102.2	57.1	11.7	30.1	16.4
CP7266AX	CROPLAN	101.8	57.9	10.9	32.2	16.0
MS Maverick	Meridian Seeds	101.7	57.2	12.1	30.9	15.6
Amplify SF	PlainsGold	101.7	57.2	11.8	30.0	17.1
Kivari AX	PlainsGold	101.7	56.4	11.0	30.7	17.2
Settler CL	NuPride Genetics	101.4	58.5	11.8	28.8	15.4
Whistler	PlainsGold	101.3	55.2	11.2	32.1	16.8
LCS Atomic AX	Limagrain	100.8	57.0	10.8	31.0	15.7
Ruth	Husker Genetics	100.0	57.7	11.7	31.9	16.8
Canvas	PlainsGold	100.0	57.8	10.8	30.2	19.1
CP7017AX	CROPLAN	98.6	58.6	10.9	28.6	15.7
WB4595	WestBred	98.3	59.1	10.9	29.9	15.9
NE17544	UNL-Experimental	98.1	58.1	11.1	34.7	14.7
WB4422	WestBred	98.1	58.3	11.8	29.5	14.9
MS Sundown	Meridian Seeds	98.1	58.7	11.0	32.5	16.1
NHH19668	UNL-Experimental	97.9	58.5	12.4	31.2	15.8
AP Solid	AgriPro	97.8	58.8	11.7	29.1	15.0
ARMOR EXP55	ARMOR	97.2	55.9	12.1	29.3	14.8
Robidoux	Husker Genetics	96.5	55.5	12.6	30.4	18.0
Fortify SF	PlainsGold	96.5	59.2	11.1	31.4	17.6
NE19619	UNL-Experimental	96.4	56.2	12.5	35.7	14.4
Freeman	Husker Genetics	96.0	55.5	11.7	31.6	15.3
Langin	PlainsGold	95.3	56.0	11.0	28.1	18.3
SY Wolverine	AgriPro	95.0	58.4	11.1	28.1	15.4
AP Bigfoot	AgriPro	94.7	58.1	11.3	29.7	18.0
WB4510CLP	WestBred	94.1	59.4	11.6	31.3	17.3

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

² Test weights were evaluated with a freestanding Dickey John GAC due to issue with onboard sensor on combine.

³ Protein corrected to 14% moisture, the correction factor used in analytical standards.

LCS Julep	Limagrain	93.8	59.8	11.6	30.2	13.8
Wesley	Husker Genetics	93.2	55.5	11.8	27.9	15.3
WB4792	WestBred	92.1	56.5	11.1	31.0	16.3
CP7050AX	CROPLAN	91.3	59.6	12.2	30.6	16.2
LCS Steel AX	Limagrain	90.8	56.1	11.1	30.4	22.0
WB4418	WestBred	90.5	54.6	12.0	28.6	19.1
Pronghorn	Husker Genetics	90.3	59.5	13.0	37.7	13.9
NE18455	UNL-Experimental	89.9	55.4	11.3	30.6	18.8
SY Legend CL2	AgriPro	89.8	56.6	11.7	29.1	16.4
NW15443	UNL-Experimental	89.0	57.2	10.8	31.9	12.9
LCS Valiant	Limagrain	88.5	55.7	11.7	27.4	17.3
NHH17450	UNL-Experimental	87.9	56.5	11.4	32.5	17.0
NHH17612	UNL-Experimental	87.8	58.3	12.3	30.0	17.7
AAC Goldrush	North Dakota Crop Improvement	85.9	56.9	12.5	31.9	15.1
WB4733CLP	WestBred	83.9	56.6	12.3	26.7	17.6
Scout 66	Check	83.9	57.4	13.2	37.3	13.7
WB4483	WestBred	83.3	54.0	12.8	31.1	21.1
Turkey	Check	80.3	57.4	13.2	40.9	15.3
	Standard Error	3.2	0.8	0.5	1.4	1.0
	LSD⁴	5.2	1.3	0.9	2.3	1.6
	Mean⁵	94.8	57.3	11.6	31.1	16.3
	CV⁶	3.3	1.4	4.7	4.5	6.0
	Reps	4	4	2	4	2

⁴ For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

⁵ Mean performance of all entries in the trial.

⁶ 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 Farms Seed, Hemingford, NE
Planting Date: September 15, 2022
Seeding Rate: 900,000 seeds/acre
Harvest Date: July 22, 2023
Fertility: 30 lb/acre phosphorus as 40 Rock at planting, 50 lb N topdressed in spring
Herbicide/Fungicides: 2 pints Prowl H2O + LV6 and Nexicor in spring.
Soil Type: Rosebud loam
GPS: 42.246128, -103.014585
Planting Info: Some soil moisture at seeding depth of 1.5-1.75". Planted into tilled corn fallow on 10" centers.
Notes on Trial: Excellent stand and yields, surrounding field was 'Robidoux' and yielded ~80 bushels/acre. Plot area yields positively impacted by border effects due to rains during grain fill.

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