



**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 | 34.7 | - | 85.0 | - | 59.8 |
| Byrd CL Plus | reported | reported | 58.8 | 8.3 | 32.0 | - | 85.5 | - | 58.8 |
| Kivari AX | - | - | 59.4 | 8.4 | 35.6 | - | 80.1 | - | 57.8 |
| SD Midland | - | - | 59.8 | 9.4 | 37.0 | - | 78.6 | - | 57.8 |
| SY Wolverine | - | - | 59.1 | 8.9 | 32.7 | - | 80.5 | - | 56.6 |
| MS Maverick | - | - | 60.6 | 9.2 | 34.3 | - | 77.7 | - | 56.0 |
| CP7017AX | - | - | 58.9 | 8.4 | 30.2 | - | 80.7 | - | 55.5 |
| SD Andes | - | - | 61.1 | 9.5 | 33.0 | - | 77.8 | - | 55.4 |
| AP Bigfoot | - | - | 59.5 | 9.2 | 32.2 | - | 78.1 | - | 55.2 |
| WB4510CLP | - | - | 61.3 | 9.0 | 29.7 | - | 79.8 | - | 54.8 |
| SD Pheasant | - | - | 59.5 | 9.3 | 27.0 | - | 80.9 | - | 53.9 |
| Draper | - | - | 59.0 | 9.5 | 35.6 | - | 71.9 | - | 53.7 |
| WB4309 | - | - | 59.1 | 9.4 | 27.2 | - | 79.4 | - | 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 | - | 80.4 | - | 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 | 32.3 | - | 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 | - | - | 82.5 | - | - |
| 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 | - | - |
| Trial Average # | - | - | 59.2 | 9.3 | 30.6 | - | 76.6 | - | 53.4 |
| LSD (0.05) † | - | - | 2.2 | 0.6 | 5.4 | - | 9.6 | - | - |
| C.V. %‡ | - | - | 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 (\geq 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.