



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

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

2023 South Dakota Spring Wheat Variety Trial Results South Shore

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

Cooperator: South Dakota State University Northeast Research Farm
Location: 45.106818°, -97.097026°
Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slopes
Previous crop: soybeans
Tillage: conventional
Row spacing: 8"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 200-0-100 broadcast preplant
Herbicide:
-Burndown: none
-Post: 1.5 pt/acre Bronate + 0.6 pt/acre Parity
Fungicide: none
Date seeded: 5/2/2023
Date harvested: 8/10/2023



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Table 1. 2023 spring wheat variety performance trial results (average of 4 replications) at South Shore, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are boldfaced and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2021 (bu/a)#	2022 (bu/a)	2023 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	25	1.0	58.9	14.4	52.8	48.6	61.2	54.9	54.2
LCS Buster	24	1.0	58.1	14.5	51.8	44.7	62.9	53.8	53.1
WB9719	21	1.0	59.5	15.5	54.8	43.8	60.1	52.0	52.9
Ascend-SD	24	1.0	58.7	16.1	50.0	51.7	54.9	53.3	52.2
CP3099A	25	1.0	57.7	14.3	52.5	43.5	60.3	51.9	52.1
Driver	26	1.0	58.6	15.7	52.7	43.3	58.8	51.1	51.6
Brawn-SD	21	1.0	59.8	15.1	51.8	43.0	59.0	51.0	51.3
SY Valda	22	1.0	57.9	15.8	50.4	41.0	57.4	49.2	49.6
WB9606	22	1.0	58.5	15.6	52.6	33.6	58.7	46.1	48.3
AP Revolution	22	1.0	59.0	16.2	43.1	43.8	56.7	50.3	47.9
LCS Cannon	23	1.0	60.0	16.6	46.7	40.9	52.7	46.8	46.7
MN-Rothsay	22	1.0	57.9	15.7	48.1	36.0	52.7	44.4	45.6
MS Cobra	23	1.0	57.6	16.5	48.2	36.5	51.5	44.0	45.4
AP Gunsmoke CL2	22	1.0	58.2	17.1	44.7	34.6	56.4	45.5	45.2
Prevail	23	1.0	58.2	16.3	47.5	38.9	49.0	44.0	45.1
AP Murdock	21	1.0	57.6	16.7	42.7	42.5	49.2	45.8	44.8
Surpass	24	1.0	58.1	16.8	44.3	40.1	48.1	44.1	44.2
MS Charger	22	1.0	58.0	14.9	-	44.2	58.6	51.4	-
CAG Reckless	23	1.0	58.3	16.4	-	44.3	57.1	50.7	-
CAG Justify	23	1.0	56.1	16.2	-	45.7	54.8	50.2	-
LCS Dual	23	1.0	58.3	15.1	-	38.4	56.9	47.7	-
LCS Ascent	24	1.0	58.4	15.9	-	40.1	54.4	47.3	-
LCS Boom	23	1.0	59.9	16.9	-	39.8	52.8	46.3	-
LCS Hammer AX	22	1.0	57.6	16.1	-	36.7	54.9	45.8	-
CP3188	25	1.0	58.1	14.9	-	-	60.2	-	-
PFS Buns	23	1.0	53.4	15.3	-	-	57.6	-	-
MN-Torgy	23	1.0	59.3	16.3	-	-	57.5	-	-
AP Venom	23	1.0	56.1	16.0	-	-	53.3	-	-
CAG Recoil	22	1.0	56.6	16.3	-	-	50.9	-	-
ND Heron	25	1.0	58.4	17.6	-	-	50.3	-	-
WB9590	20	1.0	57.4	17.3	-	-	48.5	-	-
Trial Average#	23	1.0	58.1	16.1	47.8	40.7	54.6	48.6	48.8
LSD (0.05)†	-	-	0.7	0.6	4.5	2.6	3.2	-	-
C.V. %‡	-	-	-	-	6.7	4.5	4.2	-	-

* 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.