Project Title:	Fungicide Evaluation in Spring Wheat - 2013
Project Leader:	Bob Stougaard
Project Personnel:	Brooke Bohannon
Objective:	To evaluate the effects of fungicide and application timing on stripe rust control in spring wheat.

Results:

Seven fungicide treatments were evaluated for stripe rust control in spring wheat. The experimental design was a randomized complete block with three replications. The variety Hank was planted at a rate of 80 lb/A on April 16. Applications were made at the two tiller stage (2T) on May 31 and at the flag leaf stage (FL) on June 11.

Crop injury was minor with all treatments, ranging from 0.0% to 6.7% on June 7, and 0.0% to 5.0% on June 14 (Table 2). Significant differences were observed among fungicide treatments for the control of stripe rust. The flag leaf application timing provided the most complete control of stripe rust. Although percent stripe rust control differed between application timings, no significant differences were observed in yield, percent protein, test weight or falling numbers.

Summary:

These results confirm that early fungicide applications fail to provide effective disease control.

Seeding Date:	4/16/13	Fertilizer:	150-40-110-20
Julian Date:	106	Herbicide:	5/20/13
Seeding Rate:	80 lb/A		Affinity TankMix 0.6 OZ/A, MCPE
Previous Crop:	Barley		0.5 PT/A, Axial 16.4 FL OZ/A
Tillage:	Conventional	Insecticide:	6/27/13
Irrigation:	None		Warrior II 1.5 FL OZ/A
Soil Type:	Creston Sil	Harvest Date:	8/19/13
Soil Test:	151-10-278-58	Julian Date:	231

	~		•		Crop injury		SR	YLD	PRO	TWT	FN
					6/7	6/14	7/15				
Trea	atment	R	ate	Timing	9	%———	%	bu/A	%	lb/bu	sec
1	Check				3.3	0.0	93.0	82.6	13.5	56.3	293
2	Stratego	4	FL OZ/A	2Т	3.3	0.0	85.3	86.5	13.3	56.9	291
3	Quilt	13.7	FL OZ/A	2T	6.7	3.3	72.0	82.8	13.2	56.8	302
4	Prosaro 421 Induce 90	6.5 0.125	FL OZ/A % V/V	2Т	6.7	3.3	61.0	86.7	13.4	56.9	294
5	Stratego YLD Induce 90	4 0.125	FL OZ/A % V/V	2Т	0.0	0.0	65.3	92.5	13.3	57.7	276
6	Quilt	13.7	FL OZ/A	FL	3.3	1.7	6.7	98.9	13.8	58.1	294
7	Prosaro 421 Induce 90	6.5 0.125	FL OZ/A % V/V	FL	1.7	1.7	6.7	93.5	13.6	58.4	301
8	Stratego YLD Induce 90	4 0.125	FL OZ/A % V/V	FL	3.3	5.0	8.0	85.2	13.2	58.5	304
	Mean				3.5	1.9	49.8	88.6	13.4	57.5	294.4
	CV				152.5	158.0	16.9	8.1	3.0	1.6	7.0
	LSD				9.5	5.2	14.7	12.6	0.7	1.6	36.3
	PR>F				0.8012	0.3623	0.0001	0.1367	0.6278	0.0706	0.7937

Table 2. Fungicide evalution for crop tolerance and stripe rust control in spring wheat - 2013.

2T: two tiller, FL: flagleaf, SR: stripe rust, YLD: yield, PRO: protein, TWT: test weight, FN: falling number