



**SOUTH DAKOTA  
STATE UNIVERSITY**  
College of Agriculture, Food  
and Environmental Sciences

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

# 2023 South Dakota Spring Wheat Variety Trial Results Gettysburg

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**Cooperator:** Cronin Farms  
**Location:** 44.969759°, -100.093194°  
**Soil Type:** Highmore-Mobridge silt loams, 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: 35lb/acre 28-0-0 preemerge  
**Herbicide:**  
-Burndown: NR  
-Post: 10 oz/acre Bronate + 0.3 oz/acre Affinity  
**Fungicide:** none  
**Date seeded:** 4/26/2023  
**Date harvested:** 8/25/2023



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Table 1. 2023 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 boldfaced and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2021 (bu/a)#	2022 (bu/a)	2023 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	26	1.0	59.2	14.0	<b>41.3</b>	<b>77.0</b>	<b>62.0</b>	<b>69.5</b>	<b>60.1</b>
LCS Buster	26	1.0	56.7	13.7	34.2	<b>73.5</b>	<b>61.7</b>	<b>67.6</b>	<b>56.5</b>
CP3099A	27	1.0	55.4	13.7	<b>45.3</b>	68.7	48.8	58.8	<b>54.3</b>
WB9606	25	1.3	58.0	13.3	<b>34.7</b>	68.9	<b>58.0</b>	<b>63.4</b>	<b>53.9</b>
Ascend-SD	25	1.0	58.9	14.8	<b>38.3</b>	67.4	55.1	61.3	<b>53.6</b>
SY Valda	24	1.0	58.6	14.6	33.0	<b>70.2</b>	<b>56.1</b>	<b>63.1</b>	<b>53.1</b>
WB9719	26	1.0	59.5	13.4	34.1	61.9	<b>58.2</b>	60.0	51.4
Brawn-SD	24	1.0	60.0	15.0	<b>35.5</b>	<b>69.4</b>	48.8	59.1	51.2
AP Gunsmoke CL2	24	1.0	58.2	13.5	<b>35.2</b>	68.2	49.4	58.8	50.9
MN-Rothsay	25	1.0	58.1	11.8	31.0	64.2	<b>57.1</b>	60.7	50.8
LCS Cannon	23	1.0	60.1	11.4	33.4	63.1	55.1	59.1	50.5
Driver	26	1.3	58.4	12.5	31.8	66.1	52.5	59.3	50.1
AP Revolution	23	1.3	58.7	14.4	30.4	68.5	50.0	59.3	49.6
MS Cobra	25	1.0	57.6	11.9	27.9	64.7	49.5	57.1	47.4
AP Murdock	23	1.0	57.4	13.9	26.5	62.8	48.6	55.7	46.0
Surpass	25	1.3	58.3	13.9	27.6	61.1	48.3	54.7	45.7
Prevail	24	1.0	58.3	12.5	22.4	62.3	46.2	54.2	43.6
MS Charger	23	1.0	58.2	12.8	-	<b>77.2</b>	54.2	<b>65.7</b>	-
LCS Dual	25	1.0	58.9	14.0	-	<b>72.0</b>	<b>57.4</b>	<b>64.7</b>	-
CAG Justify	25	1.0	56.5	13.1	-	<b>71.0</b>	<b>55.5</b>	<b>63.3</b>	-
LCS Ascent	24	1.0	58.8	13.6	-	<b>69.2</b>	54.5	<b>61.8</b>	-
CAG Reckless	25	1.0	58.7	12.6	-	66.5	<b>55.5</b>	61.0	-
LCS Boom	24	1.0	59.6	13.1	-	64.4	53.2	58.8	-
LCS Hammer AX	24	1.0	57.3	12.9	-	62.3	52.9	57.6	-
MN-Torgy	24	1.0	59.0	14.1	-	-	<b>57.8</b>	-	-
PFS Buns	26	1.0	54.8	14.1	-	-	55.1	-	-
ND Heron	25	1.0	58.5	13.6	-	-	52.4	-	-
WB9590	21	1.0	57.4	12.8	-	-	51.3	-	-
CAG Recoil	22	1.0	57.5	13.7	-	-	50.7	-	-
CP3188	24	1.3	56.6	11.5	-	-	50.1	-	-
AP Venom	23	1.0	53.9	13.3	-	-	47.2	-	-
<b>Trial Average#</b>	25	1.0	58.1	13.4	32.3	66.2	52.9	60.7	51.1
<b>LSD (0.05)†</b>	-	-	0.8	1.1	4.3	3.1	7.7	-	-
<b>C.V. %‡</b>	-	-	-	-	9.6	3.3	10.4	-	-

\* 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.