UNIVERSITY of NEBRASKA LINCOLN

Saunders County Rainfed with Intensive Management 2023 Winter Wheat Variety Trial

Note: Eastern Nebraska faced severe drought and harsh winter conditions that significantly impacted yield and performance. This data is presented for information purposes only and it is recommended to use data from previous years to make variety selections!

Name	Company	Yield (bu/ac)[1]	Protein (%)[2]	Plant Height (in)	Seed Weight (1000 seeds/lb)
LCS Steel AX	Limagrain	**42.5**	14.6	23.3	14.4
Ruth	Husker Genetics	**39.8**	16.2	24.0	13.0
WB4632	WestBred	35.1	14.4	21.8	12.5
WB4422	WestBred	34.6	16.2	22.5	12.4
Wesley	Husker Genetics	33.6	16.2	21.5	11.5
Scout 66	Check	33.1	**16.4**	30.0	12.6
Turkey	Check	32.2	**17.0**	27.0	13.9
NE17443	UNL-Experimental	31.5	16.2	20.3	13.1
NE16562	UNL-Experimental	30.7	15.4	22.5	13.2
LCS Valiant	Limagrain	29.7	15.7	21.8	12.9
LCS Julep	Limagrain	29.6	**16.4**	21.8	12.7
Siege	NuPride Genetics	28.3	15.4	22.0	12.7
Freeman	Husker Genetics	28.1	15.8	23.0	13.2
LCS Atomic AX	Limagrain	27.3	14.9	21.0	11.6
AP Prolific	AgriPro	27.2	16.3	20.5	13.4
NE18455	UNL-Experimental	26.5	15.4	22.8	13.9
WB4699	WestBred	25.9	14.1	20.0	**16.0**
NE17441	UNL-Experimental	24.9	16.3	23.3	13.5
WB4401	WestBred	24.7	14.3	18.8	11.5
WB4523	WestBred	22.0	13.4	17.3	14.1
	Standard Error	2.4	0.3	1.0	0.3
	LSD[3]	4.0	0.6	1.7	0.6
	Mean[4]	30.4	15.5	22.2	13.1
	CV[5]	8.0	2.0	4.5	2.6
	Reps	4	2	4	2

[1] Yield values corrected to 12% moisture. Bolded values indicate highest LSD grouping.
[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 Agronomy Farm, Mead, NE
Planting Date:	October 4, 2022
Seeding Rate:	1.35 million seeds/acre
Harvest Date:	July 10, 2023
Soil Type:	Yutan silty clay loam
GPS:	41.164621, -96.419017
Planting Info:	Drilled into disked oats on 9” centers. Very dry planting conditions at seeding depth of 2”.
Notes on Trial:	Poor stand and performance due to severe drought conditions, especially in the fall. Test weights not reported due to poor performance and unreliable results.