South Dakota State University
College of Agriculture, Food and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2023 South Dakota Spring Wheat Variety Trial Results Selby

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Cooperator:	Tom Fiedler
Location:	45.500377°, -100.017151°
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:	183-26-0-18S broadcast preplant
Herbicide:	
-Burndown:	none
-Post:	1.5 pt/acre Bromac + 1 pt/acre PerfectMatch
Fungicide:	11 oz/acre Prosaro Pro applied at heading
Date seeded:	4/25/2023
Date harvested:	8/25/2023

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Table 1. 2023 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 boldfaced and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2021 (bu/a)#	2022 (bu/a)	2023 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	28	3.3	60.6	12.8	**52.5**	**74.9**	**105.4**	**90.2**	**77.6**
LCS Buster	29	3.0	58.8	13.2	**49.7**	**76.4**	**106.3**	**91.4**	**77.5**
WB9719	28	4.0	61.5	14.9	**51.4**	70.9	**102.6**	86.8	**75.0**
Driver	30	3.0	60.2	15.4	**49.2**	70.6	**104.6**	**87.6**	**74.8**
CP3099A	33	1.8	58.4	13.2	**47.3**	69.0	**105.0**	87.0	**73.8**
Brawn-SD	28	3.8	60.7	15.2	46.0	**76.4**	96.9	86.7	**73.1**
SY Valda	30	3.5	59.4	15.5	43.6	72.0	**103.3**	**87.6**	73.0
WB9606	27	3.0	59.8	14.6	43.7	**76.0**	99.1	**87.6**	72.9
Ascend-SD	30	3.0	60.2	15.8	43.0	73.5	102.1	**87.8**	72.8
AP Gunsmoke CL2	27	3.3	59.3	17.1	**49.2**	73.7	94.9	84.3	72.6
AP Revolution	26	3.3	60.4	16.5	40.6	**74.2**	97.0	85.6	70.6
MS Cobra	27	2.8	59.7	15.8	40.9	69.0	100.2	84.6	70.0
LCS Cannon	24	2.3	61.2	16.2	43.4	**77.7**	86.3	82.0	69.1
MN-Rothsay	25	2.8	59.3	15.0	35.8	72.2	97.4	84.8	68.5
Surpass	29	3.0	59.0	16.4	41.7	71.2	91.6	81.4	68.1
AP Murdock	24	3.0	59.4	15.4	36.9	73.7	92.7	83.2	67.8
Prevail	28	2.5	59.1	15.3	35.6	67.1	91.0	79.1	64.6
CAG Justify	29	3.8	58.7	14.2	-	73.2	**106.1**	**89.7**	-
MS Charger	28	4.0	58.9	14.3	-	**79.4**	97.0	**88.2**	-
LCS Hammer AX	28	3.0	58.9	15.1	-	71.4	**102.6**	87.0	-
LCS Ascent	28	2.8	60.0	15.4	-	**76.8**	93.9	85.4	-
LCS Dual	28	2.8	59.8	15.3	-	73.1	96.3	84.7	-
CAG Reckless	29	3.5	60.1	16.0	-	71.9	96.1	84.0	-
LCS Boom	27	2.5	61.0	16.4	-	73.2	84.0	78.6	-
PFS Buns	32	2.8	56.8	14.0	-	-	**108.9**	-	-
CP3188	30	3.8	58.8	14.2	-	-	**105.0**	-	-
CAG Recoil	25	2.5	59.1	15.1	-	-	**103.2**	-	-
MN-Torgy	27	2.5	60.4	15.5	-	-	99.7	-	-
WB9590	26	2.5	59.1	17.0	-	-	92.1	-	-
ND Heron	30	3.3	60.2	16.3	-	-	88.5	-	-
AP Venom	27	2.5	56.7	15.2	-	-	85.5	-	-
Trial Average#	28	3.0	59.6	15.3	42.6	72.2	97.9	85.6	71.9
LSD (0.05)†	-	-	0.6	0.4	3.1	2.5	4.1	-	-
C.V. %‡	-	-	-	-	5.2	2.4	3.0	-	-

* 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.