



UNIVERSITY of NEBRASKA  
LINCOLN

## Furnas County Rainfed 2024 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)
AP Prolific	AgriPro	<b>113.3</b>	54.0	10.1	30.0	15.5
WB4401	WestBred	<b>110.5</b>	53.7	9.6	30.6	13.1
WB4422	WestBred	<b>109.0</b>	54.0	10.9	28.5	18.5
WB4523	WestBred	<b>105.9</b>	51.0	10.0	29.8	19.0
Rockstar	Polansky Seed, Inc.	<b>105.3</b>	53.7	10.5	28.5	15.6
KS Providence	Kansas Wheat Alliance	102.8	52.9	10.6	31.4	14.1
WB4792	WestBred	101.8	54.6	9.3	36.2	17.7
WB4595	WestBred	101.0	<b>55.4</b>	9.3	30.5	16.0
WB4699	WestBred	99.2	50.3	9.3	30.9	19.6
NE16562	UNL	99.0	54.5	9.7	31.5	17.2
AR Iron Eagle 22AX	Armor	98.7	<b>55.1</b>	10.1	27.8	15.7
LCS Atomic AX	Limagrain	98.6	<b>55.1</b>	10.5	29.6	13.6
CP7220	Croplan	96.8	53.5	10.8	31.9	16.1
Golden Hawk	Polansky Seed, Inc.	96.5	52.8	10.4	26.2	17.0
AP Bigfoot	AgriPro	95.4	53.1	9.8	27.8	17.8
NW15443	UNL	95.3	53.8	10.2	33.2	13.7
Siege	NuHorizon Genetics	95.1	<b>54.8</b>	11.1	26.8	17.6
WB4445CLP	WestBred	94.7	54.7	10.5	27.0	15.3
NI17410	UNL	92.4	<b>55.5</b>	10.2	28.8	16.0
CO18D297R	PlainsGold	91.6	54.5	10.2	31.7	18.2
NE17441	UNL	91.5	<b>55.2</b>	10.9	28.3	15.0
Wesley	Husker Genetics	91.5	52.3	10.9	26.9	15.6
LCS Steel AX	Limagrain	91.4	52.6	10.1	28.5	18.7
NE18435	UNL	90.7	54.1	9.9	27.0	17.1
Ruth	NuHorizon Genetics	90.6	54.3	10.4	29.4	16.8
NHH19668	UNL	90.2	54.4	9.8	31.9	15.6
CP7266AX	Croplan	89.3	53.7	10.3	29.9	15.9
Paradise	Polansky Seed, Inc.	88.1	53.7	11.1	29.7	15.4
AR Iron Eagle 33AX	Armor	85.5	53.2	10.9	28.8	14.7
CP7017AX	Croplan	85.3	54.6	10.2	30.2	15.2
NE Prism CLP	NuHorizon Genetics	79.9	53.5	11.1	27.2	18.4
LCS Runner	Limagrain	76.7	53.6	9.9	26.0	16.6

<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.

<b>WB4510CLP</b>	WestBred	69.5	51.0	11.0	31.1	19.3
<b>Scout 66</b>	Check	57.2	54.5	12.3	30.2	13.6
<b>Turkey</b>	Check	48.3	52.3	<b>13.3</b>	24.8	16.3
	<b>Standard Error</b>	5.5	0.7	0.5	2.5	1.7
	<b>LSD<sup>3</sup></b>	9.2	1.1	0.8	4.3	3.0
	<b>Mean<sup>4</sup></b>	92.2	53.7	10.4	29.4	16.3
	<b>CV<sup>5</sup></b>	6.0	1.3	4.5	8.5	10.7
	<b>Reps</b>	4	4	2	2	2

### SITE INFORMATION

Collaborator:	Troy tenBensel
Planting Date:	9/21/2023
Seeding Rate:	1,200,000 seeds/a
Harvest Date:	7/8/2024
Fertility:	50 lb/a 40 Rock in-furrow at planting; 60 lb/a N, 60 lb/a P, 15 lb/a S, and 4 lb/a Zn applied in fall; 75 lb/a N and 15 lb/a S banded on in the spring.
Herbicide/Fungicides:	Chemfallow previous year (32 oz glyphosate with WEX), 5.5 oz Rave in the spring, and 7 oz/a Nexicor fungicide at flag leaf
Soil Type:	Holdrege silt loam
GPS:	40.325595, -99.932086
Planting Info:	Planted using a no-till drill on 10" centers into good soil moisture on no-till corn fallow
Notes on Trial:	Excellent stand and tillering in the field. Some mild to moderate disease pressure from Fusarium head blight and stripe rust. Test weight values lower than expected due to late season rainfall delaying harvest. Plot harvesting equipment often measures test weight slightly lower, however, relative differences are significant and reliable.

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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.