

NDSU Langdon Research Extension Center
2016 Variety Trial Data

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

| Variety | Days to Head | Plant Height | Lodging | Test Weight | Protein % | DON ppm | Grain Yield | | | Average Yield | |
|--------------|--------------|--------------|---------|-------------|-----------|---------|----------------|------|------|---------------|------|
| | | | | | | | 2014 | 2015 | 2016 | 2 | 3 |
| | | | | | | | -----bu/a----- | | | | |
| Jerry | 159 | 42 | 2.0 | 56.0 | 10.7 | 1.7 | 71.6 | 75.5 | 64.7 | 70.1 | 70.6 |
| Decade | 157 | 35 | 2.3 | 54.2 | 10.6 | 1.4 | 73.1 | 84.4 | 73.5 | 79.0 | 77.0 |
| Lyman | 154 | 37 | 3.7 | 58.1 | 11.6 | 0.8 | 72.4 | 84.2 | 80.6 | 82.4 | 79.1 |
| Ideal | 158 | 37 | 2.0 | 56.2 | 10.4 | 2.1 | 67.5 | 80.1 | 74.2 | 77.2 | 73.9 |
| Overland | 155 | 40 | 2.0 | 58.1 | 10.8 | 0.6 | 69.4 | 89.8 | 87.5 | 88.7 | 82.2 |
| SY Wolf | 157 | 36 | 2.0 | 58.7 | 11.3 | 0.9 | 71.7 | 83.7 | 92.0 | 87.9 | 82.5 |
| WB Matlock | 159 | 40 | 1.0 | 57.1 | 10.9 | 1.6 | 75.8 | 69.8 | 73.3 | 71.6 | 73.0 |
| Peregrine | 160 | 39 | 3.0 | 58.8 | 10.8 | 0.9 | 76.4 | 78.2 | 81.0 | 79.6 | 78.5 |
| Accipiter | 162 | 38 | 0.3 | 56.3 | 10.5 | 1.5 | 74.2 | 72.9 | 75.1 | 74.0 | 74.1 |
| Moats | 158 | 39 | 2.3 | 59.8 | 11.8 | 0.7 | 75.0 | 77.1 | 82.7 | 79.9 | 78.3 |
| Flourish | 156 | 38 | 0.7 | 57.4 | 11.3 | 2.0 | 69.1 | 74.7 | 89.9 | 82.3 | 77.9 |
| AC Broadview | 158 | 38 | 2.7 | 56.8 | 10.1 | 2.0 | 77.7 | 76.2 | 86.5 | 81.4 | 80.1 |
| AC Emerson | 159 | 36 | 1.0 | 59.3 | 10.9 | 0.5 | 76.3 | 85.0 | 85.8 | 85.4 | 82.4 |
| AC Gateway | 159 | 37 | 0.7 | 56.5 | 11.3 | 1.8 | 70.9 | 78.8 | 88.4 | 83.6 | 79.4 |
| Colter | 159 | 38 | 0.0 | 50.9 | 11.2 | 3.6 | -- | 82.4 | 73.3 | 77.9 | -- |
| CDC Chase | 158 | 40 | 4.3 | 59.9 | 11.6 | 1.1 | -- | 85.2 | 89.9 | 87.6 | -- |
| Redfield | 156 | 34 | 1.3 | 58.0 | 11.1 | 2.0 | -- | 79.2 | 84.0 | 81.6 | -- |
| Ruth | 154 | 38 | 4.7 | 56.9 | 10.7 | 1.1 | -- | -- | 81.2 | -- | -- |
| WB4614 | 157 | 33 | 1.0 | 52.6 | 11.5 | 4.5 | -- | -- | 87.9 | -- | -- |
| SY Monument | 158 | 35 | 3.0 | 56.5 | 11.1 | 2.2 | -- | -- | 98.3 | -- | -- |
| SY Sunrise | 155 | 33 | 4.3 | 57.3 | 11.2 | 1.5 | -- | -- | 99.9 | -- | -- |
| Northern | 159 | 37 | 2.0 | 54.0 | 11.3 | 2.9 | -- | 83.5 | 92.5 | 88.0 | -- |
| Loma | 160 | 37 | 0.0 | 52.9 | 10.9 | 2.2 | -- | -- | 75.6 | -- | -- |
| Trial Mean | 158 | 38 | 1.9 | 56.8 | 11.2 | 1.6 | 70.6 | 79.6 | 80.1 | -- | -- |
| C.V. % | 0.6 | 3.7 | 49.1 | 1.9 | 3.0 | 28.2 | -- | 7.2 | 8.6 | -- | -- |
| LSD 5% | 1.4 | 2.3 | 1.5 | 1.8 | 0.5 | 1.0 | 5.3 | 8.1 | 11.3 | -- | -- |
| LSD 10% | 1.2 | 1.9 | 1.3 | 1.5 | 0.5 | 0.8 | -- | 6.7 | 9.5 | -- | -- |

Planting Date: September 10, 2015

Harvest Date: August 10

Trial was planted into 10" canola stubble. Winter survival for all varieties was 100%

Fungicides were used in 2014-2015 but not in 2016.