

2026 South Dakota Winter Wheat Variety Trial Results - Brookings

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Location: 44.355744°, -96.815768°

Soil type: Barnes clay loams, 2-6% slopes

Previous crop: Oats

Tillage: No-till

Row spacing: 8"

Seeding rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 90 lbs/acre 30-10-10
- Other: 115 lbs/acre of N as UAN in spring applied as liquid broadcast

Herbicide:

- Burndown: N/A
- Post: 1 pt Perfectmatch + 2 pt Prowl h2o

Fungicide: 8 oz/acre Prosaro at flowering (Feekes 10.5.1)

Date seeded: 9/23/2025

Date harvested: 7/20/2026

Notes:

- This trial location is set up with a split-plot design. All varieties are tested without (Table 1) and with (Table 2) fungicide.



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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2026 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 %	2024 (bu/a)	2025 (bu/a)	2026 (bu/a)	2-year (bu/a)	3-year (bu/a)
SD MIDLAND	27.0	0	61.2	11.8	86.8	62.9	82.9	72.9	77.5
WINNER	28.0	0	60.7	11.8	89.8	71.0	71.5	71.3	77.5
SD ANDES	29.5	0	61.7	12.6	89.1	57.2	78.2	67.7	74.8
LCS WARBIRD AX	26.3	0	60.9	11.9	90.7	51.4	75.2	63.3	72.4
SD VIVIAN	24.8	0	61.7	12.9	76.2	66.9	71.7	69.3	71.6
DRAPER	26.3	0	60.7	13.0	85.9	58.1	69.4	63.8	71.2
AP 24AX	25.3	0	60.7	11.9	87.8	50.9	62.6	56.7	67.1
CP7869	26.0	0	60.0	12.6	86.9	47.2	62.8	55.0	65.6
LCS HELIX AX	26.8	0	61.7	12.4	73.8	52.8	69.0	60.9	65.2
SD PHEASANT	28.3	0	61.4	12.6	53.8	61.4	79.2	70.3	64.8
AP CLAIR	29.0	0	60.9	13.5	69.5	57.9	64.5	61.2	64.0
WB4422	28.0	0	60.9	12.0	62.6	60.6	68.1	64.3	63.8
CP7909	28.0	0	60.3	11.5	61.3	49.7	74.6	62.2	61.9
CP7017AX	27.0	0	60.4	12.7	67.6	56.8	59.6	58.2	61.3
EXPEDITION	28.0	0	60.8	13.4	52.9	53.3	60.2	56.8	55.5
AP SUNBIRD	27.3	0	61.5	12.1	-	59.1	71.5	65.3	-
CP7462	24.5	0	60.1	13.2	-	51.9	57.1	54.5	-
LCS RADAR	25.3	0	60.8	12.9	-	58.4	64.8	61.6	-
WB4540	26.5	0	59.3	12.0	-	61.3	69.5	65.4	-
AP TANGO	27.5	0	60.4	11.5	-	-	73.0	-	-
CP7599CLP	28.3	0	61.8	12.6	-	-	71.7	-	-
LCS ATOMIC AX	27.5	0	60.6	12.8	-	-	70.0	-	-
NE DAYBREAK	26.0	0	60.4	12.7	-	-	71.8	-	-
NE DUNBAR CLP	28.3	0	59.8	11.3	-	-	67.0	-	-
NE FENSTER	25.5	0	59.4	12.0	-	-	69.9	-	-
WB4459AX	28.0	0	60.7	11.8	-	-	72.0	-	-
Trial Average#	27.3	-	60.7	12.4	71.0	57.7	69.7	63.7	66.1
LSD (0.05)†	3.6	-	1.1	1.9	5.6	5.2	24.0	-	-
C.V. %‡	9.5	-	1.3	11	5.7	6.4	24.6	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.

Corrected to 13% moisture. Note: 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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Table 2. 2026 winter wheat variety performance trial results with fungicide (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 %	2024 (bu/a)	2025 (bu/a)	2026 (bu/a)	2-year (bu/a)	3-year (bu/a)
SD MIDLAND	28.3	0	61.4	13.2	96.1	74.6	77.5	76.0	82.7
WINNER	26.3	0	61.8	12.9	93.3	80.1	74.4	77.2	82.6
DRAPER	27.0	0	61.5	13.2	93.1	72.9	73.1	73.0	79.7
SD ANDES	28.0	0	62.2	13.0	91.9	65.8	75.1	70.5	77.6
AP 24AX	26.0	0	61.3	13.1	92.7	67.7	70.5	69.1	77.0
SD VIVIAN	27.8	0	61.6	13.0	85	76.3	67.0	71.6	76.1
WB4422	26.8	0	62.1	13.4	76.5	72.0	74.1	73.1	74.2
LCS WARBLER AX	25.8	0	61.6	13.3	92.7	60.1	62.7	61.4	71.8
CP7017AX	24.8	0	61.7	13.3	78.7	63.9	72.9	68.4	71.8
SD PHEASANT	31.3	0	61.8	13.0	70.7	69.3	75.0	72.2	71.7
AP CLAIR	24.5	0	61.6	13.1	76.6	65.4	69.7	67.5	70.6
LCS HELIX AX	26.8	0	62.3	13.1	85.0	61.0	62.5	61.8	69.5
CP7869	25.8	0	60.9	13.2	89.9	54.3	59.0	56.6	67.7
CP7909	25.5	0	61.0	13.2	73.6	57.8	71.2	64.5	67.5
EXPEDITION	27.8	0	61.3	13.2	63.8	62.4	59.7	61.1	62.0
AP SUNBIRD	25.8	0	61.8	13.4	-	64.6	69.9	67.3	-
CP7462	22.3	0	59.5	13.1	-	61.0	63.4	62.2	-
WB4540	27.8	0	60.4	13.4	-	73.0	70.2	71.6	-
AP TANGO	27.3	0	62.0	13.1	-	-	78.8	-	-
CP7599CLP	26.0	0	62.3	13.1	-	-	71.7	-	-
LCS ATOMIC AX	26.5	0	60.9	12.9	-	-	63.0	-	-
LCS RADAR	24.8	0	61.0	13.3	-	-	60.9	-	-
NE DAYBREAK	26.8	0	61.4	13.1	-	-	80.3	-	-
NE DUNBAR CLP	28.0	0	61.6	13.1	-	-	83.2	-	-
NE FENSTER	31.8	0	60.7	13.3	-	-	75.3	-	-
WB4459AX	29.3	0	60.9	13.4	-	-	68.2	-	-
Trial Average#	27.3	-	61.4	13.2	79.8	67.4	71.1	69.3	72.8
LSD (0.05)†	2.8	-	1	0.4	-	7.0	14.5	-	-
C.V. %‡	7.2	-	1.2	2.2	-	7.4	14.6	-	-

* Lodging score: 1, perfectly standing; to 5, completely flat.

Corrected to 13% moisture. Note: 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.

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