



2024 South Dakota Spring Wheat Variety Trial Results Wall

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Cooperator: Tyler Eisenbraun
Location: 44.038056°, -102.375278°
Soil Type: Santanta loam, 0-2% slopes
Previous crop: sunflowers
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: 4/24/2024
Date harvested: 8/5/2024



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**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2024 spring wheat variety performance trial results (average of 4 replications) at Wall, 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)
LCS BOOM	26	not reported	56.0	15.8	54.7	54.9	23.6	39.2	44.4
LCS CANNON	26	reported	56.0	15.8	61.2	42.3	22.3	32.3	41.9
SY VALDA	26	-	53.2	16.1	56.7	47.0	22.1	34.5	41.9
MN-ROTHSAY	24	-	53.8	15.8	53.6	49.0	21.9	35.4	41.5
ASCEND-SD	28	-	55.3	16.2	52.1	49.0	22.9	36.0	41.4
AP GUNSMOKE CL2	26	-	54.6	16.9	53.1	47.2	23.7	35.5	41.3
LCS TRIGGER	27	-	53.1	15.7	51.1	54.1	18.4	36.3	41.2
DRIVER	27	-	53.5	15.6	51.3	47.5	24.0	35.7	40.9
BRAWN-SD	27	-	56.1	15.5	52.0	44.4	23.8	34.1	40.1
MS COBRA	25	-	54.6	16.1	47.4	50.9	21.6	36.2	40.0
LCS BUSTER	26	-	50.4	15.4	51.8	48.3	19.5	33.9	39.8
AP MURDOCK	26	-	54.9	16.6	56.2	42.2	19.3	30.7	39.2
MS CHARGER	26	-	54.2	15.1	49.1	48.6	19.9	34.2	39.2
SURPASS	27	-	54.0	16.1	54.1	41.3	20.5	30.9	38.6
WB9606	27	-	54.0	15.5	54.6	39.1	21.6	30.4	38.5
CAG JUSTIFY	28	-	51.5	16.2	54.8	39.7	20.2	29.9	38.2
LCS HAMMER AX	27	-	53.5	15.6	49.8	41.6	22.7	32.1	38.0
LCS ASCENT	27	-	55.0	15.6	51.4	38.7	23.7	31.2	37.9
PFS BUNS	25	-	48.8	16.4	60.5	44.6	6.2	25.4	37.1
PREVAIL	26	-	55.0	15.6	42.3	46.7	21.4	34.1	36.8
CAG RECKLESS	27	-	55.1	15.7	45.8	42.1	20.3	31.2	36.0
AP REVOLUTION	26	-	55.2	16.2	42.3	30.8	24.3	27.5	32.5
LCS DUAL	28	-	54.4	15.2	48.2	24.4	22.1	23.2	31.6
CP3099A	27	-	52.0	15.8	52.4	6.0	21.6	13.8	26.7
MN-TORGY	25	-	55.2	16.0	-	50.1	19.7	34.9	-
CAG RECOIL	26	-	51.4	16.1	-	43.8	24.9	34.4	-
CP3188	27	-	52.3	15.3	-	39.7	28.9	34.3	-
WB9590	25	-	53.9	16.5	-	37.3	18.9	28.1	-
ND STAMPEDE	26	-	52.6	16.4	-	-	25.0	-	-
CP3055	27	-	53.9	15.5	-	-	21.0	-	-
CAG CERES	27	-	53.9	15.3	-	-	20.3	-	-
MS NOVA	24	-	53.9	15.8	-	-	19.4	-	-
CP3322	27	-	53.9	16.2	-	-	18.7	-	-
ND THRESHER	27	-	53.9	16.2	-	-	16.8	-	-
Trial Average#	26.2	-	53.8	16.0	51.4	41.0	21.6	31.7	38.3
LSD (0.05)†	-	-	0.6	0.8	8.4	5.0	3.5	2.9	3.3
C.V. %‡	-	-	-	-	11.8	8.7	11.9	9.5	10.9

* 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.