



**SOUTH DAKOTA
STATE UNIVERSITY**
College of Agriculture, Food
and Environmental Sciences

South Dakota State University Extension
South Dakota Agricultural Experiment Station at SDSU

2024 South Dakota Winter Wheat Variety Trial Results Wall

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Location: 44.062778°, -102.128056°

Soil Type: Savo silt loam, 0-2% slopes

Previous crop: fallow

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: 32 oz/acre Roundup RT3
- Post: 16 oz/acre Perfectmatch

Fungicide:

Date seeded: 9/28/2023

Date harvested: 7/29/2024

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Table 1. Performance trial results for winter wheat varieties (average of 3 replications) conducted in 2024 at Wall, 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 (inches)	Lodging* (1-5)	Test Wt (lbs)	Protein %	2022 (bu/a)#	2023 (bu/a)	2024 (bu/a)	2-year (bu/a)	3-year (bu/a)
Kivari AX	not reported	not reported	57.4	10.5	72.2	70.9	95.4	82.3	77.5
SD Andes	reported	reported	58.7	11.7	68.2	85.0	79.1	83.4	76.7
CP7017AX	-	-	59.2	11.2	66.6	68.2	98.5	82.1	75.3
Ideal	-	-	57.2	10.7	68.8	65.3	98.7	80.5	75.1
Byrd CL Plus	-	-	57.9	11.1	67.3	69.9	91.9	80.3	74.4
MS Maverick	-	-	58.6	11.7	63.6	68.0	99.2	82.3	74.4
CP7909	-	-	59.2	11.2	66.2	68.9	94.1	80.7	74.3
WB4422	-	-	58.7	11.6	67.1	70.9	89.8	80.0	74.1
SD Pheasant	-	-	56.9	11.5	65.6	81.4	74.1	79.2	73.2
Winner	-	-	56.7	11.5	70.1	67.2	86.2	76.3	72.9
CP7869	-	-	57.5	11.2	59.7	70.4	92.8	81.0	72.1
SY Wolverine	-	-	57.4	11.0	69.8	63.9	87.3	74.9	71.9
Draper	-	-	56.4	12.0	64.4	69.0	85.6	77.0	71.3
WB4510CLP	-	-	59.1	11.2	58.7	77.2	81.4	80.0	71.1
AP Bigfoot	-	-	59.1	11.3	60.8	69.2	89.2	78.7	71.0
LCS Helix AX	-	-	59.1	11.8	56.0	72.9	88.8	80.6	70.6
SD Midland	-	-	56.0	11.8	62.6	64.6	85.8	74.6	69.1
Crescent AX	-	-	59.0	11.3	56.4	58.3	97.6	76.1	67.8
WB4309	-	-	56.5	12.8	60.4	69.2	72.4	71.5	66.3
LCS Chrome	-	-	57.1	12.7	55.9	64.7	75.0	70.1	63.8
AP Clair	-	-	57.9	11.8	63.7	49.9	83.2	65.1	63.5
CP7266AX	-	-	57.4	11.9	59.3	49.4	87.8	66.8	63.0
Expedition	-	-	58.1	11.8	54.9	51.7	74.6	62.4	58.6
MS Sundown	-	-	57.9	11.7	-	56.5	95.1	74.0	-
SY Wolf	-	-	54.1	13.2	-	53.8	54.3	55.0	-
AP 24AX	-	-	56.8	10.6	-	-	92.5	-	-
LCS Warbird AX	-	-	58.4	11.9	-	-	89.4	-	-
21Nord-160	-	-	55.5	11.4	-	-	84.8	-	-
CO18042RA	-	-	57.3	11.3	-	-	83.3	-	-
LCS Julep	-	-	58.3	11.9	56.2	-	81.9	-	-
LCS Missile	-	-	55.4	13.0	-	-	57.8	-	-
LCS Jet	-	-	35.8	13.4	-	-	49.9	-	-
Trial Average#	-	-	57.1	11.6	63.1	67.3	85.4	76.7	70.8
LSD (0.05) †	-	-	8.0	0.6	9.6	9.2	16.9	-	-
C.V. %‡	-	-	8.6	3.4	10.9	9.8	12.2	-	-

* 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.