Keith 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)
ARMOR EXP55	ARMOR	**94.1**	57.7	9.8	30.4	12.5
WB4422	WestBred	**93.4**	**59.3**	10.1	31.3	15.0
High Country	Polansky Seed, Inc.	**90.9**	58.6	10.0	29.6	16.0
NE19619	UNL-Experimental	**90.4**	58.4	9.6	37.6	12.9
Ruth	Husker Genetics	**89.0**	58.1	10.0	33.4	14.6
NE18455	UNL-Experimental	**88.5**	57.3	9.8	30.6	17.0
ARMOR EXP65AX	ARMOR	**88.3**	58.5	10.0	30.0	14.3
AP Bigfoot	AgriPro	**87.9**	58.5	**10.5**	29.9	16.5
MS Maverick	Meridian Seeds	**87.9**	**59.7**	9.9	31.2	13.0
MS Sundown	Meridian Seeds	**86.0**	**58.9**	10.0	31.3	14.6
LCS Valiant	Limagrain	**85.1**	57.2	10.0	29.8	14.9
WB4418	WestBred	**84.9**	57.8	10.2	28.8	16.9
NE16562	UNL-Experimental	83.7	**59.0**	10.2	30.4	15.4
LCS Steel AX	Limagrain	83.3	54.1	8.3	34.8	19.1
Canvas	PlainsGold	83.2	58.3	9.7	32.2	17.1
NW15443	UNL-Experimental	82.7	58.3	9.9	35.9	12.2
NE17441	UNL-Experimental	82.3	**59.5**	10.1	32.2	13.5
NHH17450	UNL-Experimental	81.4	57.5	**10.6**	33.4	16.1
KS Territory	Kansas Wheat Alliance	81.4	**59.1**	9.7	30.8	13.6
NHH19668	UNL-Experimental	81.0	58.7	10.0	30.6	14.6
NHH17612	UNL-Experimental	80.7	**59.3**	**10.9**	31.3	15.9
CP7017AX	CROPLAN	80.4	57.9	10.4	28.8	16.6
CP7266AX	CROPLAN	80.2	57.8	9.6	32.0	14.7
Rockstar	Polansky Seed, Inc.	80.1	58.5	**11.1**	28.2	13.5
Wesley	Husker Genetics	79.5	56.5	**10.9**	30.3	12.8
LCS Julep	Limagrain	78.8	**58.9**	9.7	30.8	13.6
WB4595	WestBred	76.7	**60.3**	10.2	31.4	15.1
AP 18AX	AgriPro	76.7	56.0	9.7	28.4	14.7
NE17443	UNL-Experimental	76.7	57.2	10.1	30.2	14.5
SY Wolverine	AgriPro	74.1	57.1	9.8	27.4	15.0
Freeman	Husker Genetics	73.8	56.8	9.6	31.4	14.5
LCS Atomic AX	Limagrain	73.6	56.8	9.6	28.5	15.4

[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.

WB4510CLP	WestBred	72.3	58.0	10.4	34.4	14.3
SY Legend CL2	AgriPro	71.3	**58.9**	10.1	30.0	14.4
NE19590	UNL-Experimental	70.9	**58.8**	10.2	32.3	15.1
CP7050AX	CROPLAN	64.6	58.5	**10.8**	28.5	17.4
Robidoux	Husker Genetics	62.7	52.4	9.7	30.9	17.9
Turkey	Check	61.2	58.7	**10.7**	38.8	14.3
Scout 66	Check	60.9	**59.0**	**10.8**	36.8	13.2
	Standard Error	5.6	0.9	0.4	1.4	1.0
	LSD[3]	9.3	1.5	0.6	2.2	1.6
	Mean[4]	9.6	57.6	10.1	31.4	15.0
	CV[5]	7.0	1.5	3.7	4.3	6.4
	Reps	4	4	2	4	2

SITE INFORMATION

Collaborator:	UNL West Central Water Resources Field Lab, Brule, NE
Planting Date:	September 27, 2022
Seeding Rate:	1 million seeds/acre
Harvest Date:	July 27, 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:	Kuma loam
GPS:	41.162919, -101.991881
Planting Info:	Seeded into no-till corn fallow at 1.25-1.5" in somewhat dry soil using no-till drill on 10" centers.
Notes on Trial:	Good yields and acceptable test weights and protein, field had some grassy weed pressure requiring weed cleanup before harvest.

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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.

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