

Wheat Fusarium Head Blight Fungicide Timing

Trial ID: 2018-WFHB01 – R.M. of Morris

Objective: Quantify the impact of fusarium head blight on the quality of harvested grain by comparing the farmers normal fungicide application at recommended rate and timing to a fungicide application 3 to 5 days later.

TRIAL INFORMATION	
Treatment	Rec'd timing vs. 3-5 days later vs. Untreated
Rural Municipality	Morris
Previous Crop	Soybean
Soil Texture	Clay
Tillage	Conventional
Seeding Date	April 26, 2018
Variety	Rowyn
Row Spacing	7.5"
Seeding Rate	175 lbs/ac
Fungicide Product	Caramba
Rec'd App Date	June 25, 2018
Rec'd App Timing	20% flower
3-5 Day Later App Date	June 27, 2018
Harvest Date	August 10, 2018

PRECIPITATION†				
	May	June	July	Aug
Rainfall	28	85	38	27
Normal	54	86	72	65

† Growing season precipitation (mm)

WHEAT QUALITY				
	Protein	Don	Test Weight	Falling Number
Rec'd Timing	14.4	<0.3	404	>360
3-5 Days Later	14.5	<0.3	406	>360
Untreated	14.5	<0.3	403	>360

OVERALL YIELD	
	Mean (bu/ac)
Rec'd Timing	83.7 ab*
3-5 Days Later	84.6 a
Untreated	80.8 b
P-Value	0.0382
CV	2.8%
Significance	Yes

* Means followed by the same letter are not significantly different at P=0.05

Summary: There was a significant yield difference between a single application of fungicide at the late timing compared to an untreated check; however, there was no significant yield difference between the recommended application timing and the late and untreated check. Wheat quality was consistent between all treatments receiving a #1 grade for CPSR.

