

**Hard Red Spring Wheat Variety Trial at Garrison**

Cooperators: Brian and Roger Bendickson, Garrison

| Variety      | Plant<br>Height | Lodging | Test<br>Weight | Protein | Grain Yield    |      |      |               |      |
|--------------|-----------------|---------|----------------|---------|----------------|------|------|---------------|------|
|              |                 |         |                |         | 2016           | 2017 | 2018 | -- Average -- |      |
|              |                 |         |                |         |                |      |      | 2 yr          | 3 yr |
|              | inches          | 0-9*    | lbs/bu         | %       | -----bu/A----- |      |      |               |      |
| Prosper      | 31              | 1       | 60.5           | 14.1    | 62.8           | 17.6 | 79.5 | 48.6          | 53.3 |
| SY Valda     | 27              | 2       | 59.6           | 14.3    | 69.4           | 22.8 | 65.7 | 44.3          | 52.6 |
| LCS Prime    | 31              | 4       | 59.5           | 13.0    | 68.4           | 22.4 | 65.0 | 43.7          | 51.9 |
| Faller       | 32              | 2       | 60.2           | 13.9    | 65.1           | 17.5 | 71.5 | 44.5          | 51.4 |
| HRS 3419     | 31              | 0       | 59.5           | 12.9    | 63.2           | 14.3 | 76.4 | 45.4          | 51.3 |
| Elgin ND     | 33              | 2       | 59.3           | 14.9    | 60.6           | 20.3 | 71.5 | 45.9          | 50.8 |
| LCS Nitro    | 29              | 1       | 59.4           | 13.0    | 59.2           | 20.3 | 69.8 | 45.0          | 49.8 |
| SY Ingmar    | 28              | 4       | 60.6           | 15.1    | 62.6           | 17.2 | 62.5 | 39.9          | 47.4 |
| Bolles       | 31              | 2       | 60.1           | 16.8    | 61.1           | 18.6 | 62.4 | 40.5          | 47.4 |
| ND VitPro    | 30              | 1       | 61.1           | 15.5    | 58.7           | 24.2 | 57.1 | 40.7          | 46.7 |
| Barlow       | 31              | 2       | 61.1           | 14.9    | 56.7           | 16.4 | 66.8 | 41.6          | 46.6 |
| Linkert      | 27              | 2       | 60.8           | 15.7    | 57.8           | 20.1 | 60.8 | 40.4          | 46.2 |
| Glenn        | 32              | 1       | 61.9           | 15.3    | 56.1           | 18.9 | 61.0 | 39.9          | 45.3 |
| Boost        | 31              | 1       | 59.3           | 14.5    | 59.4           | 17.5 | 58.1 | 37.8          | 45.0 |
| SY Soren     | 25              | 5       | 60.3           | 15.1    | 60.4           | 17.1 | 57.1 | 37.1          | 44.9 |
| Lang-MN      | 32              | 3       | 60.9           | 15.0    | --             | 21.8 | 65.4 | 43.6          | --   |
| WB9653       | 27              | 2       | 59.1           | 13.9    | --             | 22.2 | 63.3 | 42.8          | --   |
| SY Rowyn     | 27              | 3       | 59.5           | 14.0    | --             | 17.7 | 64.7 | 41.2          | --   |
| TCG Spitfire | 29              | 0       | 59.0           | 14.1    | --             | --   | 68.4 | --            | --   |
| DG Ambush    | 29              | 2       | 60.7           | 14.8    | --             | --   | 67.5 | --            | --   |
| MS Camaro    | 26              | 5       | 60.4           | 14.8    | --             | --   | 63.6 | --            | --   |
| Rollag       | 28              | 3       | 60.1           | 15.3    | --             | --   | 61.8 | --            | --   |
| Trial Mean   | 29              | 2       | 60.1           | 14.6    | 62.0           | 18.9 | 65.4 | --            | --   |
| C.V.%        | 3.6             | 40      | 0.8            | 1.6     | 8.8            | 19.9 | 6.4  | --            | --   |
| LSD 5%       | 1               | 1       | 0.7            | 0.3     | 7.7            | 5.3  | 5.9  | --            | --   |
| LSD 10%      | 1               | 1       | 0.6            | 0.3     | 6.5            | 4.4  | 5.0  | --            | --   |

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

Planted on April 28 with a seeding rate of 1.25 million PLS/A and harvested on August 9.

Previous Crop: 2015 = canola, 2016 = barley, 2017 = spring wheat.

Tillage: no-till

Soil Type: Williams Bowbells loam

Note: The 2017 trial sustained severe drought and wheat stem sawfly damage.