



**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 Selby

Jonathan Kleinjan | SDSU Extension Agronomist  
Kevin Kirby | Agricultural Research Manager  
Shawn Hawks | Agricultural Research Manager

**Cooperator:** Tom Feidler  
**Location:** 45.518561°, -100.037454°  
**Soil Type:** Highmore silt loam, cool, 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: 150-23-0 preplant broadcast  
**Herbicide:**  
-Burndown: NR  
-Post: 1.3 pt/ac WideMatch + 1.5 pt/ac MCPA  
**Fungicide:** none  
**Date seeded:** 4/9/2021  
**Date harvested:** 8/19/2021  
**Notes:** Very dry throughout the growing season.



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Table 1. 2021 spring wheat variety performance trial results (average of four replications) at Selby, 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	60.7	13.8	77.0	79.5	52.5	66.0	69.6
CP3530	25	1.0	58.8	15.7	72.6	72.0	44.0	58.0	62.9
WB9719	21	1.0	63.1	16.0	63.7	73.1	51.4	62.3	62.7
CP3915	23	1.0	62.1	16.6	65.8	69.3	48.6	58.9	61.2
SY Valda	20	1.0	60.7	16.2	65.6	72.3	43.6	57.9	60.5
AP Murdock	20	1.0	59.3	16.3	74.8	67.1	36.9	52.0	59.6
Driver	24	1.0	62.1	15.5	60.5	68.2	49.2	58.7	59.3
MN-Torgy	21	1.0	60.9	16.1	64.8	67.2	45.8	56.5	59.3
MN-Washburn	21	1.0	59.8	16.6	58.1	68.3	49.0	58.7	58.5
Shelly	21	1.0	61.2	15.4	60.8	66.6	47.3	56.9	58.2
SY Ingmar	21	1.0	62.0	16.0	65.1	64.1	43.4	53.8	57.5
LCS Cannon	23	1.0	61.4	16.7	63.4	62.1	43.4	52.7	56.3
WB9590	20	1.0	59.7	17.0	63.4	62.2	39.4	50.8	55.0
LCS Rebel	24	1.0	61.8	16.7	55.5	58.8	49.4	54.1	54.6
Surpass	20	1.0	60.2	17.4	58.4	59.9	41.7	50.8	53.3
Lang-MN	23	1.0	59.4	16.2	57.8	60.6	41.3	50.9	53.2
SY Rustler	20	1.0	57.7	15.4	62.6	58.3	38.5	48.4	53.1
Prevail	19	1.0	58.8	16.4	60.6	60.9	35.6	48.3	52.4
Boost	24	1.0	60.3	17.2	58.3	62.1	32.9	47.5	51.1
MS Barracuda	21	1.0	59.3	17.6	57.0	58.5	36.6	47.5	50.7
Focus	24	1.0	60.9	18.4	56.3	55.8	33.5	44.6	48.5
Bolles	24	1.0	59.0	18.7	53.3	55.8	35.1	45.5	48.1
LCS Buster	20	1.0	60.4	13.9	-	80.1	49.7	64.9	-
CP3099A	26	1.0	58.5	13.5	-	75.0	47.3	61.1	-
WB9606	22	1.0	60.9	15.2	-	67.0	43.7	55.3	-
MS Rancho	21	1.0	58.6	15.7	-	61.8	41.4	51.6	-
ND Froberg	23	1.0	60.0	16.8	-	60.8	26.8	43.8	-
AP Gunsmoke CL2	21	1.0	60.2	17.0	-	-	49.2	-	-
CP3119A	26	1.0	56.9	13.8	-	-	47.8	-	-
CP3188	21	1.0	59.2	14.1	-	-	46.8	-	-
PFS Buns	20	1.0	58.9	14.8	-	-	44.9	-	-
MS Cobra	24	1.0	60.2	16.3	-	-	40.9	-	-
AP Revolution	21	1.0	60.1	15.5	-	-	40.6	-	-
<b>Trial Average#</b>	22	1.0	60.2	16.1	60.0	64.6	42.6	54	56.6
<b>LSD (0.05)†</b>	-	-	0.9	0.6	4.2	3.9	3.1	-	-
<b>C.V. %‡</b>	-	-	1.1	2.5	5.1	4.4	5.2	-	-

\* 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.