



UNIVERSITY of NEBRASKA  
LINCOLN

## Jefferson 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)
KS Providence	Kansas Wheat Alliance	<b>128.3</b>	59.3	9.2	36.3	13.0
LCS Runner	Limagrain	<b>125.8</b>	60.2	8.5	37.3	13.0
WB4401	WestBred	<b>124.3</b>	59.4	8.6	35.5	12.1
WB4595	WestBred	<b>124.0</b>	<b>61.4</b>	8.6	33.3	13.7
WB4422	WestBred	<b>122.9</b>	60.7	9.2	34.8	12.9
AR Iron Eagle 22AX	Armor	<b>122.0</b>	60.0	9.0	32.8	13.3
CP7017AX	Croplan	<b>121.1</b>	59.3	8.5	33.7	12.8
Wesley	Husker Genetics	<b>120.5</b>	58.5	10.0	34.7	12.2
CO18D297R	PlainsGold	<b>120.4</b>	59.9	9.0	36.0	14.3
Golden Hawk	Polansky Seed, Inc.	119.1	58.7	10.1	34.0	13.8
NE18435	UNL	118.7	60.7	8.7	34.8	14.0
WB4792	WestBred	117.3	60.1	8.5	34.5	14.6
LCS Steel AX	Limagrain	116.9	57.5	8.9	36.7	14.6
NE17441	UNL	116.3	60.0	9.7	37.0	12.7
LCS Atomic AX	Limagrain	116.1	60.4	9.0	34.7	11.9
WB4510CLP	WestBred	115.1	59.8	9.5	35.5	14.0
NI17410	UNL	114.7	59.9	9.7	36.9	12.6
WB4445CLP	WestBred	114.5	60.2	9.6	33.9	12.4
NHH19668	UNL	113.3	59.1	9.1	35.3	13.1
AP Prolific	AgriPro	113.2	59.2	9.2	35.3	12.3
NE16562	UNL	112.7	59.2	9.3	36.0	13.8
CP7220	Croplan	112.2	59.5	9.4	34.9	11.9
NW15443	UNL	111.9	57.9	9.2	39.4	10.9
WB4523	WestBred	111.4	57.2	9.0	30.4	16.5
Rockstar	Polansky Seed, Inc.	109.6	57.8	9.6	33.9	13.0
WB4699	WestBred	107.7	57.8	8.5	30.7	16.3
Paradise	Polansky Seed, Inc.	107.5	60.4	9.9	34.4	12.1
Ruth	NuHorizon Genetics	104.6	59.0	8.8	37.5	12.7
NE Prism CLP	NuHorizon Genetics	104.0	59.2	9.4	37.0	14.6
AR Iron Eagle 33AX	Armor	103.2	59.0	9.4	36.1	13.6
CP7266AX	Croplan	102.3	59.2	9.4	35.9	14.0
Siege	NuHorizon Genetics	102.0	<b>60.8</b>	10.0	35.7	11.8

<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>AP Bigfoot</b>	AgriPro	99.4	59.4	9.6	33.0	14.3
<b>Scout 66</b>	Check	93.3	59.4	<b>10.9</b>	45.0	12.3
<b>Turkey</b>	Check	90.6	58.7	<b>10.8</b>	46.1	13.0
	<b>Standard Error</b>	4.9	0.4	0.3	0.6	0.4
	<b>LSD<sup>3</sup></b>	8.1	0.6	0.5	0.9	0.7
	<b>Mean<sup>4</sup></b>	113.1	59.4	9.3	35.7	13.3
	<b>CV<sup>5</sup></b>	4.3	0.6	3.2	1.6	3.1
	<b>Reps</b>	5	5	2	4	2

### SITE INFORMATION

Collaborator:	Mark Knobel, Knobel Seeds
Planting Date:	10/10/2023
Seeding Rate:	1,350,000 seeds/a
Harvest Date:	7/9/2024
Fertility:	100 lb/a N as 28-0-05 in March
Herbicide/Fungicides:	0.75 oz/a Harmony Extra with 7 oz/a generic Cover XL fungicide in March, 10 oz/a generic Cover XL at flag leaf; 13.75 oz/a Miravis Ace flown on during flowering
Soil Type:	Crete silt loam
GPS:	40.204335, -97.121373
Planting Info:	Drilled 2" into good soil moisture using a double disk drill on 9" centers after soybean harvest
Notes on Trial:	Excellent stand and yields with little winterkill or disease. Multiple fungicide applications protected crop from heavy stripe rust pressure in the area.

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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.