



UNIVERSITY of NEBRASKA  
LINCOLN

## Clay County Limited Irrigation 2025 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) <sup>1</sup>	Test Weight (lb/bu)	Protein (%) <sup>2</sup>	Plant Height (in)	Grain Weight (1000 seeds/lb)
NEB148-42	UNL-Experimental	<b>103.8</b>	59.9	11.9	33.2	12.34
AP Sunbird	AgriPro	<b>102.7</b>	59.9	10.8	31.0	11.33
AG Golden	AGSECO	<b>101.0</b>	58.9	10.8	30.3	12.00
NHH19668	UNL-Experimental	<b>100.0</b>	59.8	11.4	33.5	11.48
WB4347	WestBred	<b>99.6</b>	60.1	<b>12.1</b>	32.9	10.94
CP7017AX	Croplan	<b>99.5</b>	59.3	11.2	31.0	12.34
KS Providence	Kansas Wheat Alliance	98.4	59.3	11.0	32.0	11.45
WB4401	WestBred	98.1	59.1	10.9	32.4	10.81
AR Iron Eagle 22AX	Armor	98.0	59.3	10.6	30.8	12.07
WB4595	WestBred	95.7	<b>60.6</b>	10.6	34.6	12.25
NE22342	UNL-Experimental	95.4	59.5	11.6	34.9	11.90
NE18435	UNL-Experimental	94.9	59.7	11.8	32.4	12.89
WB4422	WestBred	94.9	<b>60.3</b>	<b>12.2</b>	33.3	11.12
KS Bill Snyder	Kansas Wheat Alliance	94.8	59.2	11.5	31.6	12.12
LCS Aries	Limagrain Cereal Seeds	94.8	59.7	11.4	32.8	12.70
AP Bigfoot	AgriPro	94.1	59.3	11.3	31.1	13.59
WB4445CLP	WestBred	93.9	59.3	<b>12.4</b>	31.6	11.87
Paradise	Polansky Seed, Inc.	93.5	59.7	11.7	31.9	11.71
KS Mako	Kansas Wheat Alliance	93.2	59.6	11.4	32.3	12.83
Wesley	NuHorizon Genetics	93.0	58.8	<b>12.2</b>	32.7	11.29
CP7869	Croplan	92.4	59.0	11.3	31.4	11.42
Golden Hawk	Polansky Seed, Inc.	92.2	59.0	<b>12.6</b>	33.5	12.92
NE18445	UNL-Experimental	92.2	59.4	11.5	34.0	11.26
AP Prolific	AgriPro	92.2	59.3	11.7	34.2	12.38
AR Turret 25	Armor	91.8	59.1	11.8	31.5	10.94
NE18455	UNL-Experimental	91.7	59.2	11.6	33.8	13.57
WB4523	WestBred	90.6	58.9	10.7	30.3	14.03
Rockstar	Polansky Seed, Inc.	89.6	58.7	<b>12.1</b>	31.1	11.91
LCS Valiant	Limagrain Cereal Seeds	89.5	59.4	<b>12.6</b>	31.3	12.28
NE17441	UNL-Experimental	88.2	59.7	11.6	34.3	12.29
NEB145-12	UNL-Experimental	83.6	58.6	11.2	36.8	12.17
Siege	Nu Horizon Genetics	80.8	<b>60.5</b>	11.4	32.4	11.55
Ruth	Nu Horizon Genetics	69.3	58.6	11.9	34.1	13.12

<sup>1</sup> Yield values corrected to 12% moisture content. Bolded values indicate highest LSD grouping.

<sup>2</sup> 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)
Scout 66	Check	63.3	59.8	12.6	36.6	12.32
Turkey	Check	62.7	59.4	12.8	39.2	13.06
Summary Statistics						
Standard Error		2.7	0.2	0.3	1.2	0.45
LSD <sup>3</sup>		4.4	0.4	0.6	2.0	0.77
Mean <sup>4</sup>		91.7	59.4	11.6	32.9	12.12
CV <sup>5</sup>		2.9	0.4	2.9	3.7	3.7
Reps		4	4	2	4	2

### SITE INFORMATION

Collaborator:	USDA MARC
Planting Date:	10/8/2024
Seeding Rate:	1.2 million s/a
Harvest Date:	7/23/2025
Fertility:	50 lb/a 40 Rock applied in-furrow with planting; 20 gal/a 32-0-0 applied in March
Herbicide/Fungicides:	0.4 oz/a Finesse + 14.5 oz/a MCPA in March; 3 oz/a Zidua in May; 13 oz/a Nexicor fungicide also in May
Soil Type:	Butler, Crete, and Hastings silt loams, Hastings silty clay loam
GPS:	Restricted access site, NA
Planting Info:	Planted 1.5" into dry tilled soil
Notes on Trial:	Test weights likely negatively influenced by persistent rains delaying harvest. Overall yields reflected very clean and uniform field, with excellent stand and protein. Rescue irrigation was used sparingly but critical in fall to establish good stand.

Special thanks to Mr. Greg Dorn for completing the harvest and Ms. Liz Bardot for providing technical support and logistics to data collection.

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<sup>3</sup> For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

<sup>4</sup> Mean performance of all plots in the trial.

<sup>5</sup> 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.