



UNIVERSITY of NEBRASKA
LINCOLN

Red Willow County Rainfed 2021 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Seed Weight (seeds/lb)
LCS Atomic AX	Limagrain Cereal Seeds	130.4	55.8	11.7	34.8	19600
WB-Grainfield	WestBred	129.0	54.0	12.9	35.8	23155
NE17441	UNL-Experimental	128.7	54.7	12.6	35.3	17172
WB4462	WestBred	127.9	57.0	12.9	40.0	21834
AP Bigfoot	AgriPro-Syngenta	127.1	55.4	12.6	35.8	19637
WB4792	WestBred	126.5	55.6	11.9	37.5	20033
KS Hamilton	Kansas Wheat Alliance	126.4	54.2	12.3	36.3	20858
Canvas	PlainsGold	125.4	55.9	12.3	33.3	21028
CP7909	CROPLAN by WinfieldUnited	125.0	55.2	12.2	35.3	24519
KS Dallas	Kansas Wheat Alliance	124.8	56.0	12.2	35.5	13977
LCS Link	Limagrain Cereal Seeds	124.1	55.6	12.4	36.0	15464
Guardian	PlainsGold	123.9	56.5	12.2	35.8	16993
LCS Helix AX	Limagrain Cereal Seeds	123.6	56.3	12.1	34.8	18255
CP7017AX	CROPLAN by WinfieldUnited	122.7	56.3	11.8	35.0	16534
NE15624	UNL-Experimental	122.3	57.6	13.2	31.8	17010
WB4595	WestBred	122.3	57.3	11.7	37.0	18463
NW13493	UNL-Experimental	121.0	57.2	12.3	36.3	18493
NHH17612	UNL-Experimental	120.6	57.3	12.7	36.5	19293
Wesley	Husker Genetics	120.5	55.9	12.6	32.8	13993
Settler CL	NuPride Genetics	120.5	54.2	12.4	36.5	18704
NHH17450	UNL-Experimental	120.2	54.8	12.9	40.5	18897
Ruth	Husker Genetics	119.8	55.8	12.7	38.3	19571
Whistler	PlainsGold	119.5	53.8	12.2	38.3	22668
LCS Valiant	Limagrain Cereal Seeds	119.4	56.2	12.9	34.0	16152
Robidoux	Husker Genetics	119.0	53.0	12.9	37.5	18415
SY Wolverine	AgriPro-Syngenta	118.9	54.9	12.8	34.3	17190
NE17443	UNL-Experimental	118.7	56.5	12.7	36.8	19002
AP 18AX	AgriPro-Syngenta	118.7	54.4	12.3	37.3	19419
WB4418	WestBred	117.2	55.3	12.9	34.5	20904
PSB13NEDH-14-83W	UNL-Experimental	116.7	55.3	12.4	37.8	18299
AP Roadrunner	AgriPro-Syngenta	116.2	52.6	12.4	36.5	17968

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.

Freeman	Husker Genetics	115.7	53.8	12.1	35.5	16406
NW15443	UNL-Experimental	115.4	57.1	12.4	39.3	15376
CP7010	CROPLAN by WinfieldUnited	115.0	58.4	11.9	34.8	19007
Panhandle	Husker Genetics	114.8	56.4	14.0	43.0	18623
MS Iceman	Meridian Seeds	113.9	55.6	13.5	35.3	17201
WB4309	WestBred	113.4	56.0	12.6	35.5	20087
Overland	Husker Genetics	113.4	54.0	12.6	39.3	17868
NE16562	UNL-Experimental	113.3	53.6	12.9	38.5	15508
SY Legend CL2	AgriPro-Syngenta	113.3	55.1	13.1	33.0	16471
MS Maverick	Meridian Seeds	112.8	54.9	12.9	36.0	18094
LCS Photon AX	Limagrain Cereal Seeds	112.4	56.6	14.2	37.0	16251
NE16563V	UNL-Experimental	112.0	56.1	12.5	37.0	21669
Epoch (NE15420)	UNL-Experimental	111.9	54.6	12.8	34.5	16187
NE14696	UNL-Experimental	111.3	54.3	12.4	40.3	19374
NE17544	UNL-Experimental	107.5	57.3	12.5	40.0	17745
CP7050AX	CROPLAN by WinfieldUnited	96.1	58.0	13.9	36.5	16410
Turkey	Check	91.5	56.4	13.9	44.3	19545
Scout 66	Check	84.8	56.3	13.8	41.3	18139
	Standard Error	4.8	1.3	0.4	1.0	2704
	LSD³	8.0	2.2	0.6	1.7	4537
	Mean⁴	117.7	55.6	12.7	36.7	18385
	CV⁵	4.1	2.3	2.9	2.8	14.7
	Reps	4	4	2	4	2

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: Peters Seed Farms
Planting Date: September 20, 2020
Seeding Rate: 1.0 million seeds/acre
Harvest Date: July 8, 2021
Fertility: 40 lb/a 40Rock in-furrow at planting, applied 20 GPA 32-0-0 on 4/5/21, and 1 GPA KQ XRN on 5/11/21
Herbicide/Fungicides: Fall applied .56oz Amber and 8oz Twinline on 5/11/21
Soil Type: Keith & Blackwood silt loams
GPS: 40.158050, -100.750783
Notes: Planted into tilled ground following corn fallow, seeding depth at 1.75" into good moisture

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