



**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 Mina

Karl Glover | SDSU Spring Wheat Breeder
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Cooperator: Gregg and Tom Erickson
Location: 45.403178°, -98.786368°
Soil Type:
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: 140-26-18-10s
Herbicide:
-Burndown: none
-Post: 2 pt/acre Bronate
Fungicide: none
Date seeded: 4/22/2024
Date harvested: 8/19/2024



2024 South Dakota Spring Wheat Variety Trial Results Mina

**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2024 spring wheat variety performance trial results (average of 4 replications) at Mina, 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 TRIGGER	29	1.5	58.1	13.4	51.8	60.4	60.3	60.4	57.5
SY VALDA	28	1.7	57.3	14.8	43.4	59.7	67.2	63.5	56.8
BRAWN-SD	28	1.8	58.1	14.4	42.1	61.2	66.3	63.8	56.6
ASCEND-SD	30	2.1	58.1	15.2	45.7	54.6	64.9	59.8	55.1
MS CHARGER	27	2.7	56.8	13.7	40.3	55.7	67.4	61.5	54.5
LCS BUSTER	29	1.7	55.1	13.3	40.9	55.5	62.2	58.8	52.8
DRIVER	29	2	57.9	14.9	43.0	57.6	56.9	57.2	52.5
SURPASS	30	2.5	57	15.4	40.0	52	65.5	58.7	52.5
PREVAIL	30	2.2	56.9	14.9	39.5	54.5	62.6	58.5	52.2
MN-ROTHSAY	26	1.3	57.2	15.1	38.5	60.2	57.1	58.7	51.9
AP REVOLUTION	27	1.8	58	15.5	38.8	51.4	64.5	57.9	51.6
CAG JUSTIFY	29	2.2	55.1	14.7	41.6	48.0	64.8	56.4	51.4
CAG RECKLESS	28	2.2	56.6	15.4	41.4	49.5	60.3	54.9	50.4
LCS DUAL	29	2.1	56.6	14.7	35.7	57.9	55.2	56.5	49.6
AP MURDOCK	27	1.5	56.8	15.2	41.3	49.6	57.4	53.5	49.4
AP GUNSMOKE CL2	28	2.8	57.2	15.8	37.6	55.5	53.4	54.4	48.8
WB9606	28	1.6	57.3	14.3	38.1	59.0	48.6	53.8	48.6
LCS ASCENT	27	2.4	57.1	15.0	32.4	55.7	57.4	56.6	48.5
MS COBRA	28	2	56.1	15.5	34.4	52.1	58.4	55.3	48.3
LCS CANNON	27	1.8	57.9	15.7	34.2	55.5	50.3	52.9	46.7
PFS BUNS	27	1.1	52.9	14.4	51.6	44.1	41.8	43.0	45.8
CP3099A	30	1.6	53.1	13.1	35.6	59.8	37.5	48.7	44.3
LCS BOOM	26	1.8	58.1	16.0	30.6	50.4	50.7	50.5	43.9
LCS HAMMER AX	27	1.6	55.8	15.4	33.3	48.4	49.4	48.9	43.7
MN-TORGY	28	1.7	58.1	15.4	-	61.0	64.9	62.9	-
CP3188	28	2.8	55.5	14.0	-	55.8	57.0	56.4	-
WB9590	25	1.3	56.5	15.8	-	53.1	56.3	54.7	-
CAG RECOIL	26	1.2	55.3	15.7	-	50.6	58.0	54.3	-
MS NOVA	26	2.1	58.1	15.6	-	-	59.4	-	-
ND THRESHER	27	2.6	57.3	15.7	-	-	59.0	-	-
ND STAMPEDE	30	2.4	56.8	14.5	-	-	54.8	-	-
CAG CERES	26	1.4	57.5	14.6	-	-	52.6	-	-
CP3055	31	1.9	50.6	14.1	-	-	47.3	-	-
CP3322	28	1.4	54	14.9	-	-	40.4	-	-
Trial Average#	28	1.9	56.6	15	39.4	54.6	57.3	56.4	50.6
LSD (0.05)†	-	-	2.2	0.6	2.3	7.1	5.7	4.7	3.4
C.V. %‡	-	-	-	-	4.2	9.9	7.2	8.5	8.4

* 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.