

Wheat Response to Early-season Foliar Fungicide, Wishek, 2005

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The objective of this study was to measure HRS wheat response to early-season foliar fungicide. Experimental design was a randomized complete block with four replications. The dryland HRS wheat variety trial was direct-seeded into 2004 wheat stubble at 1.2 million PLS/A on April 20 at the NDSU Carrington Research Extension Center Tri-county trial site near Wishek. Folicur at 2 fl oz/A + NIS at 0.25% v/v was applied on June 17 to two of four reps of the trial across 20 HRS varieties in the 4- to 6-leaf stage with a tractor-mounted sprayer with 8002VS flat-fan nozzles delivering 14.4 gal/A at 30 psi with 72 F, 74% RH, and 16 mph wind. The trial was harvested with a plot combine on August 12.

Flag leaf disease was reduced with fungicide across varieties (table). Grain yield was 49.3 bushels/A compared to 44.7 bu/A with the untreated check. Test weight also tended to improve with the early-season application of fungicide.

Table.

Trt No.	Treatment ¹ Name	Flag Leaf Disease %	Yield bu/A	Test Weight lb/bu	Protein %
1	Fungicide	35.9	49.3	57.1	15.9
2	untreated check	62.5	44.7	56.5	15.7

LSD (0.05)

¹Folicur at 2 fl oz/A + NIS at 0.25% v/v applied at 4- to 6-leaf