



**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 Brookings

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

Cooperator: South Dakota State University Farm Department
Location: 44.326691°, -96.801075°
Soil Type: Lamoure silty clay loam, coteau, 0-1% 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: 80-60-40-20S broadcast preplant
Herbicide:
-Burndown: NR
-Post: 1.3 pt/acre WideMatch + 1.5 pt/acre Bison
Fungicide: none
Date seeded: 4/15/2021
Date harvested: 7/29/2021

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Table 1. 2021 spring wheat variety performance trial results (average of four replications) at Brookings, 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)
LCS Trigger	26	1.0	61.6	13.1	32.7	60.4	74.6	67.5	55.9
Shelly	23	1.0	62.2	14.9	28.3	58.4	72.8	65.6	53.2
SY Valda	23	1.0	60.8	14.2	34.4	56.1	68.3	62.2	52.9
MN-Torgy	25	1.0	62.4	16.3	33.9	56.3	66.8	61.6	52.3
CP3530	28	1.0	60.6	15.4	32.4	57.0	61.8	59.4	50.4
SY Ingmar	23	1.0	60.8	14.9	35.3	49.2	65.1	57.2	49.9
Boost	26	1.0	60.7	15.6	34.1	54.5	60.7	57.6	49.8
AP Murdock	24	1.0	58.6	14.9	33.2	53.0	62.6	57.8	49.6
Lang-MN	25	1.0	60.5	15.3	30.2	53.0	64.8	58.9	49.4
Prevail	24	1.0	60.5	15.2	33.3	55.6	58.2	56.9	49.0
MN-Washburn	24	1.0	61.2	14.9	24.9	55.7	66.1	60.9	48.9
Surpass	25	1.0	61.2	14.9	33.8	53.2	59.7	56.5	48.9
SY Rustler	24	1.0	58.7	14.4	31.0	52.8	62.2	57.5	48.7
CP3915	26	1.0	62.6	15.8	31.0	51.5	63.4	57.5	48.6
WB9719	25	1.0	62.0	15.9	32.9	45.3	66.9	56.1	48.4
Driver	28	1.0	62.4	15.3	23.8	55.2	65.6	60.4	48.2
LCS Cannon	26	1.0	61.9	15.2	23.6	53.8	63.0	58.4	46.8
LCS Rebel	27	1.0	61.3	15.7	27.2	46.3	62.4	54.3	45.3
Bolles	27	1.0	59.3	17.7	26.3	48.3	57.2	52.8	44.0
Focus	27	1.0	60.2	17.1	31.0	52.5	44.8	48.7	42.8
WB9590	21	1.0	60.4	16.6	29.5	37.2	59.4	48.3	42.0
MS Barracuda	24	1.0	60.0	15.6	18.3	45.0	59.2	52.1	40.8
LCS Buster	25	1.0	60.6	13.0	-	58.4	74.6	66.5	-
CP3099A	28	1.0	58.8	12.8	-	52.1	73.1	62.6	-
WB9606	25	1.0	61.5	14.0	-	53.5	71.2	62.3	-
MS Rancho	24	1.0	59.9	14.4	-	53.7	59.0	56.3	-
ND Froberg	26	1.0	60.7	15.4	-	46.6	63.5	55.0	-
CP3119A	27	1.0	57.4	13.9	-	-	69.5	-	-
CP3188	25	1.0	58.4	13.5	-	-	68.9	-	-
PFS Buns	23	1.0	58.4	14.9	-	-	68.6	-	-
AP Gunsmoke CL2	24	1.0	60.0	15.7	-	-	68.2	-	-
MS Cobra	25	1.0	60.9	15.0	-	-	63.2	-	-
AP Revolution	24	1.0	59.5	14.9	-	-	61.7	-	-
Trial Average#	25	1.0	60.6	15.1	29.4	52.3	64.4	58.2	48.4
LSD (0.05)†	-	-	0.7	0.4	4.4	3.3	3.5	-	-
C.V. %‡	-	-	0.9	2.0	9.2	5.6	3.9	-	-

* 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.