



Western Wisconsin 2008 Corn Foliar Fungicide Trial Results

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Over the past three years there has been an increase in grower interest in the use of foliar fungicides on field corn. There has also been a lack of unbiased research evaluating the use of foliar fungicides on field corn.

To provide growers in Western Wisconsin with unbiased information on the impact of foliar fungicides on field corn UW Extension Agents in Western Wisconsin along with UW Extension IPM program coordinator and Plant Pathologist conducted several on farm trials in 2009 to help evaluate the efficacy of foliar fungicides on field corn. These efforts included both small plot replicated trials and large field sized strip trials where situations allowed. Three of the plots were unusable due to wildlife and weather damage.

Fungicide rates applied were recommended by manufacturer representatives as part of the protocol for the UW Extension state wide effort to evaluate the use of foliar fungicides on corn. All plots were sprayed at the R-1 stage of corn development, which is approximately 7 to 10 days after tasseling.

The following are a series of tables showing you the results from the plots that the weather, deer, crows and raccoons left alone for your information.

We hope that you find this information useful as you consider different management options for your upcoming crops.

The plots were all rated for foliar disease based on a percentage of the leaf tissue exhibiting disease pressure at the time of application and in early September. At the time of application disease ranged from zero to 2%, and in September disease pressure ranged from zero to 5 percent in most instances and with a few isolated spots of 10%. There was no statistical difference in disease pressure at any location.

The results in 2008 did not differ from the results we measured and observed in 2007. We intend to conduct trials of this type again in 2009.

Important note for correct interpretation of data: All data in a column followed by the same letter is not statistically different at the 90% confidence level than other data in that column followed by the same letter.

Small Scale Replicated Trials

Plot location: Cataract, Monroe County

Hybrid: Dairyland 9799

Treatment	Rate	Yield (bu./A)	Moisture (%)	# lodged stalks/30 plants
Untreated Check		136.08 a	16.7 a	4.0 a
Quilt	14 fl. oz/a	134.47 a	17.4 a	4.0 a
Stratego	10 fl. oz/a	137.92 a	16.5 a	3.0 a
Headline	6 fl. oz/a	132.53 a	17.0 a	3.0 a

Plot location: Durand, Pepin County

Hybrid: Pioneer 37Y13

Treatment	Rate	Yield (bu./A)	Moisture (%)	# lodged stalks/30 plants
Untreated Check		227.4 a	22.8 a	19.0 b
Quilt	14 fl. oz/ a	216.1 ab	22.2 a	22.0 ab
Stratego	10 fl. oz/ a	211.7 ab	23.9 a	20.3 ab
Headline	6 fl. oz/ a	198.5 b	23.0 a	24.0 a

Plot location: Wilton, Monroe County

Hybrid: Croplan 3724

Treatment	Rate	Yield ^a (bu./A)	Moisture (%) ^a	# lodged stalks/30 plants ^a
Untreated Check	-	183.12 a	25.7 a	6.7 a
Quilt	14 fl. oz/a	186.35 a	24.4 a	9.0 a
Stratego	10 fl. oz/a	184.37 a	25.2 a	10.7 a
Headline	6 fl. oz/a	191.04 a	25.2 a	6.3 a

Plot location: Eleva, Trempealeau County Hybrid: DeKalb 46-60

Treatment	Rate	Yield ^a (bu./A)	Moisture (%) ^a	# lodged stalks/30 plants ^a
Untreated Check	-	137.0 a	19.2 a	15.3 a
Quilt	14 fl. oz./a	106.7 a	21.3 a	19.7 a
Stratego	10 fl. oz/a	134.6 a	20.2 a	16.7 a
Headline	6 fl. oz/a	122.8 a	21.0 a	22.7 a

Plot location: Cashton, Monroe County

Hybrid: Croplan

Treatment	Rate	Yield ^a	Moisture (%) ^a	# lodged stalks/30 plants ^a
Untreated Check	-	183.8 a	26.5 a	3.5 b
Quilt	14 fl. oz./a	185.6 a	22.4 a	9.0 a
Stratego	10 fl. oz/a	190.1 a	24.5 a	5.5 b
Headline	6 fl. oz/a	179.1 a	22.6 a	5.5 b

Plot location: Mindoro, La Crosse County

Hybrid: Midwest 69704

Treatment	Rate	Yield ^a	Moisture (%) ^a	# lodged stalks/30 plants ^a
Untreated Check	-	216.68 a	21.6 a	6.3 a
Quilt	14 fl. oz/a	224.88 a	20.4 a	6.7 a
Stratego	10 fl. oz/a	217.43 a	21.2 a	5.3 a
Headline	6 fl oz/a	216.68 a	21.6 a	2.3 b

Large Scale Strip Trials

Plot location: Chippewa County

Hybrid: Renk RK 43 Replications: 3

Treatment	Rate	Yield ^a	Moisture (%) ^a	# lodged stalks/30 plants ^a
Untreated Check	-	187.3 a	Not reported	3.0 a
Headline	12 fl oz/a	185.7 a		3.8 a

Plot location: La Crosse County 1

Hybrid: Croplan 388 Replications: 2

Treatment	Rate	Yield ^a	Moisture (%) ^a	# lodged stalks/30 plants ^a
Untreated Check	-	146.3 a	16.0 a	11.0 a
Headline	6 fl oz/a	160.2 a	16.4 a	9.0 a

Plot location: La Crosse County 2

Hybrid: Pioneer 37Y13 Replications: ?

Treatment	Rate	Yield ^a	Moisture (%) ^a	# lodged stalks/30 plants ^a
Untreated Check	-	217.5 a	21.9 a	9.5 a
Headline	6 fl oz/a	228.2 a	21.8 a	5.5 a