

**North Central Research Extension Center—Minot  
2010 BASF HRSW Fungicide Efficacy Trial**

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**Trial information**

- Design: RCB with four replicates
- Plot size: 10' x 18'
- Planting Date/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 C0<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 as a tank mix with 4-5 leaf fungicide treatments
- Harvest Date: September 20

Treatment	Timing	Rate fl oz/A	Mid Canopy			FHB		FHB Field Severity <sup>2</sup>	Weight lb/bu	Protein %	Yield bu/A
			Leaf Disease <sup>1</sup>	Leaf Disease <sup>1</sup>	Flag Leaf Disease <sup>1</sup>	FHB Incidence <sup>2</sup>	Head Severity <sup>2</sup>				
			2-Jul	3-Aug	3-Aug	6-Aug	6-Aug				
Untreated	--	--	27.5	87.5	73.8	3.8	5.3	0.3	57.5	13.8	48.9
Headline	4-5 leaf	3.0	15.0	73.8	55.0	10.0	8.9	1.0	57.6	13.8	55.9
Headline SC	4-5 leaf	3.0	16.3	66.3	55.0	6.3	6.2	0.5	57.5	14.0	55.1
Headline	Flag leaf	6.0	21.3	51.3	36.3	7.5	8.2	0.7	57.9	14.1	55.7
Twinline	Flag leaf	7.0	26.3	62.5	45.0	8.1	10.0	0.8	57.7	14.3	55.7
Caramba	early flower	13.5	27.5	50.0	12.5	7.5	9.2	0.7	57.9	14.4	60.5
Headline	4-5 leaf	3.0									
Headline	Flag leaf	6.0	12.5	37.5	33.8	6.9	7.9	0.6	57.6	14.7	60.7
Headline	4-5 leaf	3.0									
Twinline	Flag leaf	7.0	12.5	40.0	31.3	11.9	8.7	1.0	57.5	14.3	60.7
Headline	4-5 leaf	3.0									
Caramba	early flower	13.5	15.0	33.8	15.0	7.5	8.4	0.8	57.8	14.0	62.5
Headline	4-5 leaf	3.0									
Twinline	Flag leaf	7.0	13.8	25.0	11.3	5.6	7.6	0.6	57.9	13.7	63.3
Caramba	early flower	13.5	5.2	14.7	6.8	NS	NS	NS	0.3	NS	4.8
LSD 5%	--	--	19.3	19.2	12.6	64.5	44.8	72.1	0.3	4.6	5.7
C.V.%	--	--	18.8	52.8	36.9	7.5	8.0	0.7	57.7	14.1	57.9
Mean	--	--									

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.