



**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 - Agar

**David Karki** | SDSU Extension Agronomist  
**Karl Glover** | SDSU Spring Wheat Breeder  
**Shawn Hawk** | Agricultural Research Manager  
**Jesse Hall** | SDSU CPT Trial Manager

**Cooperator:** Cronin Farms

**Location:** 44.898211°, -100.087388°

**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: 35 Gallons 28% N

**Herbicide:**

- Burndown: 8oz Banvel, 24oz RT3
- Post: 0.3oz Affinity tank mix, 10.6oz Parity, 16oz Widematch

**Fungicide:** 1 oz Tebuconazole, 13.7oz Miravis Ace

**Date seeded:** 4/15/2025

**Date harvested:** 8/11/2025



**SOUTH DAKOTA STATE  
UNIVERSITY EXTENSION**

**2025 South Dakota  
Spring Wheat Variety Trial Results  
Agar**

Table 1. 2025 spring wheat variety performance trial results (average of 4 replications) at Agar, 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)
Ascend-SD	31	1	60.1	13.0	55.1	<b>57.9</b>	<b>45.5</b>	<b>51.7</b>	52.8
LCS Trigger	28	1	59.6	12.7	<b>62.1</b>	<b>55.4</b>	40.9	<b>48.2</b>	52.8
MN Torgy	27	1	59.6	13.9	<b>57.8</b>	<b>56.4</b>	<b>44.0</b>	<b>50.2</b>	52.7
LCS Buster	27	1	57.5	12.7	<b>61.7</b>	47.6	<b>43.6</b>	45.6	51.0
Brawn-SD	28	1	61.0	13.6	48.9	<b>54.3</b>	<b>47.0</b>	<b>50.6</b>	50.1
LCS Ascent	27	1	59.5	13.6	54.5	<b>53.2</b>	<b>41.7</b>	<b>47.4</b>	49.8
LCS Cannon	26	1	60.0	13.5	55.1	<b>53.0</b>	41.0	<b>47.0</b>	49.7
Sy Valda	26	1	58.9	13.7	<b>56.1</b>	<b>54.7</b>	37.9	46.3	49.6
LCS Boom	26	1	60.1	13.7	53.2	<b>56.0</b>	39.1	<b>47.6</b>	49.4
Driver	29	1	60.0	13.8	52.5	51.3	<b>41.7</b>	46.5	48.5
MS Charger	26	1	58.4	12.3	54.2	50.3	40.8	45.6	48.4
LCS Dual	27	1	59.6	13.3	<b>57.4</b>	47.4	39.5	43.4	48.1
Enhance-SD	28	1	59.4	13.6	51.2	50.9	38.1	44.5	46.7
MN Rothsay	26	1	57.7	14.5	<b>57.1</b>	46.8	34.2	40.5	46.0
Surpass	27	1	58.6	14.3	48.3	<b>52.7</b>	36.2	44.4	45.7
WB9590	24	1	58.7	14.2	51.3	42.4	40.0	41.2	44.6
MS Cobra	26	1	58.1	14.4	49.5	46.7	37.4	42.1	44.5
LCS Hammer AX	26	1	58.7	13.6	52.9	44.8	35.6	40.2	44.4
CP3188	26	1	57.0	12.5	50.1	43.1	39.2	41.1	44.1
CP3055	28	1	52.7	13.2	-	41.3	40.2	40.8	-
MS Nova	25	1	59.0	14.0	-	50.6	39.3	45.0	-
ND Stampede	27	1	58.1	14.0	-	49.2	40.6	44.9	-
AP Dagr	27	1	59.0	13.3	-	-	<b>45.1</b>	-	-
AP Elevate	27	1	57.8	14.5	-	-	39.6	-	-
AP Iconic	27	1	58.5	14.0	-	-	39.9	-	-
CP3119A	28	1	54.0	12.0	-	-	<b>44.3</b>	-	-
CP3555	27	1	57.1	13.9	-	-	37.8	-	-
ND Horizon	27	1	59.2	13.7	-	-	<b>43.1</b>	-	-
ND Roughrider	28	1	58.2	13.1	-	-	<b>42.4</b>	-	-
<b>Trial Average#</b>	27.3	1	58.9	13.6	52.9	48.4	40.8	44.6	47.4
<b>LSD (0.05)†</b>	2.1	-	1	1.1	7.1	4.4	4.4	-	-
<b>C.V. %‡</b>	5.4	-	1.2	5.6	10.2	6.5	12.8	-	-

\* 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.