



UNIVERSITY of NEBRASKA
LINCOLN

Lincoln County Rainfed 2024 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Grain Weight (1000 seeds/lb)
WB4445CLP	WestBred	86.6	58.9	9.2	28.4	13.4
Golden Hawk	Polansky Seed, Inc.	86.0	58.0	9.3	30.5	14.9
Rockstar	Polansky Seed, Inc.	85.9	58.6	9.8	29.8	12.7
NE18445	UNL	85.7	59.0	9.7	31.5	14.2
WB4595	WestBred	85.5	61.0	8.9	30.7	12.8
NE16562	UNL	85.1	58.4	9.3	31.8	17.0
AP Sunbird	AgriPro	84.5	60.5	8.1	28.1	13.2
WB4347	WestBred	84.2	61.2	9.3	31.7	12.1
NE18455	UNL	84.2	58.4	10.0	30.7	15.0
NE19412	UNL	84.1	58.3	8.7	31.9	12.8
NE Prism CLP	NuHorizon Genetics	81.8	59.0	9.9	33.2	14.7
AP Roadrunner	AgriPro	81.6	58.6	9.2	33.3	14.4
Crescent AX	PlainsGold	80.9	58.5	8.9	29.1	11.9
Wesley	Husker Genetics	80.8	58.4	10.1	29.1	12.2
NHH19668	UNL	79.8	60.1	9.7	31.1	12.8
NE18435	UNL	79.5	59.5	8.8	29.2	14.1
Canvas	PlainsGold	78.8	59.7	9.8	30.6	14.5
WB4422	WestBred	78.8	59.4	11.1	30.0	13.1
LCS Radar	Limagrain	78.8	58.7	10.0	27.3	14.5
NEB145-12	UNL	78.4	58.9	9.0	33.8	12.2
KS Territory	Kansas Wheat Alliance	78.4	59.1	9.6	31.1	13.8
Robidoux	NuHorizon Genetics	78.3	58.5	9.0	31.3	13.1
CO18D297R	PlainsGold	78.2	57.9	9.1	31.1	14.3
NHH19651	UNL	78.0	59.1	10.7	33.3	13.7
AP 24AX	AgriPro	77.7	57.3	9.7	31.1	13.0
AP Bigfoot	AgriPro	77.4	58.4	9.5	29.6	15.1
NE19619	UNL	77.4	58.7	10.6	37.3	12.4
MS Maverick	Meridian Seeds	76.5	60.0	9.2	30.7	12.8
NE17441	UNL	76.1	58.8	9.6	32.6	13.7
CP7266AX	Croplan	74.0	57.4	8.8	30.8	13.8
LCS Steel AX	Limagrain	73.8	58.3	9.6	32.0	14.3
NW15443	UNL	72.9	57.8	8.8	33.7	11.6

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.

LCS Atomic AX	Limagrain	72.5	59.0	10.5	28.8	12.6
WB4510CLP	WestBred	72.4	61.3	9.0	30.4	12.8
AR Iron Eagle 22AX	Armor	71.0	59.5	7.7	26.8	14.0
CP7220	Croplan	70.7	59.8	10.0	31.3	12.0
AR Iron Eagle 33AX	Armor	70.6	57.6	9.6	31.2	14.5
NE19455	UNL	69.9	57.2	11.6	32.5	13.7
Ruth	NuHorizon Genetics	69.0	59.2	9.2	30.6	13.3
CP7017AX	Croplan	67.8	60.0	8.6	26.6	14.0
WB4792	WestBred	67.3	60.2	9.2	31.7	12.7
High Country	Polansky Seed, Inc.	67.2	58.2	9.2	28.7	14.8
Scout 66	Check	64.3	60.0	9.7	40.0	12.3
NE17544	UNL	63.6	58.6	10.5	31.5	13.6
Turkey	Check	61.1	59.0	10.8	38.7	12.8
	Standard Error	4.6	0.6	0.6	1.3	0.8
	LSD³	7.6	1.0	1.1	2.2	1.4
	Mean⁴	76.8	59.0	9.5	31.2	13.5
	CV⁵	5.9	1.0	6.6	4.3	6.3
	Reps	4	4	2	4	2

SITE INFORMATION

Collaborator:	UNL West Central Research and Extension Cent
Planting Date:	9/22/2023
Seeding Rate:	1,000,000 seeds/a
Harvest Date:	7/16/2024
Fertility:	50 lb/a 40 Rock in-furrow at planting; 10-34-0 applied pre-plant
Herbicide/Fungicides:	4 oz/a Tebucure 3.6 applied aerially for stripe rust
Soil Type:	Holdrege silt loam
GPS:	41.054367, -100.751452
Planting Info:	Drilled 1.75" into good soil moisture in no-till sorghum fallow with a no-till double disk drill on 10" centers.
Notes on Trial:	Stripe rust pressure late in season well-controlled by fungicide application, overall excellent stand and yields. Area received timely rains in spring/early summer.

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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.