



**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 Draper

Jonathan Kleinjan | SDSU Extension Agronomist
Christopher Graham | SDSU Extension Agronomist
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager
Bruce Swan | Agricultural Research Manager

Cooperator: Paul Patterson
Location: 43.906944°, -100.547222°
Soil Type: Lakoma silty clay, 6-15% slopes
Previous crop: sunflowers
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: NR
-Post: none
Fungicide: none
Date seeded: 3/31/2021
Date harvested: 8/3/2021
Notes: Very dry throughout the growing season.



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Table 1. 2021 spring wheat variety performance trial results (average of four replications) at Draper, 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)
MN-Torgy	15	not reported	59.5	18.7	33.9	56.3	29.6	42.9	39.9
LCS Trigger	17	reported	58.4	18.2	32.7	60.4	26.0	43.2	39.7
SY Valda	15	-	58.6	18.0	34.4	56.1	26.0	41.0	38.8
CP3530	20	-	57.6	17.5	32.4	57.0	26.7	41.8	38.7
Prevail	17	-	57.3	17.2	33.3	55.6	27.0	41.3	38.6
Surpass	21	-	57.8	18.0	33.8	53.2	28.5	40.8	38.5
Shelly	15	-	58.6	18.1	28.3	58.4	27.0	42.7	37.9
CP3915	18	-	59.4	18.0	31.0	51.5	28.6	40.0	37.0
Boost	17	-	57.2	18.9	34.1	54.5	21.7	38.1	36.8
Driver	21	-	58.9	17.0	23.8	55.2	28.3	41.8	35.8
Lang-MN	19	-	57.8	18.3	30.2	53.0	23.8	38.4	35.7
SY Ingmar	16	-	58.7	18.2	35.3	49.2	22.4	35.8	35.6
SY Rustler	20	-	57.1	17.5	31.0	52.8	22.4	37.6	35.4
LCS Cannon	21	-	59.1	17.4	23.6	53.8	28.7	41.2	35.4
AP Murdock	17	-	57.7	18.2	33.2	53.0	19.1	36.1	35.1
MN-Washburn	16	-	57.5	18.0	24.9	55.7	24.6	40.2	35.1
WB9719	15	-	60.1	18.2	32.9	45.3	22.4	33.9	33.5
Focus	22	-	59.6	19.4	31.0	52.5	16.9	34.7	33.5
LCS Rebel	22	-	58.6	18.8	27.2	46.3	26.9	36.6	33.5
Bolles	18	-	57.6	19.6	26.3	48.3	24.2	36.3	33.0
WB9590	15	-	57.4	18.1	29.5	37.2	25.2	31.2	30.6
MS Barracuda	17	-	56.8	18.9	18.3	45.0	21.5	33.3	28.3
LCS Buster	19	-	57.2	18.2	-	58.4	20.3	39.4	-
MS Ranchero	18	-	56.2	17.6	-	53.7	24.3	39.0	-
WB9606	18	-	58.7	17.7	-	53.5	22.8	38.1	-
CP3099A	15	-	55.7	18.6	-	52.1	13.7	32.9	-
ND Frohberg	19	-	53.9	18.6	-	46.6	18.9	32.7	-
CP3188	18	-	57.9	17.2	-	-	29.7	-	-
AP Gunsmoke CL2	17	-	57.9	18.6	-	-	24.8	-	-
CP3119A	16	-	53.7	17.4	-	-	23.0	-	-
AP Revolution	15	-	57.4	18.4	-	-	22.5	-	-
MS Cobra	17	-	57.7	18.2	-	-	21.9	-	-
PFS Buns	14	-	55.8	20.2	-	-	14.9	-	-
Trial Average#	18	-	57.8	18.1	29.4	52.3	24.2	38.2	35.7
LSD (0.05)†	-	-	1.5	1.1	4.4	3.3	5.0	-	-
C.V. %‡	-	-	-	4.4	9.2	5.6	14.8	-	-

* 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.