



UNIVERSITY of NEBRASKA
LINCOLN

Perkins 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)
High Country	Polansky Seed, Inc.	67.4	58.7	13.5	26.4	18.9
WB4422	WestBred	66.8	59.6	15.2	26.9	17.0
LCS Steel AX	Limagrain Cereal Seeds	66.5	57.2	14.5	29.5	21.2
Langin	PlainsGold	66.1	56.8	13.9	25.5	18.2
AP 18AX	AgriPro	65.4	57.0	14.4	26.8	16.9
WB4309	WestBred	65.1	57.8	15.2	25.8	18.3
CP7017AX	CROPLAN by Winfield United	65.0	59.2	13.7	24.8	17.2
Robidoux	Husker Genetics	64.9	56.8	15.2	28.0	18.5
CPX72166AX	CROPLAN by Winfield United	64.8	57.9	13.7	26.0	18.0
Crescent AX	PlainsGold	64.8	58.6	13.9	27.3	15.6
LCS Runner	Limagrain Cereal Seeds	64.0	59.6	13.8	27.1	15.7
LCS Atomic AX	Limagrain Cereal Seeds	63.8	58.4	13.9	25.2	14.3
NHH19668	UNL-Experimental	63.4	58.4	14.9	25.4	16.8
AP Bigfoot	AgriPro	63.3	57.6	15.1	27.5	19.3
KS Hamilton	Kansas Wheat Alliance	62.3	58.1	14.1	26.0	17.9
CP7050AX	CROPLAN by Winfield United	62.0	60.1	15.0	25.8	18.1
NE16562	UNL-Experimental	61.8	57.0	15.1	27.0	18.3
MS Maverick	Meridian Seeds	61.5	59.3	14.5	26.7	15.5
SY Legend	AgriPro	61.3	59.2	15.2	25.1	16.3
CP7869	CROPLAN by Winfield United	61.1	57.8	14.8	25.4	14.3
LCS Valiant	Limagrain Cereal Seeds	60.1	58.2	14.9	26.1	16.5
NHH17450	UNL-Experimental	59.9	58.2	15.0	28.0	17.9
LCS Chrome	Limagrain Cereal Seeds	59.9	57.5	15.4	27.0	19.3
NE17443	UNL-Experimental	59.9	58.4	14.4	25.4	15.5
AP Roadrunner	AgriPro	59.2	57.6	15.2	25.1	17.6
WB4792	WestBred	59.0	60.6	14.5	25.9	18.8
WB4595	WestBred	58.9	62.2	14.3	26.8	14.2
NHH17612	UNL-Experimental	58.4	59.1	15.1	27.2	17.6
Ruth	Husker Genetics	58.2	57.5	15.1	26.6	18.8
WB4418	WestBred	58.1	56.9	14.4	26.1	20.7
SY Wolverine	AgriPro	57.3	58.3	14.9	24.9	16.3

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.

Freeman	Husker Genetics	56.6	56.6	14.9	26.4	17.6
LCS Helix AX	Limagrain Cereal Seeds	56.2	59.9	14.3	25.9	16.3
NW15443	UNL-Experimental	56.1	57.3	14.9	27.5	16.0
Settler CL	Husker Genetics	55.9	58.4	14.7	25.2	15.3
Rock Star	Polansky Seed, Inc.	55.8	58.2	16.0	26.8	16.9
WB4510CLP	WestBred	55.5	60.3	14.9	26.7	17.3
LCS Link	Limagrain Cereal Seeds	55.0	58.2	14.9	26.3	15.5
MS Iceman	Meridian Seeds	54.6	58.5	16.1	25.2	18.6
Scout 66	Check	54.1	59.6	14.5	30.4	15.8
PSB13NEDH-14-83	UNL-Experimental	53.7	58.7	15.7	27.0	13.4
Wesley	Husker Genetics	53.0	56.4	15.9	24.0	15.7
Epoch	NuHorizon	52.1	56.7	15.5	26.5	18.1
Turkey	Check	51.7	56.8	16.1	31.2	18.2
NE17441	UNL-Experimental	51.7	58.5	14.7	25.3	17.2
	Standard Error	2.7	0.4	0.4	1.1	0.8
	LSD³	4.4	0.6	0.7	1.9	1.3
	Mean⁴	59.8	58.3	14.8	26.5	17.1
	CV⁵	4.4	0.6	2.7	4.3	4.5
	Reps	4	4	2	4	2

SITE INFORMATION

Collaborator: Justin Richardson, UNL Stumpf International Wheat Center
 Planting Date: September 24, 2021
 Seeding Rate: 1.0 million seeds/acre
 Harvest Date: July 11, 2022
 Fertility: 70 lb/a 40 Rock in-furrow at planting; 110 lb of residual N per soil test
 Herbicide/Fungicides: 0.5 oz Amber in fall
 Soil Type: Alliance & Kuma silt loams
 GPS: 40.843994, -101.699950
 Planting Info: Drilled into no-till fallowed corn stalks with double disk no-till drill on 10" centers
 Notes on Trial: Highly affected by drought conditions. Yields reflect that small plots had slightly better moisture status due to space between plots, but relative performance and differences are accurate. Surrounding field average was around 39 bushels/acre.

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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.