



2023 South Dakota Spring Wheat Variety Trial Results Sturgis

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Cooperator: South Dakota State University Sturgis Research Farm
Location: 44.424167°, -103.376111°
Soil Type: Nunn loams, 0-2% slopes
Previous crop: field peas
Tillage: no-till
Row spacing: 10"
Seeding Rate: 1.2 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: 16 pz/acre WideMatch + 32 oz/acre Roundup
-Post: none
Fungicide: none
Date seeded: 4/12/2023
Date harvested: 8/9/2023



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**SOUTH DAKOTA STATE
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Table 1. 2023 spring wheat variety performance trial results (average of 4 replications) at Sturgis, 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	not reported	not reported	59.9	15.4	50.4	46.1	78.1	62.1	58.2
WB9606			58.6	15.5	46.6	49.4	77.2	63.3	57.8
LCS Buster	-	-	56.8	14.1	43.0	48.0	81.6	64.8	57.6
Prevail	-	-	57.7	15.1	46.9	45.5	77.3	61.4	56.5
MS Cobra	-	-	58.7	15.5	49.9	45.7	73.7	59.7	56.4
Ascend-SD	-	-	59.0	15.6	48.8	44.4	74.1	59.3	55.8
AP Revolution	-	-	59.7	15.6	46.4	40.3	79.7	60.0	55.5
MN-Rothsay	-	-	58.7	15.6	42.8	42.3	80.6	61.4	55.2
WB9719	-	-	57.2	15.6	50.2	53.2	62.2	57.7	55.2
LCS Cannon	-	-	59.7	15.8	51.5	43.1	70.8	57.0	55.1
Surpass	-	-	58.0	15.9	44.2	46.5	73.3	59.9	54.7
AP Gunsmoke CL2	-	-	57.6	16.0	50.5	43.0	70.5	56.7	54.7
LCS Trigger	-	-	58.0	14.8	47.9	47.8	68.2	58.0	54.6
SY Valda	-	-	59.3	16.1	44.8	44.1	74.0	59.1	54.3
Driver	-	-	58.2	15.1	48.7	43.5	70.4	56.9	54.2
CP3099A	-	-	56.3	14.8	39.5	47.2	74.6	60.9	53.8
AP Murdock	-	-	58.4	15.5	40.9	38.1	75.7	56.9	51.6
MS Charger	-	-	59.1	14.3	-	48.4	80.6	64.5	-
LCS Dual	-	-	58.2	15.2	-	48.0	76.5	62.3	-
LCS Ascent	-	-	58.1	15.4	-	48.7	75.3	62.0	-
CAG Reckless	-	-	57.7	15.0	-	46.1	73.9	60.0	-
LCS Boom	-	-	59.2	15.3	-	43.2	75.9	59.5	-
CAG Justify	-	-	58.7	15.2	-	46.2	72.1	59.1	-
LCS Hammer AX	-	-	57.1	15.1	-	48.4	67.3	57.9	-
CAG Recoil	-	-	57.5	14.9	-	-	84.1	-	-
MN-Torgy	-	-	57.4	14.8	-	-	78.5	-	-
ND Heron	-	-	58.6	15.1	-	-	77.4	-	-
AP Venom	-	-	56.8	15.5	-	-	73.7	-	-
CP3188	-	-	58.4	15.2	-	-	68.2	-	-
WB9590	-	-	58.9	16.2	-	-	67.5	-	-
PFS Buns	-	-	56.8	15.7	-	-	67.5	-	-
Trial Average#	-	-	58.2	15.5	45.5	45.6	73.0	60.0	55.4
LSD (0.05)†	-	-	1.9	1.3	5.4	5.5	9.6	-	-
C.V. %‡	-	-	-	-	8.4	8.6	9.4	-	-

* 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.