



**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 Selby

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Cooperator: Tom Fiedler
Location: 45.518561°, -100.037454°
Soil Type: Highmore silt loam, 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: 173-26-0-18s
Herbicide:
-Burndown: none
-Post: 2 pt/acre Bronate
Fungicide: none
Date seeded: 4/23/2024
Date harvested: 8/30/2024



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Table 1. 2024 spring wheat variety performance trial results (average of 4 replications) at Selby, 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)
CAG JUSTIFY	31	2.7	58.0	14.3	73.2	106.2	83.8	95.0	87.7
LCS TRIGGER	31	2.3	60.3	12.9	74.9	105.5	81.1	93.3	87.2
SY VALDA	29	2.5	59.8	14.7	72.0	103.3	82.5	92.9	85.9
BRAWN-SD	31	2.6	61.2	14.4	76.4	96.9	83.4	90.2	85.6
ASCEND-SD	33	2.1	60.4	15.3	73.5	102.1	80.9	91.5	85.5
LCS BUSTER	32	2.4	57.8	13.3	76.4	106.3	71.0	88.6	84.6
MS CHARGER	29	3.0	59.1	13.8	79.4	97.0	76.0	86.5	84.1
DRIVER	32	2.1	60.0	15.0	70.7	104.6	76.4	90.5	83.9
CAG RECKLESS	30	2.7	60.6	15.2	71.9	96.1	82.2	89.2	83.4
AP REVOLUTION	28	2.8	60.4	15.3	74.2	97.0	79.1	88.1	83.4
MN-ROTHSAY	27	1.9	59.9	14.7	72.2	97.4	80.4	88.9	83.3
CP3099A	35	1.4	56.9	13.3	69.1	105.1	70.4	87.7	81.5
LCS HAMMER AX	29	2.0	58.6	14.8	71.4	102.6	69.9	86.2	81.3
LCS DUAL	31	2.2	60.0	14.6	73.2	96.3	74.6	85.4	81.3
AP MURDOCK	27	2.1	59.8	15.0	73.8	92.7	76.2	84.5	80.9
LCS ASCENT	29	2.5	59.8	14.7	76.9	94.0	71.9	82.9	80.9
AP GUNSMOKE CL2	28	2.8	58.7	16.4	73.7	94.9	72.3	83.6	80.3
MS COBRA	29	2.1	59.3	15.2	69.0	100.2	69.8	85.0	79.7
WB9606	29	2.3	59.6	14.3	76.1	99.1	61.8	80.4	79.0
PFS BUNS	30	1.8	56.1	14.3	69.4	108.9	57.1	83.0	78.4
SURPASS	29	2.0	59.3	15.5	71.2	91.6	72.3	81.9	78.3
LCS BOOM	29	2.0	61.5	15.5	73.2	84.0	76.1	80.1	77.8
PREVAIL	29	2.1	59.8	14.6	67.1	91.0	75.0	83.0	77.7
LCS CANNON	27	1.9	60.9	15.6	77.7	86.3	67.4	76.9	77.1
MN-TORGY	29	1.6	60.8	15.3	-	99.7	80.8	90.2	-
CP3188	32	3.6	58.0	13.7	-	105.0	73.7	89.3	-
CAG RECOIL	26	1.5	58.7	14.9	-	103.2	72.3	87.7	-
WB9590	27	2.0	58.4	16.3	-	92.1	66.8	79.4	-
ND STAMPEDE	29	2.0	59.4	15.7	-	-	81.5	-	-
ND THRESHER	28	2.8	59.5	14.9	-	-	75.9	-	-
CAG CERES	28	1.8	61.0	14.6	-	-	74.0	-	-
MS NOVA	28	2.0	60.4	15.4	-	-	73.9	-	-
CP3055	34	1.5	54.3	14.4	-	-	72.9	-	-
CP3322	32	2.5	55.6	15.0	-	-	61.7	-	-
Trial Average#	29.6	2.2	59.5	14.9	72.2	97.8	74.1	86.4	81.9
LSD (0.05)†	-	-	1.2	0.6	2.5	4.2	7.2	4.1	2.8
C.V. %‡	-	-	-	-	2.4	3	7	4.8	4.3

* 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.