



UNIVERSITY of NEBRASKA
LINCOLN

Perkins County Irrigated 2025 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)
KS Bill Snyder	Kansas Wheat Alliance	106.3	59.9	10.1	34.0
NEB148-42	UNL-Experimental	105.0	60.5	10.9	35.3
LCS Steel AX	Limagrain Cereal Seeds	96.4	59.4	11.0	36.5
WB4523	WestBred	95.9	58.8	9.8	32.3
Canvas	PlainsGold	95.5	59.6	10.7	33.8
WB4699	WestBred	94.4	57.4	9.8	32.8
Sheridan	PlainsGold	94.2	58.9	11.1	35.0
NE18435	UNL-Experimental	94.2	59.1	10.6	33.0
AR Iron Eagle 22AX	Armor	93.7	58.9	10.5	31.0
CP7869	Croplan	93.7	58.3	10.9	31.5
CO19D087R	CSU-Experimental	93.5	57.6	11.0	29.0
LCS Helix AX	Limagrain Cereal Seeds	93.0	59.1	10.9	32.8
CP7017AX	Croplan	92.8	59.0	10.6	31.5
FVC Valley	FVC	92.8	58.0	10.7	34.8
NE18455	UNL-Experimental	92.4	57.7	10.9	35.3
AR Turret 25	Armor	92.3	58.7	11.0	31.3
WB4640	WestBred	92.1	59.6	10.8	34.5
LCS Radar	Limagrain Cereal Seeds	91.9	58.1	11.3	32.5
WB4422	WestBred	91.9	60.8	10.9	34.8
NE20620	UNL-Experimental	91.9	58.8	11.1	35.8
NE22252	UNL-Experimental	91.8	58.0	11.6	38.3
WB4303	WestBred	91.8	55.8	11.1	32.3
NE17441	UNL-Experimental	91.3	59.2	11.3	36.3
LCS Mojo	Limagrain Cereal Seeds	91.1	58.9	10.7	33.3
NHH19668	UNL-Experimental	91.1	59.8	11.3	34.0
WB4445CLP	WestBred	90.8	58.9	11.5	33.8
LCS Aries	Limagrain Cereal Seeds	90.0	58.0	10.5	33.3
NEB145-12	UNL-Experimental	90.0	57.5	10.6	36.3
Wesley	NuHorizon Genetics	89.6	57.2	12.8	32.3
LCS Valiant	Limagrain Cereal Seeds	88.5	58.6	12.0	32.5
AP Sunbird	AgriPro	87.7	54.7	11.1	31.8
WB4595	WestBred	87.7	61.1	9.7	34.8
Epoch	Nu Horizon Genetics	87.2	57.8	11.2	34.5

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. Turkey and Scout 66 excluded from protein LSD groups due to known high protein contents.

Name	Company	Yield (bu/ac)	Test Weight (lb/bu)	Protein (%)	Plant Height (in)
Scout 66	Check	66.3	56.8	12.6	42.0
Turkey	Check	63.0	55.8	12.8	44.0
Summary Statistics					
Standard Error		2.8	0.8	0.3	1.0
LSD ³		4.6	1.4	0.6	1.7
Mean ⁴		91.2	58.5	11.1	34.2
CV ⁵		3.0	1.4	3.1	3.0
Reps		4	4	2	4

SITE INFORMATION

Collaborator:	Justin Richardson, UNL Stumpf International Wheat Research Center, Grant, NE
Planting Date:	10/4/2025
Seeding Rate:	1.75 million s/a
Harvest Date:	7/29/2025
Fertility:	50 lb/a 40 Rock applied in-furrow at planting; 32 gal/a 28-0-0-5, 0.4 gal/a Royal Green All Purpose., 1 lb/a Dry Humik blend chemigated across two sequential 0.5" irrigation events.
Herbicide/Fungicides:	32 oz/a Buccaneer 5, 0.56 oz/a Amber applied preplant;
Soil Type:	Kuma and Mace silt loams
GPS:	40.853784, -101.69871
Planting Info:	Planted 1.5" into no-till soybean stubble approximately 2-3 days after soybean harvest.
Notes on Trial:	No significant differences detected between varieties for kernel weight, which averaged 14,470 kernels per pound for the trial. 3" of irrigation applied in the fall post-plant; 2" applied in the spring before fertilizer; 1" total with fertigation; 2" applied post-fertigation up through early July. Several late spring rain events totaled an estimated additional 10" of precipitation.

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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.