



**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 South Shore

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Cooperator: South Dakota State University Northeast Research Farm
Location: 45.106808°, -97.100020°
Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slopes
Previous crop: soybeans
Tillage: min-till
Row spacing: 8"
Seeding Rate: 1.8 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 100-30-30 broadcast preplant
Herbicide:
-Burndown: none
-Post: 1.5 pt/acre Bronate
Fungicide: none
Date seeded: 5/6/2024
Date harvested: 8/28/2024

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Table 1. 2024 spring wheat variety performance trial results (average of 4 replications) at South Shore, 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)
ASCEND-SD	29	1.5	55.4	15.4	51.8	54.9	54.9	54.9	53.8
LCS TRIGGER	28	1.7	52.8	14.0	48.6	61.2	45.9	53.5	51.9
BRAWN-SD	26	1.8	56.4	14.7	43.0	59.0	51.5	55.2	51.2
AP REVOLUTION	26	1.3	56.2	15.5	43.8	56.7	51.8	54.2	50.8
SY VALDA	27	1.4	54.6	15.1	41.0	57.4	51.6	54.5	50.0
CAG RECKLESS	28	1.8	55.2	15.4	44.3	57.1	46.5	51.8	49.3
DRIVER	29	1.7	54.5	15.2	43.3	58.9	45.4	52.1	49.2
CAG JUSTIFY	27	2.0	50.8	15.8	45.7	54.8	43.5	49.1	48.0
LCS BUSTER	28	1.3	50.9	14.4	44.7	62.9	35.2	49.1	47.6
MS CHARGER	26	1.4	53.7	14.6	44.2	58.6	39.2	48.9	47.3
AP MURDOCK	25	1.5	55.0	15.4	42.6	49.1	49.7	49.4	47.1
CP3099A	30	1.5	50.8	14.2	43.5	60.3	36.1	48.2	46.7
LCS BOOM	26	1.3	55.7	16.1	39.8	52.8	46.3	49.5	46.3
PREVAIL	26	1.4	55.1	15.4	38.9	49.1	47.9	48.5	45.3
SURPASS	27	1.7	54.2	15.9	40.1	48.1	47.1	47.6	45.1
LCS ASCENT	26	1.8	54.8	15.1	40.1	54.4	39.3	46.9	44.6
LCS CANNON	25	1.4	55.7	15.7	40.9	52.7	38.1	45.4	43.9
PFS BUNS	26	1.7	45.6	15.0	49.3	57.6	22.0	39.8	43.0
WB9606	27	1.3	53.1	15.6	33.6	58.7	36.1	47.4	42.8
LCS DUAL	27	1.3	52.2	15.3	38.4	56.9	31.4	44.1	42.2
MN-ROTHSAY	26	1.3	53.1	15.2	36.1	52.7	37.7	45.2	42.2
MS COBRA	26	1.5	51.9	15.8	36.5	51.5	37.3	44.4	41.8
AP GUNSMOKE CL2	26	1.8	50.3	16.1	34.6	56.4	33.0	44.7	41.3
LCS HAMMER AX	26	1.3	51.6	15.2	36.7	54.9	30.5	42.7	40.7
MN-TORGY	27	1.6	55.9	15.7	-	57.5	48.3	52.9	-
CP3188	28	2.6	52.9	14.9	-	60.2	43.8	52.0	-
CAG RECOIL	25	1.2	53.2	15.6	-	50.9	44.2	47.5	-
WB9590	23	1.2	51.6	16.1	-	48.5	36.3	42.4	-
ND THRESHER	27	2.0	54.9	15.6	-	-	45.8	-	-
ND STAMPEDE	28	1.0	51.6	15.3	-	-	44.2	-	-
CAG CERES	26	1.5	54.9	15.0	-	-	43.8	-	-
MS NOVA	25	1.7	53.6	15.4	-	-	37.0	-	-
CP3055	28	1.5	43.2	14.9	-	-	30.1	-	-
CP3322	27	1.0	46.9	14.8	-	-	29.9	-	-
Trial Average#	26.8	1.5	53.3	15.4	40.9	54.8	41.7	48.5	46.2
LSD (0.05)†	-	-	1.3	0.5	2.6	3.3	5.5	3.3	2.4
C.V. %‡	-	-	-	-	4.5	4.2	9.5	6.9	6.4

* 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.