



2022 South Dakota Winter Wheat Variety Trial Results Faith

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Cooperator: Bryant Schauer
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-.25S
- Other: 40 gal/acre 28-0-0 mid-row banded
Herbicide:
- Burndown: 32 oz/acre RT3
- Post: none
Fungicide: none
Date seeded: 9/20/2021
Date harvested: 7/25/2022
Notes: Very dry weather throughout the growing season.



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**SOUTH DAKOTA STATE
UNIVERSITY EXTENSION**

Table 1. 2022 winter wheat variety performance trial results (average of 4 replications) at Faith, SD.

Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are bolded and shaded light blue.

| Variety | Height (in) | Lodging* (1-5) | Test Wt (lbs) | Protein (%)# | 2020 (bu/a)# | 2021 (bu/a) | 2022 (bu/a) | 2-year (bu/a) | 3-year (bu/a) |
|-----------------------|-------------|----------------|---------------|--------------|--------------|-------------|-------------|---------------|---------------|
| SD Midland | 29 | 1.0 | 58.1 | 15.1 | 87.1 | 74.6 | 37.0 | 55.8 | 66.2 |
| Winner | 24 | 1.0 | 57.8 | 15.0 | 82.7 | 85.8 | 26.9 | 56.4 | 65.1 |
| Redfield | 23 | 1.0 | 57.3 | 15.7 | 79.2 | 72.0 | 33.2 | 52.6 | 61.5 |
| SD Andes | 23 | 1.0 | 57.2 | 15.6 | 76.9 | 71.9 | 33.0 | 52.4 | 60.6 |
| WB4309 | 29 | 1.0 | 57.4 | 15.1 | 73.9 | 78.7 | 27.2 | 53.0 | 59.9 |
| LCS Helix AX | 21 | 1.0 | 54.9 | 15.2 | 69.1 | 75.9 | 29.5 | 52.7 | 58.1 |
| Draper | 26 | 1.0 | 56.4 | 15.4 | 66.2 | 71.1 | 35.6 | 53.4 | 57.6 |
| CP7017AX | 25 | 1.0 | 57.1 | 15.0 | 79.3 | 62.2 | 30.2 | 46.2 | 57.2 |
| SY Wolverine | 24 | 1.0 | 58.8 | 14.6 | 65.1 | 72.3 | 32.7 | 52.5 | 56.7 |
| Ideal | 28 | 1.0 | 57.2 | 15.3 | 72.0 | 64.9 | 32.3 | 48.6 | 56.4 |
| CP7909 | 20 | 1.0 | 56.8 | 15.3 | 67.5 | 72.2 | 27.5 | 49.9 | 55.8 |
| AP 18AX | 23 | 1.0 | 57.7 | 14.4 | 53.8 | 72.5 | 33.8 | 53.2 | 53.4 |
| Crescent AX | 24 | 1.0 | 59.3 | 14.4 | 64.6 | 68.1 | 23.3 | 45.7 | 52.0 |
| CP7050AX | 24 | 1.0 | 58.6 | 14.9 | 53.8 | 67.4 | 24.9 | 46.2 | 48.7 |
| Expedition | 26 | 1.0 | 56.9 | 15.1 | 46.2 | 63.4 | 30.1 | 46.7 | 46.6 |
| LCS Steel AX | 28 | 1.0 | 55.0 | 16.2 | - | 69.9 | 32.3 | 51.1 | - |
| AP Bigfoot | 25 | 1.0 | 57.6 | 15.4 | - | 70.0 | 32.2 | 51.1 | - |
| AP Clair | 23 | 1.0 | 58.9 | 14.3 | - | 71.8 | 28.9 | 50.3 | - |
| MS Iceman | 27 | 1.0 | 58.8 | 15.0 | - | 63.8 | 31.0 | 47.4 | - |
| LCS Photon AX | 26 | 1.0 | 57.8 | 15.0 | - | 67.8 | 26.1 | 46.9 | - |
| CP7869 | 23 | 1.0 | 58.0 | 14.6 | - | 64.1 | 29.7 | 46.9 | - |
| LCS Chrome | 25 | 1.0 | 58.0 | 15.1 | - | 66.4 | 26.4 | 46.4 | - |
| LCS Julep | 20 | 1.0 | 59.4 | 14.8 | - | 65.3 | 27.4 | 46.3 | - |
| Viking 211 | 27 | 1.0 | 57.7 | 14.7 | - | - | 37.4 | - | - |
| Kivari AX | 22 | 1.0 | 56.9 | 14.8 | - | - | 35.6 | - | - |
| WB4422 | 27 | 1.0 | 55.9 | 15.7 | - | - | 34.7 | - | - |
| MS Maverick | 26 | 1.0 | 57.9 | 15.1 | - | - | 34.3 | - | - |
| Byrd CL Plus | 24 | 1.0 | 58.2 | 15.0 | - | - | 32.0 | - | - |
| WB4510CLP | 27 | 1.0 | 57.0 | 15.5 | - | - | 29.7 | - | - |
| CPX72166AX | 23 | 1.0 | 56.4 | 15.7 | - | - | 25.0 | - | - |
| Trial Average# | 25 | 1 | 57.5 | 15.2 | 71.0 | 70.6 | 30.1 | 50.1 | 57.1 |
| LSD (0.05)† | - | - | - | - | 11.0 | 8.6 | 5.4 | - | - |
| C.V. %‡ | - | - | - | - | 11.1 | 8.8 | 12.5 | - | - |

* 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.