

Field Trial Report

2011 On-Farm Fungicide Response Study



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FIELD INFORMATION

Soil type, seed variety and management practices: Variable

Participating growers: 6 Counties represented: Berks, Dauphin, Franklin, Lancaster, York

Design: Paired comparison trial 20 reps

TREATMENTS EVALUATED

1 Untreated

2. Stratego® YLD @ R3 at 4.65 oz./acre applied at R3

Level of disease was evaluated at three selected farms. Each plot was rated for % trifoliate leaf area affected in the lower, middle and upper canopies. Predominant diseases observed included Septoria brown spot in the lower canopy and Cercospora leaf blight in the upper canopy.

COMBINED RESULTS

Treatment	Lower Canopy	Mid Canopy	Upper Canopy	Combined	Yield
	Disease	Disease	Disease	Disease	
		% leaf area affected			Bu/ac
Control:	41.4	20.7	24.2	28.8	62.5
Fungicide:	12.1	7.1	20.7	13.3	65.2
Significance	sig	ns	ns	sig	sig

Notes: Conditions were dry in Late July and August. Disease and insect pressure was low

Yield in the fungicide treated plots was significantly higher than that in the untreated plots. This is likely due to some control of Septoria leaf spot in the lower plant canopy.





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INDIVIDUAL SITE RESPONSES

Location	Treatment	Combined Disease	Yield
Berks	Control:		66.75
	Fungicide:		70.5
	Significance		yes
Dauphin	Control:		46.1
	Fungicide:	-	51.2
			Yes
Franklin	Control:	17.2	68.6
	Fungicide:	5.5	69.0
	Significance	yes	no
Lancaster 1	Control:		81.6
	Fungicide:	-	82.7
	Significance		no
Lancaster 2	Control:		62.0
	Fungicide:		61.3
	Significance		no
York 1	Control:	37.5	57.1
	Fungicide:	19.1	60.8
	Significance	yes	no
York 2	Control:		55.7
	Fungicide:		58.7
	Significance		no

Yield responses varied across the trials depending on disease severity, growing conditions and varieties.

