



UNIVERSITY of NEBRASKA  
LINCOLN

## Cheyenne County Rainfed 2021 Winter Wheat Variety Intensive Management

Name	Company	Yield (bu/ac) <sup>1</sup>	Test Weight (lb/bu)	Protein (%) <sup>2</sup>	Plant Height (in)	Seed Weight (seeds/lb)
LCS Link	Limagrain Cereal Seeds	63.2	61.4	13.6	34.2	17505
WB4462	WestBred	61.1	59.7	14.5	37.5	15270
Whistler	PlainsGold	60.2	58.7	14.2	35.0	19934
AP 18AX	AgriPro-Syngenta	59.4	60.1	13.8	34.5	16554
KS Hamilton	Kansas Wheat Alliance	59.0	58.7	13.9	31.8	17514
WB4418	WestBred	58.5	59.1	14.2	33.8	20973
WB4309	WestBred	58.1	59.4	14.9	34.0	18234
CP7909	CROPLAN by WinfieldUnited	58.0	58.5	12.9	32.7	19054
AP Roadrunner	AgriPro-Syngenta	57.6	60.2	14.1	32.6	19641
AP Bigfoot (10BC329-17-5)	AgriPro-Syngenta	57.4	59.9	13.8	32.3	22195
LCS Atomic AX	Limagrain Cereal Seeds	57.2	59.0	13.3	32.2	19510
SY Wolverine	AgriPro-Syngenta	56.9	58.6	14.7	31.6	21212
Ruth	Husker Genetics	56.5	60.4	13.9	34.1	17538
WB4792	WestBred	56.4	60.0	13.4	32.7	19000
Spur	AgriPro-Syngenta	56.4	57.3	14.7	32.8	19272
AP Solid (NP 1300500 #49)	AgriPro-Syngenta	55.9	61.2	14.1	30.9	18661
WB-Grainfield	WestBred	55.6	58.6	14.0	34.1	18231
Settler CL	NuPride Genetics	55.4	59.5	13.5	32.3	17331
NW13493	UNL-Experimental	54.1	58.5	13.7	34.1	20316
Infinity CL	Husker Genetics	53.3	59.8	12.9	36.0	17355
SY Legend CL2	AgriPro-Syngenta	53.1	59.1	14.4	32.1	18176
WB4595	WestBred	52.6	61.1	14.6	32.7	21024
Wesley	Husker Genetics	52.6	58.0	15.0	31.6	18773
CP7017AX	CROPLAN by WinfieldUnited	52.4	58.3	13.7	32.7	23962
Fortify SF	PlainsGold	52.4	60.2	13.5	33.0	20406
Freeman	Husker Genetics	52.3	57.9	14.1	33.2	19789
NE17441	UNL-Experimental	52.2	58.1	14.7	31.9	20258
CP7050AX	CROPLAN by WinfieldUnited	52.2	59.7	14.4	34.2	19855
Overland	Husker Genetics	52.1	59.7	14.1	35.3	20854

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

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

<b>MS Maverick</b>	Meridian Seeds	52.0	58.7	14.7	34.6	21546
<b>LCS Photon AX</b>	Limagrain Cereal Seeds	51.9	59.8	14.5	34.6	20349
<b>NE15624</b>	UNL-Experimental	51.9	59.9	14.4	30.1	20319
<b>MS Iceman</b>	Meridian Seeds	51.6	60.4	15.2	33.1	21364
<b>NE17443</b>	UNL-Experimental	51.2	59.9	14.8	34.4	18454
<b>Crescent AX</b>	PlainsGold	51.0	59.7	13.9	34.8	20838
<b>NE17544</b>	UNL-Experimental	51.0	58.3	14.6	37.6	18249
<b>Robidoux</b>	Husker Genetics	50.1	58.5	14.3	33.5	19937
<b>WB4483</b>	WestBred	49.7	58.7	15.3	32.8	24186
<b>Guardian</b>	PlainsGold	49.2	58.9	14.5	32.9	19946
<b>CP7010</b>	CROPLAN by WinfieldUnited	48.6	61.9	13.9	30.6	18810
<b>NE16562</b>	UNL-Experimental	48.4	57.3	14.7	33.0	19807
<b>LCS Helix AX</b>	Limagrain Cereal Seeds	47.3	59.0	14.0	31.5	19900
<b>NHH17612</b>	UNL-Experimental	46.8	60.2	14.5	31.9	20591
<b>Pronghorn</b>	Husker Genetics	46.5	60.2	14.8	39.7	19936
<b>NE14696</b>	UNL-Experimental	46.4	59.2	14.4	33.9	20113
<b>LCS Valiant</b>	Limagrain Cereal Seeds	46.3	58.5	14.9	32.6	20117
<b>NHH17450</b>	UNL-Experimental	45.9	58.9	14.8	34.0	21115
<b>Panhandle</b>	Husker Genetics	45.3	57.4	16.3	35.7	21146
<b>Goodstreak</b>	Husker Genetics	40.3	59.0	15.8	38.0	18700
<b>Turkey</b>	Check	38.4	58.4	16.1	42.8	21052
<b>Scout 66</b>	Check	37.0	59.1	15.4	41.2	17719
	<b>Standard Error</b>	4.6	0.7	0.4	1.3	1469
	<b>LSD<sup>3</sup></b>	7.7	1.1	0.7	2.2	2462
	<b>Mean<sup>4</sup></b>	52.3	59.3	14.4	33.9	19618
	<b>CV<sup>5</sup></b>	8.9	1.1	3.0	3.9	7.5
	<b>Reps</b>	4	4	2	4	2

<sup>3</sup> For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

<sup>4</sup> Mean performance of all entries in the trial.

<sup>5</sup> 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: UNL High Plains Agricultural Lab; Sidney, NE  
Planting Date: September 14 2020  
Seeding Rate: 900,000 seeds/acre  
Harvest Date: July 21, 2021  
Fertility: 50 lb/a N as 32-0-0 preplant; 40 lb/a 40 Rock in furrow at planting; 10 lb/a N as 32-0-0 in early spring; additional 40 lb/a N as 32-0-0 topdressed at jointing  
Herbicide/Fungicides: 32 oz/a RoundUP RT3, 16 oz/a LV6, 1% NIS on July 8, 2020; 2 pt/a Prowl H2O late April 2021; 8 oz/a LV6 in early spring; TrivaPro A 4 oz/a + TrivaPro B 10.5 oz/a at flag leaf  
Soil Type: Duroc & Alliance loam  
GPS: 41.233159, -103.002459  
Notes: Planted no-till into fallowed millet residue. Dry conditions at planting and minimal tillering in the fall.

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