UNIVERSITY of NEBRASKA LINCOLN

Saunders County Rainfed 2024 Winter Wheat Variety Trials

Name	Company	Yield (bu/ac)[1]		Test Weight (lb/bu)		Protein (%)[2]		Plant Height (in)		Grain Weight (1000 seeds/lb)	
		IM	Standard	IM	Standard	IM	Standard	IM	Standard	IM	Standard
WB4422	WestBred	**97.0**	**93.6**	**58.3**	**59.1**	10.1	9.5	33.5	34.8	12.7	12.2
NE18435	UNL	**96.9**	86.0	57.9	58.2	10.7	9.5	35.0	35.3	13.4	12.5
NI17410	UNL	**95.8**	89.9	**58.4**	**58.4**	10.9	10.0	36.0	35.2	12.4	12.9
WB4401	WestBred	**94.6**	**99.0**	57.4	58.3	10.5	9.0	34.0	34.6	11.8	11.0
Ruth	NuHorizon Genetics	**93.4**	83.5	57.9	57.6	9.6	9.2	37.0	37.6	13.7	12.9
AP Prolific	AgriPro	**90.8**	86.6	57.0	57.5	10.7	**10.3**	33.8	33.7	12.4	11.9
WB4445CLP	WestBred	**89.6**	88.9	**58.6**	**58.6**	10.8	9.7	33.0	34.6	12.7	12.0
NE16562	UNL	**86.9**	89.0	56.7	57.1	10.1	10.0	35.0	36.0	13.5	13.6
Siege	NuHorizon Genetics	**86.6**	87.3	**59.0**	**58.8**	**11.8**	**10.8**	33.8	35.4	12.0	12.0
WB4523	WestBred	85.1	**90.4**	55.2	55.3	10.4	9.2	29.0	29.8	14.8	13.8
NE Prism CLP	NuHorizon Genetics	82.3	83.3	57.6	57.8	10.9	9.6	35.0	35.7	14.0	13.4
Turkey	Check	81.5	71.6	57.4	57.6	**11.7**	**10.3**	45.5	45.3	13.1	12.6
Wesley	Husker Genetics	80.2	81.4	55.7	55.5	**11.4**	**10.2**	32.5	33.6	12.1	12.0
Scout 66	Check	79.0	70.9	58.0	57.5	10.9	**10.3**	44.0	43.9	11.9	11.6
WB4699	WestBred	72.7	84.1	55.1	55.8	9.3	8.7	30.0	30.3	15.5	15.7
	Standard Error	6.2	5.2	0.4	0.4	0.4	0.4	1.1	0.8	0.6	0.4
	LSD[3]	10.6	8.8	0.7	0.7	0.6	0.7	1.9	1.3	1.0	0.7
	Mean[4]	87.5	85.7	57.3	57.5	10.7	9.8	35.1	35.7	13.1	12.7
	CV[5]	7.1	6.1	0.7	0.7	3.3	4.0	3.2	2.1	4.5	3.1
	Reps	4	4	4	4	2	2	4	4	2	2
Correlation between management regimens		0.62		0.94		0.78		0.99		0.92	

[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

Management Strategy:	**Intensive Management**	**Standard Management**
Collaborator:	UNL Agronomy Farm-Mead/ENREC, Jenny Stebbing, and TJ McAndrew	
Planting Date:	9/27/2023	
Seeding Rate:	1,350,000 seeds/a	
Harvest Date:	7/10/2024	
Fertility:	120 lb/a N	80 lb/a N
Herbicide:	Finesse (0.3 oz/a) applied preplant; 0.5 pt/a 2,4-D LV6 and 2 pt/a Prowl in April	
Fungicide:	Prosaro on 5/22/2024	None
Soil Type:	Tomek and Filbert silt loam	
GPS:	41.165016, -96.406857	41.164972, -96.406833
Planting Info:	Drilled 2” into moderate soil moisture using a double disk drill on 9” centers into disked oat stubble	
Notes on Trial:	Hot and dry conditions led to early maturation but rains in early July delayed harvest, contributing to lower test weights	