

2021 Hard Red Spring Wheat Variety Trial at Minot

| Variety | Days to Head | Plant Height | Lodging | Test Weight | Protein | Grain Yield | | | | |
|---------------|--------------------|-----------------|------------------|----------------|---------|----------------|------|-------------|----------------|------|
| | | | | | | 2019 | 2020 | 2021* | -- Average* -- | |
| | DAP ¹ | inches | 0-9 ² | lbs/bu | % | -----bu/A----- | | | | |
| LCS Trigger | 58 | 15 | 0 | 62.2 | 14.4 | 54.9 | 73.0 | 20.7 | 64.0 | 75.1 |
| Faller | 54 | 15 | 0 | 61.8 | 15.8 | 58.0 | 63.8 | 17.9 | 60.9 | 74.5 |
| SY Rockford | 53 | 15 | 0 | 60.8 | 16.4 | 50.9 | 64.6 | 18.0 | 57.8 | 72.5 |
| CP3530 | 54 | 15 | 0 | 61.6 | 16.6 | 47.0 | 67.8 | 12.0 | 57.4 | 69.0 |
| SY 611CL2 | 51 | 13 | 0 | 63.6 | 16.2 | 47.1 | 68.7 | 15.6 | 57.9 | 68.9 |
| MS Barracuda | 49 | 12 | 0 | 62.1 | 17.7 | 51.8 | 59.6 | 11.9 | 55.7 | 68.7 |
| Shelly | 53 | 15 | 0 | 63.9 | 15.3 | 42.4 | 64.3 | 17.7 | 53.3 | 68.1 |
| TCG Spitfire | 56 | 14 | 0 | 62.7 | 16.4 | 49.8 | 68.9 | 11.9 | 59.4 | 68.1 |
| Lanning | 51 | 12 | 0 | 60.5 | 16.6 | 47.9 | 56.4 | 8.0 | 52.1 | 66.2 |
| Sy Soren | 52 | 15 | 0 | 63.7 | 18.2 | 48.6 | 61.7 | 8.4 | 55.1 | 65.0 |
| Elgin ND | 52 | 15 | 0 | 62.2 | 16.7 | 50.6 | 60.9 | 15.6 | 55.7 | 64.8 |
| DG Ambush | 50 | 15 | 0 | 63.4 | 16.8 | 44.6 | 59.9 | 13.5 | 52.3 | 64.1 |
| SY Longmire | 51 | 15 | 0 | 62.7 | 16.9 | 47.0 | 63.5 | 13.6 | 55.3 | 63.8 |
| AAC Goodwin | 54 | 17 | 0 | 62.4 | 15.4 | 49.1 | 63.8 | 20.0 | 56.4 | 63.6 |
| Bolles | 56 | 16 | 0 | 60.3 | 19.1 | 45.6 | 59.1 | 14.3 | 52.3 | 62.2 |
| Lang-MN | 52 | 15 | 0 | 62.2 | 15.5 | 50.6 | 58.2 | 13.0 | 54.4 | 62.1 |
| SY Valda | 50 | 14 | 0 | 63.0 | 16.5 | 44.6 | 52.1 | 12.8 | 48.3 | 61.8 |
| SY McCloud | 50 | 13 | 0 | 63.2 | 17.9 | 41.0 | 53.3 | 6.9 | 47.2 | 61.7 |
| LCS Cannon | 49 | 12 | 0 | 63.4 | 16.9 | 43.1 | 56.3 | 7.0 | 49.7 | 61.3 |
| Linkert | 51 | 11 | 0 | 63.5 | 17.7 | 42.4 | 56.5 | 11.3 | 49.5 | 61.1 |
| LCS Rebel | 50 | 12 | 0 | 63.4 | 18.0 | 48.3 | 60.2 | 9.5 | 54.3 | 61.0 |
| MN Washburn | 54 | 14 | 0 | 62.3 | 15.1 | 47.3 | 54.6 | 15.2 | 51.0 | 60.8 |
| Mott | 52 | 15 | 0 | 62.5 | 17.0 | 49.2 | 56.9 | 10.6 | 53.1 | 60.7 |
| ND Frohberg | 52 | 13 | 0 | 63.0 | 17.2 | 41.2 | 59.9 | 11.0 | 50.6 | 60.5 |
| Barlow | 50 | 13 | 0 | 63.5 | 17.0 | 46.2 | 52.1 | 7.6 | 49.1 | 60.2 |
| Glenn | 49 | 14 | 0 | 63.5 | 17.2 | 39.2 | 55.8 | 7.4 | 47.5 | 59.1 |
| SY Ingmar | 50 | 14 | 0 | 63.4 | 15.8 | 37.0 | 55.9 | 17.2 | 46.5 | 58.4 |
| ND Vitpro | 51 | 14 | 0 | 63.5 | 17.2 | 39.1 | 52.3 | 10.8 | 45.7 | 56.2 |
| DG Commander | 50 | 17 | 0 | 63.2 | 15.9 | 55.7 | 66.7 | 17.0 | 61.2 | -- |
| MN Torgy | 52 | 14 | 0 | 63.0 | 15.8 | 49.3 | 61.3 | 18.8 | 55.3 | -- |
| CP3915 | 51 | 13 | 0 | 62.7 | 15.9 | 50.3 | 55.6 | 11.4 | 53.0 | -- |
| TCG Heartland | 50 | 13 | 0 | 63.4 | 18.1 | 49.5 | 55.9 | 8.2 | 52.7 | -- |
| Dagmar | 50 | 12 | 0 | 62.2 | 17.5 | 48.7 | 51.6 | 6.8 | 50.2 | -- |
| AP Murdock | 52 | 12 | 0 | 62.1 | 17.4 | 40.2 | 59.7 | 8.1 | 50.0 | -- |
| LCS Buster | 57 | 14 | 0 | 58.6 | 16.5 | -- | 75.9 | 10.2 | -- | -- |
| TCG Wildcat | 51 | 15 | 0 | 63.7 | 15.6 | -- | 65.7 | 19.5 | -- | -- |
| DG Ballistic | 53 | 14 | 0 | 61.7 | 16.8 | -- | 65.3 | 11.8 | -- | -- |
| Driver | 53 | 15 | 0 | 64.1 | 15.5 | -- | 65.0 | 15.3 | -- | -- |
| MS Ranchero | 51 | 10 | 0 | 60.4 | 16.2 | -- | 59.6 | 7.5 | -- | -- |
| PFS Buns | 58 | 17 | 0 | 60.3 | 15.6 | -- | -- | 21.5 | -- | -- |
| CP3119A | 57 | 15 | 0 | 58.7 | 14.1 | -- | -- | 21.5 | -- | -- |
| AAC Brandon | 51 | 16 | 0 | 63.0 | 16.1 | -- | -- | 20.0 | -- | -- |
| CAG-Reckless | 51 | 15 | 0 | 62.8 | 16.6 | -- | -- | 19.1 | -- | -- |
| CP3188 | 54 | 17 | 0 | 61.1 | 14.3 | -- | -- | 17.8 | -- | -- |

2021 Hard Red Spring Wheat Variety Trial at Minot Continued

| Variety | Days to Head DAP ¹ | Plant Height inches | Lodging 0-9 ² | Test Weight lbs/bu | Protein % | Grain Yield | | | | |
|------------------|--|---------------------------|-----------------------------|--------------------------|--------------|----------------|------|-------------|---------------------------------|----|
| | | | | | | 2019 | 2020 | 2021* | -- Average* -- 2 year 3 year | |
| | | | | | | -----bu/A----- | | | | |
| MS Cobra | 51 | 14 | 0 | 63.2 | 15.9 | -- | -- | 15.0 | -- | -- |
| SK Rush | 52 | 14 | 0 | 60.9 | 17.1 | -- | -- | 14.7 | -- | -- |
| AAC Wheatland VB | 50 | 14 | 0 | 63.4 | 16.4 | -- | -- | 14.4 | -- | -- |
| AAC Starbuck VB | 50 | 12 | 0 | 63.5 | 17.0 | -- | -- | 13.1 | -- | -- |
| AP Smith | 51 | 14 | 0 | 62.5 | 15.9 | -- | -- | 10.9 | -- | -- |
| CP3099A | 57 | 15 | 0 | 61.4 | 14.8 | -- | -- | 10.5 | -- | -- |
| CAG-Justify | 54 | 14 | 0 | 59.6 | 17.2 | -- | -- | 9.5 | -- | -- |
| AP Gunsmoke CL2 | 51 | 12 | 0 | 61.7 | 16.9 | -- | -- | 8.3 | -- | -- |
| WB9590 | 51 | 11 | 0 | 63.4 | 18.2 | -- | -- | 8.3 | -- | -- |
| WB9479 | 50 | 12 | 0 | 63.5 | 19.0 | -- | -- | 5.8 | -- | -- |
| Trial Mean | 52 | 14 | 0 | 62.4 | 16.6 | 47.0 | 59.9 | 13.1 | -- | -- |
| C.V.% | 1.7 | 15 | 0 | 1.5 | 4.4 | 13.7 | 10.3 | 45.7 | -- | -- |
| LSD 5% | 1 | 3 | NS | 1.5 | 1.2 | 10.4 | 10.0 | 9.7 | -- | -- |
| LSD 10% | 1 | 3 | NS | 1.3 | 1.0 | 8.7 | 8.4 | 8.1 | -- | -- |

¹ DAP = Days after planting.² Lodging: 0 = none, 9 = lying flat on the ground.

NS = no statistical difference between varieties.

***The 2021 trial sustained extreme heat and moisture stress. Data from this trial may be unreliable and should be viewed with caution. 2 and 3 year average yields do not include 2021 data.**

No-till planted on April 28 with a seeding rate of 1.25 million PLS/A and harvested on August 3.

Previous Crop: 2018 & 2019 = soybean, 2020 = chickpea.

Soil Type: Williams Loam