



UNIVERSITY of NEBRASKA
LINCOLN

Red Willow 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)
NHH19668	UNL-Experimental	81.9	58.2	10.1	28.1	14.1
ARMOR EXP65AX	ARMOR	77.3	57.3	10.4	30.5	15.8
LCS Steel AX	Limagrain	76.8	55.4	9.7	31.1	16.1
ARMOR EXP55	ARMOR	75.1	57.0	10.4	29.6	12.2
AP Bigfoot	AgriPro	75.1	59.3	11.0	29.0	16.6
NE19619	UNL-Experimental	75.1	56.5	11.3	31.0	12.8
Rockstar	Polansky Seed, Inc.	74.5	57.4	11.1	27.8	14.0
WB4595	WestBred	74.3	59.6	10.7	28.3	15.0
NHH17612	UNL-Experimental	73.9	59.3	10.7	29.1	15.6
KS Territory	Kansas Wheat Alliance	73.7	58.5	10.9	28.4	13.4
NE17441	UNL-Experimental	73.6	58.8	11.0	29.7	13.5
WB4422	WestBred	73.4	58.8	10.4	28.3	14.9
NE16562	UNL-Experimental	73.0	57.0	10.5	28.4	15.6
NW15443	UNL-Experimental	72.6	56.3	10.3	30.0	11.7
Freeman	Husker Genetics	72.4	57.3	10.5	29.6	14.2
NE17443	UNL-Experimental	72.1	57.8	11.0	26.4	14.7
MS Maverick	Meridian Seeds	71.9	58.0	11.4	29.2	13.3
NE18455	UNL-Experimental	71.4	57.2	10.4	27.8	16.5
SY Wolverine	AgriPro	71.2	58.4	10.6	26.2	14.4
CP7266AX	CROPLAN	70.6	57.5	10.3	28.8	15.6
WB4510CLP	WestBred	70.1	59.3	10.3	31.1	13.7
NE19590	UNL-Experimental	69.9	57.0	10.9	30.2	15.3
MS Sundown	Meridian Seeds	69.8	58.4	10.0	29.6	15.1
SY Legend CL2	AgriPro	69.6	57.9	11.3	28.7	13.8
Canvas	PlainsGold	69.5	57.9	10.7	28.2	16.7
NHH17450	UNL-Experimental	68.5	58.6	10.4	29.4	15.0
Ruth	Husker Genetics	67.7	56.8	10.5	29.1	15.5
Wesley	Husker Genetics	67.5	57.8	10.5	27.1	13.8
High Country	Polansky Seed, Inc.	67.3	58.9	11.0	27.1	17.1
LCS Valiant	Limagrain	65.9	56.4	10.9	26.5	14.6
Turkey	Check	65.3	58.8	11.1	38.7	13.9
Robidoux	Husker Genetics	64.7	56.8	10.8	29.4	15.3
WB4418	WestBred	64.5	56.9	10.9	26.7	17.7

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	64.2	58.0	11.2	28.3	13.6
CP7050AX	CROPLAN	63.6	59.9	11.3	27.4	15.8
CP7017AX	CROPLAN	63.3	58.7	10.4	28.5	15.0
AP 18AX	AgriPro	62.4	54.7	11.6	27.3	15.9
Scout 66	Check	59.6	58.6	11.8	37.5	13.0
LCS Atomic AX	Limagrain	59.4	57.7	10.6	27.5	14.1
	Standard Error	3.3	0.7	0.4	1.1	0.5
	LSD⁴	5.4	1.1	0.7	1.9	0.8
	Mean⁵	70.0	57.7	10.8	29.1	14.8
	CV⁶	4.7	1.2	3.8	3.9	3.3
	Reps	5	4	2	4	2

SITE INFORMATION

Collaborator: Randon and Randy Peters, Peters Seed Farm, McCook, NE
 Planting Date: September 29, 2022
 Seeding Rate: 1 million seeds/acre
 Harvest Date: July 17, 2023
 Fertility: 30 lb/acre phosphorus as 40 Rock at planting, 22 gal/acre 30-0-0-3 in April
 Herbicide/Fungicides: .56 oz Amber in September 2022, Trivapro and 4 oz Tebustar in June
 Soil Type: Keith and Blackwood silt loams
 GPS: 40.176476, -100.7605
 Planting Info: Planted into no-till corn fallow on 10" centers using a no-till drill. Decent soil moisture at a planting depth of 1.25-1.5", some places had heavy residue.
 Notes on Trial: Excellent stand and yields, with slightly lower than optimal test weights due to rains close to harvest. Minimal to no hail impacts on the plot area.

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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.