



**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 Faith

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**Location:** 44.983333°, -101.882500°

**Soil Type:** Regent-Rhodes complex, 2-9% slopes

**Previous crop:** spring wheat

**Tillage:** no-till

**Row spacing:** 10"

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

**Fertilizer:**

- Starter: 10 gal/acre 10-25-0
- Other: 120 lbs of N/acre as UAN

**Herbicide:**

- Burndown: 32 oz.acre RT3
- Post: 16 oz/acre Perfectmatch

**Fungicide:**

**Date seeded:** 9/27/2023

**Date harvested:** 7/23/2024



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Table 1. Performance trial results for winter wheat varieties (average of 4 replications) conducted in 2024 at Faith, 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)
WB4422	not reported	not reported	60.9	9.4	<b>34.7</b>	-	<b>85.0</b>	-	<b>59.8</b>
Byrd CL Plus	reported	reported	58.8	8.3	32.0	-	<b>85.5</b>	-	<b>58.8</b>
Kivari AX	-	-	59.4	8.4	<b>35.6</b>	-	<b>80.1</b>	-	<b>57.8</b>
SD Midland	-	-	59.8	9.4	<b>37.0</b>	-	78.6	-	<b>57.8</b>
SY Wolverine	-	-	59.1	8.9	<b>32.7</b>	-	<b>80.5</b>	-	<b>56.6</b>
MS Maverick	-	-	60.6	9.2	<b>34.3</b>	-	77.7	-	<b>56.0</b>
CP7017AX	-	-	58.9	8.4	30.2	-	<b>80.7</b>	-	<b>55.5</b>
SD Andes	-	-	61.1	9.5	<b>33.0</b>	-	77.8	-	<b>55.4</b>
AP Bigfoot	-	-	59.5	9.2	32.2	-	78.1	-	55.2
WB4510CLP	-	-	61.3	9.0	29.7	-	<b>79.8</b>	-	54.8
SD Pheasant	-	-	59.5	9.3	27.0	-	<b>80.9</b>	-	53.9
Draper	-	-	59.0	9.5	<b>35.6</b>	-	71.9	-	53.7
WB4309	-	-	59.1	9.4	27.2	-	<b>79.4</b>	-	53.3
Expedition	-	-	60.0	9.7	30.1	-	76.5	-	53.3
LCS Helix AX	-	-	59.7	9.1	29.5	-	77.0	-	53.2
CP7909	-	-	59.5	8.8	27.5	-	77.9	-	52.7
Crescent AX	-	-	59.1	8.7	23.3	-	<b>80.4</b>	-	51.8
LCS Julep	-	-	60.1	10.0	27.4	-	75.6	-	51.5
LCS Chrome	-	-	60.2	9.8	26.4	-	75.2	-	50.8
CP7869	-	-	59.2	10.3	29.7	-	71.7	-	50.7
Winner	-	-	59.8	9.5	26.9	-	73.3	-	50.1
Ideal	-	-	59.7	9.5	<b>32.3</b>	-	66.2	-	49.3
AP Clair	-	-	60.5	9.8	28.9	-	66.3	-	47.6
CP7266AX	-	-	58.7	9.5	25.0	-	68.6	-	46.8
AP 24AX	-	-	57.8	8.3	-	-	<b>82.5</b>	-	-
CO18042RA	-	-	58.4	9.1	-	-	78.9	-	-
LCS Warbird AX	-	-	59.9	9.2	-	-	78.4	-	-
MS Sundown	-	-	59.2	9.4	-	-	75.7	-	-
21Nord-160	-	-	58.6	9.0	-	-	74.5	-	-
SY Wolf	-	-	59.4	9.9	-	-	71.1	-	-
LCS Jet	-	-	52.6	9.5	-	-	69.3	-	-
LCS Missile	-	-	56.9	9.3	-	-	66.9	-	-
<b>Trial Average #</b>	-	-	59.2	9.3	30.6	-	76.6	-	53.4
<b>LSD (0.05) †</b>	-	-	2.2	0.6	5.4	-	9.6	-	-
<b>C.V. %‡</b>	-	-	2.7	4.8	12.6	-	8.8	-	-

\* 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.

§ Reported 3-year yields are actually an average of 2022 and 2024 as the location was not harvested in 2023.