



UNIVERSITY of NEBRASKA
LINCOLN

Box Butte 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 Atomic AX	Limagrain	82.1	55.6	7.9	31.3	15.1
Steamboat	Crop Research Foundation of Wyoming, Inc.	80.7	56.4	8.3	34.5	16.3
AP Sunbird	AgriPro	79.5	57.3	8.0	27.8	14.5
NHH19668	UNL	77.4	57.6	8.7	32.3	14.4
Ruth	NuHorizon Genetics	77.0	55.0	10.1	30.3	18.2
AP 24AX	AgriPro	76.9	54.7	9.7	32.0	17.5
NE18435	UNL	76.7	55.7	9.2	28.8	17.2
WB4347	WestBred	76.2	57.6	8.2	31.8	15.6
Canvas	PlainsGold	76.0	56.8	9.9	28.4	17.1
NI17410	UNL	75.9	54.4	9.9	32.9	17.4
Kivari AX	PlainsGold	75.7	54.9	8.7	27.8	18.2
CP7017AX	Croplan	75.3	56.2	10.3	28.6	16.7
CO18042RA	PlainsGold	75.3	55.2	9.0	32.0	22.6
Amplify SF	PlainsGold	75.2	56.9	8.5	30.5	15.7
WB4422	WestBred	75.1	57.2	9.9	31.3	18.2
NE19412	UNL	75.1	54.4	8.8	33.3	14.1
WB4445CLP	WestBred	75.0	55.0	11.1	29.6	15.9
NE19590	UNL	74.7	55.1	10.2	31.0	18.1
AR Iron Eagle 33AX	Armor	74.3	55.7	9.2	30.0	16.9
AR Iron Eagle 22AX	Armor	74.0	55.3	10.2	28.3	16.2
NE16562	UNL	73.8	54.4	10.3	30.9	17.2
Robidoux	NuHorizon Genetics	73.5	53.8	10.6	29.4	19.5
CP7266AX	Croplan	73.2	55.4	10.3	29.7	15.7
Whistler	PlainsGold	72.8	53.0	9.4	29.7	20.3
Crescent AX	PlainsGold	72.7	55.4	8.6	31.6	15.8
LCS Helix AX	Limagrain	72.3	56.2	9.5	27.9	16.9
AP Roadrunner	AgriPro	72.2	56.1	9.3	30.3	18.8
NE17544	UNL	71.4	55.6	9.2	32.1	16.1
MS Maverick	Meridian Seeds	71.4	55.2	9.4	31.0	17.9
NEB145-12	UNL	71.3	56.2	9.3	32.1	17.0
NE Prism CLP	NuHorizon Genetics	71.0	55.3	10.6	31.8	20.0
LCS Julep	Limagrain	71.0	56.5	9.5	30.2	15.2

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.

NE18455	UNL	70.9	54.8	10.2	31.4	20.7
Wesley	Husker Genetics	70.8	55.1	10.8	29.9	17.9
AP Solid	AgriPro	70.1	56.1	10.4	30.8	16.3
AP Bigfoot	AgriPro	69.7	55.7	9.9	28.6	16.5
NE17441	UNL	69.6	55.0	9.2	31.7	16.2
SY Legend CL2	AgriPro	69.0	55.4	9.4	28.7	17.9
WB4510CLP	WestBred	68.5	56.9	9.0	31.1	16.7
NSF22115	UNL	67.8	54.5	10.2	28.9	18.0
LCS Radar	Limagrain	67.5	53.5	11.6	28.8	19.8
NE19619	UNL	67.3	54.7	11.0	32.6	19.2
LCS Steel AX	Limagrain	67.2	54.5	10.7	33.4	17.4
WB4444	WestBred	66.8	55.9	10.7	30.5	16.8
NW15443	UNL	66.7	55.4	10.7	31.4	14.7
NE19454	UNL	66.5	54.7	10.3	34.4	19.2
NSF22113	UNL	66.5	55.5	10.4	32.3	15.9
CP7220	Croplan	66.3	55.2	10.7	31.3	15.7
Pronghorn	NuHorizon Genetics	66.3	56.7	10.1	37.7	17.6
NE19455	UNL	66.1	55.3	10.9	29.5	16.3
Settler CL	NuHorizon Genetics	65.9	55.5	10.3	31.6	16.4
NHH19651	UNL	64.8	57.8	10.9	32.0	16.0
WB4595	WestBred	64.1	56.7	10.4	32.0	16.6
NSF22102	UNL	63.2	54.0	9.7	33.6	17.4
WB4792	WestBred	61.7	55.9	8.8	29.7	17.4
WB4483	WestBred	60.9	52.2	11.0	27.9	22.2
Windom SF	PlainsGold	60.6	56.1	11.1	26.0	15.7
WB4733CLP	WestBred	60.1	54.3	11.4	24.8	17.8
Scout 66	Check	57.3	56.9	9.3	39.9	15.0
Turkey	Check	51.6	56.0	10.7	40.2	18.5
	Standard Error	2.5	0.9	1.0	2.0	1.5
	LSD³	4.1	1.4	1.6	3.3	2.6
	Mean⁴	70.5	55.5	9.9	31.0	17.2
	CV⁵	3.5	1.6	9.8	6.5	9.0
	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:	Chris Cullan and Cullan Farm Seed
Planting Date:	9/20/2023
Seeding Rate:	900,000 seeds/a
Harvest Date:	7/18/2024
Fertility:	50 lb/a 40 Rock in-furrow at planting; 50 lb/a N and 10 lb/a S topdressed in the spring
Herbicide/Fungicides:	2,4D LV6, Nexicor, and Affinity applied in the spring
Soil Type:	Rosebud loam
GPS:	42.248392, -103.019494
Planting Info:	Drilled 1.5-2" into tilled corn fallow with a no-till double disk drill on 10" centers.
Notes on Trial:	Good emergence and fall growth. Dry spring limited tillering and conditions were very dry during flowering and grain fill. Decent yields despite rough conditions.

Do not reprint without permission. Contacts: [Amanda Easterly](#) or [Cody Creech](#)