



**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 Gettysburg

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Cooperator: Cronin Farms
Location: 44.973730°, -100.063979°
Soil Type: Highmore silt loam, 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: 40 gal/acre 28-0-0 preemerge
Herbicide:
-Burndown: NR
-Post: 1pt/acre WideMatch
Fungicide: none
Date seeded: 4/21/2021
Date harvested: 7/28/2021
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 Frankfort, South Dakota. Entries are sorted by overall two-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	not reported	not reported	60.3	15.1	45.2	79.4	41.3	60.4	55.3
Shelly	not reported	not reported	61.7	16.1	40.2	66.0	40.0	53.0	48.8
LCS Cannon	-	-	62.8	16.7	40.4	66.4	33.4	49.9	46.8
SY Valda	-	-	61.2	16.4	44.0	62.2	33.0	47.6	46.4
MN-Torgy	-	-	61.1	17.9	44.6	62.4	31.8	47.1	46.3
CP3915	-	-	61.0	17.9	39.6	64.2	33.4	48.8	45.7
Driver	-	-	61.0	17.2	41.9	63.4	31.8	47.6	45.7
CP3530	-	-	59.4	17.3	42.0	62.9	30.1	46.5	45.0
MN-Washburn	-	-	59.8	17.3	34.2	67.4	31.2	49.3	44.3
Surpass	-	-	61.2	17.3	42.6	62.3	27.6	45.0	44.2
WB9719	-	-	61.3	18.2	43.0	55.0	34.1	44.6	44.1
LCS Rebel	-	-	60.9	17.7	42.7	54.3	34.1	44.2	43.7
Lang-MN	-	-	60.6	17.3	41.7	54.4	31.2	42.8	42.4
SY Rustler	-	-	58.0	17.8	37.5	58.6	29.9	44.2	42.0
WB9590	-	-	59.2	18.8	36.8	58.7	28.7	43.7	41.4
AP Murdock	-	-	59.3	17.9	40.1	55.4	26.5	41.0	40.7
Boost	-	-	59.3	17.9	35.0	55.5	30.8	43.2	40.4
Focus	-	-	61.1	18.1	41.0	54.8	25.3	40.0	40.3
MS Barracuda	-	-	59.8	17.5	42.6	51.9	26.0	39.0	40.2
Bolles	-	-	57.9	20.3	36.2	55.0	27.0	41.0	39.4
SY Ingmar	-	-	59.8	18.3	34.6	49.3	32.7	41.0	38.9
Prevail	-	-	58.7	17.8	39.4	51.9	22.4	37.1	37.9
CP3099A	-	-	54.3	15.7	-	72.0	45.3	58.7	-
LCS Buster	-	-	58.3	15.6	-	76.4	34.2	55.3	-
WB9606	-	-	61.0	16.7	-	69.5	34.7	52.1	-
MS Rancho	-	-	59.2	16.5	-	64.8	33.1	48.9	-
ND Froberg	-	-	59.6	18.1	-	57.3	30.2	43.7	-
CP3119A	-	-	52.7	15.8	-	-	43.2	-	-
PFS Buns	-	-	55.9	17.2	-	-	39.3	-	-
CP3188	-	-	59.7	15.2	-	-	35.6	-	-
AP Gunsmoke CL2	-	-	59.9	17.5	-	-	35.2	-	-
AP Revolution	-	-	59.9	17.3	-	-	30.4	-	-
MS Cobra	-	-	58.8	18.0	-	-	27.9	-	-
Trial Average#	-	-	59.5	17.4	38.4	60.9	32.3	46.5	43.6
LSD (0.05)†	-	-	1.5	0.6	4.4	3.8	4.3	-	-
C.V. %‡	-	-	1.8	2.4	8.2	4.5	9.6	-	-

* 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.