



UNIVERSITY of NEBRASKA
LINCOLN

Lancaster County Rainfed 2024 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu)	Protein (%) ²	Plant Height (in)	Grain Weight (1000 seeds/lb)
WB4401	WestBred	110.9	59.6	9.7	36.7	11.1
AP Prolific	AgriPro	107.6	60.1	11.1	36.8	12.2
NE18435	UNL	107.2	60.0	10.4	37.1	14.5
WB4445CLP	WestBred	102.1	59.7	10.5	37.1	13.2
WB4523	WestBred	101.9	58.4	9.8	32.2	15.2
Siege	NuHorizon Genetics	100.5	60.9	11.5	37.5	12.4
WB4422	WestBred	99.2	58.5	10.1	36.3	11.5
NI17410	UNL	97.3	60.1	10.4	39.0	13.4
NE16562	UNL	93.1	58.6	9.8	37.8	15.6
Ruth	NuHorizon Genetics	91.9	58.6	10.2	39.6	16.0
NE Prism CLP	NuHorizon Genetics	86.7	59.1	10.7	38.1	15.5
WB4699	WestBred	80.3	55.7	9.5	34.7	20.9
Wesley	Husker Genetics	80.0	53.4	11.4	36.9	15.5
Scout 66	Check	74.6	59.7	11.5	45.7	12.4
Turkey	Check	63.9	57.7	12.3	46.8	14.7
	Standard Error	6.4	0.7	0.4	1.5	1.5
	LSD³	10.8	1.2	0.7	2.5	2.6
	Mean⁴	93.1	1.2	3.3	3.8	10.2
	CV⁵	6.8	1.2	3.3	3.8	10.2
	Reps	4	4	2	4	2

¹ Yield values corrected to 12% moisture content. Bolded values indicate highest LSD grouping.

² Protein corrected to 14% moisture content, 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 plots 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 Agronomy Farm-Havelock, Jenny Stebbing, and TJ McAndrew
Planting Date:	9/27/2023
Seeding Rate:	1,350,000 seeds/a
Harvest Date:	6/29/2024
Fertility:	80 lb/a N preplant on 9/14/2023, 60 lb/a 4/5/2024
Herbicide/Fungicides:	Finesse (0.3 oz/a + Liberty (43oz/a) on 9/1/2023, Prowl H2O + 2,4-D on 3/30/2024
Soil Type:	Aksarben silty clay loam
GPS:	40.325595, -99.932086
Planting Info:	Drilled 2" into dry conditions using a double disk drill on 9" centers into disked oat stubble
Notes on Trial:	Hot and dry conditions led to early maturation and field was harvested before significant rainfall events in the area, protecting test weights.

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