



**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 Claire City

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Cooperator: Leon Koeppel
Location: 45.805705°, -97.092679°
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: 250lb/acre 12-40-0-10S-1Z broadcast preplant
Herbicide:
-Burndown: NR
-Post: 1.5 pt/acre Bromac + 1 pt/acre PerfectMatch
Fungicide: none
Date seeded: 5/17/2023
Date harvested: 8/25/2023



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Table 1. 2023 spring wheat variety performance trial results (average of 4 replications) at Claire City, 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)
Brawn-SD	23	1.0	61.0	14.1	46.9	40.6	38.4	39.5	42.0
WB9606	25	1.0	59.9	13.9	40.4	38.1	41.9	40.0	40.1
LCS Trigger	24	1.0	59.0	13.7	38.1	41.4	39.6	40.5	39.7
LCS Buster	25	1.0	56.8	13.2	37.1	37.3	42.5	39.9	39.0
Driver	26	1.0	60.4	14.4	38.9	40.4	35.7	38.1	38.3
CP3099A	27	1.0	55.7	13.0	38.8	36.6	37.9	37.2	37.8
WB9719	23	1.0	59.9	14.8	37.0	39.0	36.0	37.5	37.3
SY Valda	23	1.0	59.1	14.7	33.9	40.9	37.0	39.0	37.3
Ascend-SD	24	1.0	59.0	14.8	38.1	41.5	30.5	36.0	36.7
MN-Rothsay	22	1.0	59.7	14.5	36.1	34.7	38.3	36.5	36.3
AP Gunsmoke CL2	23	1.0	57.5	15.8	37.2	39.3	29.6	34.5	35.4
Prevail	25	1.0	58.8	13.8	36.9	33.7	33.6	33.7	34.7
MS Cobra	23	1.0	59.5	15.1	32.0	31.6	31.3	31.4	31.6
LCS Cannon	22	1.0	60.6	15.0	32.8	31.1	31.0	31.0	31.6
Surpass	23	1.0	59.4	15.2	33.1	30.9	28.1	29.5	30.7
AP Murdock	23	1.0	58.2	15.1	30.7	32.2	27.4	29.8	30.1
AP Revolution	22	1.0	59.8	14.5	32.2	25.3	29.1	27.2	28.9
LCS Dual	25	1.0	60.0	14.1	-	34.8	39.6	37.2	-
CAG Reckless	25	1.0	59.6	14.5	-	34.1	35.9	35.0	-
LCS Ascent	23	1.0	60.2	14.0	-	34.4	34.2	34.3	-
LCS Boom	22	1.0	60.7	15.9	-	33.6	33.1	33.4	-
CAG Justify	23	1.0	56.0	14.1	-	35.5	28.8	32.2	-
MS Charger	22	1.0	59.7	13.3	-	34.1	27.7	30.9	-
LCS Hammer AX	22	1.0	59.0	14.6	-	32.0	27.7	29.9	-
MN-Torgy	24	1.0	59.4	14.8	-	-	36.1	-	-
AP Venom	23	1.0	56.8	15.6	-	-	35.3	-	-
ND Heron	24	1.0	60.0	15.6	-	-	33.1	-	-
CP3188	25	1.0	56.2	13.7	-	-	32.0	-	-
CAG Recoil	25	1.0	56.6	14.6	-	-	30.8	-	-
WB9590	20	1.0	58.1	15.7	-	-	30.7	-	-
PFS Buns	24	1.0	54.5	14.8	-	-	28.6	-	-
Trial Average#	24	1.0	58.8	14.7	36.0	36.4	33.0	34.8	35.7
LSD (0.05)†	-	-	1.5	0.4	3.7	3.9	6.6	-	-
C.V. %‡	-	-	-	-	7.4	7.7	14.3	-	-

* 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.