



UNIVERSITY of NEBRASKA
LINCOLN

Scotts Bluff County Irrigated 2025 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Grain Weight (1000 seeds/lb)
CO19D087R	CSU-Experimental	99.3	56.4	10.0	28.3	16.79
AP Sunbird	AgriPro	98.1	60.4	10.9	31.6	14.96
CP7017AX	Croplan	97.0	58.9	9.8	30.0	19.64
NE20620	UNL-Experimental	96.2	59.5	10.6	34.9	13.56
NEB148-42	UNL-Experimental	96.2	57.5	11.3	34.8	18.45
LCS Helix AX	Limagrain Cereal Seeds	95.8	58.7	10.0	32.3	13.53
NE22252	UNL-Experimental	95.1	59.6	11.2	35.1	12.59
WB4303	WestBred	94.7	55.5	11.3	29.1	15.77
NHH19668	UNL-Experimental	93.6	58.7	10.9	31.9	14.76
AR Iron Eagle 22AX	Armor	93.4	59.6	10.3	30.2	14.93
Canvas	PlainsGold	92.8	57.1	10.4	30.5	15.10
LCS Mojo	Limagrain Cereal Seeds	91.5	56.7	10.9	33.9	16.14
CP7869	Croplan	91.1	58.3	10.7	29.8	13.83
WB4640	WestBred	90.9	56.3	11.2	31.8	15.76
WB4699	WestBred	89.6	56.2	10.3	29.8	19.20
Sheridan	PlainsGold	88.8	58.2	10.3	34.5	16.64
NEB145-12	UNL-Experimental	88.4	57.0	10.4	33.7	14.56
AR Turret 25	Armor	88.3	57.9	10.8	31.2	14.48
FVC Valley	FVC	88.1	57.9	10.3	36.5	16.06
NE17441	UNL-Experimental	87.6	57.5	10.9	34.8	15.44
WB4595	WestBred	87.5	57.7	10.1	32.5	17.49
LCS Valiant	Limagrain Cereal Seeds	86.8	57.0	10.9	29.5	15.41
WB4523	WestBred	86.7	54.0	11.0	27.3	22.94
NE18435	UNL-Experimental	86.7	58.5	10.6	31.0	16.34
LCS Steel AX	Limagrain Cereal Seeds	86.4	56.5	10.8	36.4	17.79
Wesley	NuHorizon Genetics	85.4	56.4	12.3	30.6	14.62
LCS Radar	Limagrain Cereal Seeds	85.4	57.6	10.9	29.3	13.39
Epoch	Nu Horizon Genetics	85.2	56.8	11.4	29.7	15.98
NE18455	UNL-Experimental	84.7	58.1	10.4	33.4	16.08
WB4445CLP	WestBred	84.0	58.8	11.1	30.5	13.98
WB4422	WestBred	83.6	57.4	11.8	32.5	16.46
LCS Aries	Limagrain Cereal Seeds	82.4	58.6	10.0	31.9	13.57
KS Bill Snyder	Kansas Wheat Alliance	81.0	58.8	11.2	29.8	15.59

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)	Grain Weight (1000 seeds/lb)
Turkey	Check	64.5	56.8	12.7	41.8	16.06
Scout 66	Check	62.4	59.1	11.8	41.6	13.61
Summary Statistics						
Standard Error		2.5	0.7	0.4	1.0	1.62
LSD ³		4.2	1.2	0.7	1.6	2.76
Mean ⁴		88.3	57.7	10.8	32.4	15.76
CV ⁵		2.8	1.3	3.5	3.0	10.3
Reps		4	4	2	4	2

SITE INFORMATION

Collaborator:	Pioneer Trails Ag, Russell Mills
Planting Date:	10/3/2025
Seeding Rate:	1.75 million s/a
Harvest Date:	7/17/2025
Fertility:	120 units urea applied in spring
Herbicide/Fungicides:	1 pt/a 2,4D LV6 applied in early April
Soil Type:	Mitchell silt loam
GPS:	41.902676, -103.783869
Planting Info:	Planted 1.5" into tilled ground after dry bean harvest,
Notes on Trial:	Excellent fall growth and stands with fall irrigation the day after planting. Frequent spring irrigation was started early in the spring, then supplemented by good late spring rains. A significant hailstorm before harvest likely resulted in ~20% yield loss. Surrounding field was planted to a blend of WB4523 and WB4595 and had average yield of 85 bu/a.

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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.