



2020 South Dakota Spring Wheat Variety Trial Results Frankfort

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Location: 44.863459°, -98.280992°

Soil Type: Great Bend-Beotia silt loams, 0-2% slopes

Previous crop: soybeans

Tillage: no-till

Row spacing: 8"

Seeding Rate: 1.8 million PLS/acre

Fertilizer:

- Starter: 90 lb/acre 30-10-10
- Other: 300 lb/acre MESZ (12-40-0-10S-1Z)

Herbicide:

- Burndown: NR
- Post: 1.5 pt/acre Bison + 16 oz/acre Axial Bold

Fungicide: none

Date seeded: 4/22/2020

Date harvested: 8/7/2020

Notes: This location was not harvested in 2019. Three-year yields reported are an average of 2018 and 2020.

Table 1. 2020 spring wheat variety performance trial results (average of 4 replications) at Frankfort, SD. Entries are sorted by overall 3-year yield. Varieties yielding in the top 1/3 of the trial are shaded light blue.

| Variety | Height (in) | Lodging* (1-5) | Test Wt (lbs) | Protein % | 2018 (bu/a) | 2019 (bu/a) | 2020 (bu/a) | 2-year (bu/a) | 3-year (bu/a) |
|-----------------------|--------------|----------------|---------------|-----------|-------------|-------------|-------------|---------------|---------------|
| LCS Trigger | not reported | not reported | 61.6 | 12.8 | 56.7 | - | 83.6 | - | 70.1 |
| CP3530 | - | - | 61.3 | 15.3 | 47.9 | - | 72.8 | - | 60.4 |
| Shelly | - | - | 60.5 | 13.8 | 46.8 | - | 73.3 | - | 60.1 |
| WB9719 | - | - | 63.7 | 14.5 | 47.8 | - | 71.0 | - | 59.4 |
| SY Valda | - | - | 61.9 | 14.6 | 45.9 | - | 67.4 | - | 56.7 |
| CP3888 | - | - | 59.8 | 15.2 | 43.0 | - | 66.9 | - | 54.9 |
| WB9590 | - | - | 60.4 | 15.2 | 43.8 | - | 65.9 | - | 54.8 |
| Driver | - | - | 62.1 | 14.7 | 41.2 | - | 68.2 | - | 54.7 |
| Advance | - | - | 61.0 | 14.3 | 40.1 | - | 68.9 | - | 54.5 |
| MN-Washburn | - | - | 59.9 | 14.3 | 41.1 | - | 67.7 | - | 54.4 |
| Lang-MN | - | - | 61.0 | 15.7 | 44.1 | - | 63.3 | - | 53.7 |
| SY Ingmar | - | - | 61.6 | 15.2 | 42.2 | - | 64.2 | - | 53.2 |
| MS Chevelle | - | - | 59.4 | 14.2 | 42.3 | - | 61.1 | - | 51.7 |
| Bolles | - | - | 60.3 | 15.9 | 39.8 | - | 62.2 | - | 51.0 |
| LCS Cannon | - | - | 62.2 | 14.7 | 39.2 | - | 62.4 | - | 50.8 |
| Boost | - | - | 60.8 | 14.9 | 38.8 | - | 62.6 | - | 50.7 |
| MS Barracuda | - | - | 61.1 | 15.0 | 39.4 | - | 62.0 | - | 50.7 |
| Prevail | - | - | 59.4 | 14.5 | 39.0 | - | 60.9 | - | 50.0 |
| SY Rustler | - | - | 59.7 | 15.3 | 37.7 | - | 62.2 | - | 50.0 |
| LCS Rebel | - | - | 61.8 | 15.3 | 37.7 | - | 61.7 | - | 49.7 |
| WB9479 | - | - | 60.5 | 16.0 | 38.4 | - | 60.9 | - | 49.7 |
| Surpass | - | - | 58.7 | 15.6 | 37.4 | - | 60.1 | - | 48.7 |
| Forefront | - | - | 60.5 | 15.3 | 35.7 | - | 56.7 | - | 46.2 |
| Focus | - | - | 60.8 | 15.9 | 34.0 | - | 57.6 | - | 45.8 |
| LCS Buster | - | - | 59.4 | 13.0 | - | - | 74.9 | - | - |
| MN-Torgy | - | - | 60.6 | 15.1 | - | - | 70.0 | - | - |
| AP Murdock | - | - | 60.0 | 14.7 | - | - | 69.9 | - | - |
| CP3099A | - | - | 58.2 | 13.2 | - | - | 68.9 | - | - |
| WB9606 | - | - | 60.8 | 13.9 | - | - | 67.6 | - | - |
| CP3915 | - | - | 61.0 | 15.1 | - | - | 65.8 | - | - |
| SY 611 CL2 | - | - | 61.2 | 14.7 | - | - | 65.3 | - | - |
| CP3910 | - | - | 60.7 | 14.8 | - | - | 63.9 | - | - |
| ND Frohberg | - | - | 61.4 | 14.7 | - | - | 61.1 | - | - |
| CP3903 | - | - | 61.2 | 15.5 | - | - | 59.8 | - | - |
| MS Ranchero | - | - | 57.8 | 15.1 | - | - | 58.7 | - | - |
| Trial Average# | - | - | 60.6 | 14.8 | 41.2 | - | 65.5 | - | 53.4 |
| LSD(0.05)† | - | - | 0.4 | 0.3 | 5.1 | - | 3 | - | - |
| C.V.%‡ | - | - | 0.5 | 1.3 | 8.9 | - | 3.3 | - | - |

* Lodging score: 1, perfectly standing; to 5, completely flat.

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.