



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2021 South Dakota Spring Wheat Variety Trial Results Wall

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Cooperator: Kent Kjerstad
Location: 43.965833°, -102.247500°
Soil Type: Nunn loam, 0-2% slopes
Previous crop: field peas
Tillage: no-till
Row spacing: 10"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
-Starter: 6 gal/acre 10-25-0-5S-.25Z
-Other: 40 gal/acre 28-0-0 mid-row banded
Herbicide:
-Burndown: 16 oz/acre Roundup RT3
-Post: none
Fungicide: none
Date seeded: 4/1/2021
Date harvested: 7/29/2021

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Table 1. 2021 spring wheat variety performance trial results (average of four replications) at Wall, South Dakota. Entries are sorted by overall two-year yield. Varieties yielding in the top third of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2019 (bu/a)#	2020 (bu/a)	2021 (bu/a)	2-year (bu/a)	3-year (bu/a)
WB9606	31	not reported	59.5	16.3	not harvested	39.0	54.4	46.7	not available
LCS Cannon	31	reported	59.2	15.8	harvested	36.5	54.8	45.7	available
MN-Torgy	32	-	61.5	15.7	-	33.5	55.7	44.6	-
LCS Rebel	35	-	57.3	15.3	-	40.7	48.4	44.5	-
Prevail	28	-	57.6	16.6	-	35.9	53.0	44.4	-
SY Valda	28	-	59.4	15.7	-	34.4	52.6	43.5	-
SY Rustler	30	-	56.8	15.7	-	33.0	53.9	43.5	-
Lang-MN	33	-	57.9	15.9	-	34.5	52.4	43.4	-
Shelly	30	-	59.8	15.9	-	32.1	54.7	43.4	-
Surpass	30	-	56.4	16.0	-	35.2	50.7	43.0	-
LCS Trigger	30	-	57.4	15.7	-	31.4	53.9	42.6	-
MS Ranchero	32	-	58.7	16.4	-	31.4	52.9	42.1	-
CP3099A	32	-	56.5	16.4	-	34.8	48.3	41.5	-
CP3530	31	-	58.1	15.8	-	35.2	47.2	41.2	-
LCS Buster	29	-	57.2	16.2	-	32.2	50.0	41.1	-
CP3915	30	-	55.4	15.7	-	33.2	47.1	40.1	-
MN-Washburn	28	-	58.2	15.6	-	30.3	49.0	39.7	-
MS Barracuda	29	-	58.0	16.0	-	32.0	47.0	39.5	-
WB9590	27	-	56.0	15.6	-	34.8	44.1	39.4	-
Focus	35	-	59.7	15.7	-	29.0	49.8	39.4	-
AP Murdock	30	-	56.4	16.1	-	31.6	46.5	39.1	-
Driver	31	-	55.1	16.8	-	35.5	41.1	38.3	-
Boost	30	-	58.8	15.8	-	28.5	44.1	36.3	-
ND Frohberg	34	-	55.4	15.5	-	27.1	45.2	36.2	-
SY Ingmar	27	-	59.0	16.1	-	27.8	42.2	35.0	-
WB9719	28	-	54.1	15.7	-	30.2	39.0	34.6	-
Bolles	30	-	57.4	16.2	-	29.7	36.5	33.1	-
MS Cobra	29	-	54.8	16.5	-	-	49.0	-	-
CP3188	31	-	58.6	16.0	-	-	48.0	-	-
PFS Buns	26	-	56.5	15.5	-	-	46.7	-	-
AP Gunsmoke CL2	30	-	58.5	16.5	-	-	45.7	-	-
AP Revolution	27	-	58.3	15.3	-	-	40.6	-	-
CP3119A	32	-	54.4	15.8	-	-	37.1	-	-
Trial Average#	30	-	57.8	16.0	-	32.7	48.9	40.8	-
LSD (0.05)†	-	-	3.9	1.0	-	3.2	5.3	-	-
C.V. %‡	-	-	4.8	4.7	-	7.1	7.7	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.

Trial averages may include values from experimental lines that are not reported, yield is reported @13%M, protein is @12%M.

† Value required (≥LSD) to determine if varieties are significantly different from one another.

‡ C.V. is a measure of variability or experimental error, 15% or less is considered acceptable.