



# 2023 South Dakota Spring Wheat Variety Trial Results Wall

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**Cooperator:** Tyler Eisenbraun  
**Location:** 44.038056°, -102.375278°  
**Soil Type:** Santanta loam, 0-2% slopes  
**Previous crop:** sunflowers  
**Tillage:** no-till  
**Row spacing:** 10"  
**Seeding Rate:** 1.2 million PLS/acre  
**Fertilizer:**  
-Starter: 6 gal/acre 10-25-0-5S-.25Z  
-Other: 40 gal.acre 28-0-0 mid-row banded  
**Herbicide:**  
-Burndown: 5 oz/acre Banvel + 32 oz/acre Roundup  
-Post: none  
**Fungicide:** none  
**Date seeded:** 4/17/2023  
**Date harvested:** 8/21/2023



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Table 1. 2023 spring wheat variety performance trial results (average of 4 replications) at Wall, 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	not reported	not reported	56.2	16.0	<b>53.9</b>	51.1	<b>54.1</b>	<b>52.6</b>	<b>53.0</b>
LCS Cannon			59.2	15.9	<b>54.8</b>	<b>61.2</b>	42.3	<b>51.7</b>	<b>52.7</b>
SY Valda	-	-	55.7	16.2	52.6	<b>56.7</b>	47.0	<b>51.9</b>	<b>52.1</b>
MN-Rothsay	-	-	56.7	15.5	<b>53.5</b>	53.6	<b>49.0</b>	<b>51.3</b>	<b>52.1</b>
Brawn-SD	-	-	59.0	15.6	<b>57.7</b>	52.0	44.4	48.2	<b>51.4</b>
Ascend-SD	-	-	57.2	16.0	50.8	52.1	<b>49.0</b>	<b>50.6</b>	<b>50.7</b>
LCS Buster	-	-	53.6	15.8	50.0	51.7	<b>48.3</b>	<b>50.0</b>	50.0
WB9606	-	-	57.5	16.2	<b>54.4</b>	<b>54.6</b>	39.1	46.9	49.4
MS Cobra	-	-	57.4	16.3	49.0	47.4	<b>50.9</b>	49.2	49.1
Surpass	-	-	56.8	16.6	50.7	<b>54.1</b>	41.3	47.7	48.7
AP Gunsmoke CL2	-	-	57.4	16.3	45.7	53.1	47.2	<b>50.1</b>	48.7
AP Murdock	-	-	57.1	16.5	46.5	<b>56.2</b>	42.2	49.2	48.3
Prevail	-	-	57.5	15.4	<b>53.0</b>	42.3	46.7	44.5	47.3
Driver	-	-	56.7	15.8	41.1	51.3	<b>47.5</b>	49.4	46.6
WB9719	-	-	57.9	15.7	39.0	<b>55.1</b>	40.5	47.8	44.8
AP Revolution	-	-	58.3	15.8	40.6	42.3	30.8	36.6	37.9
CP3099A	-	-	56.1	16.6	48.3	52.4	6.0	29.2	35.6
LCS Boom	-	-	58.7	15.8	-	<b>54.7</b>	<b>54.9</b>	<b>54.8</b>	-
MS Charger	-	-	57.0	16.2	-	49.1	<b>48.6</b>	48.8	-
CAG Justify	-	-	54.4	16.8	-	<b>54.8</b>	39.7	47.3	-
LCS Hammer AX	-	-	56.5	15.4	-	49.8	41.6	45.7	-
LCS Ascent	-	-	57.8	15.2	-	51.4	38.7	45.1	-
CAG Reckless	-	-	57.7	15.8	-	45.8	42.1	43.9	-
LCS Dual	-	-	57.1	15.5	-	48.2	24.4	36.3	-
MN-Torgy	-	-	58.1	15.7	-	-	<b>50.1</b>	-	-
ND Heron	-	-	58.4	15.8	-	-	<b>49.2</b>	-	-
PFS Buns	-	-	51.7	15.9	-	-	44.6	-	-
CAG Recoil	-	-	54.2	15.7	-	-	43.8	-	-
AP Venom	-	-	52.8	16.5	-	-	43.4	-	-
CP3188	-	-	55.7	15.8	-	-	39.7	-	-
WB9590	-	-	56.8	16.2	-	-	37.3	-	-
<b>Trial Average#</b>	-	-	56.7	15.9	48.9	51.3	41.4	47.0	48.1
<b>LSD (0.05)†</b>	-	-	0.5	1.2	5.3	8.5	5	-	-
<b>C.V. %‡</b>	-	-	-	-	7.7	11.9	8.8	-	-

\* 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.