



UNIVERSITY of NEBRASKA
LINCOLN

Banner 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)
LCS Helix AX	Limagrain	105.0	55.2	8.4	32.8	13.3
Steamboat	Crop Research Foundation of Wyoming, Inc.	102.3	55.6	9.1	37.0	13.2
AP Roadrunner	AgriPro	96.3	55.7	9.0	34.0	14.5
LCS Atomic AX	Limagrain	96.0	56.9	9.3	33.6	13.1
NE16562	UNL	95.7	54.5	9.8	34.9	16.1
LCS Steel AX	Limagrain	95.6	55.5	8.4	35.5	15.3
AR Iron Eagle 22AX	Armor	95.1	57.0	9.0	31.7	14.1
AP 24AX	AgriPro	93.9	54.8	9.2	35.1	14.1
Canvas	PlainsGold	93.8	56.6	8.7	29.5	15.7
Robidoux	NuHorizon Genetics	93.5	55.3	10.0	34.8	14.9
AP Sunbird	AgriPro	93.4	54.3	8.3	34.3	13.5
Whistler	PlainsGold	93.4	54.9	8.1	33.6	14.5
NE19619	UNL	92.9	54.5	10.1	35.5	12.9
CP7017AX	Croplan	91.6	56.8	8.4	32.5	13.8
NE18435	UNL	91.5	55.3	9.4	30.8	14.6
WB4445CLP	WestBred	91.4	57.3	10.1	32.2	14.1
NHH19668	UNL	91.4	55.6	9.6	34.3	14.2
NI17410	UNL	90.7	55.5	9.3	34.2	14.2
Ruth	NuHorizon Genetics	90.0	54.8	9.3	34.5	14.5
WB4595	WestBred	90.0	56.0	8.6	30.7	14.1
WB4422	WestBred	89.8	55.1	9.2	32.9	14.6
SY Legend CL2	AgriPro	89.7	54.8	9.4	31.6	13.6
NE19454	UNL	88.8	55.3	9.4	34.0	15.3
NEB145-12	UNL	88.6	56.9	9.5	34.6	12.9
NHH19651	UNL	88.1	54.2	10.1	36.4	14.4
WB4347	WestBred	87.6	55.3	10.0	33.3	12.5
Amplify SF	PlainsGold	87.4	53.9	9.6	32.6	14.6
Kivari AX	PlainsGold	87.1	54.4	8.4	33.1	14.7
NE17441	UNL	87.0	52.5	9.8	36.3	14.2
NE18455	UNL	86.2	53.8	9.4	32.5	15.5
NE Prism CLP	NuHorizon Genetics	86.2	55.2	10.0	33.7	16.2

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.

NE19590	UNL	86.1	54.0	8.7	35.3	16.2
WB4444	WestBred	86.0	53.3	11.1	31.2	13.7
NSF22113	UNL	85.8	55.6	10.4	36.2	13.5
NE17544	UNL	85.6	54.2	10.2	34.9	14.4
CP7266AX	Croplan	85.5	54.9	9.8	33.5	14.4
NW15443	UNL	85.5	54.3	9.4	34.9	12.4
AR Iron Eagle 33AX	Armor	85.4	54.8	9.4	34.3	14.3
LCS Julep	Limagrain	85.2	56.6	10.1	33.7	13.5
MS Maverick	Meridian Seeds	85.0	55.8	9.5	32.2	13.6
Crescent AX	PlainsGold	84.7	55.6	9.1	34.3	13.2
NE19412	UNL	84.6	54.8	10.1	36.2	13.5
AP Bigfoot	AgriPro	84.2	53.5	9.5	32.7	15.6
Settler CL	NuHorizon Genetics	84.2	55.2	9.6	33.0	13.9
CO18042RA	PlainsGold	83.2	52.8	9.2	31.6	15.2
Pronghorn	NuHorizon Genetics	83.2	56.1	9.9	41.3	13.6
WB4510CLP	WestBred	82.8	55.7	8.8	32.4	13.9
NSF22115	UNL	81.0	56.1	10.5	29.5	14.5
AP Solid	AgriPro	80.4	55.6	9.6	30.4	15.0
Wesley	Husker Genetics	78.1	53.5	10.4	30.0	14.3
Windom SF	PlainsGold	78.0	56.9	9.2	30.2	13.7
LCS Radar	Limagrain	77.6	54.7	10.0	29.6	14.5
NE19455	UNL	77.5	53.0	11.2	32.7	14.0
WB4483	WestBred	76.7	52.9	10.5	30.3	16.1
CP7220	Croplan	74.7	56.3	10.2	30.0	12.9
WB4792	WestBred	74.6	56.7	9.2	31.8	14.9
WB4733CLP	WestBred	74.2	55.2	11.0	28.9	14.9
NSF22102	UNL	73.3	55.5	9.4	34.7	13.2
Scout 66	Check	67.2	54.7	10.2	41.3	13.5
Turkey	Check	66.6	54.5	11.3	41.7	14.7
	Standard Error	3.7	1.4	0.3	1.3	0.6
	LSD³	6.2	2.3	0.6	2.1	1.0
	Mean⁴	86.4	55.1	9.6	33.5	14.2
	CV⁵	4.3	2.5	3.5	3.9	4.1
	Reps	4	4	2	4	2

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.

SITE INFORMATION

Collaborator:	Jim Wyatt
Planting Date:	9/25/2023
Seeding Rate:	900,000 seeds/a
Harvest Date:	7/23/2024
Fertility:	50 lb/a 40 Rock in-furrow at planting; 20 lb/a P in the fall; topdressed with 30 lb/a N in the spring
Herbicide/Fungicides:	4 oz 2,4D in spring
Soil Type:	Bayard very fine sandy loam
GPS:	41.571144, -103.698484
Planting Info:	Drilled 1.5" into no-till millet fallow with a no-till double disk drill on 10" centers.
Notes on Trial:	Excellent stand and yields, plot was located in excellent spot in the field. Timely rains finished out good overall performance. Significant sawfly infestation in the region but plot area was harvested in time to prevent lodging. Drier conditions during part of the season decreased threshability that may have led to lighter than expected test weights.

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