# USDA-ARS/ U.S. Wheat and Barley Scab Initiative FY12 Final Performance Report

July 16, 2013

**Cover Page** 

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|-------------------------------|---|--|--|
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| Fiscal Year:                  | FY12  |  |  |
| <b>USDA-ARS Agreement ID:</b> | 59-0206-1-082   |  |  |
| USDA-ARS Agreement            | U.S. Wheat and Barley Scab Initiative's Networking and Facilitation |  |  |
| Title:                        | Office and Website.   |  |  |
| FY12 USDA-ARS Award           | 1 5 9 / 895   |  |  |
| Amount:                       |   |  |  |

**USWBSI Individual Project(s)** 

| USWBSI<br>Research |   |                  |
|--------------------|---|------------------|
| Category**         | Project Title   | ARS Award Amount |
| EC-HQ              | US Wheat & Barley Scab Initiative's Networking & Facilitation Office and Website. | \$ 97,895        |
|                    | Total ARS Award Amount  | \$ 97,895        |

Principal Investigator

7/16/13

Date

<sup>\*</sup> Award Amount does not include additional funding awarded in September of 2012 earmarked for other PIs at same institution

<sup>\*\*</sup> 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

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**Project 1:** US Wheat & Barley Scab Initiative's Networking & 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?

Scab affects the industries and people involved in virtually every stage of the production, processing, and distribution systems of five market classes of wheat and barley across the U.S. The Networking and Facilitation Office (NFO) has been in existence since 1999. The goal of the NFO is to minimize the barriers to the success of the U.S. Wheat & Barley Scab Initiative arising from the administrative burdens and communication challenges. In FY12, there were 73 researchers working in 23 institutions (including ARS) across 23 states. The NFO is addressing this problem by 1) helping scientists and all interested parties, who in the past may have problems communicating with each other, to learn from each other by facilitating communications and communication system development; 2) identifying and implementing an internet-based communication and collaboration mechanisms; and 3) acting as a center of accountability and a rapid clearing house of scab-related information. The NFO provides administrative support to the various committees, as well as being responsible for the organization of the Initiative's annual scientific conference. Finally, the NFO facilitates the annual resolution of a comprehensive national research plan and budget, and represents the Initiative's only 'fixed' asset.

This project is directly associated with the following two FY12 Projects:

| Project Title – Project ID       | Principal Investigator | ARS ID/Institution     |
|----------------------------------|------------------------|------------------------|
| U.S. Wheat & Barley Scab         | Anderson, Olin         | NA/USDA-ARS            |
| Initiative's Networking and      |                        |                        |
| Facilitation Office, and Website |                        |                        |
| FY12-VA-004                      |                        |                        |
| U.S. Wheat & Barley Scab         | Kells, James           | 59-0206-9-057/Michigan |
| Initiative's Networking and      |                        | State University       |
| Facilitation Office, and Website |                        |                        |
| FY12-VA-004                      |                        |                        |

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):**

One of the NFO's most important accomplishments was the successful facilitation of the development of the USWBSI's FY13 Research Plan and Budget, which was approved by USDA-ARS in April.

#### **Impact:**

One-hundred and twenty-nine research projects across five research areas (FHB Management, Food Safety, Toxicology and Utilization of Mycotoxin-contaminated Grain, Gene Discovery and Engineering Resistance, and Variety Development and Host Resistance (organized around three regional FHB nurseries)), three commodity-based

FY12 (approx. May 12 – May 13)

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coordinated projects (Barley, Durum and Hard Winter Wheat), and the USWBSI Headquarters (Office and Website), <u>received</u> funding in the amount of \$4,643,170 to continue the fight against FHB.

#### **Accomplishment (2)**:

In December of 2012, the NFO working with the Forum Organizing Committee facilitated the USWBSI's annual scientific Forum, which was held in Indianapolis, IN. Approximately 185 scientists (including research associates, research technicians and graduate students), growers, and industry representatives from across the nation and around the world, as well as area leaders of the U.S. wheat and barley industry, attended the 2012 National FHB Forum. Research results and findings were presented to the forum participants in the form of invited talks (18), and poster (79) presentations accompanied by abstracts or papers published in the Forum proceedings. One afternoon was devoted to group discussions designed around the USWBSI's five research areas and three commodity-based coordinated projects.

#### **Impact:**

The annual Forum is the primary mechanism whereby USWBSI scientists and stakeholders come together to discuss both the progress being made, as well as problems that interfere, with the successful combat against this devastating disease.

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, and D. Van Sanford (Eds.). 2012. Proceedings from the 2012 National Fusarium Head Blight Forum, Orlando, FL; December 4-6. East Lansing, MI/Lexington, KY: U.S. Wheat & Barley Scab Initiative.

Complete Proceedings are available in PDF format on the USWBSI's Website at: <a href="http://www.scabusa.org/forum.html#forum12">http://www.scabusa.org/forum.html#forum12</a>

## **Abstracts:**

D. Hane, S. Canty, D. Van Sanford and O. Anderson. 2012. "Overview of the USWBSI Web Site." In: S. Canty, A. Clark, A. Anderson-Scully and D. Van Sanford (Eds.), *Proceedings of the 2012 National Fusarium Head Blight Forum*. East Lansing, MI/Lexington, KY: U.S. Wheat & Barley Scab Initiative. p. 157.

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## **On-Line Article:**

Lilleboe, D.. 2012, September. *Fusarium Head Blight a Minimal Issue in 2012*. U.S. Wheat & Barley Scab Initiative. Website: <a href="http://scabusa.org/pdfs/USWBSI-Article\_2012-Update\_10-9-12.pdf">http://scabusa.org/pdfs/USWBSI-Article\_2012-Update\_10-9-12.pdf</a>.

## **USWBSI Newsletters:**

Lilleboe, D., S. Canty, and D. Van Sanford (Eds.). Spring 2013. Fusarium Focus. U.S. Wheat & Barley Scab Initiative. Volume 13, Issue 1.

Lilleboe, D., S. Canty, and D. Van Sanford (Eds.). Fall 2012. Fusarium Focus. U.S. Wheat & Barley Scab Initiative. Volume 12, Issue 2.

All Newsletters are available in PDF format on the USWBSI's Website (http://www.scabusa.org/news.html#newsletters).

## **Press Release:**

4-23-13 News Release: Scab Initiative Challenges Funding Elimination.

All Press Releases are available in PDF format on the USWBSI's Website (http://scabusa.org/news.html#press\_rel).