

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

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Trial information

- Design: RCB with four replicates
- Plot size: 10' x 18'
- Planting Date/Rate/Variety: April 28, 1.2 M PLS per acre, Tradition
- Previous Crop/Tillage: Wheat/Fall tilled with chisel plow spikes
- Seeding System: Plot planter with off-set double disc openers on 6 inch spacing
- Fertility: 217 lb/acre fall applied urea
- Treatment Application Date: 4-5 leaf on June 7, flag leaf on June 23 , early flower on June 30
- Application Equipment: CO₂ pressurized hand boom with 8001 flat fans @ 40 psi and 10 GPA for 4-5 leaf and flag
CO₂ pressurized hand boom with 8002 twin jets @ 40 psi and 20 GPA for heading
- Weed Control: 1.7 pt/acre Wolverine applied June 7 (not tank mixed with fungicide)
- Harvest Date: August 12

Treatment	Timing	Rate fl oz/A	Leaf Disease		Mid Canopy Disease		Flag Disease		Test Weight lb/bu	Seed		Yield bu/A
			18-Jun	13-Jul	13-Jul	13-Jul	28-Jul	>6/64"		<5/64"	Protein %	
Untreated	--	--	16.7	45.0	17.5	57.5	57.5	46.8	90.7	8.5	13.5	94.0
Stratego	5 leaf	4.0	10.8	35.0	15.8	43.3	43.3	47.2	92.2	7.3	13.6	102.0
Proline SC ²	flag	3.0	16.7	23.3	10.0	29.2	29.2	47.9	94.5	5.3	13.4	104.3
Prosaro ²	heading	6.5	15.0	30.8	10.0	22.5	22.5	48.1	94.4	5.3	13.5	100.8
Stratego + Prosaro ²	5 leaf/heading	4.0+6.5	9.2	20.8	10.0	15.8	15.8	47.9	94.4	5.2	13.4	107.9
LSD 5%	--	--	3.6	5.3	1.9	6.7	6.7	0.8	1.8	1.6	NS	NS
C.V.%	--	--	25.6	15.2	12.6	17.5	17.5	1.4	1.7	21.9	1.8	9.2
Mean	--	--	12.0	29.6	12.5	32.4	32.4	47.6	91.2	6.4	13.5	101.1

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 Primarily net blotch with some septoria on July 28th rating.

² NIS at 0.25% v/v included with fungicide.