2020 South Dakota
Spring Wheat Variety Trial Results
South Shore

Jonathan Kleinjan | SDSU Extension Crop Production Associate
Kevin Kirby | Agricultural Research Manager
Shawn Hawks | Agricultural Research Manager

Cooperator:	SDSU Northeast Research Farm, Al Heuer, manager
Location:	45.105896°, -97.100218°
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:	60 lb/acre 30-10-10
-Other:	180-0-100 broadcast preplant incorporated
Herbicide:	
-Burndown:	none
-Post:	1.5 pt/acre Bronate
Fungicide:	none
Date seeded:	4/27/2020
Date harvested:	8/18/2020

Table 1. 2020 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 shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2018 (bu/a)	2019 (bu/a)	2020 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	29	2.5	60.9	13.8	79.2	65.3	71.7	68.5	72.1
WB9590	25	3.0	58.7	16.4	75.2	60.3	57.8	59.0	64.4
SY Ingmar	27	2.5	59.9	16.0	72.7	64.3	54.2	59.3	63.7
CP3530	31	3.0	59.0	15.8	74.6	56.8	59.6	58.2	63.6
SY Rustler	25	3.0	59.0	15.7	75.0	61.4	54.4	57.9	63.6
Forefront	31	3.0	60.3	16.3	74.4	59.8	56.4	58.1	63.5
SY Valda	29	3.0	59.5	15.4	65.9	62.7	59.2	60.9	62.6
Prevail	27	3.0	59.9	14.7	70.0	59.6	57.8	58.7	62.5
WB9479	26	2.5	59.3	16.7	67.5	60.2	56.1	58.1	61.3
Driver	30	2.0	60.9	15.4	69.0	47.6	65.7	56.6	60.7
Surpass	27	3.3	58.9	16.0	68.5	55.9	57.1	56.5	60.5
LCS Cannon	25	3.3	60.1	15.1	78.9	49.8	52.1	50.9	60.2
MS Barracuda	26	3.3	57.6	15.9	78.5	47.9	54.1	51.0	60.2
Shelly	27	3.0	59.1	15.2	69.2	51.7	56.9	54.3	59.2
WB9719	27	2.5	60.5	15.3	67.9	53.9	55.5	54.7	59.1
MN-Washburn	27	1.8	59.6	15.3	66.6	51.7	58.2	54.9	58.8
Focus	32	3.0	61.0	16.3	70.9	48.3	56.3	52.3	58.5
CP3888	27	2.8	58.2	16.1	65.1	50.7	58.5	54.6	58.1
Advance	26	2.8	61.0	15.3	62.3	50.0	61.3	55.6	57.9
Bolles	29	2.5	59.3	17.5	65.3	47.9	60.0	53.9	57.7
MS Chevelle	25	3.3	58.5	14.6	72.3	45.6	52.4	49.0	56.7
Boost	29	2.5	60.0	16.6	60.0	53.5	55.0	54.2	56.2
LCS Rebel	30	3.5	58.0	16.0	69.3	42.1	50.3	46.2	53.9
Lang-MN	28	2.5	59.7	15.7	53.0	48.4	54.7	51.5	52.0
AP Murdock	25	2.8	58.6	15.3	-	63.5	58.7	61.1	-
CP3915	28	2.8	60.3	15.4	-	53.0	56.9	54.9	-
MN-Torgy	26	2.5	59.8	16.1	-	53.7	55.9	54.8	-
SY 611 CL2	26	3.0	60.8	15.8	-	50.2	55.6	52.9	-
LCS Buster	30	1.5	59.0	14.0	-	-	69.3	-	-
WB9606	29	2.5	59.6	14.2	-	-	58.4	-	-
ND Frohberg	29	3.0	60.3	15.6	-	-	55.4	-	-
CP3910	27	3.0	59.3	15.8	-	-	53.0	-	-
CP3903	28	3.3	59.0	16.0	-	-	50.2	-	-
CP3099A	32	2.0	54.0	13.7	-	-	49.2	-	-
MS Ranchero	26	3.0	57.1	15.0	-	-	48.5	-	-
Trial Average#	27	2.6	59.4	15.6	68.6	52.7	57.1	55.7	60.3
LSD(0.05)†	1.3	0.6	1.0	0.3	4.7	5.0	3.1	-	-
C.V.%‡	3.4	-	1.2	1.4	5.0	6.8	3.9	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.
# Trial averages may include values from experimental lines that are not reported.
† 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.