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 - Sturgis

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Cooperator: SDSU Sturgis Research Farm, Christopher Graham, manager
Location: 44.424167°, -103.376111°
Soil type: Nunn clay loam, 0-2% slopes
Previous crop: Camelina
Tillage: No-till
Row spacing: 10”
Seeding rate: 1.2 million PLS/acre
Fertilizer:
- Starter: 10 lbs/acre 10-25-0
- Other: 120 lbs of N/acre as UAN

Herbicide:
- Burndown: 16 oz/A Perfect Match + 32 oz/acre Roundup + 4 oz/A Banvel
- Post: None

Fungicide: None
Date seeded: 9/18/2024
Date harvested: 7/28/2025

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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2025 at Sturgis, 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)
Winner	28	not	61.6	12.8	**81.5**	**66.7**	**70.7**	**68.7**	**73.0**
SD Midland	-	reported	61.6	12.3	**80.6**	65.0	68.3	66.6	**71.3**
SD Pheasant	31	-	61.4	12.9	**77.8**	65.6	**70.2**	**67.9**	**71.2**
SD Andes	29	-	62.7	12.2	**84.2**	65.2	61.5	63.3	**70.3**
CP7266AX	33	-	59.8	12.8	72.2	**69.9**	67.1	**68.5**	**69.7**
Draper	31	-	60.3	12.7	**74.9**	**66.6**	65.3	66.0	68.9
Ideal	35	-	61.3	12.7	70.9	63.5	67.7	65.6	67.4
MS Maverick	30	-	60.9	13.2	71.9	65.9	61.9	63.9	66.6
Kivari AX	30	-	58.9	12.2	74.5	63.9	59.8	61.9	66.1
CP7017AX	32	-	59.9	12.7	62.1	**67.8**	**66.1**	**67.0**	65.3
AP Bigfoot	31	-	61.2	13.1	55.8	63.9	**69.3**	66.6	63.0
CP7909	31	-	58.3	12.3	51.2	66.1	63.8	64.9	60.3
Expedition	30	-	59.8	13.3	60.4	60.5	57.1	58.8	59.3
LCS Helix AX	33	-	61.2	12.0	62.9	58.0	57.1	57.5	59.3
Crescent AX	32	-	60.5	12.2	54.1	55.5	64.5	60.0	58.0
AP Clair	29	-	60.3	13.1	43.8	62.3	63.7	63.0	56.6
AP 24AX	30	-	59.6	12.4	-	**71.3**	**76.9**	**74.1**	-
LCS Warbird AX	28	-	61.1	12.8	-	**66.5**	**71.1**	**68.8**	-
LCS Julep	30	-	62.5	13.2	-	57.0	**68.5**	62.8	-
AACVortex	-	-	61.8	14.7	-	-	48.7	-	-
APSunbird	29	-	62.3	13.0	-	-	62.4	-	-
CO19D087R	30	-	58.3	12.2	-	-	64.2	-	-
CP7050AX	31	-	62.4	13.3	-	-	61.4	-	-
CP7319AX	31	-	62.1	12.5	-	-	68.1	-	-
CP7462	28	-	58.7	13.2	-	-	63.6	-	-
LCSAries	31	-	60.0	12.2	-	-	58.9	-	-
LCSMojo	32	-	61.0	12.3	-	-	**72.6**	-	-
LCSRadar	27	-	60.0	13.7	-	-	65.4	-	-
LCSSteelAX	35	-	59.8	12.7	-	-	61.6	-	-
WB4540	31	-	58.9	13.6	-	-	68.1	-	-
Trial Average#	31	-	60.6	12.8	66.8	62.4	66.2	64.3	65.1
LSD (0.05)†	-	-	1.2	0.9	8.1	7.6	7.8	-	-
C.V. %‡	-	-	1.5	4.9	8.6	8.8	9.6	-	-

* 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 (≥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.
§ Height is measured on first replication