

**North Central Research Extension Center—Minot
2010 Bayer Crop Science HRSW Integrated Product Portfolio Trial**

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Trial information

- Design: RCB with split-plot arrangement and four replicates
- Plot size: 10' x 18'
- Planting Date/Rate: April 23rd, 1.5 M PLS per acre
- Previous Crop/Tillage: Wheat/Failed tilled with chisel plow spikes
- Seeding System: Plot planter with off-set double disc openers on 6 inch spacing
- Fertility: 217 lb/acre fall spread urea
- Fungicide Treatment Dates: 4-5 leaf on June 5, early flower on July 1
- Application Equipment: CO₂ pressurized hand boom with 8001 flat fans @ 40 psi and 10 GPA for 4-5 leaf
CO₂ pressurized hand boom with 8002 twin jets @ 40 psi and 20 GPA for early flower
- Weed Control: 1.7 pt/acre Wolverine applied June 5 (Tank-mix with 4-5 leaf treatments)
- Harvest Date: August 24

Treatment	Timing	Rate fl oz/A	Plant Stand 18-May plant/ft ²	Plant Vigor ¹ 24-May	Crop Injury 16-Jun	Leaf Disease ² 17-Jun	Mid Canopy Leaf Disease 13-Jul	Flag Leaf Disease 13-Jul	FHB Incidence ³ 6-Aug	Wheat			
										Stem Maggot #/plot 15-Jul	Test Weight lb/bu	Protein %	Yield bu/A
Untreated	--	--	22.0	7.0	13.8	21.3	48.8	17.5	9.0	2.8	60.2	13.0	64.2
Proceed MD	seed treat	7.1	21.9	7.3	11.3	20.0	47.5	21.3	9.8	NA	60.2	13.0	62.4
Proceed MD	seed treat	7.1											
Stratego	4-5 leaf	4.0											
Prosaro ⁴	early flower	6.5	25.2	7.8	13.8	11.9	17.5	7.5	5.8	NA	61.3	13.3	70.2
Proceed MD	seed treat	7.1											
Prosaro	early flower	6.5	23.5	7.5	11.3	17.5	23.8	7.5	8.5	NA	61.2	13.0	67.8
Proceed MD	seed treat	7.1											
Stratego	4-5 leaf	4.0	24.1	7.3	8.8	11.9	35.0	20.0	8.8	NA	60.9	13.2	64.8
Proceed MD	seed treat	7.1											
Stratego	4-5 leaf	4.0											
Baythroid XL	4-5 leaf	1.6											
Prosaro	heading	6.5	24.6	7.8	10.6	9.4	17.5	7.5	7.5	0.0	61.1	13.1	69.5
Proceed MD	seed treat	7.1											
Stratego	4-5 leaf	4.0	27.7	7.0	11.9	9.4	17.5	6.3	6.0	1.3	61.3	13.2	69.6
Baythroid XL	early flower	1.6											
Prosaro	early flower	6.5	NS	NS	NS	4.9	6.0	3.8	NS	1.9	0.4	NS	NS
LSD 5%	--	--	14.9	10.8	28.1	22.7	13.6	20.6	41.8	80.0	0.5	1.5	9.9
C.V.%	--	--	24.1	7.4	11.6	14.5	29.6	12.5	7.9	1.3	60.9	13.1	66.9
Mean	--	--											

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

¹ Rated visually with 0 being dead

² Leaf disease ratings based on visual evaluation of disease severity in the plot

³ 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

⁴ NIS at 0.25% v/v included with Posaro