



**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 Claire City

Jonathan Kleinjan | SDSU Extension Agronomist
Karl Glover | SDSU Spring Wheat Breeder
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager
Christopher Nelson | Agricultural Research Assistant

Cooperator: Leon Koeppel
Location: 45.806205°, -97.089330°
Soil Type: Peever clay loam, 2-6% slopes
Previous crop: soybeans
Tillage: conventional
Row spacing: 7"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 130-50-10 broadcast preplant
Herbicide:
-Burndown: NR
-Post: 1 pt/acre PerfectMatch + 1.5 pt/acre MCPA
Fungicide: none
Date seeded: 4/21/2021
Date harvested: 8/3/2021

SDSU Extension is an equal opportunity provider and employer in accordance with the nondiscrimination policies of South Dakota State University, the South Dakota Board of Regents and the United States Department of Agriculture.

Learn more at extension.sdstate.edu.

© 2021, South Dakota Board of Regents



2021 South Dakota Spring Wheat Variety Trial Results Claire City

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2021 spring wheat variety performance trial results (average of four replications) at Claire City, South Dakota. Entries are sorted by overall three-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)
CP3530	not reported	not reported	57.6	15.9	56.6	74.3	34.8	54.5	55.2
Driver	not reported	not reported	60.7	15.3	51.0	71.1	38.9	55.0	53.7
WB9590	-	-	59.2	16.4	48.4	74.7	35.6	55.1	52.9
SY Valda	-	-	58.4	15.9	52.1	72.4	33.9	53.1	52.8
MN-Torgy	-	-	61.6	16.8	50.9	71.4	36.1	53.7	52.8
Prevail	-	-	59.4	15.6	48.2	71.7	36.9	54.3	52.3
SY Ingmar	-	-	58.8	15.6	53.0	66.9	34.5	50.7	51.4
WB9719	-	-	61.6	15.6	44.1	72.7	37.0	54.9	51.3
SY Rustler	-	-	56.0	15.9	53.0	67.2	33.0	50.1	51.1
LCS Trigger	-	-	60.1	15.2	41.0	73.6	38.1	55.9	50.9
AP Murdock	-	-	56.0	16.7	48.1	71.8	30.7	51.2	50.2
Surpass	-	-	59.6	16.0	51.2	66.1	33.1	49.6	50.1
Shelly	-	-	60.2	15.2	35.5	73.8	40.4	57.1	49.9
CP3915	-	-	60.3	16.1	47.4	65.9	33.7	49.8	49.0
LCS Cannon	-	-	59.4	16.0	40.4	72.4	32.8	52.6	48.6
Focus	-	-	58.5	17.9	44.5	68.4	30.4	49.4	47.8
Boost	-	-	60.1	17.1	43.8	61.9	35.0	48.4	46.9
Lang-MN	-	-	56.9	16.2	40.4	66.5	32.6	49.6	46.5
LCS Rebel	-	-	60.7	16.7	41.8	61.4	36.4	48.9	46.5
MS Barracuda	-	-	58.7	16.4	39.3	66.0	33.7	49.8	46.3
MN-Washburn	-	-	59.3	15.8	36.1	63.9	35.5	49.7	45.2
Bolles	-	-	58.4	18.3	34.8	65.6	33.8	49.7	44.7
WB9606	-	-	59.9	14.2	-	70.3	40.4	55.3	-
LCS Buster	-	-	59.1	14.4	-	72.6	37.1	54.9	-
ND Frohberg	-	-	59.1	16.5	-	69.8	38.2	54.0	-
MS Rancho	-	-	57.4	15.1	-	66.6	35.6	51.1	-
CP3099A	-	-	58.3	14.5	-	57.5	38.8	48.2	-
AP Gunsmoke CL2	-	-	58.5	17.0	-	-	37.2	-	-
CP3119A	-	-	57.6	14.8	-	-	36.7	-	-
CP3188	-	-	56.3	15.2	-	-	35.6	-	-
PFS Buns	-	-	58.2	16.3	-	-	33.1	-	-
AP Revolution	-	-	57.1	16.0	-	-	32.2	-	-
MS Cobra	-	-	58.5	16.1	-	-	32.0	-	-
Trial Average#	-	-	59.1	16.0	44.4	68.2	36.0	52.1	49.8
LSD (0.05)†	-	-	1.4	0.5	6.7	5.7	3.7	-	-
C.V. %‡	-	-	1.7	2.3	10.8	5.9	7.4	-	-

* 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.