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

Project

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<tr>
<th>Program Area</th>
<th>Project Title</th>
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<tr>
<td>Chem/Bio</td>
<td>Chemical management of Fusarium head blight (FHB): Uniform fungicide trial to</td>
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Total Amount Requested $10,000

Principal Investigator __________________________ 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 it 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 –**


**Presentations -**


