

**USDA-ARS/  
U.S. Wheat and Barley Scab Initiative  
FY08 Final Performance Report (approx. May 08 – April 09)  
July 15, 2009**

**Cover Page**

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<b>Fiscal Year:</b>	2008
<b>USDA-ARS Agreement ID:</b>	59-0790-8-064
<b>USDA-ARS Agreement Title:</b>	Uniform Fungicide Trial for Fusarium Head Scab Control in Montana Spring Wheat.
<b>FY08 USDA-ARS Award Amount:</b>	\$ 5,681

**USWBSI Individual Project(s)**

<b>USWBSI Research Category*</b>	<b>Project Title</b>	<b>ARS Adjusted Award Amount</b>
MGMT	Uniform Fungicide Trial for Fusarium Head Scab Control in Montana Spring Wheat.	\$5,681
	<b>Total Award Amount</b>	<b>\$ 5,681</b>

\_\_\_\_\_  
Principal Investigator

\_\_\_\_\_  
Date

\* MGMT – FHB Management  
FSTU – Food Safety, Toxicology, & Utilization of Mycotoxin-contaminated Grain  
GDER – Gene Discovery & Engineering Resistance  
PBG – Pathogen Biology & Genetics  
BAR-CP – Barley Coordinated Project  
HWW-CP – Hard Winter Wheat Coordinated Project  
VDHR – Variety Development & Uniform Nurseries – Sub categories are below:  
    SPR – Spring Wheat Region  
    NWW – Northern Winter Wheat Region  
    SWW – Southern Sinter Wheat Region

**Project 1:** *Uniform Fungicide Trial for Fusarium Head Scab Control in Montana Spring Wheat.*

**1. What major problem or issue is being resolved relevant to Fusarium head blight (scab) and how are you resolving it?**

Fusarium head blight affects grower yields and seed quality in Montana. We are managing Fusarium head blight using variety tolerance, fungicide applications, and cultural methods including timing of irrigation.

**2. List the most important accomplishment and its impact (i.e. how is it being used) to minimize the threat of Fusarium head blight or to reduce mycotoxins. Complete both sections (repeat sections for each major accomplishment):**

**Accomplishment:**

No Fusarium head blight was established in these plots in 2008. Therefore, the most important accomplishment of this study was the lack of phytotoxicity of the fungicide products on wheat in Montana.

**Impact:**

Our involvement in the uniform fungicide trial has raised awareness of Fusarium head blight as an important disease in Montana.

**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.**

Burrows, M. 2008. Growers gain approval for fungicide to fight wheat and barley scab. Press release.

M. Burrows, A. Dyer, W. Grey. 2008. Fusarium head blight (scab of wheat and barley). MontGuide.

C.A. Bradley<sup>1\*</sup>, E. Adee<sup>1</sup>, S. Ebelhar<sup>1</sup>, B. Young<sup>2</sup>, M. Burrows<sup>3</sup>, M. McMullen<sup>4</sup>, J. Lukach<sup>5</sup>, L. Osborne<sup>6</sup>, K. Ruden<sup>6</sup>, L. Sweets<sup>7</sup>, and K. Wise<sup>8</sup>. 2008. Multi-State Uniform Fungicide Trials to Control Fusarium Head Blight and Deoxynivalenol. Scab Forum Proceedings paper

**If your FY08 USDA-ARS Grant contained a VDHR-related project, include below a list all germplasm or cultivars released with full or partial support of the USWBSI. List the release notice or publication. Briefly describe the level of FHB resistance. If this is not applicable (i.e. no VDHR-related project) to your FY08 grant, please insert 'Not Applicable' below.**

Not Applicable