



**SOUTH DAKOTA
STATE UNIVERSITY**

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

2026 South Dakota Winter Wheat Variety Trial Results - Vivian

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Cooperator: Ryan Larson, c/o Logan Reuman

Location: 44.019864, -100.285804

Soil type: Millboro silty clay, 3-6% 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: 124-0-0-9s

Herbicide:

- Burndown: Not reported
- Post: 6oz Barrage Evo, 16oz Widematch

Fungicide: None

Date seeded: 9/29/2025

Date harvested: 7/27/2026



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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2026 at Vivian, 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)
CP7017AX	24.3	1.5	60.4	12.1	84.7	74.9	81.4	78.2	80.3
SD PHEASANT	31.3	2.0	60.3	12.6	83.9	64.6	91.1	77.8	79.8
AP 24AX	28.3	1.5	58.3	11.7	89.8	66.0	81.8	73.9	79.2
SD VIVIAN	29.5	1.3	59.9	12.8	84.4	68.6	82.8	75.7	78.6
LCS WARBIRD AX	25.5	1.8	60.0	13.1	82.1	61.8	84.1	73.0	76.0
DRAPER	27.3	1.0	60.1	12.9	82.3	59.1	84.9	72.0	75.4
SD MIDLAND	31.0	1.0	59.5	12.5	77.2	63.2	83.2	73.2	74.5
CP7909	25.8	1.3	59.8	11.9	82.0	59.8	81.4	70.6	74.4
AP CLAIR	26.5	1.0	60.1	12.7	80.7	60.1	81.4	70.7	74.1
WINNER	28.5	1.0	59.2	13.3	81.3	58.4	80.4	69.4	73.4
SD ANDES	27.5	1.0	60.6	12.6	79.4	57.2	83.4	70.3	73.3
WB4422	26.5	1.0	61.3	13.2	80.1	51.4	87.9	69.7	73.1
LCS HELIX AX	24.3	1.8	60.7	12.8	73.9	54.6	79.5	67.1	69.4
CP7869	27.0	1.3	59.2	13.3	76.5	52.0	73.0	62.5	67.2
EXPEDITION	28.3	1.5	60.0	14.0	79.3	44.1	70.6	57.3	64.7
AP SUNBIRD	26.0	2.0	61.0	12.2	-	73.7	81.2	77.5	-
CP7462	24.8	1.0	58.3	13.9	-	64.8	66.3	65.5	-
LCS RADAR	25.0	1.5	60.7	12.8	-	54.4	78.5	66.4	-
AP TANGO	22.5	1.0	60.5	11.7	-	-	88.1	-	-
CP7599CLP	24.8	1.3	60.9	13.7	-	-	83.0	-	-
LCS ATOMIC AX	24.5	2.0	60.6	12.9	-	-	83.1	-	-
NE DAYBREAK	29.5	1.0	59.7	12.7	-	-	84.3	-	-
NE DUNBAR CLP	26.0	1.0	58.7	12.8	-	-	78.5	-	-
NE FENSTER	31.5	1.0	58.1	13.0	-	-	80.8	-	-
WB4459AX	29.0	1.8	59.4	11.7	-	-	85.0	-	-
WB4540	29.3	1.0	58.1	12.9	-	-	77.6	-	-
Trial Average#	27.6	1.2	59.7	12.7	78.9	60.0	82.9	71.5	73.9
LSD (0.05)†	2.3	-	0.9	0.5	6.7	4.8	6.5	-	-
C.V. %‡	6.0	-	1.1	2.9	6.1	5.7	5.6	-	-

* 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.