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

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

2022 South Dakota Spring Wheat Variety Trial Results Selby

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Cooperator:	Tom Fiedler
Location:	45.486058°, -100.018303°
Soil Type:	Highmore-Eakin silt loams, cool, 2-6% slopes
Previous crop:	soybeans
Tillage:	no-till
Row spacing:	8"
Seeding Rate:	1.2 million PLS/acre
Fertilizer:	
-Starter:	90 lb/acre 30-10-10
-Other:	168-28-0-18S broadcast preplant
Herbicide:	
-Burndown:	none
-Post:	2 pt/acre Maestro 2EC + 1 pt/acre WideMatch
Fungicide:	none
Date seeded:	4/20/2022
Date harvested:	8/17/2022

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Table 1. 2022 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 bolded and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2020 (bu/a)#	2021 (bu/a)	2022 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	32	1.0	62.4	12.8	**79.5**	**52.5**	**74.9**	**63.7**	**69.0**
LCS Buster	33	1.0	59.8	13.0	**80.1**	**49.7**	**76.4**	**63.1**	**68.7**
WB9719	30	1.0	63.5	14.3	**73.1**	**51.4**	70.9	**61.2**	**65.1**
CP3099A	35	1.0	59.3	12.9	**75.0**	**47.3**	69.0	58.2	**63.8**
Ascend-SD	34	1.0	62.5	14.3	**71.6**	43.0	**73.5**	58.2	**62.7**
Driver	32	1.0	62.9	14.3	68.2	**49.2**	70.6	**59.9**	**62.7**
SY Valda	28	1.0	62.2	13.7	**72.3**	43.6	72.0	57.8	**62.6**
WB9606	30	1.0	63.1	13.3	67.0	43.7	**76.0**	**59.9**	62.2
CP3530	32	1.0	60.8	14.8	**72.0**	**44.0**	69.7	56.8	61.9
LCS Cannon	27	1.0	63.7	14.9	62.1	43.4	**77.7**	**60.5**	61.1
LCS Rebel	34	1.0	63.0	14.9	58.8	**49.4**	71.3	**60.4**	59.8
AP Murdock	27	1.0	61.9	14.2	67.1	36.9	**73.7**	55.3	59.2
MS Ranchero	30	1.0	61.6	14.0	61.8	41.4	71.6	56.5	58.3
MN-Rothsay	28	1.0	62.6	14.0	66.4	35.8	72.2	54.0	58.1
Surpass	31	1.0	61.8	14.3	59.9	41.7	71.2	56.4	57.6
SY Ingmar	29	1.0	61.6	15.4	64.1	43.4	65.0	54.2	57.5
Lang-MN	32	1.0	62.8	15.0	60.6	41.3	70.4	55.8	57.4
SY Rustler	30	1.0	62.0	13.8	58.3	38.5	71.6	55.0	56.1
Prevail	29	1.0	62.5	13.8	60.9	35.6	67.1	51.4	54.6
ND Frohberg	32	1.0	62.3	14.5	60.8	26.8	65.7	46.3	51.1
AP Gunsmoke CL2	29	1.0	61.3	14.5	-	**49.2**	**73.7**	**61.5**	-
AP Revolution	28	1.0	62.8	14.3	-	40.6	**74.2**	57.4	-
MS Cobra	28	1.0	61.9	14.5	-	40.9	69.0	55.0	-
MS Charger	29	1.0	61.9	12.8	-	-	**79.4**	-	-
LCS Ascent	31	1.0	63.0	14.2	-	-	**76.8**	-	-
CAG Justify	31	1.0	60.0	13.8	-	-	73.2	-	-
LCS Dual	31	1.0	62.4	13.7	-	-	73.1	-	-
CAG Reckless	31	1.0	63.2	14.2	-	-	71.9	-	-
LCS Hammer AX	29	1.0	61.8	14.1	-	-	71.4	-	-
Trial Average#	30	1.0	62.1	14.4	64.6	42.6	72.2	57.3	60.5
LSD (0.05)†	-	-	0.7	0.7	3.9	3.1	2.5	-	-
C.V. %‡	-	-	-	-	4.4	5.2	2.4	-	-

* 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.