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

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

2021 South Dakota Spring Wheat Variety Trial Results South Shore

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Cooperator:	South Dakota State University Northeast Research Farm
Location:	45.106939°, -97.098703°
Soil Type:	Kranzburg-Brookings silty clay loams, 0-2% slopes
Previous crop:	soybeans
Tillage:	conventional
Row spacing:	8"
Seeding Rate:	1.8 million PLS/acre
Fertilizer:	
-Starter:	90 lb/acre 30-10-10
-Other:	200-0-50-5Z preplant broadcast
Herbicide:	
-Burndown:	NR
-Post:	1.25 pt/acre Maestro + 0.5 pt/acre Parity
Fungicide:	none
Date seeded:	4/22/2021
Date harvested:	8/2/2021

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Table 1. 2021 spring wheat variety performance trial results (average of four replications) at South Shore, South Dakota. Entries are sorted by overall three-year yield. Varieties yielding in the top third of the trial are shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2019 (bu/a)#	2020 (bu/a)	2021 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	23	1.0	61.1	13.7	65.3	71.7	52.8	62.3	63.3
SY Valda	19	1.0	60.4	15.0	62.7	59.2	50.4	54.8	57.4
SY Ingmar	20	1.0	60.1	15.3	64.3	54.2	49.4	51.8	56.0
Driver	22	1.0	62.4	15.2	47.6	65.7	52.7	59.2	55.3
AP Murdock	20	1.0	59.0	15.5	63.5	58.7	42.7	50.7	55.0
Prevail	21	1.0	59.9	14.9	59.6	57.8	47.5	52.6	54.9
WB9590	18	1.0	60.8	15.9	60.3	57.8	46.4	52.1	54.8
WB9719	20	1.0	63.2	15.9	53.9	55.5	54.8	55.2	54.7
CP3530	23	1.0	59.7	15.0	56.8	59.6	45.6	52.6	54.0
Shelly	20	1.0	61.9	14.8	51.7	56.9	52.3	54.6	53.6
SY Rustler	21	1.0	56.5	15.1	61.4	54.4	42.2	48.3	52.7
Surpass	21	1.0	60.9	14.9	55.9	57.1	44.3	50.7	52.4
MN-Washburn	19	1.0	60.8	15.3	51.7	58.2	46.9	52.5	52.3
CP3915	20	1.0	61.9	15.9	53.0	56.9	45.7	51.3	51.9
MN-Torgy	19	1.0	61.6	16.4	53.7	55.9	44.8	50.4	51.5
Boost	22	1.0	60.5	16.2	53.5	55.0	45.1	50.1	51.2
Bolles	22	1.0	60.1	18.2	47.9	60.0	45.3	52.6	51.1
LCS Cannon	22	1.0	60.6	14.8	49.8	52.1	46.7	49.4	49.5
MS Barracuda	19	1.0	60.1	15.4	47.9	54.1	45.6	49.9	49.2
Lang-MN	21	1.0	60.1	15.2	48.4	54.7	43.6	49.1	48.9
Focus	23	1.0	61.1	16.5	48.3	56.3	41.5	48.9	48.7
LCS Rebel	24	1.0	61.4	16.0	42.1	50.3	51.4	50.8	47.9
LCS Buster	19	1.0	59.8	13.7	-	69.3	51.8	60.6	-
WB9606	22	1.0	62.4	14.8	-	58.4	52.6	55.5	-
ND Frohberg	22	1.0	61.1	15.8	-	55.4	47.9	51.7	-
CP3099A	22	1.0	59.9	13.4	-	49.2	52.5	50.9	-
MS Ranchero	20	1.0	58.8	14.4	-	48.5	45.7	47.1	-
CP3119A	21	1.0	57.0	14.5	-	-	51.7	-	-
PFS Buns	18	1.0	58.4	15.7	-	-	49.5	-	-
MS Cobra	21	1.0	61.0	15.8	-	-	48.2	-	-
CP3188	22	1.0	58.5	13.3	-	-	46.6	-	-
AP Gunsmoke CL2	20	1.0	58.1	15.8	-	-	44.7	-	-
AP Revolution	20	1.0	58.7	14.7	-	-	43.1	-	-
Trial Average#	21	1.0	60.4	15.4	52.7	57.1	47.8	52.4	53.0
LSD (0.05)†	-	-	0.6	0.5	5.0	3.1	4.5	-	-
C.V. %‡	-	-	0.7	2.4	6.8	3.9	6.7	-	-

* 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.