

| Hard Red Spring Wheat - Irrigated, Fungicide | | | | | | Carrington | | | |
|--|----------|----------|---------------|---------------|--------------|-------------|-------------|---------|---------|
| Treatment | Scab inc | Scab sev | Scab plot sev | Flag leaf dis | Plant Height | Grain yield | Test Weight | 250 KWT | Protein |
| | (%) | (%) | (%) | (%) | (cm) | (bu/A) | (lb/bu) | (g) | (%) |
| Ada | 30 | 19 | 6 | 9 | 84.9 | 79.7 | 60.1 | 8.56 | 14.7 |
| Alsen | 31 | 26 | 9 | 3 | 89.4 | 66.2 | 59.9 | 8.23 | 15.3 |
| Bakker Gold | 16 | 19 | 4 | 8 | 94.0 | 70.7 | 57.6 | 8.01 | 14.0 |
| Bigg Red | 23 | 19 | 4 | 6 | 97.1 | 67.5 | 59.1 | 8.43 | 14.7 |
| Briggs | 35 | 39 | 14 | 4 | 88.8 | 78.1 | 60.1 | 8.95 | 15.1 |
| Dapps | 28 | 26 | 7 | 4 | 97.8 | 69.9 | 58.4 | 8.83 | 16.2 |
| Fireball | 20 | 14 | 3 | 8 | 84.3 | 64.3 | 57.3 | 7.15 | 15.7 |
| Freyr | 24 | 18 | 5 | 13 | 86.8 | 71.1 | 58.7 | 8.06 | 14.6 |
| Glenn | 23 | 18 | 5 | 6 | 94.8 | 79.4 | 62.5 | 8.80 | 15.4 |
| Granger | 38 | 29 | 10 | 12 | 91.9 | 66.3 | 58.7 | 9.79 | 15.3 |
| Hanna | 22 | 16 | 4 | 7 | 97.0 | 73.2 | 59.3 | 9.04 | 15.1 |
| Howard | 44 | 16 | 8 | 6 | 89.6 | 83.2 | 60.0 | 8.49 | 14.7 |
| Dylan (KW175) | 32 | 21 | 6 | 9 | 91.1 | 74.8 | 60.2 | 9.76 | 15.1 |
| Kelby | 47 | 24 | 11 | 12 | 80.5 | 68.8 | 59.0 | 7.83 | 15.3 |
| Knudson | 35 | 27 | 10 | 10 | 88.3 | 77.7 | 59.2 | 8.59 | 14.1 |
| Oklee | 33 | 25 | 9 | 7 | 88.9 | 68.3 | 60.5 | 9.02 | 15.5 |
| Polaris | 23 | 21 | 5 | 5 | 94.0 | 69.9 | 58.8 | 7.76 | 14.1 |
| Rush | 38 | 22 | 9 | 12 | 86.9 | 61.7 | 60.2 | 8.13 | 15.2 |
| Steele-ND | 37 | 29 | 11 | 4 | 90.3 | 82.2 | 59.4 | 8.65 | 14.8 |
| Traverse | 43 | 24 | 11 | 6 | 90.6 | 85.8 | 57.5 | 8.53 | 14.4 |
| Trooper | 41 | 24 | 11 | 9 | 81.8 | 77.8 | 60.5 | 9.62 | 14.5 |
| LSD (0.05) | 10 | NS | 5 | 5 | 3.0 | 5.5 | 1 | 0.44 | 0.3 |
| Fungicide | 33 | 21 | 7 | 8 | 89.9 | 74.3 | 59.5 | 8.60 | 14.9 |
| untreated | 32 | 23 | 8 | 7 | 90.1 | 73.3 | 59.4 | 8.60 | 15.0 |
| mean | 32 | 22 | 8 | 7 | 90 | 73.8 | 59.4 | 8.60 | 14.9 |
| LSD (0.05) | NS | NS | NS | NS | NS | NS | NS | NS | 0.1 |

The irrigated trial was planted at 1.2 million pure live seeds/acre (A) on May 9 on soybean ground (supplemental wheat straw spread after planting) at the NDSU Carrington Research Extension Center. Experimental design was a randomized complete block with a factorial arrangement and four replications.

Stratego at 5 fl oz/A was applied to wheat at Feekes 2 to 5 stages and Tilt at 4 fl oz/A plus NIS (Induce) at 0.25% v/v was applied at Feekes 9 with a hand-boom plot sprayer equipped with 80015 flat fan nozzles delivering 17.5 gal/A at 40 psi. Folicur at 4 fl oz/A plus NIS (Induce) at 0.125% v/v was applied at Feekes 10.5.1 with TJ60 8002VS nozzles delivering 14 gpa at 35 psi. Flag leaf disease was visually evaluated on July 21 and Fusarium head blight (scab) was evaluated on July 26 at the soft-dough stage. The trial was harvested with a plot combine on August 15.