



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

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

2024 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 oz/acre WideMatch + 32 oz/acre Roundup
-Post: none
Fungicide: none
Date seeded: 4/15/2024
Date harvested: 7/31/2024

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Table 1. 2024 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 shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2022 (bu/a)#	2023 (bu/a)	2024 (bu/a)	2-year (bu/a)	3-year (bu/a)
MS CHARGER	28	not reported	59.2	14.2	48.5	80.6	52.4	66.5	60.5
BRAWN-SD	30	reported	60.0	15.2	46.1	78.1	55.3	66.7	59.8
WB9606	29	-	59.5	14.8	49.5	77.2	51.6	64.4	59.4
LCS BUSTER	29	-	57.0	13.9	48.1	81.7	47.3	64.5	59.0
LCS ASCENT	29	-	60.0	14.9	48.7	75.4	50.9	63.1	58.3
CAG RECKLESS	30	-	59.2	15.0	46.1	73.9	54.2	64.0	58.0
ASCEND-SD	31	-	59.3	15.7	44.4	74.1	54.8	64.4	57.8
LCS BOOM	28	-	60.3	15.2	43.2	75.9	54.4	65.1	57.8
PREVAIL	29	-	58.5	15.0	45.5	77.3	49.4	63.4	57.4
SURPASS	30	-	58.8	15.4	46.5	73.3	51.5	62.4	57.1
SY VALDA	28	-	59.3	15.4	44.1	74.0	52.5	63.3	56.9
MS COBRA	29	-	59.6	15.6	45.8	73.7	50.8	62.3	56.8
LCS DUAL	29	-	58.9	14.7	48.1	76.5	45.2	60.8	56.6
AP REVOLUTION	27	-	59.4	15.5	40.3	79.8	49.8	64.8	56.6
CAG JUSTIFY	29	-	58.7	15.1	46.2	72.1	50.5	61.3	56.3
LCS HAMMER AX	28	-	58.7	14.8	48.4	67.3	52.1	59.7	55.9
CP3099A	32	-	55.6	14.4	47.2	74.7	45.1	59.9	55.7
MN-ROTHSAY	26	-	59.5	15.5	42.3	80.6	44.3	62.4	55.7
AP GUNSMOKE CL2	28	-	59.0	16.2	43.0	70.5	52.5	61.5	55.3
LCS CANNON	28	-	59.8	15.2	43.1	70.8	50.9	60.9	54.9
AP MURDOCK	27	-	59.1	15.8	38.1	75.7	50.2	62.9	54.7
LCS TRIGGER	29	-	57.9	14.7	47.8	68.2	45.4	56.8	53.8
DRIVER	30	-	59.0	14.9	43.5	70.4	45.2	57.8	53.0
PFS BUNS	27	-	55.2	15.5	48.7	67.5	36.4	52.0	50.9
CAG RECOIL	27	-	58.9	15.2	-	84.1	53.0	68.5	-
MN-TORGY	29	-	58.2	15.2	-	78.5	51.1	64.8	-
CP3188	28	-	58.4	14.6	-	68.2	50.7	59.5	-
WB9590	27	-	59.2	15.6	-	67.5	51.0	59.3	-
ND STAMPEDE	29	-	59.2	15.5	-	-	55.8	-	-
MS NOVA	29	-	59.2	15.5	-	-	53.4	-	-
CAG CERES	29	-	59.5	14.6	-	-	48.8	-	-
CP3322	28	-	57.8	14.7	-	-	48.0	-	-
CP3055	27	-	57.8	14.6	-	-	46.4	-	-
ND THRESHER	28	-	57.9	15.5	-	-	46.0	-	-
Trial Average#	28.6	-	58.8	15.2	44.7	73.1	50.2	61.9	56.6
LSD (0.05)†	-	-	2.3	0.6	5.5	9.4	4.4	5	4.1
C.V. %‡	-	-	-	-	8.9	9.3	6.3	8.3	8.8

* 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.