



2022 Spring Wheat Variety Trial

UNIVERSITY of NEBRASKA
LINCOLN

Name	Company	Yield (bu/ac) at Cheyenne County ¹	Protein (%) at Cheyenne County ²	Protein (%) at Kimball County
WB9303	WestBred	32.3	17.1	18.8
MN-Torgy	University of Minnesota	28.5	18.1	19.2
LCS Cannon	Limagrain Cereal Seeds	27.7	17.0	17.0
Lang-MN	University of Minnesota	27.0	18.7	19.2
SD4894	South Dakota State Univ.	26.9	16.9	17.8
RB07	University of Minnesota	26.6	17.3	18.7
ND Heron	North Dakota Crop Improvement & Seed Assoc.	26.3	17.8	18.8
SD4855	South Dakota State Univ.	26.0	18.4	19.1
Ascend-SD	South Dakota State Univ.	25.9	18.5	18.7
SD4843	South Dakota State Univ.	25.8	17.0	18.3
LCS Hammer AX	Limagrain Cereal Seeds	25.7	17.5	18.3
Prevail	South Dakota State Univ.	25.6	17.1	18.4
LCS Dual	Limagrain Cereal Seeds	25.3	17.1	17.9
ND Frohberg	North Dakota Crop Improvement & Seed Assoc.	25.0	18.0	19.4
WB9215	WestBred	24.9	17.1	19.0
Brick	South Dakota State Univ.	23.7	16.8	18.7
Driver	South Dakota State Univ.	23.3	16.9	18.3
WB9606	WestBred	23.0	16.6	17.6
WB9719	WestBred	23.0	17.8	-
AP Murdock	AgriPro	22.6	18.0	18.6
	Standard Error	1.9	0.2	0.6
	LSD³	3.2	0.4	0.9
	Mean⁴	25.8	17.5	18.5
	CV⁵	7.4	1.1	3.2
	Reps	5	5	4

Note: Spring wheat locations with the same varieties were also planted at Red Willow and Kimball Counties. However, due to severe drought, the trial yields were extremely low (5.3 and 4.9 bushels/acre, respectively) and no significant differences between varieties were detected.

¹ Yield estimated assuming standard moisture at 12% moisture, however grain yield was too low to obtain at harvest grain moisture estimates.

² Protein adjusted to 14% moisture basis

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.

SITE INFORMATION

Collaborator: Jake Hansen, High Plains Ag Lab, Sidney, NE
Planting Date: March 3, 2022
Seeding Rate: 1.5 million seeds/acre
Harvest Date: July 18, 2022
Fertility: 15 lb Phosphorus/acre, applied as 40 Rock
Herbicide/Fungicides: 32 oz RoundUp, 8 oz 2,4-D LV6 preplant; 2 pt Prowl H2O and 6 oz 2,4-D LV6 in May
GPS: 41.232897, -102.996729
Planting Info: Drilled into tilled, fallowed corn stalks with double disk drill on 10" centers.
Notes on Trial: Field emerged well and had excellent stand establishment, despite drought conditions, however lack of rainfall during flowering and grain fill significantly reduced yields and average test weight. Due to low yields, test weight determination on a per-variety basis was not calculable, nor was protein. Overall plot average for test weight was 41.5 lb/bu.

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