



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>136.0</b>	54.0	10.1	30.0	15.5
WB4401	WestBred	<b>132.6</b>	53.7	9.6	30.6	13.1
WB4422	WestBred	<b>130.8</b>	54.0	10.9	28.5	18.5
WB4523	WestBred	<b>127.1</b>	51.0	10.0	29.8	19.0
Rockstar	Polansky Seed, Inc.	<b>126.3</b>	53.7	10.5	28.5	15.6
KS Providence	Kansas Wheat Alliance	123.4	52.9	10.6	31.4	14.1
WB4792	WestBred	122.1	54.6	9.3	36.2	17.7
WB4595	WestBred	121.2	<b>55.4</b>	9.3	30.5	16.0
WB4699	WestBred	119.0	50.3	9.3	30.9	19.6
NE16562	UNL	118.8	54.5	9.7	31.5	17.2
AR Iron Eagle 22AX	Armor	118.5	<b>55.1</b>	10.1	27.8	15.7
LCS Atomic AX	Limagrain	118.3	<b>55.1</b>	10.5	29.6	13.6
CP7220	Croplan	116.2	53.5	10.8	31.9	16.1
Golden Hawk	Polansky Seed, Inc.	115.8	52.8	10.4	26.2	17.0
NW15443	UNL	114.4	53.8	10.2	33.2	13.7
AP Bigfoot	AgriPro	114.4	53.1	9.8	27.8	17.8
Siege	NuHorizon Genetics	114.1	<b>54.8</b>	11.1	26.8	17.6
WB4445CLP	WestBred	113.6	54.7	10.5	27.0	15.3
NI17410	UNL	111.0	<b>55.5</b>	10.2	28.8	16.0
CO18D297R	PlainsGold	109.9	54.5	10.2	31.7	18.2
NE17441	UNL	109.9	<b>55.2</b>	10.9	28.3	15.0
Wesley	Husker Genetics	109.8	52.3	10.9	26.9	15.6
LCS Steel AX	Limagrain	109.6	52.6	10.1	28.5	18.7
NE18435	UNL	108.9	54.1	9.9	27.0	17.1
Ruth	NuHorizon Genetics	108.6	54.3	10.4	29.4	16.8
NHH19668	UNL	108.3	54.4	9.8	31.9	15.6
CP7266AX	Croplan	107.1	53.7	10.3	29.9	15.9
Paradise	Polansky Seed, Inc.	105.8	53.7	11.1	29.7	15.4
AR Iron Eagle 33AX	Armor	102.5	53.2	10.9	28.8	14.7
CP7017AX	Croplan	102.3	54.6	10.2	30.2	15.2
NE Prism CLP	NuHorizon Genetics	95.9	53.5	11.1	27.2	18.4
LCS Runner	Limagrain	92.1	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	83.3	51.0	11.0	31.1	19.3
<b>Scout 66</b>	Check	68.6	54.5	12.3	30.2	13.6
<b>Turkey</b>	Check	57.9	52.3	<b>13.3</b>	24.8	16.3
	<b>Standard Error</b>	6.6	0.7	0.5	2.5	1.7
	<b>LSD<sup>3</sup></b>	11.0	1.1	0.8	4.3	3.0
	<b>Mean<sup>4</sup></b>	110.7	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.