

## Barley response to early-season foliar fungicide, Wishek, 2007

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The objective of this study was to measure barley response to early-season foliar fungicide. The barley variety trial was direct seeded at 1 million PLS/A on April 23 on fallow ground (2005 sunflower) at the NDSU Carrington Research Extension Center Tri-County off-station trial site near Wishek. Headline at 3 fl oz/A + NIS at 0.125% v/v was applied on May 31 to two of four replications of the trial across 10 varieties in the 6-leaf stage using a tractor-mounted sprayer with 8002 flat-fan nozzles delivering 12 gal/A at 30 psi. The trial was harvested with a plot combine on July 29.

Barley test weight increased while seed yield and protein did not increase with fungicide compared to the untreated check (Table). Also, heading date was delayed 2 days with fungicide.

**Table. Barley response to early-season fungicide, Wishek, 2007.**

Treatment <sup>1</sup>	Heading Date	Yield	Test Weight	Protein	Plump Kernel	Thin Kernel
	Jday	bu/A	lb/bu	%	%	%
fungicide	173	77.5	47.8	13.1	83.9	2.2
untreated check	171	83.4	47.2	13.9	80.3	2.9
mean	172	80.4	47.5	13.5	82.10	2.5
C.V. (%)	0.6	10.9	1.9	3.5	5.7	44.3
LSD (0.05)	1	5.8	0.6	0.3	3.1	NS

<sup>1</sup>Fungicide=Headline at 3 fl oz/A + NIS at 0.125% v/v to barley in the Feekes 7 stage.