

NDSU Langdon Research Extension Center
2023 Variety Trial Data

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|------------------------------|----------------|
| Hard Red Winter Wheat | Langdon |
|------------------------------|----------------|

| Variety | Days to Head | Plant Height | Test Weight | Protein % | Grain Yield | | | | |
|--------------|--------------|--------------|-------------|-----------|----------------|------|------|-----------|-----------|
| | | | | | 2020 | 2022 | 2023 | 2-yr Avg. | 3-yr Avg. |
| | Julian | in | lbs/bu | % | -----bu/a----- | | | | |
| Jerry | 160 | 25 | 62.8 | 13.3 | 44.4 | 81.1 | 62.7 | 71.9 | 62.7 |
| ND Noreen | 161 | 25 | 64.5 | 14.1 | 48.0 | 84.9 | 62.0 | 73.4 | 65.0 |
| ND Allison | 161 | 23 | 63.7 | 12.0 | -- | 84.9 | 69.2 | 77.1 | -- |
| Northern | 161 | 23 | 63.8 | 13.6 | 42.6 | 61.8 | 68.8 | 65.3 | 57.7 |
| SD Andes | 160 | 23 | 64.4 | 12.9 | -- | 86.8 | 65.9 | 76.4 | -- |
| SD Midland | 159 | 24 | 64.1 | 12.5 | -- | 79.0 | 68.5 | 73.8 | -- |
| Winner | 157 | 22 | 63.4 | 13.2 | -- | 81.5 | 57.8 | 69.7 | -- |
| AAC Wildfire | 164 | 23 | 63.8 | 12.4 | 45.4 | 70.4 | 66.1 | 68.3 | 60.6 |
| AAC Vortex | 160 | 22 | 63.3 | 14.0 | -- | 90.9 | 61.4 | 76.1 | -- |
| Goldrush | 163 | 25 | 63.4 | 13.4 | -- | -- | 65.5 | -- | -- |
| AC Emerson | 163 | 24 | 63.3 | 14.4 | 40.8 | 71.3 | 51.0 | 61.2 | 54.4 |
| MS Sundown | 155 | 21 | 63.0 | 13.2 | -- | -- | 55.0 | -- | -- |
| MS Maverick | 159 | 21 | 63.7 | 13.9 | -- | 67.1 | 57.9 | 62.5 | -- |
| AP Bigfoot | 158 | 19 | 63.6 | 13.5 | -- | 60.7 | 47.6 | 54.1 | -- |
| SY Monument | 159 | 21 | 62.7 | 12.6 | 35.8 | 60.6 | 59.7 | 60.2 | 52.0 |
| SY Wolverine | 157 | 19 | 63.3 | 14.2 | 38.9 | 50.1 | 48.4 | 49.3 | 45.8 |
| Keldin | 162 | 24 | 64.0 | 12.9 | 36.3 | 61.7 | 70.7 | 66.2 | 56.2 |
| WB4309 | 158 | 21 | 63.4 | 14.2 | -- | 69.1 | 54.5 | 61.8 | -- |
| Trial Mean | 160 | 23 | 63.5 | 13.3 | 38.7 | 71.2 | 61.1 | -- | -- |
| C.V. % | 0.4 | 5.5 | 0.4 | 1.9 | 12.4 | 9.5 | 6.5 | -- | -- |
| LSD 5% | 1.0 | 1.8 | 0.4 | 0.4 | 6.8 | 6.3 | 5.6 | -- | -- |
| LSD 10% | 0.8 | 1.5 | 0.3 | 0.3 | 5.7 | 5.2 | 4.7 | -- | -- |

Planting Date: September 20, 2022

Harvest Date: August 9, 2023

Soil Type: Svea-Barnes loam

Previous Crop: Soybean

Trial was lost to winterkill in 2021

Winter survival was 100% for all varieties in 2023

No Lodging in trial