

**NDSU North Central Research Extension Center**  
**2019 Hard Red Spring Wheat Variety Trial at Mohall**

Cooperators: Dean Schoenberg and the Renville/Bottineau Ag Improvement Association

| Variety             | Plant Height<br>inches | Lodging<br>0-9* | Test Weight<br>lbs/bu | Protein<br>% | Grain Yield    |      |      |                            |      |
|---------------------|------------------------|-----------------|-----------------------|--------------|----------------|------|------|----------------------------|------|
|                     |                        |                 |                       |              | 2017           | 2018 | 2019 | -- Average --<br>2 yr 3 yr |      |
|                     |                        |                 |                       |              | -----bu/A----- |      |      |                            |      |
| SY Valda            | 25                     | 0               | 63.1                  | 14.5         | 84.4           | 67.0 | 50.6 | 58.8                       | 67.3 |
| Elgin ND            | 30                     | 0               | 62.6                  | 15.1         | 79.1           | 67.2 | 54.3 | 60.8                       | 66.9 |
| SY Ingmar           | 26                     | 0               | 63.7                  | 15.1         | 80.3           | 57.4 | 49.1 | 53.3                       | 62.3 |
| ND VitPro           | 29                     | 0               | 64.8                  | 14.7         | 75.8           | 58.0 | 50.6 | 54.3                       | 61.5 |
| Glenn               | 29                     | 0               | 64.9                  | 15.6         | 73.8           | 60.1 | 50.5 | 55.3                       | 61.5 |
| Linkert             | 25                     | 0               | 62.8                  | 15.7         | 83.4           | 52.0 | 48.2 | 50.1                       | 61.2 |
| SY Soren            | 23                     | 0               | 63.1                  | 15.9         | 75.6           | 52.8 | 46.4 | 49.6                       | 58.3 |
| Bolles              | 27                     | 0               | 62.2                  | 16.9         | 68.7           | 54.3 | 49.1 | 51.7                       | 57.4 |
| TCG Spitfire        | 28                     | 0               | 61.1                  | 14.1         | --             | 75.9 | 59.7 | 67.8                       | --   |
| DG Ambush           | 27                     | 0               | 63.7                  | 15.1         | --             | 60.4 | 52.1 | 56.3                       | --   |
| LCS Rebel           | 27                     | 0               | 64.3                  | 15.0         | --             | --   | 56.0 | --                         | --   |
| CP3888              | 26                     | 0               | 61.9                  | 15.2         | --             | --   | 53.0 | --                         | --   |
| Lanning             | 25                     | 0               | 61.4                  | 16.1         | --             | --   | 52.1 | --                         | --   |
| MS Barracuda        | 25                     | 0               | 63.1                  | 15.0         | --             | --   | 51.5 | --                         | --   |
| SY McCloud          | 27                     | 0               | 63.4                  | 15.5         | --             | --   | 51.2 | --                         | --   |
| LCS Cannon          | 25                     | 0               | 63.2                  | 14.7         | --             | --   | 50.0 | --                         | --   |
| MN Washburn         | 25                     | 0               | 61.0                  | 14.4         | --             | --   | 49.3 | --                         | --   |
| <b>Mott</b>         | 30                     | 0               | 62.8                  | 15.3         | --             | 65.0 | 53.0 | 59.0                       | --   |
| <b>Duclair</b>      | 27                     | 0               | 60.2                  | 14.3         | --             | --   | 55.0 | --                         | --   |
| <b>TCG Stalwart</b> | 27                     | 0               | 60.4                  | 15.5         | --             | --   | 54.3 | --                         | --   |
| <b>SY Longmire</b>  | 27                     | 0               | 62.3                  | 15.0         | --             | --   | 51.9 | --                         | --   |
| Trial Mean          | 27                     | 0               | 62.7                  | 15.2         | 75.3           | 62.7 | 52.2 | --                         | --   |
| C.V.%               | 6.8                    | 0               | 1.5                   | 2.7          | 6.5            | 6.7  | 8.4  | --                         | --   |
| LSD 5%              | 3                      | NS              | 1.3                   | 0.6          | 6.9            | 5.9  | 6.2  | --                         | --   |
| LSD 10%             | 2                      | NS              | 1.1                   | 0.5          | 5.7            | 4.9  | 5.2  | --                         | --   |

\*Lodging: 0 = none, 9 = lying flat on the ground.

NS = no statistical difference between varieties.

**Bold** = solid stem sawfly tolerant varieties.

Planted on April 25 with a seeding rate of 1.25 million PLS/A and harvested on August 22.

Previous Crop: 2016 & 2017 = durum, 2018 = canola.

Tillage: minimum till

Soil Type: Barnes loam