



UNIVERSITY of NEBRASKA
LINCOLN

Deuel 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)
Steamboat	Crop Research Foundation of WY, Inc.	84.8	57.7	10.4	32.8	18.1
NE17441	UNL-Experimental	83.0	58.7	11.1	32.4	18.3
MS Maverick	Meridian Seeds	81.6	57.2	11.8	30.5	17.1
NE19619	UNL-Experimental	80.9	56.7	11.4	34.8	15.0
LCS Julep	Limagrain	80.4	58.0	11.6	30.6	15.7
LCS Steel AX	Limagrain	80.2	56.2	10.0	32.3	19.7
Settler CL	NuPride Genetics	79.8	57.9	10.7	30.5	15.8
ARMOR EXP65AX	ARMOR	79.7	57.4	11.0	29.3	19.9
NE17544	UNL-Experimental	79.5	57.4	11.3	32.0	16.9
WB4422	WestBred	79.3	56.6	11.3	28.8	18.7
NW15443	UNL-Experimental	78.7	57.0	11.1	32.5	14.7
Wesley	Husker Genetics	78.4	54.2	11.8	29.1	17.2
AP Bigfoot	AgriPro	77.9	55.0	11.0	26.5	18.8
Amplify SF	PlainsGold	76.7	55.5	11.4	31.4	19.0
ARMOR EXP55	ARMOR	76.1	55.1	11.1	27.5	16.6
NE16562	UNL-Experimental	76.1	55.2	11.7	30.9	18.9
Whistler	PlainsGold	75.9	54.2	11.3	34.1	18.4
Ruth	Husker Genetics	75.8	56.3	11.5	28.5	18.6
WB4510CLP	WestBred	75.7	57.3	12.6	31.1	18.8
CP7266AX	CROPLAN	75.4	56.4	11.3	30.9	18.6
Freeman	Husker Genetics	75.1	53.8	11.4	30.4	17.9
AP 18AX	AgriPro	74.9	54.3	10.9	28.0	17.5
WB4792	WestBred	74.7	57.1	10.3	30.1	18.7
NHH19668	UNL-Experimental	74.1	56.0	11.0	29.4	17.9
AP Solid	AgriPro	74.1	55.4	12.1	27.0	17.7
Pronghorn	Husker Genetics	73.5	57.2	11.8	37.0	16.4
CP7017AX	CROPLAN	73.0	55.2	10.9	27.8	20.2
Langin	PlainsGold	73.0	53.7	10.2	27.9	20.0
Crescent AX	PlainsGold	72.9	55.8	10.9	30.4	17.9
NHH17450	UNL-Experimental	72.0	55.9	11.5	30.5	20.4
WB4418	WestBred	71.7	54.1	11.5	27.5	18.7
Scout 66	Check	71.1	57.7	12.5	41.0	14.7

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.

NE18455	UNL-Experimental	70.7	54.1	11.5	29.3	21.4
NHH17612	UNL-Experimental	70.2	56.7	11.7	30.3	21.1
WB4595	WestBred	70.2	57.5	11.4	30.0	22.2
AAC Goldrush	North Dakota Crop Improvement	70.1	56.8	12.0	33.9	17.9
Turkey	Check	69.7	57.7	12.0	41.8	16.6
MS Sundown	Meridian Seeds	69.0	55.9	12.3	32.3	21.1
LCS Atomic AX	Limagrain	68.2	53.9	11.0	27.5	19.1
Kivari AX	PlainsGold	68.1	53.2	10.8	29.4	18.2
SY Wolverine	AgriPro	68.1	53.1	11.8	27.5	20.8
Canvas	PlainsGold	67.9	54.7	11.3	28.4	21.7
SY Legend CL2	AgriPro	64.9	55.4	11.4	28.5	18.1
CP7050AX	CROPLAN	64.4	53.7	11.4	27.9	20.4
LCS Valiant	Limagrain	63.5	51.7	11.9	27.5	20.1
WB4733CLP	WestBred	62.4	55.0	12.3	27.3	21.0
Fortify SF	PlainsGold	62.1	55.1	10.5	31.1	21.0
Robidoux	Husker Genetics	61.4	51.0	12.2	29.6	22.4
WB4483	WestBred	57.7	50.6	12.8	29.0	24.8
	Standard Error	3.6	0.8	0.7	1.2	1.6
	LSD³	5.9	1.3	1.1	2.0	2.6
	Mean⁴	72.6	55.5	11.4	30.5	18.9
	CV⁵	4.9	1.4	5.8	3.9	8.3
	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: Larry Flohr, V&F Farms, Chappell, NE
Planting Date: September 27, 2022
Seeding Rate: 900,000 seeds/acre
Harvest Date: July 29, 2023
Fertility: 30 lbs P/A as 40 rock, early Spring application of 20 lbs N, followed by 10 lbs N with Amber
Herbicide/Fungicides: 2 pints Prowl H2O in spring
Soil Type: Johnstown-Satanta-Richfield loams
GPS: 41.17432, -102.247141
Planting Info: Good soil moisture at seeding depth of 1.5-1.75". Planted into tilled wheat fallow on 10" centers.
Notes on Trial: Excellent stand and yields, timely spring rains and no hail contributed to good conditions.

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