

Performance of winter wheat varieties, with and without fungicide¹ on yield and agronomic traits, Forman, 2011.

| Varieties | Heading Date | | 1000 K Weight | | Protein | | Test Weight | | Yield | |
|-------------|--------------|------|---------------|------|---------|------|-------------|------|---------|------|
| | No Fung | Fung | No Fung | Fung | No Fung | Fung | No fung | Fung | No Fung | Fung |
| | Date | | (gm) | | (%) | | (lb/bu) | | (bu/a) | |
| Accipiter | 6/24 | 6/25 | 23.3 | 25.1 | 13.0 | 14.2 | 48.5 | 54.5 | 28.3 | 43.2 |
| Art | 6/16 | 6/17 | 23.7 | 24.5 | 14.0 | 13.9 | 49.6 | 54.2 | 35.0 | 44.6 |
| Boomer | 6/26 | 6/25 | 22.3 | 26.0 | 15.0 | 13.9 | 49.2 | 53.7 | 31.0 | 39.2 |
| CDC Falcon | 6/24 | 6/24 | 26.0 | 23.3 | 13.8 | 14.0 | 46.6 | 52.5 | 26.9 | 40.2 |
| Carter | 6/22 | 6/20 | 20.9 | 22.6 | 14.9 | 14.5 | 47.9 | 53.4 | 27.4 | 41.0 |
| Darrell | 6/22 | 6/22 | 24.9 | 31.9 | 13.9 | 14.1 | 51.0 | 54.2 | 32.3 | 41.2 |
| Decade | 6/17 | 6/18 | 21.9 | 23.7 | 13.6 | 13.9 | 49.6 | 51.8 | 32.8 | 43.7 |
| Expedition | 6/16 | 6/16 | 24.9 | 30.4 | 13.6 | 14.1 | 49.2 | 54.7 | 33.5 | 43.0 |
| Hawken | 6/17 | 6/17 | 22.7 | 23.6 | 14.3 | 14.7 | 48.0 | 52.5 | 30.5 | 38.9 |
| Ideal | 6/22 | 6/22 | 24.3 | 27.3 | 14.0 | 12.9 | 49.1 | 54.7 | 34.7 | 48.3 |
| Jerry | 6/25 | 6/24 | 26.1 | 28.9 | 15.0 | 14.6 | 52.1 | 54.2 | 31.7 | 30.9 |
| Lyman | 6/18 | 6/17 | 26.1 | 28.6 | 14.1 | 14.2 | 52.5 | 56.2 | 31.8 | 46.1 |
| Millennium | 6/23 | 6/23 | 23.0 | 27.8 | 14.0 | 14.1 | 50.5 | 54.2 | 30.2 | 43.8 |
| Overland | 6/18 | 6/18 | 23.3 | 26.1 | 13.6 | 14.2 | 51.6 | 54.7 | 39.6 | 49.7 |
| Peregrine | 6/24 | 6/23 | 22.8 | 26.5 | 13.6 | 13.2 | 51.7 | 54.5 | 33.3 | 45.7 |
| Striker | 6/23 | 6/23 | 20.5 | 23.2 | 14.3 | 15.0 | 49.5 | 53.8 | 24.9 | 37.2 |
| SY Wolf | 6/17 | 6/17 | 23.1 | 27.8 | 13.5 | 13.7 | 47.9 | 51.2 | 32.2 | 40.7 |
| WB Matlock | 6/24 | 6/24 | 28.2 | 27.7 | 14.6 | 14.5 | 51.6 | 56.4 | 35.8 | 43.6 |
| Wesley | 6/17 | 6/18 | 22.5 | 26.1 | 14.6 | 15.0 | 44.6 | 49.2 | 24.4 | 34.1 |
| Yellowstone | 6/25 | 6/25 | 22.2 | 22.6 | 14.0 | 14.4 | 48.7 | 44.6 | 21.3 | 32.5 |
| Mean | 6/21 | 6/20 | 23.6 | 26.2 | 14.1 | 14.2 | 49.5 | 53.2 | 30.9 | 41.4 |
| c.v. | 0.0 | | 11.1 | | 3.6 | | 2.6 | | 14.8 | |
| LSD 0.05 | 1.6 | | 4.4 | | 0.8 | | 2.2 | | 8.6 | |

1-Fungicides consisted of Stratego at 4 fl oz/acre at the 4 lf stage and Prosaro at 6.5 fl oz/acrea at Feekes 10.51

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Effect of winter wheat variety and fungicide¹ on lodging and disease development, Forman, ND, 2011.

| Varieties | Leaf Diseases | | Leaf Rust | | FHB Severity ² | | DON ³ | |
|-------------|---------------|------|-----------|------|---------------------------|------|------------------|------|
| | No Fung | Fung | No Fung | Fung | No Fung | Fung | No Fung | Fung |
| | (%) | | (%) | | (%) | | (ppm) | |
| Accipiter | 24.5 | 4.3 | 0.7 | 0.0 | 15.1 | 0.5 | 5.2 | 1.1 |
| Art | 16.2 | 3.8 | 0.0 | 0.0 | 2.3 | 1.2 | 3.3 | 1.7 |
| Boomer | 9.9 | 7.3 | 0.3 | 0.0 | 3.6 | 0.1 | 5.1 | 1.2 |
| CDC Falcon | 24.5 | 8.5 | 0.3 | 0.0 | 8.8 | 0.3 | 5.8 | 0.9 |
| Carter | 12.7 | 9.6 | 5.0 | 0.0 | 1.2 | 0.9 | 5.2 | 1.4 |
| Darrell | 10.3 | 6.1 | 0.7 | 0.0 | 4.3 | 0.5 | 5.1 | 1.2 |
| Decade | 29.6 | 3.6 | 19.0 | 0.0 | 10.2 | 2.0 | 8.6 | 5.6 |
| Expedition | 38.0 | 9.1 | 1.3 | 0.0 | 4.1 | 2.2 | 8.0 | 3.7 |
| Ideal | 13.1 | 6.3 | 0.0 | 0.0 | 6.2 | 2.2 | 8.3 | 2.3 |
| Hawken | 19.9 | 3.7 | 0.3 | 0.0 | 17.5 | 4.2 | 6.5 | 2.7 |
| Jerry | 9.9 | 3.9 | 1.0 | 0.0 | 1.0 | 0.4 | 3.3 | 1.3 |
| Lyman | 20.9 | 4.5 | 0.0 | 0.0 | 2.7 | 0.5 | 2.6 | 1.0 |
| Millennium | 12.6 | 7.9 | 0.7 | 0.0 | 4.6 | 0.2 | 6.6 | 2.3 |
| Overland | 26.0 | 4.9 | 0.3 | 0.0 | 2.2 | 0.6 | 3.9 | 1.4 |
| Peregrine | 4.9 | 1.3 | 0.3 | 0.0 | 2.0 | 0.1 | 4.3 | 1.0 |
| Striker | 17.3 | 7.2 | 0.0 | 0.0 | 2.9 | 0.5 | 5.9 | 0.7 |
| SY Wolf | 9.6 | 2.9 | 0.0 | 0.0 | 11.9 | 2.5 | 6.5 | 2.5 |
| WB Matlock | 10.9 | 10.7 | 1.0 | 0.0 | 3.9 | 0.1 | 2.8 | 0.8 |
| Wesley | 23.9 | 15.7 | 0.0 | 0.0 | 13.1 | 4.6 | 8.1 | 3.4 |
| Yellowstone | 33.0 | 11.1 | 1.7 | 0.0 | 8.1 | 1.4 | 14.5 | 1.9 |
| Mean | 18.4 | 6.6 | 1.6 | 0.0 | 6.3 | 1.2 | 6.0 | 1.9 |
| c.v. | 66.7 | | 526.0 | | 91.0 | | 34.8 | |
| LSD 0.05 | 13.4 | | 6.9 | | 5.5 | | 2.2 | |

1-Fungicides consisted of Stratego at 4 fl oz/acre at the 4 lf stage and Prosaro at 6.5 fl oz/acre at Feekes 10.51

2- FHB Field Severity = Fusarium Head Blight severity (percent heads infected by the percent of spikelets infected).

3- DON = deoxynivalenol or Vomitoxin which is produced by the Fusarium fungus that causes FHB.