



UNIVERSITY of NEBRASKA
LINCOLN

Perkins 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	79.5	58.0	10.5	32.0	16.7
ARMOR EXP55	ARMOR	79.1	58.2	11.0	29.3	11.8
CP7266AX	CROPLAN	77.9	58.4	11.5	29.4	14.7
Canvas	PlainsGold	74.7	58.3	11.3	29.2	16.1
WB4510CLP	WestBred	74.3	60.9	10.8	30.2	12.8
Ruth	Husker Genetics	72.9	58.3	10.8	31.4	14.2
AP 18AX	AgriPro	71.9	57.2	10.7	28.8	13.6
AP Bigfoot	AgriPro	71.8	58.5	12.5	29.1	15.1
ARMOR EXP65AX	ARMOR	71.7	58.3	11.1	30.3	13.6
High Country	Polansky Seed, Inc.	70.5	58.8	11.2	26.9	14.7
SY Legend CL2	AgriPro	69.9	59.5	11.5	30.0	12.2
NE19619	UNL-Experimental	69.7	57.5	12.0	33.1	12.8
AP Roadrunner	AgriPro	69.4	58.4	11.7	30.4	14.0
NE19590	UNL-Experimental	69.3	58.2	10.8	31.0	14.5
NW15443	UNL-Experimental	69.0	57.4	11.3	32.8	12.6
CP7017AX	CROPLAN	68.7	59.0	10.1	29.4	14.1
KS Territory	Kansas Wheat Alliance	68.1	58.3	11.5	30.8	14.2
NE16562	UNL-Experimental	67.6	57.9	11.7	28.5	14.7
MS Maverick	Meridian Seeds	67.5	59.3	11.5	28.7	12.7
NHH17612	UNL-Experimental	67.3	58.8	11.3	29.7	15.0
Freeman	Husker Genetics	66.9	57.0	11.2	29.8	13.2
Rockstar	Polansky Seed, Inc.	66.6	58.2	11.9	27.0	12.5
MS Sundown	Meridian Seeds	66.5	59.2	10.5	30.7	14.2
SY Wolverine	AgriPro	66.2	58.3	11.8	27.4	13.9
WB4595	WestBred	65.9	60.6	10.8	28.7	14.6
Robidoux	Husker Genetics	65.4	57.8	11.2	30.5	14.0
LCS Atomic AX	Limagrain	65.4	57.9	11.9	28.5	12.6
WB4418	WestBred	64.9	57.4	11.6	27.2	15.4
NHH17450	UNL-Experimental	64.4	57.9	11.5	32.6	15.4
WB4422	WestBred	64.2	59.6	11.4	26.5	13.5
NE17441	UNL-Experimental	64.0	58.7	12.2	31.0	12.6
LCS Julep	Limagrain	63.8	59.6	11.9	28.4	12.6

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.

NHH19668	UNL-Experimental	63.5	58.5	11.3	29.1	14.3
NE18455	UNL-Experimental	63.2	58.0	11.6	30.2	16.0
CP7050AX	CROPLAN	63.0	59.5	13.1	29.9	15.7
NE17443	UNL-Experimental	61.5	58.6	11.6	27.7	13.6
Wesley	Husker Genetics	59.6	58.0	12.1	28.2	12.6
Scout 66	Check	59.0	58.7	12.3	38.3	12.5
LCS Valiant	Limagrain	57.5	58.3	11.5	26.6	14.1
Turkey	Check	55.8	58.9	12.7	38.3	13.1
	Standard Error	4.8	0.4	0.6	1.2	0.8
	LSD³	8.0	0.7	1.0	2.0	1.3
	Mean⁴	67.5	58.5	11.5	29.9	13.9
	CV⁵	7.2	0.7	5.0	4.0	5.6
	Reps	4	4	2	4	2

SITE INFORMATION

Collaborator:	UNL Stumpf Farm, Grant, NE
Planting Date:	September 21, 2022
Seeding Rate:	1 million seeds/acre
Harvest Date:	July 21, 2023
Fertility:	30 lbs P/A as 40 Rock at planting
Herbicide/Fungicides:	2 pints Prowl H2O and 6 oz LV6 in spring
Soil Type:	Mace silt loam and Rosebud-Canyon loam
GPS:	40.845372, -101.705381
Planting Info:	Planted 1-1.25" into very dry soil using 10" row spacing on a no-till drill in no-till corn fallow
Notes on Trial:	Good yields and acceptable test weights and protein, field had some grassy weed pressure and drought conditions in the fall. Harvest delayed by late season rains.

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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.