



UNIVERSITY of NEBRASKA
LINCOLN

Lincoln 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)
CPX72166AX	CROPLAN by Winfield United	82.5	58.5	12.0	27.8	14.4
LCS Steel AX	Limagrain Cereal Seeds	81.0	59.4	11.0	28.8	15.3
Rock Star	Polansky Seed, Inc.	77.1	59.4	12.3	27.0	14.4
LCS Runner	Limagrain Cereal Seeds	74.2	59.4	10.6	28.5	12.8
Crescent AX	PlainsGold	73.4	59.3	11.2	29.0	12.2
WB4595	WestBred	72.3	62.2	10.7	28.8	13.9
WB4422	WestBred	71.6	61.3	10.9	27.5	13.5
AP Roadrunner	AgriPro	71.5	57.9	12.0	28.0	14.9
LCS Valiant	Limagrain Cereal Seeds	71.3	59.5	12.7	28.3	13.9
High Country	Polansky Seed, Inc.	71.3	58.4	11.5	27.0	14.9
NHH17612	UNL-Experimental	71.3	59.8	12.3	28.3	15.8
PSB13NEDH-14-83	UNL-Experimental	71.1	59.4	12.0	28.8	11.3
Langin	PlainsGold	70.6	57.7	11.0	27.0	13.8
CP7869	CROPLAN by Winfield United	70.6	59.1	10.7	28.5	12.6
MS Maverick	Meridian Seeds	69.6	60.3	11.8	28.5	12.8
NHH17450	UNL-Experimental	69.3	58.7	12.0	29.5	15.4
AP Bigfoot	AgriPro	68.8	58.4	11.6	25.3	17.5
NE17443	UNL-Experimental	68.7	59.4	12.3	26.8	13.9
NE16562	UNL-Experimental	68.5	58.1	11.4	26.3	14.7
LCS Link	Limagrain Cereal Seeds	67.7	59.5	12.0	29.5	13.2
WB4418	WestBred	67.5	58.0	12.1	25.5	16.2
NHH19668	UNL-Experimental	67.5	59.5	12.8	28.5	13.7
KS Hamilton	Kansas Wheat Alliance	67.5	59.6	12.0	26.0	13.3
LCS Helix AX	Limagrain Cereal Seeds	67.1	59.5	11.6	27.8	14.0
Settler CL	Husker Genetics	66.9	59.1	12.0	28.5	13.3
AP 18AX	AgriPro	66.7	57.4	10.6	26.5	13.7
LCS Atomic AX	Limagrain Cereal Seeds	64.8	58.6	12.2	26.5	13.4
LCS Chrome	Limagrain Cereal Seeds	64.7	58.6	13.1	26.8	15.3
WB4309	WestBred	64.2	58.8	12.6	25.5	15.5
WB4510CLP	WestBred	64.2	61.1	11.8	28.8	14.0
SY Wolverine	AgriPro	64.2	57.8	12.2	26.3	14.2

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.

Ruth	Husker Genetics	64.1	58.1	11.8	28.0	14.7
CP7017AX	CROPLAN by Winfield United	64.0	58.3	11.3	27.3	14.4
NW15443	UNL-Experimental	64.0	58.9	11.1	28.5	13.2
WB4792	WestBred	63.7	62.0	11.3	28.5	15.1
Robidoux	Husker Genetics	63.3	58.6	12.3	25.8	14.7
NE17441	UNL-Experimental	62.7	59.1	11.6	27.8	14.0
CP7050AX	CROPLAN by Winfield United	62.6	60.0	11.7	27.8	14.9
SY Legend	AgriPro	62.5	59.8	12.6	27.3	13.0
MS Iceman	Meridian Seeds	62.4	58.7	12.3	26.3	15.4
Freeman	Husker Genetics	60.3	57.1	12.0	29.0	14.1
Epoch	NuHorizon	58.9	58.1	11.6	27.3	15.1
Scout 66	Check	58.6	59.5	11.4	33.3	13.6
Wesley	Husker Genetics	56.6	57.7	12.0	26.3	12.7
Turkey	Check	55.3	58.3	12.4	33.5	15.3
	Standard Error	4.2	0.5	0.7	1.2	0.7
	LSD³	7.2	0.9	1.1	2.0	1.2
	Mean⁴	67.3	59.1	11.8	27.8	14.2
	CV⁵	6.3	0.9	5.7	4.4	5.0
	Reps	4	4	2	4	2

SITE INFORMATION

Collaborator: Gary Mahnken, WCREC, North Platte, NE
 Planting Date: September 23, 2021
 Seeding Rate: 1.0 million seeds/acre
 Harvest Date: July 13, 2022
 Fertility: 70 lb/a 40 Rock in-furrow at planting; 60 lb N
 Herbicide/Fungicides: 2 pt Prowl H2O and 2,4-D LV6 in early May
 Soil Type: Holdrege silt loams
 GPS: 41.057122, -100.750830
 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. One of the better sites of 2022, though still impacted by drought and low precipitation. Yields reflect that small plots had slightly better moisture status due to space between plots and that starter fertilizer provided excellent fall growth, but relative performance and differences are accurate. Surrounding field average was around 42 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.