



**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 South Shore

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Cooperator: South Dakota State University Northeast Research Farm
Location: 45.106803°, -97.100222°
Soil Type: Kranzburg-Brookings silty clay loams, 0-2% slopes
Previous crop: soybeans
Tillage: conventional
Row spacing: 8"
Seeding Rate: 1.2 million PLS/acre
Fertilizer:
-Starter: 90 lb/acre 30-10-10
-Other: 25 gal/acre 28-0-0 streambar applied at Feekes 6-7 (jointing)
Herbicide:
-Burndown: none
-Post: 1.5 pt/acre WildCard Xtra
Fungicide: none
Date seeded: 5/7/2022
Date harvested: 8/16/2022

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Table 1. 2022 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 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	24	1.0	49.7	13.0	71.7	52.8	48.6	50.7	57.7
LCS Buster	26	1.0	47.2	13.6	69.3	51.8	44.7	48.3	55.3
Ascend-SD	27	1.0	57.0	14.6	63.9	50.0	51.7	50.9	55.2
Driver	27	1.0	55.4	14.6	65.7	52.7	43.3	48.0	53.9
WB9719	26	1.0	54.8	15.4	55.5	54.8	43.8	49.3	51.4
SY Valda	25	1.0	54.9	14.7	59.2	50.4	41.0	45.7	50.2
CP3530	27	1.0	54.4	14.8	59.6	45.6	43.7	44.7	49.6
MN-Rothsay	23	1.0	53.0	15.0	61.9	48.1	36.0	42.1	48.7
CP3099A	27	1.0	52.7	12.9	49.2	52.5	43.5	48.0	48.4
LCS Rebel	26	1.0	55.5	15.7	50.3	51.4	43.0	47.2	48.2
WB9606	25	1.0	53.7	15.1	58.4	52.6	33.6	43.1	48.2
SY Ingmar	26	1.0	56.2	16.3	54.2	49.4	40.9	45.1	48.2
Prevail	23	1.0	55.7	14.4	57.8	47.5	38.9	43.2	48.0
AP Murdock	22	1.0	55.7	14.5	58.7	42.7	42.5	42.6	48.0
Surpass	25	1.0	54.6	15.4	57.1	44.3	40.1	42.2	47.2
ND Frohberg	27	1.0	54.8	15.7	55.4	47.9	37.9	42.9	47.1
LCS Cannon	23	1.0	56.7	14.9	52.1	46.7	40.9	43.8	46.5
Lang-MN	24	1.0	54.2	14.9	54.7	43.6	40.8	42.2	46.4
SY Rustler	23	1.0	55.9	14.7	54.4	42.2	41.2	41.7	45.9
MS Ranchero	25	1.0	51.9	16.6	48.5	45.7	28.5	37.1	40.9
AP Revolution	24	1.0	56.1	15.4	-	43.1	43.8	43.4	-
MS Cobra	23	1.0	53.5	15.8	-	48.2	36.5	42.3	-
AP Gunsmoke CL2	24	1.0	51.8	15.7	-	44.7	34.6	39.6	-
CAG Justify	26	1.0	52.1	15.1	-	-	45.7	-	-
CAG Reckless	25	1.0	56.5	15.1	-	-	44.3	-	-
MS Charger	25	1.0	55.5	13.7	-	-	44.2	-	-
LCS Ascent	23	1.0	56.3	14.9	-	-	40.1	-	-
LCS Dual	26	1.0	53.6	15.3	-	-	38.4	-	-
LCS Hammer AX	24	1.0	53.2	14.7	-	-	36.7	-	-
Trial Average#	24	1	54	15	57.1	47.8	40.7	44.5	49.2
LSD (0.05)†	-	-	1.3	0.9	3.1	4.5	2.6	-	-
C.V. %‡	-	-	-	-	3.9	6.7	4.5	-	-

* 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.