



UNIVERSITY of NEBRASKA
LINCOLN

Box Butte County Irrigated 2020 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Height (in)	Protein (%) ²
Long Branch	Dyna-Gro Seed	120.5	58.0	28.8	12.0
Canvas	PlainsGold	119.9	59.8	28.3	11.8
WB4303	WestBred	119.7	55.8	28.5	13.7
WB4418	WestBred	116.6	56.1	28.0	12.6
LCS Valiant	Limagrain Cereal Seeds	116.6	58.7	28.8	13.4
WB4595	WestBred	116.5	58.4	28.8	12.3
Monarch	PlainsGold	116.5	57.9	28.8	11.4
CP7050AX	CROPLAN by Winfield United	116.3	58.7	30.3	13.1
WB-Grainfield	WestBred	115.9	57.0	28.8	12.8
SY Monument	AgriPro-Syngenta	115.4	55.4	29.0	12.6
CP7909	CROPLAN by Winfield United	115.2	57.1	30.3	12.3
CP7017AX	CROPLAN by Winfield United	114.6	58.8	27.0	11.7
Wesley	Husker Genetics	113.3	56.6	29.3	13.3
Ruth	Husker Genetics	112.8	57.8	29.8	13.0
SY Wolverine	AgriPro-Syngenta	112.7	56.6	29.0	11.5
CP7869	CROPLAN by Winfield United	110.8	55.8	26.8	12.5
NHH144913-3	UNL-Experimental	109.7	56.4	31.0	12.9
WB4699	WestBred	108.0	55.2	26.3	13.1
SY Sunrise	AgriPro-Syngenta	106.2	57.6	27.8	13.6
NE15624	UNL-Experimental	105.9	56.9	28.5	13.1
Fortify SF	PlainsGold	104.6	57.6	29.5	13.8
CP7010	CROPLAN by Winfield United	104.1	58.4	27.3	12.3
Breck	PlainsGold	103.6	59.5	29.3	12.8
NE15420	UNL-Experimental	103.4	56.7	27.0	13.6
AM Cartwright	AgriMaxx Wheat Company	101.6	57.5	29.0	13.5
AM Eastwood	AgriMaxx Wheat Company	97.9	56.3	26.5	13.6
LCS Link	Limagrain Cereal Seeds	96.7	57.3	28.0	13.0
Siege	NuPride Genetics	96.0	56.0	27.5	13.7
NE14434	UNL-Experimental	95.8	56.8	29.5	13.6
WB4792	WestBred	95.6	59.6	27.8	13.0
Robidoux	Husker Genetics	88.7	55.8	28.8	14.7
Turkey	Check	87.2	54.4	37.8	15.3
Scout 66	Check	66.2	56.8	32.0	13.8

¹ Yield values corrected to 12% moisture.

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

	Standard Error	9.9	1.2	1.7	0.6
	LSD³	16.5	2.1	2.8	1.0
	Mean⁴	106.8	57.2	28.9	13.0
	CV⁵	10.8	2.3	6.9	6.4
	Reps	4	4	4	2

SITE INFORMATION

Collaborator: Tom Cullan; Hemingford, NE
 Planting Date: October 4, 2019
 Seeding Rate; 1,200,000 seeds/acre
 Harvest Date: July 27, 2020
 Fertility: A total of 148 lb N, 43 lb P, 24 lb S, and 1.1 lb Zn was applied. Fertilizer timings were at planting, early spring, and finished at boot
 Herbicide/Fungicides: Affinity and 4 oz of Onset at heading
 Soil Type: Alliance-Rosebud loam
 GPS: 42.287125, -103.032507
 Notes: Planted into tilled ground following dry beans in 2019. Reduced tillering due to planting after bean harvest and some spring freeze damage, but overall good performance.

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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.