



**SOUTH DAKOTA
STATE UNIVERSITY**

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

2025 South Dakota Winter Wheat Variety Trial Results - Vivian

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Location: 43.978203, -100.202891

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: 120 lb/acre of N as urea

Herbicide:

- Burndown: 6oz Pixarro, 32oz Glyphosate
- Post: .9 gallons 25-0-0-0.5B, 16oz Fulldeck, 3.4oz Approach Power

Fungicide: None

Date seeded: 10/2/2024

Date harvested: 7/28/2025



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Vivian**

Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2025 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 %	2023 (bu/a)	2024 (bu/a)	2025 (bu/a)	2-year (bu/a)	3-year (bu/a)
CP7017AX	30	1	56.4	11.8	59.2	84.7	74.9	79.8	74.6
LCSWarbirdAX	32	1	55.2	13.1	-	82.1	61.8	72.0	72.0
SDPheasant	34	1	54.2	13.3	64.2	83.9	64.6	74.2	71.7
Ideal	36	1	54.1	14.0	62.9	82.4	58.4	70.4	68.5
SDAndes	32	1	54.2	13.6	66.7	79.4	57.2	68.3	67.9
SDMidland	33	1	54.6	13.0	60.1	77.2	63.2	70.2	67.6
Draper	32	1	52.7	13.4	58.2	82.3	59.1	70.7	67.6
APClair	30	1	54.4	13.1	58.6	80.7	60.1	70.4	67.4
APBigfoot	29	1	54.8	12.3	51.7	77.0	68.3	72.6	67.4
KivariAX	32	1	52.5	12.3	56.1	85.5	55.1	70.3	66.7
CP7909	31	1	55.3	13.1	53.4	82.0	59.8	70.9	66.5
Winner	33	1	53.9	13.5	56.5	81.3	58.4	69.9	66.5
WB4422	31	1	52.0	13.9	60.5	80.1	51.4	65.8	64.4
CP7869	30	1	54.5	13.9	60.5	76.5	52.0	64.3	63.3
LCSHelixAX	30	1	55.8	13.0	53.8	73.9	54.6	64.3	61.6
MSMaverick	32	1	52.7	14.2	54.2	80.9	46.4	63.6	61.3
CrescentAX	31	1	50.9	13.2	49.7	78.0	49.9	63.9	60.4
Expedition	32	1	53.8	13.8	52.3	79.3	44.1	61.7	59.4
CP7266AX	30	1	51.7	13.5	49.7	75.4	39.1	57.3	55.4
AP24AX	31	1	52.8	12.5	-	89.8	66.0	77.9	-
LCSJulep	32	1	57.8	13.9	-	81.5	58.1	69.8	-
AACVortex	35	1	50.8	15.1	-	-	44.2	-	-
APSunbird	29	1	55.0	12.2	-	-	73.7	-	-
CO19D087R	27	1	51.8	11.9	-	-	63.5	-	-
CP7050AX	31	1	56.7	13.0	-	-	62.6	-	-
CP7319AX	29	1	55.4	13.3	-	-	60.0	-	-
CP7462	30	1	53.6	13.2	-	-	64.8	-	-
LCSAries	31	1	56.7	12.2	-	-	68.2	-	-
LCSMojo	30	1	53.6	12.8	-	-	58.1	-	-
LCSRadar	31	1	53.6	13.4	-	-	54.4	-	-
LCSSteelAX	32	1	50.7	13.3	-	-	46.7	-	-
WB4540	32	1	50.4	13.4	-	-	53.3	-	-
Trial Average#	31	1	54.1	13.1	57.5	57.5	60	69.0	65.8
LSD (0.05)†	2.1	-	1.5	0.6	-	-	4.8	-	-
C.V. %‡	4.6	-	2	3.1	-	-	5.7	-	-

* 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.