

**North Central Research Extension Center—Minot  
2010 Bayer Crop Science HRSW Fungicide Efficacy Trial**

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**Trial information**

- Design: RCB with four replicates
- Plot size: 10' x 18'
- Planting Date/Rate/Variety: May 13, 1.3 M PLS per acre, RB07
- Previous Crop/Tillage: Wheat/Fall tilled with chisel plow spikes
- Seeding System: air hoe drill on 9 inch spacing
- Fertility: 217 lb/acre fall applied urea
- Treatment Application Date: 4-5 leaf on June 15, flag leaf on June 30 , early flower on July 7
- Application Equipment: CO<sub>2</sub> pressurized hand boom with 8001 flat fans @ 40 psi and 10 GPA for 4-5 leaf and flag CO<sub>2</sub> pressurized hand boom with 8002 twin jets @ 40 psi and 20 GPA for early flower
- Weed Control: 1.7 pt/acre Wolverine applied June 16 (not tank mixed with fungicide)
- Harvest Date: September 20

Treatment	Timing	Rate fl oz/A	Leaf Disease <sup>1</sup>		Mid Canopy Leaf Disease <sup>1</sup>	Flag Leaf Disease <sup>1</sup>		FHB <sup>2</sup> Incidence		FHB Head Severity <sup>2</sup>		FHB Field Severity <sup>2</sup>		Test Weight Protein lb/bu %	Yield bu/A
			30-Jun	3-Aug		3-Aug	3-Aug	3-Aug	3-Aug	3-Aug	3-Aug				
Untreated	--	--	28.8	72.5	91.3	72.5	13.8	10.9	1.6	57.1	13.7	46.1			
Stratego 4-5 leaf		4.0	17.5	66.3	85.0	66.3	18.1	10.1	1.8	57.5	13.6	46.2			
Stratego flag leaf		8.0	22.5	57.5	81.3	57.5	16.9	9.6	1.7	58.0	14.4	53.7			
Prosaro + 0.25% NIS flag leaf		6.5	26.3	46.3	71.3	46.3	10.0	9.8	1.1	58.0	14.5	57.1			
Prosaro + 0.25% NIS early flower		6.5	26.3	21.3	43.8	21.3	11.3	5.5	0.8	58.3	14.6	58.8			
Stratego 4-5 leaf		4.0													
Prosaro + 0.25% NIS early flower		6.5	16.3	13.8	40.0	13.8	13.8	8.4	1.2	58.4	14.4	57.6			
LSD 5%	--	--	4.4	6.4	10.2	6.4	NS	NS	NS	0.5	NS	10.3			
C.V.%	--	--	14.1	9.8	10.6	9.8	30.6	25.6	36.4	0.6	4.4	13.3			
Mean	--	--	21.4	44.2	65.8	44.2	13.8	9.0	1.3	57.9	14.1	52.3			

Spring soil test results (4/26/2010 sampling date): N= 143 lb/a (0-24<sup>th</sup>), P = 23ppm (0-6<sup>th</sup>), K = 440 ppm (0-6<sup>th</sup>), S = 46 lb/a (0-24<sup>th</sup>), OM = 5.6%.

<sup>1</sup> Leaf disease ratings based on visual evaluation of disease severity in the plot.

<sup>2</sup> Fusarium head blight (FHB) ratings based on 40 heads sampled per plot. Incidence = percent exhibiting symptoms, Head severity = average percent affected in symptomatic heads, Field severity = percent incidence x percent head severity.