



**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 Hayes

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**Cooperator:** Terry Hand

**Location:** 44.3893919°, -101.0334535°

**Soil Type:** Promise clay, 0-3% slopes

**Previous crop:** spring wheat

**Tillage:** no-till

**Row spacing:** 7.5"

**Seeding Rate:** 1.2 million PLS/acre

**Fertilizer:**

- Starter: 10 lbs/acre 10-34-0

- Other: 80 lbs of N/acre as Urea broadcast in fall and 52 lbs of N/acre as UAN in spring

**Herbicide:**

- Burndown: not reported

- Post: 1.5 pt/acre Perfect Match, 1.5 pt/acre Class Act (Non ionic surfactant)

**Fungicide:** None

**Date seeded:** 9/18/2023

**Date harvested:** 7/24/2024

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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2024 at Hayes, 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 (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)
Winner	not reported	not reported	62.7	11.4	<b>40.4</b>	<b>70.8</b>	<b>73.7</b>	<b>72.3</b>	<b>61.7</b>
Draper	reported	reported	61.5	11.3	<b>40.9</b>	<b>69.2</b>	<b>73.4</b>	<b>71.3</b>	<b>61.2</b>
SD Midland	-	-	63.1	11.1	<b>35.8</b>	<b>73.0</b>	<b>73.7</b>	<b>73.4</b>	<b>60.9</b>
SD Pheasant	-	-	61.5	10.6	<b>36.7</b>	<b>74.3</b>	70.2	<b>72.3</b>	<b>60.4</b>
CP7266AX	-	-	61.3	11.0	<b>35.4</b>	66.2	<b>77.5</b>	<b>71.9</b>	<b>59.7</b>
WB4422	-	-	62.0	10.2	35.4	<b>73.1</b>	70.2	<b>71.7</b>	<b>59.6</b>
CP7017AX	-	-	61.6	11.6	<b>38.5</b>	66.0	72.8	69.4	<b>59.1</b>
MS Maverick	-	-	61.9	11.6	31.1	<b>71.0</b>	<b>74.3</b>	<b>72.7</b>	58.8
LCS Helix AX	-	-	62.9	11.6	30.8	69.0	<b>74.5</b>	<b>71.8</b>	58.1
Ideal	-	-	61.4	11.4	34.2	<b>72.9</b>	66.8	69.8	58.0
SD Andes	-	-	64.2	10.9	33.3	68.0	72.4	70.2	57.9
LCS Chrome	-	-	62.1	12.0	33.0	69.1	70.4	69.7	57.5
Byrd CL Plus	-	-	60.5	11.2	32.5	67.6	72.4	70.0	57.5
AP Bigfoot	-	-	61.2	12.0	32.3	<b>70.8</b>	69.1	69.9	57.4
WB4309	-	-	61.2	11.9	<b>37.9</b>	63.9	69.3	66.6	57.0
CP7869	-	-	61.2	11.4	<b>37.4</b>	64.3	69.1	66.7	56.9
Kivari AX	-	-	60.5	10.6	31.7	64.4	<b>73.5</b>	68.9	56.5
SY Wolverine	-	-	61.4	10.5	31.5	68.3	66.4	67.4	55.4
WB4510CLP	-	-	63.8	11.1	27.0	68.9	67.2	68.0	54.3
CP7909	-	-	61.0	11.0	30.9	62.7	69.3	66.0	54.3
AP Clair	-	-	62.6	11.0	34.5	60.4	67.2	63.8	54.0
Crescent AX	-	-	62.9	10.2	24.3	68.7	67.6	68.1	53.5
Expedition	-	-	61.8	11.9	32.5	54.4	65.6	60.0	50.8
MS Sundown	-	-	62.0	11.1	-	65.6	72.6	69.1	-
SY Wolf	-	-	62.3	11.2	-	68.9	66.6	67.8	-
AP 24AX	-	-	61.1	10.5	-	-	<b>77.0</b>	-	-
LCS Warbird AX	-	-	62.5	11.7	-	-	<b>75.6</b>	-	-
LCS Julep	-	-	63.4	11.8	27.6	-	<b>75.5</b>	-	-
CO18042RA	-	-	59.3	11.7	-	-	67.1	-	-
21Nord-160	-	-	58.7	11.8	-	-	57.6	-	-
LCS Jet	-	-	56.9	13.1	-	-	52.8	-	-
LCS Missile	-	-	53.2	13.6	-	-	37.7	-	-
<b>Trial Average#</b>	-	-	61.3	11.5	33.7	68.0	69.6	69.5	57.4
<b>LSD (0.05) †</b>	-	-	1.1	1.3	5.9	6.2	5.4	-	-
<b>C.V. %‡</b>	-	-	1.3	7.8	12.5	6.5	5.5	-	-

\* 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.