



UNIVERSITY of NEBRASKA
LINCOLN

Box Butte County Rainfed 2021 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)
Crescent AX	PlainsGold	69.6	58.4	12.2	35.3
WB4309	WestBred	65.2	55.6	13.4	34.3
LCS Atomic AX	Limagrain Cereal Seeds	63.8	56.8	12.2	33.4
Overland	Husker Genetics	63.6	57.9	12.6	35.5
NE15624	UNL-Experimental	62.9	57.6	13.4	34.0
NE17441	UNL-Experimental	61.9	54.7	12.8	32.1
Fortify SF	PlainsGold	61.3	57.5	13.4	35.0
CP7909	CROPLAN by WinfieldUnited	61.2	55.2	13.9	34.7
LCS Photon AX	Limagrain Cereal Seeds	61.0	59.2	12.7	34.8
CP7050AX	CROPLAN by WinfieldUnited	61.0	58.7	13.4	34.4
KS Hamilton	Kansas Wheat Alliance	60.8	55.8	12.7	32.6
NW13493	UNL-Experimental	60.5	56.5	12.7	35.1
AP Solid (NP 1300500 #49)	AgriPro-Syngenta	60.4	59.1	13.5	32.3
LCS Valiant	Limagrain Cereal Seeds	59.8	55.2	14.1	35.3
AP 18AX	AgriPro-Syngenta	59.6	56.1	12.6	33.6
AP Bigfoot (10BC329-17-5)	AgriPro-Syngenta	59.2	56.8	13.2	32.8
WB4462	WestBred	58.8	56.2	13.8	38.7
CP7017AX	CROPLAN by WinfieldUnited	58.7	55.3	13.4	31.4
WB4792	WestBred	58.0	56.7	12.8	35.1
Wesley	Husker Genetics	57.8	54.6	13.7	30.3
WB-Grainfield	WestBred	57.8	53.5	14.7	35.3
MS Iceman	Meridian Seeds	57.6	56.5	14.4	30.9
AP Roadrunner	AgriPro-Syngenta	57.5	56.3	13.4	32.6
SY Wolverine	AgriPro-Syngenta	57.3	56.2	13.4	31.7
MS Maverick	Meridian Seeds	57.1	56.6	13.1	33.8
NE16562	UNL-Experimental	56.9	52.7	13.7	35.5
NE14696	UNL-Experimental	56.9	57.6	13.7	38.0

¹ Yield values corrected to 12% moisture and 60 lb/bu test weight.

² Protein corrected to 14% moisture, the correction factor used in analytical standards.

Whistler	PlainsGold	56.6	53.7	13.1	33.4
Ruth	Husker Genetics	56.5	55.1	14.7	35.7
NE17443	UNL-Experimental	56.3	55.6	14.2	36.3
NHH17450	UNL-Experimental	56.3	55.9	13.5	35.3
WB4595	WestBred	55.9	59.7	12.6	31.1
LCS Link	Limagrain Cereal Seeds	55.7	55.3	13.6	33.4
NE17544	UNL-Experimental	55.4	55.4	12.9	38.4
WB4418	WestBred	55.2	54.7	13.5	31.7
Guardian	PlainsGold	54.4	55.4	13.5	33.8
SY Legend CL2	AgriPro-Syngenta	54.4	55.0	15.1	32.0
Spur	AgriPro-Syngenta	53.8	54.2	14.2	30.4
Robidoux	Husker Genetics	53.7	54.3	13.8	33.9
Pronghorn	Husker Genetics	53.5	58.8	13.7	40.8
NHH17612	UNL-Experimental	53.5	56.8	14.8	34.2
CP7010	CROPLAN by WinfieldUnited	52.7	59.8	13.3	32.0
Freeman	Husker Genetics	52.3	52.4	14.2	33.0
Settler CL	NuPride Genetics	52.2	55.0	13.4	33.0
LCS Helix AX	Limagrain Cereal Seeds	52.0	56.5	13.1	33.8
Infinity CL	Husker Genetics	51.4	53.3	13.9	35.9
Panhandle	Husker Genetics	50.6	53.3	15.2	36.7
WB4483	WestBred	49.8	55.6	13.2	30.1
Goodstreak	Husker Genetics	45.3	58.7	14.5	41.1
Turkey	Check	44.8	56.2	14.5	42.4
Scout 66	Check	43.5	56.2	15.0	44.1
	Standard Error	3.1	0.9	0.7	1.4
	LSD³	5.1	1.4	1.2	2.3
	Mean⁴	56.8	56.1	13.6	34.5
	CV⁵	5.4	1.5	5.5	4.0
	Reps	4	4	2	4

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 entries 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; Cullan Seed Farm
Planting Date: September 15 2020
Seeding Rate: 900,000 seeds/acre
Harvest Date: July 22, 2021
Fertility: 40Rock at 20 lb/a in-furrow at planting; 10 lb P broadcast when field was worked before planting; 30lb N and 10lb S applied in the spring
Herbicide/Fungicides: Prowl H2O; Powerflex; 2,4D LV6 applied in spring; Nexicor fungicide
Soil Type: Rosebud Loam
GPS: 42.248447, -103.019717
Notes: Planted into disked corn stalks. Dry at planting, but overall good emergence and stand through winter. Some damage from drought and mild hail in late spring.

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