



UNIVERSITY of NEBRASKA
LINCOLN

Box Butte County Irrigated 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	104.4	56.1	11.9	37.7	14.7
ARMOR EXP55	ARMOR	100.2	54.1	12.7	33.6	13.6
CP7017AX	CROPLAN	100.1	56.5	13.1	34.8	14.9
WB4699	WestBred	97.0	53.8	11.7	34.3	18.5
NE18435	UNL-Experimental	95.3	55.8	12.5	34.2	15.5
Wesley	Husker Genetics	93.3	53.0	13.7	34.5	14.9
WB4523	WestBred	92.0	54.4	11.6	32.8	17.0
Crescent AX	PlainsGold	91.9	55.3	12.7	36.7	13.7
SY Wolverine	AgriPro	90.8	53.6	13.4	32.5	14.3
WB4595	WestBred	88.8	56.1	12.1	36.3	16.0
Canvas	PlainsGold	88.7	56.0	12.5	35.0	16.0
WB4418	WestBred	88.3	51.8	12.9	33.0	18.0
NE19454	UNL-Experimental	88.1	55.9	13.0	34.9	16.0
ARMOR EXP65AX	ARMOR	86.9	53.1	13.3	36.2	17.8
WB4303	WestBred	86.7	52.9	12.5	31.6	13.3
LCS Valiant	Limagrain	84.3	52.6	13.6	35.4	16.4
NE17441	UNL-Experimental	82.8	54.0	13.8	36.7	15.3
NE19590	UNL-Experimental	82.6	53.5	13.2	35.5	16.1
Epoch	NuHorizon Genetics	82.4	54.2	13.3	34.5	16.4
WB4422	WestBred	82.4	54.6	13.8	34.0	15.2
LCS Julep	Limagrain	82.0	54.0	13.5	34.0	14.8
LCS Atomic AX	Limagrain	80.6	54.7	13.4	34.8	15.0
NI17410	UNL-Experimental	80.1	53.6	13.9	35.7	15.7
CP7266AX	CROPLAN	80.0	53.7	13.2	36.0	16.5
NHH17612	UNL-Experimental	79.5	55.6	13.1	34.7	16.3
CP7050AX	CROPLAN	76.8	53.9	14.5	37.2	16.5
AP Roadrunner	AgriPro	74.4	53.6	13.3	36.2	16.1
NHH17450	UNL-Experimental	72.1	53.1	13.9	38.7	15.9
Scout 66	Check	71.7	54.6	14.4	48.5	14.2
Turkey	Check	68.5	54.2	15.1	48.5	16.7

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.

	Standard Error	3.7	0.6	0.3	1.6	0.9
	LSD³	6.1	1.1	0.6	2.7	1.6
	Mean⁴	85.8	54.3	13.2	36.0	15.7
	CV⁵	4.3	1.2	2.6	4.4	5.7
	Reps	4	4	2	4	2

SITE INFORMATION

Collaborator: Chris and Tom Cullan, Cullan Farms Seed, Hemingford, NE
 Planting Date: September 15, 2022
 Seeding Rate: 1.25 mil seeds/acre
 Harvest Date: August 2, 2023
 Fertility: 30 lb/acre phosphorus as 40 Rock at planting, 50 lb N topdressed in spring
 Herbicide/Fungicides: LV6 and Affinity in the fall, 2.4 pts Prowl H2O with 6 oz LV6 in April, Onset fungicide
 Soil Type: Rosebud and Alliance loams
 GPS: 42.289789, -103.01454
 Planting Info: Excellent soil moisture at seeding depth of 1.75". Planted into tilled dry bean residue.
 Notes on Trial: Excellent stand and spring growth fueled by timely rains. However, late hail impacted yields.

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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.