

**North Central Research Extension Center—Minot
2010 Barley Fungicide X Variety Trial**

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Trial information

- Design: RCB with split-plot arrangement and four replicates
- Plot size: 5' x 18'
- Planting Date/Rate: April 23rd, 1.2 M PLS per acre
- 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-spread urea
- Fungicide Treatments: 2 oz/acre Tilt applied with herbicide to 4-5 leaf wheat on June 7
6.5 oz/acre Prosaro + .25% v/v. NIS applied on June 30 when barley was 50% headed
- 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 50% heading
- Weed Control: 1.7 pt/acre Wolverine applied June 7
- **Harvest Date: August 24**

Variety	Leaf Disease ¹		Flag Leaf Disease		Lodge ²		Test Weight		Protein		Yield		Plump	
	----%----		----%----		----0-9----		----lb/bu----		----%----		bu/A		%>6/64"	
	21-Jun		28-Jul											
	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.	Fung.	No Fung.
Celebration	10.0	16.3	20.0	56.3	1.5	1.3	46.6	45.4	14.3	13.9	121.4	101.5	94.7	89.0
Conlon	11.3	12.5	25.0	53.8	2.5	2.0	49.4	47.8	12.8	12.6	107.9	83.3	96.1	91.0
CDC Copeland	15.0	22.5	20.0	56.3	3.0	2.8	48.4	46.2	12.3	12.9	105.5	94.2	95.0	90.1
Lacey	13.8	16.3	22.5	60.0	1.8	1.0	48.0	47.6	13.5	13.2	120.8	91.4	95.5	94.3
Pinnacle	25.0	31.3	22.5	71.3	2.5	1.8	48.2	47.0	11.7	11.7	117.8	98.9	97.4	95.6
Rasmusson	11.3	17.5	17.5	55.0	1.0	1.8	48.9	47.1	12.7	12.8	116.0	93.3	95.9	90.0
Stellar-ND	11.3	18.8	22.5	57.5	1.0	1.3	47.1	45.1	12.7	12.8	110.7	86.1	97.1	93.2
Tradition	12.5	16.3	17.5	56.3	1.0	1.0	48.3	46.9	12.9	13.1	120.8	92.1	95.9	93.3
LSD 5%	5.3		6.9		1.0		1.0		0.9		13.5		3.1	
C.V.%	22.6		12.2		39.7		1.5		5.0		9.1		2.3	
Mean	16.3		39.6		1.7		47.4		12.9		103.9		94.0	

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

² 0-9 with 0 = totally upright and 9 being flat.