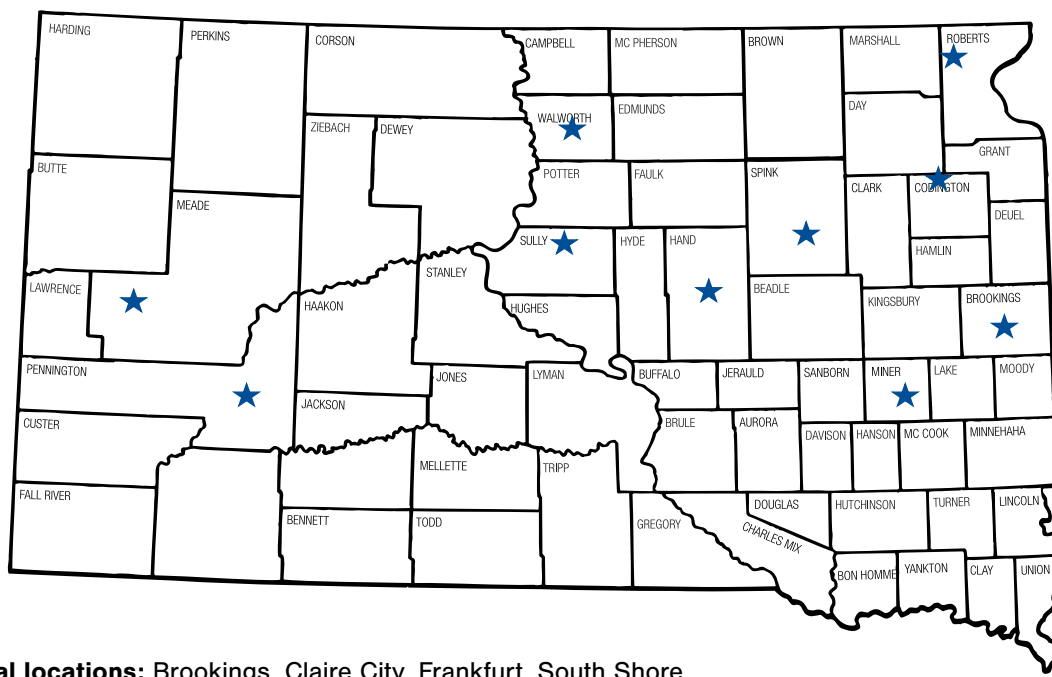


2025 South Dakota Spring Wheat Variety Trial Results - Regional Summaries

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Eastern trial locations: Brookings, Claire City, Frankfurt, South Shore

Central trial locations: Agar, Miller, Mina, Selby

Western trial locations: Sturgis, Wall (both abandoned)

Individual trial location results can be accessed online at: extension.sdstate.edu/spring-wheat-variety-trial-results

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S-0002-2025-02-SW-Regional-Summaries



**SOUTH DAKOTA STATE
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2025 South Dakota Spring Wheat Variety Trial Results Variety List

Table 1. List of spring wheat varieties tested in 2025 along with origin, agronomic, and grain quality characteristics.

Variety	Testing and Origin		Agronomic Characteristics			Grain Quality¶	
	Years tested in SD Trials	Origin† Year	Relative Heading‡ (days)	Height (in.)	Lodging Score§	Test Wt. (lb/bu)	Protein (%)
AP DAGR	new	AP-25	4	31	2	57.5	13.5
AP ELEVATE	new	AP-25	4	30	2	58.4	14.4
AP ICONIC	new	AP-25	3	33	2	57.3	14.2
ASCEND-SD	5+	SD-21	3	35	2	59.6	15.1
BRAWN-SD	5+	SD-22	2	32	2	59.5	14.5
CP3055	2	WF-24	9	33	1	54.3	13.8
CP3119A	new	WF-25	8	33	1	53.8	13.5
CP3188	4	WF-20	3	32	3	57.1	14.1
CP3555	new	WF-25	3	31	2	57.3	14.4
DRIVER	5+	SD-19	4	33	1	59.2	14.6
Enhance-SD	3+	SD-25	0	33	2	58.8	15.2
LCS ASCENT	4	LCS-21	0	31	2	59.1	14.3
LCS BOOM	4	LCS-23	0	30	2	60.0	14.9
LCS BUSTER	5+	LCS-20	5	33	2	57.5	13.3
LCS CANNON	5+	LCS-18	0	31	2	60.3	14.6
LCS DUAL	4	LCS-21	1	32	2	58.4	14.4
LCS Hammer AX	4	LCS-22	1	31	2	57.5	15.0
LCS TRIGGER	5+	LCS-15	7	32	2	59.6	13.1
MN-Rothsay	4	MN-21	5	29	2	57.8	14.7
MN-Torgy	3	MN-20	2	31	2	59.4	14.9
MS CHARGER	4	MS-22	1	31	2	57.7	13.4
MS COBRA	5	MS-22	2	30	2	58.3	14.9
MS NOVA	2	MS-24	1	30	2	58.6	14.9
ND Horizon	new	ND-25	3	31	2	58.4	14.8
ND Roughrider	new	ND-25	2	32	2	58.2	14.8
ND STAMPEDE	2	ND-24	0	32	2	58.5	15.3
SURPASS	5+	SD-15	0	31	2	57.8	15.4
SY VALDA	5+	AP-15	2	30	2	59.1	14.6
WB9590	5+	WB-17	0	29	2	58.0	15.5
Trial Average#	-	-	-	32	1.8	58.2	14.5

† AP, AgriPro; CAG, Champion Alliance Group; LCS, Limagrain Cereal Seeds; MN, Minnesota; MS, Meridian Seeds; ND, North Dakota; PFS, Peterson Farms Seed; SD, South Dakota; WI, Winfield; WB, WestBred; and - (Year of Release).
‡ Difference in days to heading compared to Surpass (eastern location average)
§ Lodging score: 1, perfectly standing; to 5, completely flat (2025 eastern and central locations).
¶ Test weight and protein are statewide averages.



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2025 South Dakota Spring Wheat Variety Trial Results Disease Rating

Table 2. Spring wheat variety disease ratings.

Variety	Disease Ratings†				
	2024 Stem Rust	2023 Leaf Rust	2025 Tan Spot	2023-2025 Bacterial Leaf Streak	2023-2025 Fusarium Head Blight
AP DAGR	-	-	4	-	-
AP ELEVATE	-	-	5	-	-
AP ICONIC	-	-	6	-	-
ASCEND-SD	MR	2	4	3	3
BRAUN-SD	MR	3	5	3	4
CP3055	-	-	5	-	-
CP3119A	-	-	5	-	-
CP3188	MS	4	9	5	6
CP3555	-	-	6	-	-
DRIVER	MR	2	7	3	4
ENHANCE-SD	-	-	6	4	4
LCS ASCENT	R	4	7	5	4
LCS BOOM	R	6	7	5	4
LCS BUSTER	R	7	5	5	5
LCS CANNON	R	5	8	5	5
LCS DUAL	R	3	7	4	6
LCS HAMMER AX	R	6	8	7	7
LCS TRIGGER	MR	2	2	2	3
MN-ROTHSAY	R	5	5	4	4
MN-TORGY	MR	3	4	3	3
MS CHARGER	R	5	6	5	5
MS COBRA	R	4	5	4	6
MS NOVA	-	-	5	4	5
ND Horizon	-	-	3	-	-
ND Roughrider	-	-	4	-	-
ND STAMPEDE	-	-	5	3	3
SURPASS	MR	4	3	4	4
SY VALDA	R	3	6	5	5
WB9590	MR	3	7	6	7

† Disease ratings: R, resistant; MR, moderately resistant; MS, moderately susceptible; S, susceptible; or 1, most resistant to 9, most susceptible. Note: SDSU does not perform nursery screenings for all listed pathogens in each growing season.

‡ A dash (-) signifies no rating provided/available.

§ Parenthesis denote estimated ratings/rankings (X) based on externally-provided information.



**SOUTH DAKOTA STATE
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2025 South Dakota Spring Wheat Variety Trial Results Eastern Summary

Table 3. 2025 spring wheat variety performance trial results for testing sites in eastern South Dakota. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	2023	2024	2025			2-year			3-year		
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %
LCS TRIGGER	58.1	59.8	65.4	59.0	13.1	62.6	59.4	13.1	61.4	58.0	13.4
ASCEND-SD	52.4	62.3	65.5	59.0	15.5	63.9	60.6	15.1	59.6	58.0	15.2
Enhance-SD	52.9	56.1	63.5	57.7	15.7	59.8	56.9	15.1	57.8	57.3	15.6
MN-Torgy	57.1	54.3	59.7	58.6	15.2	57.0	56.4	15.2	57.6	58.2	15.4
SY VALDA	56.3	56.5	59.0	58.6	14.9	57.8	57.6	14.9	57.5	57.7	14.9
LCS BUSTER	57.8	50.2	59.1	56.3	13.2	54.6	53.2	13.3	56.8	55.7	13.5
MS CHARGER	54.0	54.3	59.0	56.6	13.9	56.6	55.5	13.9	56.1	56.5	14.0
BRAWN-SD	54.5	58.6	55.6	58.2	14.8	57.1	58.4	14.5	55.9	58.4	14.5
LCS ASCENT	52.3	51.8	58.3	58.2	14.4	55.0	55.0	14.3	54.6	57.7	14.7
LCS BOOM	53.0	51	58.0	59.6	15.0	54.5	55.3	15.0	54.6	59.0	15.5
DRIVER	53.3	49.2	56.5	58.3	14.9	52.8	53.7	14.7	53.7	57.4	14.9
LCS CANNON	51.7	47.1	58.6	59.8	14.9	52.8	53.5	15.0	53.5	59.0	15.3
MN-Rothsay	51.7	48.6	57.7	56.5	14.8	53.2	52.6	14.5	53.5	56.5	14.9
SURPASS	49.0	53.9	54.3	56.7	15.6	54.1	55.3	14.9	52.2	57.0	15.7
MS COBRA	50.0	50.3	54.3	57.3	15.1	52.3	53.8	14.9	51.8	56.5	15.4
WB9590	49.0	48.3	56.0	56.6	16.0	52.2	52.4	15.3	51.7	56.1	16.1
CP3188	49.4	49.8	52.9	55.7	14.4	51.3	52.7	14.0	50.9	55.3	14.2
LCS DUAL	55.0	39.8	51.9	57.2	14.8	45.8	48.5	14.6	50.7	56.4	14.8
LCS Hammer AX	51.1	38.9	53.4	55.3	15.5	46.2	47.1	14.9	49.6	54.9	15.2
CP3055	-	46.4	51.0	53.1	14.3	48.7	49.8	14.0	-	-	-
MS NOVA	-	48.2	54.3	57.4	15.2	51.2	52.8	15.0	-	-	-
ND STAMPEDE	-	-	50.0	50.8	14.0	56.0	54.5	15.0	-	-	-
AP DAGR	-	-	53.0	55.7	13.8	-	-	-	-	-	-
AP ELEVATE	-	-	54.7	52.0	14.7	-	-	-	-	-	-
AP ICONIC	-	-	55.6	55.2	14.1	-	-	-	-	-	-
CP3119A	-	-	46.9	52.9	14.5	-	-	-	-	-	-
CP3555	-	-	56.3	56.1	14.6	-	-	-	-	-	-
ND Horizon	-	-	63.7	57.4	15.1	-	-	-	-	-	-
ND Roughrider	-	-	62.1	57.2	15.4	-	-	-	-	-	-
Trial Average#	52.3	49.7	58.3	57.5	14.9	55.5	55.5	14.8	54.3	56.9	15.0
LSD (0.05)†	3	3.9	7.2	2.0	0.6	8.2	2.5	0.8	7.1	1.9	0.7
C.V. %‡	8.4	7.9	6.2	2.0	3.1	6.5	2.1	2.9	7.3	1.8	3.0

Trial averages may include values from experimental lines that are not reported.

† 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.



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2025 South Dakota Spring Wheat Variety Trial Results Central Summary

Table 4. 2025 spring wheat variety performance trial results for testing sites in central South Dakota. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	2023	2024	2025			2-year			3-year		
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %
LCS TRIGGER	73.7	55.4	69.6	60.2	13.1	62.5	58.1	13.1	66.2	58.7	13.0
BRAWN-SD	67.6	58.5	67.3	60.8	14.1	62.9	59.0	14.1	64.5	59.4	14.1
SY VALDA	69.2	58.2	64.4	59.6	14.3	61.3	58.0	14.3	64.0	58.2	14.4
MN-Torgy	70.8	56.3	64.5	60.2	14.6	60.4	58.6	14.8	63.9	58.8	14.7
ASCEND-SD	67.5	58.9	65.3	60.2	14.8	62.1	58.8	14.8	63.9	58.9	14.9
MS CHARGER	66.7	56.1	65.8	58.7	12.9	61.0	57.0	13.0	62.9	57.5	13.2
DRIVER	69.1	54.1	65.2	60.0	14.3	59.7	58.0	14.4	62.8	58.4	14.5
LCS BUSTER	72.4	49.0	66.8	58.8	13.4	57.9	56.1	13.5	62.7	56.5	13.3
Enhance-SD	64.9	54.4	66.3	59.9	14.8	60.3	58.0	14.9	61.8	58.2	15.1
LCS ASCENT	64.8	51.6	66.6	60.1	14.1	59.1	58.0	14.2	61.0	58.3	14.4
CP3188	67.3	49.7	64.1	58.5	13.9	56.9	55.8	13.8	60.4	56.4	13.7
MN-Rothsay	68.2	50.3	60.9	59.1	14.6	55.6	57.2	14.8	59.8	57.8	14.8
LCS CANNON	62.7	49.8	66.2	60.8	14.3	58.0	58.9	14.7	59.6	59.3	14.9
LCS DUAL	65.6	48.8	64.2	59.6	13.9	56.5	57.3	14.2	59.4	57.9	14.3
LCS BOOM	60.5	52.9	62.8	60.5	14.7	57.9	59.2	14.9	58.7	59.4	15.1
MS COBRA	64.5	50.0	60.8	59.3	14.6	55.4	57.1	14.8	58.5	57.6	14.8
LCS Hammer AX	64.8	45.8	64.6	59.6	14.4	55.2	56.3	14.6	58.4	56.9	14.7
WB9590	61.0	47.4	65.2	59.4	15.0	56.3	56.8	15.3	57.8	57.2	15.7
SURPASS	60.0	56.1	56.0	58.8	15.1	56.1	57.4	15.0	57.4	57.7	15.2
CP3055	-	43.4	64.1	55.4	13.3	53.8	52.4	13.8	56.5	52.9	13.8
MS NOVA	-	50.6	62.5	59.7	14.7	56.6	58.0	14.9	59.3	58.4	15.0
ND STAMPEDE	-	54.2	69.6	59.2	14.8	61.9	57.3	14.7	57.8	14.6	63.7
AP Dagr	-	-	68.4	59.3	13.9	-	-	-	-	-	-
AP Elevate	-	-	66.7	59.5	14.3	-	-	-	-	-	-
AP Iconic	-	-	68.3	59.7	14.2	-	-	-	-	-	-
CP3119A	-	-	62.6	54.7	12.8	-	-	-	-	-	-
CP3555	-	-	58.4	14.2	62.7	-	-	-	-	-	-
ND Horizon	-	-	59.4	14.5	67.6	-	-	-	-	-	-
ND Roughrider	-	-	59.1	14.1	70.7	-	-	-	-	-	-
Trial Average#	65.3	50.1	64.7	59.6	14.4	60.2	57.0	14.7	60.1	57.7	14.6
LSD (0.05)†	3.0	2.9	5.7	0.9	0.6	6.1	1.2	0.6	5.7	1.1	0.6
C.V. %‡	6.6	8.3	7.4	1.2	4.4	7.6	1.5	3.3	7.4	1.3	4.1

Trial averages may include values from experimental lines that are not reported.

† 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.



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2025 South Dakota Spring Wheat Variety Trial Results Western Summary

Table 5. 2025 spring wheat variety performance trial results for testing sites in western South Dakota. Varieties yielding in the top 1/3 of the trial are bold and shaded light blue.

Variety	2023	2024	2025			2-year			3-year		
	Yield (bu/a)	Yield (bu/a)	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %	Yield (bu/a)	Test Wt (lbs)	Protein %
LCS BOOM	65.4	39.0	data	not	available	52.2	58.6	15.6	date	not	available
BRAWN-SD	61.3	39.5	-	-	-	50.4	58.2	15.6	-	-	-
MS CHARGER	64.6	36.1	-	-	-	50.4	57.1	15.0	-	-	-
ASCEND-SD	61.6	38.9	-	-	-	50.2	57.4	15.9	-	-	-
MN-TORGY	64.3	35.4	-	-	-	49.9	56.6	15.7	-	-	-
MS COBRA	62.3	36.2	-	-	-	49.3	57.2	16.0	-	-	-
LCS BUSTER	65.0	33.4	-	-	-	49.2	53.5	14.9	-	-	-
MN-ROTHSAY	64.8	33.1	-	-	-	48.9	56.7	15.6	-	-	-
SY VALDA	60.5	37.3	-	-	-	48.9	56.5	15.8	-	-	-
WB9590	58.2	36.6	-	-	-	47.4	57.1	15.7	-	-	-
LCS ASCENT	57.0	37.3	-	-	-	47.2	57.7	15.3	-	-	-
CP3188	53.9	39.8	-	-	-	46.9	55.2	15.1	-	-	-
DRIVER	58.9	34.6	-	-	-	46.8	56.2	15.3	-	-	-
SURPASS	57.3	36.0	-	-	-	46.6	56.6	15.9	-	-	-
LCS CANNON	56.6	36.6	-	-	-	46.6	58.4	15.6	-	-	-
LCS TRIGGER	61.2	31.9	-	-	-	46.5	55.3	15.3	-	-	-
LCS HAMMER AX	54.4	37.4	-	-	-	45.9	56.1	15.3	-	-	-
LCS DUAL	50.5	33.6	-	-	-	42.0	56.7	15.2	-	-	-
CP3055	-	33.7	-	-	-	-	-	-	-	-	-
MS NOVA	-	36.4	-	-	-	-	-	-	-	-	-
ND STAMPEDE	-	40.4	-	-	-	-	-	-	-	-	-
Trial Average#	57.1	35.9	-	-	-	46.8	56.4	15.7	-	-	-
LSD (0.05)†	5.3	2.8	-	-	-	2.9	0.8	0.5	-	-	-
C.V. %‡	9.6	8.0	-	-	-	8.9	-	-	-	-	-

Trial averages may include values from experimental lines that are not reported.

† 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.

§ Due to weather conditions western locations were abandoned in 2025; 2-year data presented here is the average of years 2023 and 2024.