



UNIVERSITY of NEBRASKA
LINCOLN

Banner County Rainfed 2022 Winter Wheat Variety Trial

Name	Company	Yield (bu/ac) ¹	Test Weight (lb/bu) ²	Protein (%) ³	Plant Height (in)	Seed Weight (1000 seeds/lb)
CPX72166AX	CROPLAN	42.2	57.5	14.8	25.1	23.2
AP 18AX	AgriPro	38.5	56.8	15.2	25.2	23.0
Whistler	PlainsGold	36.6	54.1	15.6	26.0	24.0
LCS Steel AX	Limagrain Cereal Seeds	36.5	55.1	16.1	24.1	26.8
WB4595	WestBred	35.9	58.0	15.3	25.0	22.1
WB4483	WestBred	35.6	52.7	18.7	23.0	34.1
KS Hamilton	Kansas Wheat Alliance	35.4	55.3	15.9	24.3	20.7
Fortify SF	PlainsGold	34.6	56.7	16.0	25.0	24.3
MS Maverick	Meridian Seeds	34.6	55.6	16.3	24.5	23.1
WB4792	WestBred	34.5	55.6	16.1	24.5	25.2
NE19590	UNL-Experimental	34.2	55.9	15.4	24.3	22.5
Crescent AX	PlainsGold	34.0	56.6	15.3	26.0	20.4
NE19619	UNL-Experimental	33.9	53.8	17.5	24.5	23.2
CP7017AX	CROPLAN	33.8	56.9	15.7	23.8	23.5
LCS Photon AX	Limagrain Cereal Seeds	33.5	56.9	15.9	24.7	22.1
Epoch	NuHorizon	33.4	54.6	16.5	22.5	25.5
AP Solid	AgriPro	33.0	57.5	16.6	22.0	23.0
SY Wolverine	AgriPro	32.6	55.2	16.7	22.5	23.2
Robidoux	Husker Genetics	32.6	55.1	16.9	24.0	23.9
NE17441	UNL-Experimental	32.6	56.3	16.3	24.2	23.5
Goodstreak	Husker Genetics	32.6	56.2	17.5	29.8	24.5
Langin	PlainsGold	32.6	55.9	15.4	23.8	20.6
NE16562	UNL-Experimental	32.5	55.2	16.9	26.5	22.9
LCS Helix AX	Limagrain Cereal Seeds	32.5	56.4	16.0	22.4	22.2
Spur	AgriPro	32.2	53.2	17.8	22.7	25.5
SY Legend	AgriPro	32.1	54.9	17.0	25.0	21.8
AP Roadrunner	AgriPro	32.1	54.4	17.2	22.5	25.5
Amplify SF	PlainsGold	32.0	56.4	16.9	22.6	21.9
WB4510CLP	WestBred	32.0	54.7	16.3	25.2	22.9
CP7869	CROPLAN	31.8	54.6	17.6	22.2	19.8
AP Bigfoot	AgriPro	31.6	55.0	16.5	24.5	21.1

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

² Test weights were evaluated with a freestanding Dickey John GAC due to issue with onboard sensor on combine.

³ Protein corrected to 14% moisture, the correction factor used in analytical standards.

Name	Company	Yield (bu/ac)	Test Weight (lb/bu)	Protein (%)	Plant Height (in)	Seed Weight (1000 seeds/lb)
WB4422	WestBred	31.1	56.6	17.3	23.5	24.5
CP7050AX	CROPLAN	31.0	56.0	16.5	24.5	20.3
LCS Runner	Limagrain Cereal Seeds	30.9	55.2	15.8	24.0	25.4
NI17410	UNL-Experimental	30.6	55.7	16.4	22.8	22.6
Settler CL	Husker Genetics	30.5	55.4	16.4	23.2	25.5
WB4309	WestBred	30.4	55.7	17.4	24.3	22.7
WB4462	WestBred	30.2	56.3	16.3	27.8	18.5
NHH17612	UNL-Experimental	29.8	56.0	16.4	23.5	21.6
NHH17450	UNL-Experimental	29.7	55.9	16.8	26.0	22.0
WB4418	WestBred	29.7	53.4	16.4	22.5	26.7
Scout 66	Check	28.8	55.1	16.1	27.0	23.1
Ruth	Husker Genetics	28.6	54.1	16.8	24.9	23.4
NW15443	UNL-Experimental	28.6	53.7	17.3	24.4	22.2
Wesley	Husker Genetics	28.5	54.0	17.8	22.1	21.6
NE17544	UNL-Experimental	27.9	55.2	17.9	24.0	25.5
Turkey	Check	27.8	54.5	17.5	27.3	27.6
LCS Link	Limagrain Cereal Seeds	27.7	53.3	17.6	23.3	23.2
Freeman	Husker Genetics	27.6	52.9	16.9	24.0	25.7
MS Iceman	Meridian Seeds	27.5	54.3	17.1	24.5	24.9
LCS Valiant	Limagrain Cereal Seeds	27.3	54.0	17.2	24.0	22.4
NHH19668	UNL-Experimental	26.7	53.9	17.4	22.7	24.9
NE18573	UNL-Experimental	25.3	56.9	16.9	24.8	19.3
LCS Atomic AX	Limagrain Cereal Seeds	24.3	53.6	16.0	22.2	19.3
	Standard Error	2.5	1.0	0.3	0.9	2.0
	LSD⁴	4.1	1.6	0.4	1.5	3.3
	Mean⁵	31.7	55.3	16.	24.3	23.3
	CV⁶	7.7	1.7	1.6	3.7	8.4
	Reps	4	4	2	4	2

⁴ For differences between varieties that are equal to or greater than the LSD value, the chance that the difference is significant is 90%.

⁵ Mean performance of all entries in the trial.

⁶ 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: Jim Wyatt, Harrisburg, NE
Planting Date: 9/13/2021
Seeding Rate: 900,000 seeds/acre
Harvest Date: 7/21/2022
Fertility: 70 lb/a 40 Rock in furrow at planting, 35 lb/acre N in spring
Herbicide/Fungicides: 4 oz Barrage in April
Soil Type: Briget very fine sandy loam
GPS: 41.56687, -103.728587
Planting Info: Drilled into tilled fallowed wheat stubble with double disk no-till drill on 10" centers
Notes on Trial: Field experienced severe drought from planting throughout the season as well as a freeze in late May that affected earlier varieties and reduced yield. Heavy sawfly infestation. Overall had excellent stand despite the harsh conditions, but some weediness from downy brome.

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