



**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 Gettysburg

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

Cooperator: Cronin Farms
Location: 45.003228°, -100.124459°
Soil Type: Agar-Mobridge silt loams, 0-3% slopes
Previous crop: sudan grass
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: 18 oz/acre Bronate + 0.3 oz/acre Affinity
Fungicide: 12.7 oz/acre Miravis Ace applied at Feekes 10.5.1 (early flowering)
Date seeded: 4/21/2022
Date harvested: 8/10/2022



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Table 1. 2022 spring wheat variety performance trial results (average of 4 replications) at Gettysburg, 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	27	1.0	62.5	14.1	79.4	41.3	77.0	59.2	65.9
CP3099A	28	1.3	60.7	14.1	72.0	45.3	68.7	57.0	62.0
LCS Buster	26	1.3	61.0	13.8	76.4	34.2	73.5	53.9	61.4
Ascend-SD	30	1.0	61.7	15.8	69.3	38.3	67.4	52.9	58.4
WB9606	27	1.0	61.5	14.8	69.5	34.7	68.9	51.8	57.7
MS Ranchero	29	1.0	60.7	15.0	64.8	33.1	68.5	50.8	55.5
SY Valda	24	1.0	61.5	15.0	62.2	33.0	70.2	51.6	55.2
LCS Cannon	26	1.0	63.2	15.0	66.4	33.4	63.1	48.3	54.3
Driver	29	1.0	62.7	14.6	63.4	31.8	66.1	48.9	53.7
CP3530	29	1.8	60.9	15.4	62.9	30.1	62.7	46.4	51.9
LCS Rebel	29	1.3	62.5	15.5	54.3	34.1	64.0	49.0	50.8
SY Rustler	26	1.5	60.2	15.6	58.6	29.9	63.2	46.5	50.5
WB9719	26	1.0	62.1	15.3	55.0	34.1	61.9	48.0	50.4
Surpass	27	1.3	61.0	16.1	62.3	27.6	61.1	44.4	50.4
MN-Rothsay	24	1.0	61.7	15.3	53.4	31.0	64.2	47.6	49.5
Lang-MN	29	1.0	60.9	15.9	54.4	31.2	61.2	46.2	48.9
SY Ingmar	24	1.0	61.7	15.8	49.3	32.7	63.2	48.0	48.4
AP Murdock	25	1.0	60.9	16.3	55.4	26.5	62.8	44.6	48.2
ND Froberg	28	1.0	60.6	15.9	57.3	30.2	54.5	42.4	47.3
Prevail	27	1.0	61.0	15.5	51.9	22.4	62.3	42.3	45.5
AP Gunsmoke CL2	27	2.0	62.0	15.8	-	35.2	68.2	51.7	-
AP Revolution	25	1.0	61.7	15.7	-	30.4	68.5	49.5	-
MS Cobra	27	1.0	61.0	15.2	-	27.9	64.7	46.3	-
MS Charger	26	1.0	61.4	13.6	-	-	77.2	-	-
LCS Dual	27	1.8	61.8	14.2	-	-	72.0	-	-
CAG Justify	29	2.3	60.5	14.7	-	-	71.0	-	-
LCS Ascent	28	1.0	62.4	14.8	-	-	69.2	-	-
CAG Reckless	29	1.0	62.2	15.6	-	-	66.5	-	-
LCS Hammer AX	26	1.3	60.6	15.6	-	-	62.3	-	-
Trial Average#	27	1.1	61.4	15.3	60.9	32.3	66.2	49.0	53.3
LSD (0.05)†	-	-	0.7	0.9	3.8	4.3	3.1	-	-
C.V. %‡	-	-	-	-	4.5	9.6	3.3	-	-

* 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.