



UNIVERSITY of NEBRASKA
LINCOLN

Box Butte County Irrigated 2024 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Grain Weight (1000 seeds/lb)
WB4422	WestBred	107.5	61.6	7.6	34.8	12.7
LCS Helix AX	Limagrain	106.9	60.2	6.9	33.0	11.8
NE18435	UNL	106.7	59.7	6.5	33.2	12.5
Canvas	PlainsGold	106.5	59.9	6.6	32.5	14.3
SY Wolverine	AgriPro	105.3	59.5	7.1	30.5	12.5
LCS Atomic AX	Limagrain	103.9	58.9	7.0	34.8	11.2
WB4523	WestBred	103.7	58.0	6.6	31.2	13.8
Amplify SF	PlainsGold	102.7	60.6	7.9	34.5	14.0
CP7220	Croplan	102.5	59.0	7.9	35.2	11.3
LCS Steel AX	Limagrain	102.4	58.3	6.0	36.2	13.8
WB4699	WestBred	102.4	57.9	6.1	33.2	15.1
CO18D297R	PlainsGold	101.9	60.5	7.0	32.8	13.4
WB4445CLP	WestBred	101.6	60.0	6.7	33.8	11.9
LCS Radar	Limagrain	100.2	58.5	7.7	32.5	13.0
AR Iron Eagle 22AX	Armor	99.6	59.6	7.0	31.0	12.8
Windom SF	PlainsGold	99.5	60.3	6.1	32.2	12.1
AR Iron Eagle 33AX	Armor	98.8	58.0	7.6	35.3	13.5
CP7266AX	Croplan	98.5	57.7	7.1	33.5	12.8
Crescent AX	PlainsGold	98.3	59.4	6.6	35.7	14.2
NE17441	UNL	98.2	59.2	7.2	34.3	12.8
CP7017AX	Croplan	97.8	59.7	6.5	32.2	13.0
Epoch	NuHorizon Genetics	97.2	59.1	7.5	34.5	13.2
NI17410	UNL	95.9	59.1	7.1	32.7	12.6
NE19454	UNL	94.9	60.6	7.2	32.7	13.0
WB4303	WestBred	94.2	56.4	7.5	33.2	13.3
NEB145-12	UNL	93.2	59.4	7.8	37.8	12.4
Wesley	Husker Genetics	91.9	59.0	7.8	31.0	11.6
NE Prism CLP	NuHorizon Genetics	91.7	59.4	7.2	35.3	13.3
Scout 66	Check	73.7	58.9	8.0	42.0	11.9
Turkey	Check	70.7	59.1	8.5	44.7	13.9

¹ Yield values corrected to 12% moisture content. Bolded values indicate highest LSD grouping.

² Protein corrected to 14% moisture content, the correction factor used in analytical standards.

	Standard Error	3.7	0.4	0.6	1.5	0.9
	LSD³	6.1	0.7	1.1	2.5	1.6
	Mean⁴	98.3	59.3	7.1	34.2	12.9
	CV⁵	3.7	0.7	8.9	4.4	7.2
	Reps	4	4	2	4	2

SITE INFORMATION

Collaborator:	Tom Cullan and Cullan Farm Seed
Planting Date:	9/20/2023
Seeding Rate:	1,750,000 seeds/a
Harvest Date:	7/24/2024
Fertility:	50 lb/a 40 Rock in-furrow at planting; top dressed with 120 lb/a N, 20 lb/a K, 20 lb/a S and 2 lb/a Mn with a nitrogen stabilizer in late March
Herbicide/Fungicides:	Aerially applied herbicide in May of 0.6 oz/a Affinity, 6oz/a Pixxaro, 3.5 oz/a Nexicor; 4 oz/a Masterlock; Onset fungicide sprayed at flag leaf.
Soil Type:	Rosebud and Alliance loams
GPS:	42.286999, -103.033254
Planting Info:	Planted 1.5-2" deep into tilled dry bean stubble using double disk drill on 10" centers
Notes on Trial:	Early bean harvest allowed earlier than anticipated planting date. Excellent fall stand and growth. Some stripe rust late in the season that had little to no effect on final yield. Fungicide application at flag leaf provided good residual protection.

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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 plots 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.