



**SOUTH DAKOTA  
STATE UNIVERSITY**

College of Agriculture, Food and Environmental Sciences |  
SDSU Extension | South Dakota Agricultural Experiment Station

# 2025 South Dakota Spring Wheat Variety Trial Results - Brookings

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**Cooperator:** South Dakota State University Farm Department

**Location:** 44.302272°, -96.918793°

**Soil type:** Brandt silty clay loam, 0-2% slopes

**Previous crop:** Soybeans

**Tillage:** Min-till

**Row spacing:** 8"

**Seeding rate:** 1.8 million PLS/acre

**Fertilizer:**

- Starter: 90 lb / acre 30-10-10
- Other: 100-30-30 broadcast preplant

**Herbicide:**

- Burndown: None
- Post: 2 pt/acre Bronate

**Fungicide:** None

**Date seeded:** 4/11/2025

**Date harvested:** 8/12/2025



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Table 1. 2025 spring wheat variety performance trial results (average of 4 replications) at Brookings, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	Height (in)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2023 (bu/a)	2024 (bu/a)	2025 (bu/a)	2-year (bu/a)	3-year (bu/a)
LCS Trigger	31	2	56.9	12.9	<b>51.7</b>	<b>73.8</b>	<b>75.2</b>	74.5	<b>66.9</b>
MS Charger	30	2	56.1	13.8	<b>51.7</b>	<b>69.5</b>	<b>71.3</b>	70.4	<b>64.2</b>
Brawn-SD	33	2	58.0	14.3	49.2	<b>65.7</b>	<b>71.9</b>	68.8	<b>62.3</b>
Ascend-SD	35	2	56.6	15.6	43.7	<b>69.7</b>	<b>72.7</b>	71.2	<b>62.0</b>
LCS Buster	32	2	55.3	13.2	<b>52.4</b>	<b>65.2</b>	65.8	65.5	<b>61.1</b>
Sy Valda	29	2	57.5	14.8	53.0	61.5	68.4	65.0	<b>61.0</b>
MN Torgy	31	2	57.6	15.0	<b>52.3</b>	60.2	68.0	64.1	60.2
Enhance-SD	32	2	57.4	15.0	43.4	62.5	<b>72.8</b>	67.6	59.6
LCS Ascent	30	3	57.1	14.3	46.2	<b>64.3</b>	67.3	65.8	59.3
WB9590	28	2	56.0	16.1	48.0	60.2	68.2	64.2	58.8
LCS Boom	30	2	58.0	14.6	48.6	55.7	<b>69.9</b>	62.8	58.1
MN Rothsay	27	2	56.5	14.6	43.3	59.6	68.8	64.2	57.2
MS Cobra	29	2	56.4	14.8	41.6	<b>63.3</b>	65.6	64.4	56.8
CP3188	30	3	54.9	14.2	45.0	55.8	69.4	62.6	56.7
LCS Cannon	31	2	58.7	14.6	44.3	56.1	69.7	62.9	56.7
LCS Dual	30	2	56.5	14.5	<b>54.4</b>	48.3	66.5	57.4	56.4
Surpass	30	3	56.3	15.5	43.8	60.7	63.1	61.9	55.9
LCS Hammer AX	29	2	56.0	14.9	50.0	47.4	66.5	57.0	54.6
Driver	31	1	57.2	14.3	44.4	52.9	66.6	59.7	54.6
CP3055	31	1	52.4	13.7	-	<b>62.6</b>	60.2	61.4	-
MS Nova	30	2	57.0	15.3	-	59.4	67.8	63.6	-
ND Stampede	30	2	57.3	15.3	-	55.9	75.6	65.7	-
AP Dagr	29	2	55.6	14.1	-	-	68.2	-	-
AP Elevate	29	1	56.6	14.7	-	-	68.9	-	-
AP Iconic	31	2	56.9	14.8	-	-	<b>70.4</b>	-	-
CP3119A	31	1	51.4	13.6	-	-	55.4	-	-
CP3555	29	2	54.8	14.6	-	-	65.0	-	-
ND Horizon	30	2	56.4	15.2	-	-	<b>72.0</b>	-	-
ND Roughrider	31	2	56.9	14.7	-	-	<b>75.5</b>	-	-
<b>Trial Average#</b>	30.4	1.8	56.6	14.7	47.9	58.0	68.9	63.5	58.3
<b>LSD (0.05)†</b>	2.0	0.6	1.1	0.7	7.5	5.5	5.5	-	-
<b>C.V. %‡</b>	4.7		1.5	3.2	11.3	6.7	5.8	-	-

\* 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 ( $\geq$ 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.