



**CROP PERFORMANCE
TESTING**

2021 Spring Wheat Variety Trial Averages

Name	Company	2021 Average		Cheyenne County		Kimball County		Red Willow County	
		Yield (bu/ac) ¹	Protein (%) ²	Yield (bu/ac) ³	Protein (%)	Yield (bu/ac)	Protein (%)	Yield (bu/ac)	Protein (%)
WB9606	WestBred	31.2	14.6	20.7	14.6	28.7	15.1	44.1	14.1
WB9590	WestBred	29.0	16.1	17.8	16.5	28.9	15.9	40.4	15.8
WB9719	WestBred	28.8	15.4	20.6	15.1	35.0	15.4	30.8	15.7
Prevail	SDSU	28.1	15.2	17.0	15.7	30.2	15.7	37.0	14.3
LCS Cannon	Limagrain Cereal Seeds	27.9	15.6	15.2	15.7	28.9	15.9	39.5	15.2
AP Murdock	AgriPro-Syngenta	27.7	15.8	18.0	16.4	27.6	15.9	37.5	15.3
LCS Rebel	Limagrain Cereal Seeds	27.4	16.2	19.1	16.0	31.8	16.0	31.3	16.5
Surpass	SDSU	26.1	15.6	18.0	15.8	27.5	15.7	32.8	15.4
LCS Trigger	Limagrain Cereal Seeds	25.9	16.1	19.9	15.8	18.7	17.2	39.3	15.3
WB9707	WestBred	25.8	16.6	14.5	16.8	27.8	15.7	35.1	17.3
ND Frohberg	North Dakota Crop Improvement	24.5	16.8	16.8	16.6	24.8	17.2	32.0	16.5
ND Vitpro	North Dakota Crop Improvement	21.8	16.3	14.2	16.1	22.8	16.7	28.4	16.2
	N	-	-	4	4	4	2	4	4
	SE	-	-	1.9	0.3	1.3	0.3	4.4	0.6
	LSD	-	-	3.2	0.4	2.3	0.6	7.4	1.0
	Grand Mean⁴	27.0	15.9	17.6	15.9	27.7	16.0	35.7	15.6
	CV	-	-	10.8	1.6	4.8	2.2	12.3	3.8

¹ Yield values corrected to 12% moisture and based on 60 lb/bu test weight.

² Protein corrected to 14% moisture.

³ Bolded values indicate top LSD group.

Agronomic and Seed Characteristics							
		Cheyenne County	Kimball County		Red Willow County		
Name	Company	Plant Height (in)	Test Weight (lb/bu)	Seed Weight (kernels/lb)	Test Weight (lb/bu)	Plant Height (in)	Seed Weight (kernels/lb)
AP Murdock	AgriPro-Syngenta	24.0	55.9	27290	59.1	25.3	20907
LCS Cannon	Limagrain Cereal Seeds	24.5	58.7	26407	59.8	25.5	20727
LCS Rebel	Limagrain Cereal Seeds	25.0	59.9	22726	59.5	25.8	20613
LCS Trigger	Limagrain Cereal Seeds	21.5	56.1	33778	61.0	25.3	18365
ND Frohberg	North Dakota Crop Improvement	24.5	.	29279	59.2	25.3	19365
ND Vitpro	North Dakota Crop Improvement	24.5	.	21335	59.0	25.8	19930
Prevail	SDSU	23.5	58.2	24102	59.5	25.8	22807
Surpass	SDSU	25.5	57.6	26391	58.3	25.8	23253
WB9590	WestBred	21.5	57.2	29688	56.2	26.0	20584
WB9606	WestBred	21.3	57.4	25377	60.7	25.8	19490
WB9707	WestBred	20.8	58.9	20127	60.5	26.5	16656
WB9719	WestBred	21.5	59.5	20934	58.4	25.5	18883
	N	4	4	2	4	4	4
	SE	1.2	0.7	3054	1.0	0.4	1348
	LSD	2.0	1.1	5332	1.7	0.7	2283
	Grand Mean⁵	23.2	57.9	25260	59.3	25.7	20132
	CV	5.0	1.1	11.9	1.7	1.7	6.7

SITE INFORMATION	Cheyenne County	Kimball County	Red Willow County
Collaborator:	High Plains Ag Lab, Sidney, NE	R&K Farms/Chad Bomberger, Pine Bluffs, WY	Peters Seed Farms, McCook, NE
Planting Date:	March 11, 2021	March 12, 2021	March 30, 2021
Seeding Rate:	-----1,500,000 seeds/acre-----		
Harvest Date:	July 30, 2021	July 28, 2021	July 27, 2021
Fertility:	50 lb/a 40 Rock in-furrow at planting	50 lb/a 40 Rock in-furrow at planting	50 lb/a 40 Rock in-furrow at planting; 20 gallon/a 30-0-03 on April 15
Herbicides/Fungicides:	Pre-plant burndown in the fall with RoundUp; Prowl H2O and Olympus used in spring	Ground worked prior to planting.	0.28 oz Amber on March 15
Soil Type:	Keith loam	Altvan fine sandy loam	Keith and Blackwood silt loams
GPS:	41.232882, -103.016475	41.336458, -104.043991	40.1741997, -100.7615094
Notes:	Planted into no-till corn stalks. Dry conditions, and overall poor early season vigor. Strong weed competition decreased stand and final yields.	Planted into tilled corn stalks with decent moisture at seeding depth. After planting, snowstorm provided excellent moisture. Final stand and yields similar to surrounding field of spring wheat.	Planted no-till into corn stalks. Good moisture at seeding depth, but field was planted about 3 weeks after cooperators due to rain delays, so overall performance and yield was less than the surrounding grower field.
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