

**USDA-ARS/
U.S. Wheat and Barley Scab Initiative
FY10 Final Performance Report
July 15, 2011**

Cover Page

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Fiscal Year:	FY10
USDA-ARS Agreement ID:	NA
USDA-ARS Agreement Title:	Maintain and Improve the U.S. Wheat & Barley Scab Initiative's Website.
FY10 USDA-ARS Award Amount:	\$ 38,500

USWBSI Individual Project(s)

USWBSI Research Category*	Project Title	ARS Award Amount
EC-HQ	U.S. Wheat & Barley Scab Initiative's Networking and Facilitation Office, and Website.	\$ 38,500
	Total ARS Award Amount	\$ 38,500

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
 DUR-CP – Durum Coordinated Project
 HWW-CP – Hard Winter Wheat Coordinated Project
 VDHR – Variety Development & Uniform Nurseries – Sub categories are below:
 SPR – Spring Wheat Region
 NWW – Northern Soft Winter Wheat Region
 SWW – Southern Soft Red Winter Wheat Region

Project 1: *U.S. Wheat & Barley Scab Initiative's Networking and Facilitation Office, and Website.*

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

Information sharing and access are key to the success of the Scab community. The U.S. Wheat & Barley Scab Initiative provides a publicly accessible server that hosts a comprehensive suite of services and applications to facilitate data access and dissemination. These applications and services are provided by server programs that are created by the project's webmaster and programmer. Several open source and commercial applications are also used and heavily customized to meet the goals of the U.S. Wheat & Barley Scab Initiative.

The driving factors during the development of applications and services is ease of use for all users, increasing data access, and providing faster distribution of the latest scab related information. Services available to the public that allow for this include features such as mass mailing lists, image libraries, discussion boards, blogs, and access to the USWBSI database, just to name a few. The centralized nature of these services also provides for easier public access and rapid feature development.

This project is directly associated with the following two FY10 Projects:

Project Title – Project ID	Principal Investigator	ARS ID/Institution
U.S. Wheat & Barley Scab Initiative's Networking and Facilitation Office, and Website.- FY10-IN-005	Kells, James	59-0206-9-057/Michigan State University
U.S. Wheat & Barley Scab Initiative's Networking and Facilitation Office, and Website.- FY10-IN-005	Van Sanford, David	59-0790-6-056/University of Kentucky

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 (1): Reconfigured the FHB Alert regions and subscriptions in conjunction with the FHB Forecasting Tool (http://www.wheatscab.psu.edu/riskTool_2010.html). Also created an administrative interface to manage the FHB Alert subscriptions.

Impact (1): The region reconfiguration was done to allow subscribers to have better choices in their subscriptions and to better manage contributions to the FHB Forecasting Tool. The administrative interface allows for easier editing, adding, and deleting of subscriptions. The FHB Alert system includes several software packages and servers so having a centralized interface for administration was essential as the list grows.

Accomplishment (2): Converted credit processing from the Skipjack system to the University of Kentucky authorized vendor Authorize.net. This involved rewriting all of the web site forms and server-side processing scripts to match the field names and other requirements of Authorize.net and adding several new server-side scripts required in order to create the user experience under the Skipjack system. The database storing registration and procedure ordering also had to be updated to hold new information.

Impact (2): Converting to Authorize.net was a requirement of the University of Kentucky. One advantage of this conversion was that it allowed all processing of sensitive credit cards information to be offloaded from the USWBSI server to the Authorize.net secure servers.

Accomplishment (3): Presented a poster for the FHB Alert system at the 2010 National Fusarium Head Blight Forum.

Impact (3): Presenting the poster provided a chance to alert more users to the existence of the FHB Alert system and to give a more detailed explanation of how it works and what information it includes.

Accomplishment (4): Moved the Scabsmart.org to the USWBSI server. Many of the pages and links had to be fixed in order to get the site working on a different host system.

Impact (4): The site is now hosted on a more permanent server. This server includes backups that will allow the site to have more uptime in case of hardware or software failures.

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.

Forum Proceedings:

Canty, S., A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.). 2010. Proceedings from the 2010 National Fusarium Head Blight Forum, Milwaukee, WI; December 7-9. University of Kentucky, Lexington, KY.

Proceedings are available in PDF format on the USWBSI's Website at:

<http://www.scabusa.org/forum.html#forum10>

Abstracts:

Hane, D., S. Canty, E. DeWolf, S. Crawford and D. Van Sanford. 2010. "The U.S. Wheat and Barley Scab Initiative's FHB Alert System." In: Canty, S., A. Clark, A. Anderson-Scully, D. Ellis and D. Van Sanford (Eds.). 2010. *Proceedings from the 2010 National Fusarium Head Blight Forum*, Milwaukee, WI; December 7-9. University of Kentucky, Lexington, KY. p. 177.

USWBSI Newsletters:

Lilleboe, D., S. Canty, and D. Van Sanford (Eds.). Winter 2011. *Fusarium Focus*. U.S. Wheat & Barley Scab Initiative. Volume 11, Issue 1.

Lilleboe, D., S. Canty, and D. Van Sanford (Eds.). Fall 2010. *Fusarium Focus*. U.S. Wheat & Barley Scab Initiative. Volume 10, Issue 2.

All Newsletters are available in PDF format on the USWBSI's Website

<http://www.scabusa.org/news.html#newsletters>).

Press Releases:

2-28-11 News Release: Fusarium Head Blight Alert System Goes Live in Early March

6-30-10 News Release: 'Scab Smart' Helps Growers & Industry Understand & Manage Fusarium Head Blight.

5-10-10 News Release: Wheat & Barley Producers Can Sign Up for Scab Alerts.

All Press Releases are available in PDF format on the USWBSI's Website

http://scabusa.org/news.html#press_rel).