

**U.S. Wheat and Barley Scab Initiative  
 FY01 Final Performance Report (approx. May 01 – April 02)  
 July 15, 2002**

**Cover Page**

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<b>Year:</b>	<b>FY2001 (approx. May 01 – April 02)</b>
<b>Grant Number:</b>	<b>59-0790-9-032</b>
<b>Grant Title:</b>	<b>Fusarium Head Blight Research</b>
<b>FY01 ARS Award Amount:</b>	<b>\$ 10,708</b>

**Project**

<b>Program Area</b>	<b>Project Title</b>	<b>Requested Amount</b>
Chem/Bio	Chemical management of Fusarium head blight (FHB): Uniform fungicide trial to identify safe products effective against FHB	\$ 10,000
	<b>Total Amount Requested</b>	<b>\$ 10,000</b>

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 Principal Investigator

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 Date

**Project 1: Chemical management of Fusarium head blight (FHB): Uniform fungicide trial to identify safe products effective against FHB**

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

Fusarium head blight is a major concern for most wheat growers in South Dakota. Few chemical controls are available and none of the products available in South Dakota have full Section 3 labeling from EPA for application to heading wheat. Our South Dakota studies were planted at several locations in SD to increase the chances of matching a favorable environment for disease at the most susceptible time of crop development.

Studies were initiated or continued in the 2001 growing season that address the efficacy of chemical fungicides and the relative efficacy of the most advanced biological control agents.

These studies address the identification of effective new fungicidal products and improved methods of application to optimize control. Studies were initiated on hard red winter wheat, hard red spring wheat, and biological control barley.

**2. What were the most significant accomplishments?**

Much less scab developed across most of South Dakota in 2001 than has been observed in many previous years. Two locations (HRWW – South Shore & Brookings) were lost due to poor winter survival and cheatgrass competition. Another location (HRSW – Brookings), was damaged by a drift of Roundup on the plot.

Due to a very hot and dry summer from about July 1, negligible scab developed on any of the plots in South Dakota.

Nonetheless, effective demonstrations and tours were conducted at three locations across the state. Growers are acquiring better basic knowledge of scab and its management through the efforts of this and other projects.

**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.**

**Posters –**

Draper, M.A. 2001. Report on the Fusarium head blight forum and progress against scab. Ag Horizons Conference, December 11, 2001, Pierre, SD.

Draper, M.A., Bleakley, B.H., Ruden, K.R., and Baye, N. 2001. Greenhouse screening of biological control agents for suppression of Fusarium head blight. National Fusarium Head Blight Forum, Proceedings, p. 48.

**Presentations -**

Draper, M.A. 2001. Managing scab and leaf disease in wheat. Brookings crops tour. June 25, 2001. Brookings, SD.

Draper, M.A. 2001. Managing scab and leaf disease in wheat. Brown County crops tour. July 10, 2001. Groton, SD.

Draper, M.A. 2002. Diseases in 2001: Same old same old... Wait, what's that?. SD AgriBusiness Association, Ag Expo January 17, 2002. Sioux Falls, SD.

Draper, M.A. 2002. Trying to get ahead of the game. Commercial pesticide applicator training session. January 23, 2002. Pierre, SD.

Draper, M.A. 2002. Trying to get ahead of the game. Commercial pesticide applicator training session. January 24, 2002. Rapid City, SD.

Draper, M.A. 2002. Trying to get ahead of the game. Commercial pesticide applicator training session. January 25, 2002. Mitchell, SD.

Draper, M.A. 2002. Trying to get ahead of the game. Commercial pesticide applicator training session. January 29, 2002. Aberdeen, SD.

Draper, M.A. 2002. Trying to get ahead of the game. Commercial pesticide applicator training session. January 30, 2002. Watertown, SD.

Draper, M.A. 2002. Trying to get ahead of the game. Commercial pesticide applicator training session. January 31, 2002. Brookings, SD.

Draper, M.A. 2002. Trying to get ahead of the game. Commercial pesticide applicator training session. February 1, 2002. Yankton, SD.

Draper, M.A. 2001. Trying to get ahead of the game. Commercial pesticide applicator training session. February 4, 2001. Sioux Falls, SD.

Draper, M.A. 2002. Disease control: Getting off the ground. Aerial Commercial pesticide applicator training session. February 19, 2002. Rapid City, SD.

Draper, M.A. 2002. Disease management in spring wheat. County crop clinic. February 13, 2002. Miller, SD.

Draper, M.A. 2002. Corn and wheat disease management. County crop clinic. February 13, 2002. Faulkton, SD.

Draper, M.A. 2002. Disease management in spring wheat. Dealer meeting. March 4, 2002. Leola, SD.

Draper, M.A. 2002. Disease management in cereals. County crop clinic. March 11, 2002. Onida, SD.