



**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 - Selby

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Location: 45.4558474°, -100.0590146°

Soil type: Highmore silt loam, cool, 2-6% slopes

Previous crop: Flax

Tillage: No-till

Row spacing: 7.5"

Seeding rate: 1.2 million PLS/acre

Fertilizer:

- Starter: 10 lbs/acre 10-34-0
- Other: 250 lb/acre urea + 50 lb/acre AMS broadcast

Herbicide:

- Burndown: Not reported
- Post: 24 oz/acre Hat Trick

Fungicide: 1.5 oz/acre tombstone

Date seeded: 9/18/2024

Date harvested: 8/4/2025



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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2025 at Selby, 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)
AP 24AX	31	1.0	59.4	15.3	-	119.6	86.8	103.2	-
Kivari AX	30	1.0	59.6	15.1	-	108.1	88.1	98.1	-
Winner	29	1.0	61.0	15.7	-	109.7	86.3	98.0	-
Ideal	32	1.0	61.2	15.2	-	112.0	83.7	97.8	-
SD Pheasant	33	1.0	61.7	15.0	-	108.5	87.0	97.7	-
CP7017AX	30	1.0	61.3	14.7	-	117.9	77.3	97.6	-
WB4422	30	1.0	62.0	15.5	-	113.3	81.5	97.4	-
Crescent AX	31	1.0	61.3	15.4	-	111.9	82.3	97.1	-
SD Midland	34	1.0	61.2	15.7	-	110.1	82.6	96.3	-
MS Maverick	30	1.0	62.1	15.5	-	110.0	80.0	95.0	-
LCS Julep	30	1.0	62.7	16.3	-	110.7	79.2	94.9	-
SD Andes	32	1.0	62.9	14.9	-	109.5	79.7	94.6	-
LCS Helix AX	28	1.0	62.1	15.5	-	108.7	79.0	93.8	-
CP7266AX	30	1.0	60.1	16.4	-	113.1	74.1	93.6	-
AP Clair	28	1.0	60.7	16.9	-	108.6	78.2	93.4	-
LCS Warbird AX	27	1.0	61.4	16.1	-	109.0	76.6	92.8	-
Draper	30	1.0	60.3	15.4	-	107.1	76.7	91.9	-
CP7909	27	1.0	59.9	16.1	-	111.9	70.3	91.1	-
AP Bigfoot	28	1.0	60.4	15.5	-	108.9	73.1	91.0	-
Expedition	31	1.0	61.4	16.8	-	105.3	71.0	88.2	-
AACVortex	32	1.0	59.3	16.9	-	-	68.9	-	-
APSunbird	27	1.0	61.9	16.4	-	-	85.7	-	-
CO19D087R	27	1.0	58.7	15.1	-	-	83.1	-	-
CP7050AX	28	1.0	61.8	17.0	-	-	67.1	-	-
CP7319AX	26	1.0	62.1	15.7	-	-	72.3	-	-
CP7462	25	1.0	59.8	16.2	-	-	63.0	-	-
LCSAries	27	1.0	62.2	15.0	-	-	78.3	-	-
LCSMojo	31	1.0	60.2	15.5	-	-	82.3	-	-
LCSRadars	29	1.0	60.5	16.3	-	-	80.7	-	-
LCSSteelAX	32	1.0	59.8	15.5	-	-	78.0	-	-
WB4540	30	1.0	58.7	16.3	-	-	66.1	-	-
Trial Average#	30.0	1.0	61.0	15.8	-	110.4	79.3	94.9	-
LSD (0.05)†	2.2	-	1.2	1.1	-	7.2	10.1	-	-
C.V. %‡	4.6	-	1.2	4.6	-	4.7	8.0	-	-

* 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.