



UNIVERSITY of NEBRASKA
LINCOLN

Cheyenne County Rainfed with Intensive Management 2020 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Height (in)	Protein (%) ²
Whistler	PlainsGold	45.6	55.2	27.8	14.2
Spur	AgriPro-Syngenta	44.2	54.9	26.8	14.1
WB4792	WestBred	42.6	58.2	26.3	13.5
WB4595	WestBred	41.8	60.1	27.5	13.1
WB4462	WestBred	41.8	57.7	28.0	14.7
Canvas	PlainsGold	41.5	58.1	25.5	13.6
Fortify SF	PlainsGold	41.2	58.8	27.1	13.9
NE15420	UNL-Experimental	40.9	57.7	25.8	14.6
Breck	PlainsGold	40.6	59.1	27.3	13.8
LCS Link	Limagrain Cereal Seeds	40.5	58.6	26.0	14.1
CP7869	CROPLAN by Winfield United	40.4	58.4	25.3	13.8
CP7010	CROPLAN by Winfield United	39.6	60.0	26.3	13.8
WB4418	WestBred	39.5	56.1	27.8	13.8
Wesley	Husker Genetics	39.4	57.1	26.5	15.0
NHH144913-3	UNL-Experimental	38.8	54.6	25.8	14.5
Settler CL	NuPride Genetics	38.6	58.0	27.3	13.8
WB-Grainfield	WestBred	38.4	57.5	28.8	14.0
CP7017AX	CROPLAN by Winfield United	38.4	57.3	25.3	13.6
Langin	PlainsGold	37.4	57.2	24.8	14.0
NW13493	UNL-Experimental	37.4	56.8	28.0	14.7
Panhandle	Husker Genetics	37.1	56.2	28.3	15.4
Goodstreak	Husker Genetics	37.1	56.9	29.8	14.9
SY Legend CL2	AgriPro-Syngenta	36.4	57.7	27.5	14.8
NW15443	UNL-Experimental	36.2	55.2	27.8	14.6
AP 18AX	AgriPro-Syngenta	36.2	57.5	27.3	13.9
Crescent AX	PlainsGold	35.9	57.9	26.8	14.1
LCS Valiant	Limagrain Cereal Seeds	35.9	56.4	27.8	15.0
Freeman	Husker Genetics	35.8	55.7	27.0	14.2
SY Monument	AgriPro-Syngenta	35.8	56.0	25.0	14.1
Ruth	Husker Genetics	35.6	57.3	28.5	14.4
NE14696	UNL-Experimental	35.0	56.3	28.5	14.8
NE14434	UNL-Experimental	34.5	55.4	27.5	14.7

¹ Yield values corrected to 12% moisture.

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

NE14691	UNL-Experimental	34.4	55.7	27.8	14.8
NE15410	UNL-Experimental	33.9	56.7	28.0	15.1
Guardian	PlainsGold	33.5	57.5	27.3	15.1
Pronghorn	Husker Genetics	33.1	58.0	28.3	14.8
SY Wolverine	AgriPro-Syngenta	33.1	57.2	26.0	15.0
NE15624	UNL-Experimental	32.9	57.2	25.0	14.8
NE16562	UNL-Experimental	32.9	55.7	25.3	14.7
CP7050AX	CROPLAN by Winfield United	32.7	58.2	25.5	15.6
Robidoux	Husker Genetics	32.3	57.0	26.5	14.6
Siege	NuPride Genetics	31.8	57.7	25.5	15.3
SY 517CL2	AgriPro-Syngenta	31.0	58.9	25.0	15.1
Long Branch	Dyna-Gro Seed	30.9	56.9	26.8	14.4
Turkey	Check	30.3	56.5	29.8	15.9
SY Rugged	AgriPro-Syngenta	28.6	57.9	24.8	13.7
Scout 66	Check	27.6	56.8	29.5	15.0
CP7909	CROPLAN by Winfield United	26.9	57.5	24.2	13.8
	Standard Error	3.1	0.6	1.4	0.3
	LSD³	5.2	1.0	2.3	0.5
	Mean⁴	36.4	57.2	26.9	14.4
	CV⁵	11.6	2.1	5.1	4.2
	Reps	4	4	4	2

SITE INFORMATION

Collaborator: UNL High Plains Agricultural Lab; Sidney, NE
 Planting Date: September 21, 2019
 Seeding Rate: 800,000 seeds/acre
 Harvest Date: July 24, 2020
 Fertility: 70 lb/A N as 32-0-0 preplant; 10 lb/A as 32-0-0 with LV-6 application; additional topdress at flag leaf of 35 lb/A N as 32-0-0
 Herbicide/Fungicides: RoundUp and LV-6 preplant burndown; LV-6, Prowl H2O in spring; Trivapro at heading
 Soil Type: Alliance loam
 GPS: 41.235944, -103.001877
 Notes: No-till following fallowed corn (corn in 2018). Strong wheat stem sawfly pressure and late spring freeze damage. Low rainfall and high heat during flowering and grainfill. This is a trial planted in conjunction with traditionally managed trial at Cheyenne County to evaluate benefits of intensive fertility and use of fungicide on variety performance. Future plans include cost/benefit analysis as well.

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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.