

Project Title: Fungicide Evaluation in Winter Wheat – 2013

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Objective: To evaluate fungicides for control of stripe rust in winter wheat.

Results:

Six fungicide treatments were evaluated for control of stripe rust in winter wheat. The experimental design was a randomized complete block with three replications. Norris winter wheat was planted on September 20, 2012 with a no-till drill into a minimum-till seedbed. Applications were made at jointing (J) on May 8 and at early boot (B) on May 24. Early boot treatments were reapplied on June 3.

Stratego applied at jointing failed to provide acceptable control of stripe rust and produced yields comparable to the check. Excellent control of stripe rust was obtained with the early boot treatments, resulting in a 10 bu/A yield advantage compared to the check. Stripe rust control and yield were comparable among the early boot treatments. No significant differences were observed in percent protein, test weight or falling numbers.

Table 1. Material and Methods - Fungicide evaluation in winter wheat - 2013

Seeding Date:	9/20/12	Fertilizer:	10-35-90-8.5-0.85/ TD 60-0-0
Julian Date:	264	Herbicide:	04/26/13
Seeding Rate:	80 lb/A		Rimfire 3 OZ/A, Affinity TankMix
Previous Crop:	Peas		0.6 FL OZ/A, NIS 0.25%
Tillage:	Minimal till	Insecticide:	none
Irrigation:	None	Harvest Date:	7/31/13
Soil Type:	Kalispell vfst	Julian Date:	212
Soil Test:	79.5-40-380		

Table 2. Fungicide evaluation for crop tolerance and stripe rust control in winter wheat - 2013

Treatment	Rate	Timing	Crop injury		Stripe rust		YLD bu/A	PRO %	TWT lb/bu	FN sec
			6/3 —%—	6/14	7/4 —%—	7/15				
1 Check			0.0	0.0	53.3	74.3	89.7	12.4	61.0	342.4
2 Stratego	4 FL OZ/A	J	0.0	0.0	55.0	68.7	94.1	12.2	61.9	345.7
3 Stratego YLD Induce 90 SL	4 FL OZ/A 0.125 % V/V	B	0.0	0.0	16.7	33.3	101.8	12.1	63.1	344.2
4 Absolute 500 SC Induce 90 SL	4 FL OZ/A 0.125 % V/V	B	0.0	0.0	11.7	16.7	99.8	12.0	62.8	341.2
5 Prosaro 421 SC Induce 90 SL	5 FL OZ/A 0.125 % V/V	B	0.0	0.0	11.7	36.0	103.1	12.4	62.5	342.7
6 Prosaro 421 SC Induce 90 SL	6.5 FL OZ/A 0.125 % V/V	B	0.0	0.0	10.0	13.3	101.1	12.6	62.5	327.0
7 Tilt	4 FL OZ/A	B	0.0	0.0	10.0	18.3	101.5	12.3	62.6	339.0
Mean			0.0	0.0	24.1	37.2	98.7	12.3	62.3	340.3
CV			0.0	0.0	72.8	57.0	4.7	3.3	1.2	3.0
LSD			0.0	0.0	31.2	37.7	8.3	0.7	1.3	18.2
PR>F			1.000	1.000	0.0166	0.0173	0.0376	0.5718	0.0634	0.4025

J: jointing, B: early boot, YLD: yield, PRO: protein, TWT: test weight, FN: falling number