



UNIVERSITY of NEBRASKA
LINCOLN

Saunders 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)
WB4401	WestBred	94.3	57.1	11.6	35.3	12596
NHH17612	UNL-Experimental	93.7	58.9	12.0	36.0	16118
NHH17450	UNL-Experimental	92.8	58.7	12.4	39.0	15000
NE12561 (Siege)	NuPride Genetics	92.7	60.2	12.8	36.5	12928
WB4303	WestBred	91.4	56.1	12.2	31.8	15517
LCS Valiant	Limagrain Cereal Seeds	89.7	59.2	12.1	33.5	13644
Ruth	Husker Genetics	89.6	57.6	11.5	38.3	16169
NW15443	UNL-Experimental	89.6	57.8	11.9	39.8	12614
WB4269	WestBred	88.1	57.6	12.1	33.5	15998
Wesley	Husker Genetics	85.6	56.0	12.2	35.8	14640
Overland	Husker Genetics	84.8	58.0	12.1	38.8	15038
NE17544	UNL-Experimental	84.1	58.9	11.8	41.3	14730
WB4699	WestBred	81.7	56.3	11.2	30.8	19086
WB-Grainfield	WestBred	80.6	57.6	11.3	36.0	16024
PSB13NEDH-14-83W	UNL-Experimental	75.7	56.5	11.7	39.5	15668
Freeman	Husker Genetics	75.1	55.7	11.3	36.3	15648
NE17441	UNL-Experimental	74.6	56.5	11.4	34.3	16152
Scout 66	Check	74.1	58.7	12.9	46.5	14855
Turkey	Check	71.2	58.1	12.9	46.5	15444
NE16562	UNL-Experimental	69.8	55.9	11.7	35.5	15119
	Standard Error	3.2	0.3	0.3	0.8	620
	LSD³	5.4	0.6	0.6	1.3	1072
	Mean⁴	84.0	57.6	11.9	37.2	15149
	CV⁵	3.8	0.6	2.9	2.0	4.1
	Reps	4	4	2	4	2

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.

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: UNL ENREC; Ithaca, NE
Planting Date: September 25, 2020
Seeding Rate: 1.35 million seeds/acre
Harvest Date: July 8, 2021
Fertility: 80 lb/a N as 46-0-0 applied at greenup
Herbicide/Fungicides: 1/3 pt/a 2,4-D + 0.8 oz/a Harmony Extra in April
Soil Type: Tomek silt loam
GPS: 41.165501, -96.4069
Notes: Seeded into disked oat residue. Varietal differences were observed for lodging, however were confounded by field variation, so are not reported.

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