



UNIVERSITY of NEBRASKA
LINCOLN

Saunders County Rainfed with Intensive Management 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	104.0	57.0	11.7	35.8	12596
NE12561 (Siege)	NuPride Genetics	100.2	60.6	13.0	36.4	13559
NW15443	UNL-Experimental	99.7	57.6	12.3	40.4	13974
NHH17612	UNL-Experimental	97.9	60.1	12.8	37.2	16417
LCS Valiant	Limagrain Cereal Seeds	95.6	59.4	12.7	35.4	14424
WB4269	WestBred	95.2	57.8	12.2	33.3	16703
WB4699	WestBred	94.7	56.8	11.5	32.1	19596
Ruth	Husker Genetics	94.1	57.4	11.9	38.2	16074
WB-Grainfield	WestBred	93.7	57.7	11.5	37.8	18245
NHH17450	UNL-Experimental	91.5	58.6	12.4	39.4	16201
Overland	Husker Genetics	91.3	58.0	12.7	38.6	16044
WB4303	WestBred	91.3	57.0	12.9	32.4	16008
NE17544	UNL-Experimental	86.4	58.3	12.5	41.9	15942
PSB13NEDH-14-83W	UNL-Experimental	81.5	56.9	12.5	40.4	17714
NE17441	UNL-Experimental	79.8	57.7	11.5	33.8	15984
Wesley	Husker Genetics	78.9	55.8	12.9	36.6	16370
Freeman	Husker Genetics	76.4	55.3	12.5	37.6	17739
NE16562	UNL-Experimental	72.9	54.9	12.6	37.4	18311
Scout 66	Check	67.6	59.1	13.9	46.8	13169
Turkey	Check	64.8	57.5	13.7	47.8	16345
	Standard Error	4.1	0.6	0.3	0.8	1367
	LSD³	6.9	1.1	0.6	1.4	2363
	Mean⁴	87.9	57.7	12.5	38.0	16071
	CV⁵	4.7	1.1	2.7	2.1	8.5
	Reps	5	5	2	5	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: 40 lb/a N as 46-0-0 applied at greenup and 80 lb/a N applied at Feekes 5
Herbicide/Fungicides: 1/3 pt/a 2,4-D + 0.8 oz/a Harmony Extra in April, 8.2 oz/ac Prosaro applied on May 24
Soil Type: Tomek silt loam
GPS: 41.16516, -96.4068
Notes: Conducted as a paired study with traditionally managed trial, both at ENREC site to compare effects of added inputs and management on variety performance. 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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