



UNIVERSITY of NEBRASKA
LINCOLN

Box Butte County Rainfed 2020 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Height (in)	Protein (%) ²
WB4462	WestBred	62.1	51.6	30.3	13.1
LCS Valiant	Limagrain Cereal Seeds	61.6	52.3	28.5	12.2
CP7909	CROPLAN by Winfield United	58.5	54.1	27.8	10.9
WB4595	WestBred	56.3	54.8	29.3	11.9
Spur	AgriPro-Syngenta	56.2	48.3	29.0	13.7
SY Legend CL2	AgriPro-Syngenta	55.6	51.3	29.3	14.7
SY Monument	AgriPro-Syngenta	55.4	52.1	28.5	11.8
NE14691	UNL-Experimental	55.2	51.8	28.8	13.4
Crescent AX	PlainsGold	55.1	54.1	29.3	11.5
AP 18AX	AgriPro-Syngenta	55.0	52.5	28.3	11.7
SY 517CL2	AgriPro-Syngenta	55.0	53.6	28.5	13.7
LCS Link	Limagrain Cereal Seeds	54.8	51.7	28.3	13.4
NHH144913-3	UNL-Experimental	54.8	50.5	30.3	13.8
Canvas	PlainsGold	54.5	52.9	27.5	12.4
CP7050AX	CROPLAN by Winfield United	54.4	54.2	27.8	13.7
Wesley	Husker Genetics	54.1	48.8	25.5	13.4
Long Branch	Dyna-Gro Seeds	54.0	50.2	28.0	12.5
SY Wolverine	AgriPro-Syngenta	53.8	52.6	27.5	14.4
Breck	PlainsGold	53.5	54.5	29.8	12.2
NE15624	UNL-Experimental	53.1	52.7	28.3	14.5
CP7017AX	CROPLAN by Winfield United	52.9	52.2	28.0	11.9
CP7869	CROPLAN by Winfield United	52.5	50.7	27.5	13.5
Freeman	Husker Genetics	52.2	50.5	27.8	14.3
Whistler	PlainsGold	52.1	49.2	27.3	14.6
Settler CL	NuPride Genetics	52.0	51.4	29.0	13.8
Langin	PlainsGold	51.8	51.4	27.8	12.4
WB-Grainfield	WestBred	51.8	52.0	27.3	13.2
NE14696	UNL-Experimental	51.7	53.4	30.8	13.4
WB4418	WestBred	51.4	50.1	27.3	14.3
Robidoux	Husker Genetics	51.3	49.7	28.5	14.1
NE15420	UNL-Experimental	51.2	51.7	27.5	12.7
Fortify SF	PlainsGold	50.9	52.5	26.3	12.6
Panhandle	Husker Genetics	50.1	51.8	30.8	13.8
Siege	NuPride Genetics	49.8	51.2	27.0	15.0

¹ Yield values corrected to 12% moisture.

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

Goodstreak	Husker Genetics	49.7	52.4	32.3	14.2
NW15443	UNL-Experimental	48.8	51.1	27.3	13.8
Guardian	PlainsGold	48.5	51.9	28.0	14.4
Pronghorn	Husker Genetics	48.1	53.8	34.0	14.3
WB4792	WestBred	47.6	53.3	27.0	13.7
CP7010	CROPLAN by Winfield United	47.4	53.2	25.8	13.4
NE15410	UNL-Experimental	47.3	49.3	26.5	15.2
SY Rugged	AgriPro-Syngenta	45.8	51.0	27.3	12.4
NE16562	UNL-Experimental	45.7	49.1	26.8	14.1
Ruth	Husker Genetics	45.6	51.9	27.0	15.5
Scout 66	Check	45.5	50.7	36.8	13.4
NW13493	UNL-Experimental	44.3	50.1	26.0	14.6
NE14434	UNL-Experimental	43.8	51.1	28.3	13.9
Turkey	Check	42.6	51.8	33.3	15.3
	Standard Error	2.9	1.1	1.3	1.0
	LSD³	4.8	1.8	2.1	1.6
	Mean⁴	51.8	51.7	28.5	13.5
	CV⁵	8.2	3.0	7.4	7.9
	Reps	4	4	4	2

SITE INFORMATION

Collaborator: Chris Cullan, Cullan Farms; Hemingford, NE
 Planting Date: September 18, 2019
 Seeding Rate: 800,000 seeds/acre
 Harvest Date: July 16, 2020
 Fertility: 60 lb N, 30 lb P, 5 lb S, 1 lb Zn fall preplant; 20 lb N topdress in spring
 Herbicide/Fungicides: 2,4-D, Powerflex, fungicide with topdress
 Soil Type: Alliance/Rosebud silt loam
 GPS: 41.566797, -103.728659
 Notes: Conventional tillage in fallowed corn field. Some damage from spring freezes, wheat stem sawfly, and a hailstorm in June.

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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 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.