



UNIVERSITY of NEBRASKA
LINCOLN

Saunders County Rainfed 2022 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Seed Weight (1000 seeds/lb)
Ruth	Husker Genetics	98.4	59.9	12.7	38.8	16.1
NE16562	UNL-Experimental	94.9	58.9	13.0	34.5	16.1
NE17441	UNL-Experimental	91.5	61.4	13.5	37.5	14.3
NHH17612	UNL-Experimental	90.8	60.3	13.1	38.1	17.5
NE18455	UNL-Experimental	90.7	58.9	12.6	37.4	17.1
WB4699	WestBred	90.7	57.7	12.2	32.1	20.7
Freeman	Husker Genetics	90.5	56.8	12.9	36.5	16.5
Siege	NuPride Genetics	89.3	60.1	13.5	36.3	14.5
NHH19651	UNL-Experimental	88.7	58.3	13.3	39.2	17.1
WB4401	WestBred	87.5	59.4	12.3	33.1	14.5
NI17410	UNL-Experimental	87.3	60.5	13.4	37.1	14.3
Epoch	NuHorizon	86.8	58.2	13.0	34.9	17.1
Wesley	Husker Genetics	86.1	57.8	13.9	34.8	15.4
LCS Valiant	Limagrain Cereal Seeds	85.3	60.6	14.1	33.7	14.7
LCS Atomic AX	Limagrain Cereal Seeds	85.1	59.5	13.1	31.8	13.6
WB4269	WestBred	83.2	58.6	12.5	30.5	17.8
WB4523	WestBred	83.1	56.9	12.6	30.5	19.1
NHH17450	UNL-Experimental	79.8	58.4	13.3	38.8	16.4
Scout 66	Check	69.0	58.2	14.8	42.9	14.4
Turkey	Check	64.5	58.6	15.3	45.1	16.4
	Standard Error	4.0	0.6	0.3	0.8	0.9
	LSD³	6.8	1.0	0.6	1.4	1.6
	Mean⁴	86.4	58.9	13.3	36.2	16.2
	CV⁵	4.7	1.0	2.6	2.2	5.7
	Reps	4	4	2	4	2

¹ Yield values corrected to 12% moisture. Bolded values indicate highest LSD grouping. **Reminder!** Plot yields are often higher than surrounding field because area between plots provides more soil moisture, but the relative performance and differences are accurate.

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: ENREC/UNL-ARDC, Ithaca, NE
Planting Date: September 24, 2021
Seeding Rate: 1.35 million seeds/acre
Harvest Date: July 5, 2022
Fertility: 80 lb/a N at greenup
Herbicide/Fungicides: 2 pt Prowl H2O and 1 pt 2,4-D in mid-April
Soil Type: Filbert & Tomek silt loam
GPS: 41.165817, -96.415756
Planting Info: Drilled into disked oat stubble with double disk no-till drill on 9" centers
Notes on Trial: Some plots had rodent damage at harvest, plots with variable data were not included in the final analysis. Site had overall good year with some lodging in taller varieties (e.g. Scout 66 and Turkey).

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