

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

Cooperators: Dave Teigen and the Pierce County Crop Improvement Association

| Variety             | Plant Height<br>inches | Lodging<br>0-9* | Test Weight<br>lbs/bu | Protein<br>% | Grain Yield    |      |      | -- Average -- |      |
|---------------------|------------------------|-----------------|-----------------------|--------------|----------------|------|------|---------------|------|
|                     |                        |                 |                       |              | 2017           | 2018 | 2019 | 2 yr          | 3 yr |
|                     |                        |                 |                       |              | -----bu/A----- |      |      |               |      |
| Elgin ND            | 34                     | 0               | 61.2                  | 14.1         | 71.4           | 71.9 | 67.7 | 69.8          | 70.3 |
| SY Soren            | 28                     | 0               | 61.5                  | 14.5         | 59.7           | 82.7 | 60.8 | 71.7          | 67.7 |
| SY Valda            | 29                     | 0               | 60.9                  | 13.4         | 63.1           | 73.7 | 64.8 | 69.2          | 67.2 |
| Linkert             | 29                     | 0               | 61.3                  | 15.3         | 71.3           | 71.0 | 58.9 | 65.0          | 67.1 |
| SY Ingmar           | 29                     | 0               | 60.9                  | 14.5         | 64.6           | 70.6 | 59.9 | 65.2          | 65.0 |
| Glenn               | 32                     | 0               | 62.1                  | 15.3         | 54.5           | 73.6 | 61.7 | 67.6          | 63.3 |
| Bolles              | 31                     | 0               | 60.5                  | 15.6         | 45.3           | 69.8 | 62.3 | 66.0          | 59.1 |
| ND VitPro           | 31                     | 0               | 60.7                  | 15.3         | 49.0           | 66.1 | 61.6 | 63.9          | 58.9 |
| TCG Spitfire        | 31                     | 0               | 58.8                  | 14.3         | --             | 85.4 | 61.4 | 73.4          | --   |
| DG Ambush           | 30                     | 0               | 61.9                  | 15.0         | --             | 77.4 | 64.8 | 71.1          | --   |
| CP3888              | 31                     | 0               | 59.9                  | 14.0         | --             | --   | 67.7 | --            | --   |
| Lanning             | 29                     | 0               | 59.1                  | 14.8         | --             | --   | 67.2 | --            | --   |
| LCS Rebel           | 32                     | 0               | 62.0                  | 14.4         | --             | --   | 65.7 | --            | --   |
| LCS Cannon          | 29                     | 0               | 62.4                  | 14.2         | --             | --   | 64.8 | --            | --   |
| SY McCloud          | 29                     | 0               | 62.4                  | 14.6         | --             | --   | 64.4 | --            | --   |
| MN Washburn         | 30                     | 0               | 60.5                  | 14.5         | --             | --   | 62.5 | --            | --   |
| MS Barrcuda         | 28                     | 0               | 61.3                  | 14.6         | --             | --   | 61.7 | --            | --   |
| <b>SY Longmire</b>  | 28                     | 0               | 59.0                  | 14.3         | --             | --   | 63.1 | --            | --   |
| <b>Duclair</b>      | 31                     | 0               | 58.3                  | 13.5         | --             | --   | 60.7 | --            | --   |
| <b>TCG Stalwart</b> | 29                     | 0               | 58.7                  | 14.8         | --             | --   | 57.7 | --            | --   |
| <b>Mott</b>         | 36                     | 0               | 61.3                  | 15.0         | --             | --   | 55.5 | --            | --   |
| Trial Mean          | 31                     | 0               | 60.9                  | 14.5         | 58.9           | 76.7 | 62.9 | --            | --   |
| C.V.%               | 4.6                    | 0               | 1.1                   | 3.5          | 12.6           | 6.7  | 5.7  | --            | --   |
| LSD 5%              | 2                      | NS              | 1.0                   | 0.7          | 12.2           | 7.2  | 5.1  | --            | --   |
| LSD 10%             | 2                      | NS              | 0.8                   | 0.6          | 10.2           | 6.0  | 4.2  | --            | --   |

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

NS = no statistical difference between varieties.

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

Planted on April 23 with a seeding rate of 1.25 million PLS/A and harvested on August 22.

Previous Crop: 2016 = field pea, 2017 = barley, 2018 = soybean

Tillage: minimum till

Soil Type: Gardena silt loam