



**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 Highmore

Jonathan Kleinjan | SDSU Extension Agronomist
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Cooperator: Matt Leisinger
Location: 44.723669°, -99.452980°
Soil Type: Glenham-Java-Prosper loams, 1-6% slopes
Previous crop: soybeans
Tillage: no-till
Row spacing: 8"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 58-0-0 as urea broadcast
Herbicide:
-Burndown: NR
-Post: 1.3 pt/acre WideMatch + 1.5 pt/acre MCPA
Fungicide: none
Date seeded: 4/21/2021
Date harvested: 8/5/2021
Notes: Very dry throughout the growing season.



2021 South Dakota Spring Wheat Variety Trial Results Highmore

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2021 spring wheat variety performance trial results (average of four replications) at Highmore, 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)
LCS Buster	not reported	1.0	58.1	14.4	not harvested	82.8	22.8	52.8	not available
LCS Trigger		1.0	59.4	15.1		80.8	24.2	52.5	
CP3530	-	1.0	58.7	15.6	-	79.0	24.7	51.8	-
Driver	-	1.0	60.9	15.7	-	75.0	28.0	51.5	-
SY Valda	-	1.0	60.0	14.8	-	72.5	26.6	49.5	-
Shelly	-	1.0	59.5	15.3	-	73.3	25.1	49.2	-
LCS Cannon	-	1.0	61.0	16.9	-	72.5	21.7	47.1	-
CP3099A	-	1.0	59.0	13.8	-	70.0	22.8	46.4	-
LCS Rebel	-	1.0	60.1	17.4	-	69.5	22.2	45.8	-
MN-Torgy	-	1.0	60.8	17.9	-	69.8	21.3	45.6	-
CP3915	-	1.0	61.3	16.0	-	69.1	21.7	45.4	-
SY Ingmar	-	1.0	60.2	16.4	-	70.1	20.5	45.3	-
AP Murdock	-	1.0	59.0	17.4	-	72.0	18.6	45.3	-
MN-Washburn	-	1.0	59.0	15.6	-	70.0	19.8	44.9	-
WB9590	-	1.0	58.9	18.7	-	68.4	20.3	44.3	-
WB9719	-	1.0	59.9	18.9	-	70.9	17.4	44.2	-
WB9606	-	1.0	60.5	15.8	-	63.4	22.4	42.9	-
MS Ranchero	-	1.0	58.5	16.2	-	64.3	21.4	42.8	-
Bolles	-	1.0	59.2	17.8	-	65.2	20.2	42.7	-
Boost	-	1.0	59.8	16.5	-	61.6	23.2	42.4	-
Surpass	-	1.0	60.5	17.7	-	63.8	20.7	42.3	-
MS Barracuda	-	1.0	59.1	17.1	-	66.8	17.6	42.2	-
Prevail	-	1.0	59.2	17.7	-	66.2	17.4	41.8	-
Lang-MN	-	1.0	58.0	16.2	-	63.6	19.7	41.6	-
SY Rustler	-	1.0	57.7	18.0	-	68.7	12.9	40.8	-
ND Frohberg	-	1.0	59.0	17.2	-	61.1	18.9	40.0	-
Focus	-	1.0	60.2	18.7	-	62.3	12.9	37.6	-
PFS Buns	-	1.0	57.4	16.7	-	-	21.7	-	-
MS Cobra	-	1.0	59.7	16.2	-	-	21.5	-	-
CP3119A	-	1.0	57.2	15.3	-	-	21.2	-	-
AP Gunsmoke CL2	-	1.0	58.8	17.2	-	-	21.0	-	-
AP Revolution	-	1.0	59.7	16.8	-	-	21.0	-	-
CP3188	-	1.0	59.3	15.0	-	-	19.9	-	-
Trial Average#	-	1.0	59.5	16.5	-	68.4	21.2	45.1	-
LSD (0.05)†	-	-	0.7	1.1	-	3.3	3.2	-	-
C.V. %‡	-	-	0.9	4.6	-	3.4	10.7	-	-

* 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.