



**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 Miller

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Cooperator: Lee Lichty
Location: 44.457949°, -98.762852°
Soil Type: Houdek-Prosper loams, 0-2% 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: 160 lb/acre 46-0-0, 50 lbs Mesz 12-40-0, 10 S, 1 Zn
Herbicide:
-Burndown: none
-Post: 2 pt/acre Bronate
Fungicide: none
Date seeded: 5/13/2024
Date harvested: 8/31/2024

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Table 1. 2024 spring wheat variety performance trial results (average of 4 replications) at Miller, 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)
BRAWN-SD	29	1.7	58.6	13.9	59.1	63.5	30.2	46.8	50.9
ASCEND-SD	31	1.4	57.3	14.9	56.7	58.0	31.7	44.9	48.8
DRIVER	30	1.6	57.6	14.9	52.3	61.6	31.9	46.8	48.6
LCS TRIGGER	28	1.6	57.4	13.8	53.9	66.7	24.8	45.8	48.5
MS CHARGER	28	1.8	55.9	13.6	53.7	60.0	30.8	45.4	48.1
LCS CANNON	27	1.3	58.2	15.2	60.0	54.1	28.4	41.2	47.5
SY VALDA	28	1.5	57.3	14.9	55.5	57.9	28.6	43.2	47.3
LCS BUSTER	27	1.1	55.7	14.0	58.6	65.9	15.5	40.7	46.7
LCS BOOM	27	1.6	57.9	15.2	55.4	54.5	28.8	41.7	46.2
CAG JUSTIFY	28	1.6	55.0	13.9	53.8	55.7	28.1	41.9	45.9
CAG RECKLESS	29	1.6	57.7	15.1	54.4	52.9	30.2	41.5	45.8
SURPASS	30	2.1	56.3	15.1	53.8	48.2	33.8	41.0	45.3
MS COBRA	28	1.5	56.1	14.9	53.4	56.3	25.3	40.8	45.0
PREVAIL	29	1.8	56.9	15.2	55.0	47.8	31.5	39.7	44.8
LCS ASCENT	28	1.8	56.9	14.8	54.6	55.2	24.1	39.6	44.6
AP GUNSMOKE CL2	28	1.9	55.6	15.9	52.5	53.3	25.2	39.3	43.7
AP MURDOCK	27	1.5	56.6	14.9	52.9	51.9	25.8	38.9	43.5
LCS HAMMER AX	26	1.7	54.8	15.3	54.4	55.4	19.2	37.3	43.0
PFS BUNS	25	1.0	52.9	14.7	45.0	73.6	9.4	41.5	42.6
WB9606	27	1.5	56.1	14.7	50.6	57.7	18.9	38.3	42.4
AP REVOLUTION	26	1.3	57.5	15.4	52.9	48.1	25.9	37.0	42.3
MN-ROTHSAY	26	1.3	56.7	15.2	49.1	58.2	16.9	37.5	41.4
CP3099A	30	1.1	51.6	13.5	42.0	66.6	11.2	38.9	40.0
LCS DUAL	27	1.6	55.7	15.2	50.1	50.9	18.3	34.6	39.8
MN-TORGY	28	1.7	57.7	15.0	-	64.8	23.3	44.0	-
CAG RECOIL	26	1.0	55.7	14.9	-	59.8	26.6	43.2	-
CP3188	29	2.5	54.8	13.8	-	58.5	25.3	41.9	-
WB9590	24	1.0	55.3	16.7	-	47.4	24.0	35.7	-
ND STAMPEDE	29	1.7	57.3	14.5	-	-	31.3	-	-
CAG CERES	28	1.2	57.6	15.2	-	-	25.0	-	-
ND THRESHER	25	1.5	56.5	15.8	-	-	22.3	-	-
MS NOVA	25	1.2	57.0	15.4	-	-	18.6	-	-
CP3322	27	2.0	51.2	15.8	-	-	15.5	-	-
CP3055	31	1.2	49.6	15.1	-	-	12.1	-	-
Trial Average#	27.9	1.5	56.2	15	52.5	56	24.3	41	45
LSD (0.05)†	-	-	1.9	1.0	2.8	3.6	5.9	3.5	2.5
C.V. %‡	-	-	-	-	3.8	4.7	17.6	8.7	6.8

* 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.