U.S. Wheat and Barley Scab Initiative
FY02 Final Performance Report (approx. May 02 – April 03)
July 15, 2003

Cover Page

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Grant Number:	**59-0790-9-072**
Grant Title:	**Fusarium Head Blight Research**
FY02 ARS Award Amount:	**$ 9,756**

Project

Program Area	Project Title	USWBSI Recommended Amount
CBC	Control Wheat Scab with Improved Fungicide Application Technology.	$10,000
	Total Amount Recommended	**$10,000**

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Principal Investigator Date

Project 1: Control Wheat Scab with Improved Fungicide Application Technology.

1. What major problem or issue is being resolved and how are you resolving it?

The primary objective of this project is to evaluate the potential of adapting a low-volume, air-assisted, small droplet, orchard spraying technology to efficaciously apply fungicides to headed wheat and grasses.

1999, 2000, and 2001 field studies indicated equal or improved efficacy using a variety of modified fruit spraying technologies.

Three "commercial scale" field efficacy studies were conducted in Isabella County, MI during the 2002 production season. We worked with three commercial wheat growers to set up "side by side" efficacy studies comparing "unsprayed checks" with a standard boom sprayer and the two "prototype" sprayers.

2. What were the most significant accomplishments?

Due to 2002 weather conditions with very low FHB pressure there were no significant differences between any of the treatments and checks.

A video of the fungicide applications is available upon request.

Based on the discussion and planning conducted at the special Chemical Application Workshop (Feb '03 Minneapolis, MN) our 2003 field studies will be conducted in cooperation with the research team in North Dakota at the research station near Langdon. Our objective will be to continue field testing a low-volume, air-assisted, small droplet prototype spraying system specifically design for spraying wheat. Hope fully additional trials can be run to evaluate potential uses for spraying potatoes and sugar beets.

Include below a list of the publications, presentations, peer-reviewed articles, and non-peer reviewed articles written about your work that resulted from all of the projects included in the grant. Please reference each item using an accepted journal format. If you need more space, continue the list on the next page.

Currently no publications

Only presentations were to the FHB committees