USDA-ARS/ U.S. Wheat and Barley Scab Initiative FY15 Final Performance Report Due date: July 15, 2016

Cover Page			
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Fiscal Year:	2015		
USDA-ARS Agreement ID:	59-0206-4-001		
USDA-ARS Agreement Title:	Hosting the Manager of the USWBSI's Networking and		
	Facilitation Office.		
FY15 USDA-ARS Award Amount:	\$ 109,522		
Recipient Organization:	Michigan State University		
Recipient Organization:	Michigan State University Contract & Grant Administration		
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Recipient Organization:	Contract & Grant Administration		
Recipient Organization: DUNS Number:	Contract & Grant Administration Hannah Administration Building, Room 2		
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DUNS Number: EIN: Recipient Identifying Number or	Contract & Grant Administration Hannah Administration Building, Room 2 East Lansing, MI 48824-1046 193247145 38-6005984		

USWBSI Individual Project(s)

USWBSI Research Category [*]	Project Title	ARS Award Amount
EC-HQ	US Wheat & Barley Scab Initiative's Networking & Facilitation Office and Website.	\$ 109,522
	FY15 Total ARS Award Amount	\$ 109,522

Principal Investigator

Date

^{*} MGMT – FHB Management

FST – Food Safety & Toxicology

GDER – Gene Discovery & Engineering Resistance

PBG – Pathogen Biology & Genetics

EC-HQ - Executive Committee-Headquarters

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: US Wheat & Barley Scab Initiative's Networking & Facilitation Office and Website.

1. What are the major goals and objectives of the project?

The main goal of this project is the operation of the headquarters for the U.S. Wheat & Barley Scab Initiative.

This project is directly associated with the following two FY15 Projects:

Project Title – Project ID	Principal Investigator	ARS ID/Institution
U.S. Wheat & Barley Scab	Blechl, Ann	NA/USDA-ARS
Initiative's Networking and		
Facilitation Office, and Website		
FY14-VA-004		
U.S. Wheat & Barley Scab	Van Sanford	59-0206-1-082/
Initiative's Networking and		University of Kentucky
Facilitation Office, and Website		5
FY14-VA-004		

2. What was accomplished under these goals?

1) Major activities

- <u>Hosted the 2015 National Fusarium Head Blight Forum:</u> the NFO working with the Forum Organizing Committee facilitated the USWBSI's annual scientific Forum, which was held in St. Louis, Missouri. Over 200 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 2015 National FHB Forum. Research results and findings were presented to the forum participants in the form of invited talks (15), and poster (60) presentations accompanied by abstracts or papers published in the Forum proceedings. One morning was devoted to group discussions designed around the USWBSI's five research areas and three commodity-based coordinated projects. 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.
- <u>Development of the USWBSI's FY16 Research Plan and Budget, which was</u> <u>approved by USDA-ARS in April, 2016</u>: One-hundred and twenty-five (125) research projects across five (5) research areas (FHB Management, Food Safety & Toxicology, Gene Discovery and Engineering Resistance, and Variety Development and Host Resistance (primarily organized around three regional FHB nurseries)), three commodity-based coordinated projects (Barley, Durum, and Hard Winter Wheat), and the USWBSI Headquarters (Office and Website), received funding in the amount of \$4,867,621 to continue the fight against FHB.
- <u>The ongoing deployment of the FHB Alert System</u>: The purpose of the alert system is to give growers and affiliated industry personnel better advanced notice of potential outbreaks and the risk of scab in their area, thus allowing for timely treatment of fields

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with fungicides. The FHB Alert system is linked to the FHB Forecasting Tool (http://www.wheatscab.psu.edu/riskTool.html). Commentary posted to the forecasting tool by state specialist is sent out to regional/national based list serves, posted on the USWBSI's blog site (http://scabusa.org/blog), and sent as text messages (SMS) to cell phones. Producers, crop consultants, grain processors and others can sign up for the alerts by going to the following web site address: http://scabusa.org/fhb_alerts. There are currently over 1,000 subscribers to the FHB Alert System.

2) Specific objectives

- 1. Maintain and enhance the Resource Management/Accountability Center;
- 2. Facilitate and enhance communication within the Initiative and with its stakeholders;
- 3. Administer the process of developing the Initiative's annual recommended research plan and budget; and
- 4. Manage and implement all meetings and conferences.
- 3) Significant results

Not applicable to this project.

4) Key outcomes or other achievements

Summary of Meetings, Conference Calls and Workshops/Planning meetings facilitated or supported by the Networking & Facilitation Office (NFO) during award period.

Committee/Group Steering Committee (SC)	# of Meetings/ Conference Call (CC) 1 Meeting	Description/Purpose of Meeting 12-08-15: Semi-Annual Meeting – Review FY16 Research Plan and Budget
Executive Committee (EC)	4 Meetings 2 CC	 Meetings: 12-04-15: EC Executive Session in preparation for meeting with review panel leaders 12-05-15: EC met with review panels leaders to discuss their recommendations; 12-06-15: EC discusses recommendations from review panels, etc. for FY16 Research Plan and Budget. 12-07-16: EC finalizes recommendations from review panels, etc. for FY16 Research Plan and Budget. 07-10-15: EC finalizes recommendation on FY16-17 Working Caps to be voted on by Steering Committee. 01-14-16: Follow-up on action items post 2015 Forum, 2016 Pre- Proposal review and recommendation, Stakeholder Co-Chair Search
EC's designated rep for Economic Study	2 CC	 10-01-15: Quarterly Updated on USWBSI commissioned economic study 02-10-15: Quarterly Updated on USWBSI commissioned economic study
NFO/CP Chairs	1 CC	08/06/15: NFO and CP Chairs discuss development of CP's review and recommendation.

	# of Meetings/ Conference	
Committee/Group	Call (CC)	Description/Purpose of Meeting
Research Committees	9 CC	Research Committees and Review Panels (5 total) –
(RC) and Review		Discuss/finalize their FY16 Funding Requests/Recommendations:
Panels (RP) for FY16-		
17 Pre-Proposals		MGMT IM-CP subcommittee: 10/08/15
_		BAR-CP RC: 10/08/15
		DUR-CP RC: 10/09/15
		HWW-CP RC: 10/09/15
		BAR-CP RP: 11/23/15
		VDHR-NWW RP: 11/24/15
		FST: 11/23/15
		GDER: 11/19/15
		MGMT: 11/18/15
Research-based	2 Planning	4/20/15: Hard Winter Wheat Coordinated Project Planning
Planning Meetings	Meetings /	Meeting– collaborating PIs and Stakeholders
/ Web Conference	1 Web	4/24/15: VDHR-Northern Winter Wheat Coordinated Project,
	Conference	collaborating PIs. (Web Conference)
		4/28/15: VDHR joint planning meeting – Northern and Southern
		Coordinated Projects.

3. What opportunities for training and professional development has the project provided?

None, not applicable for this project.

4. How have the results been disseminated to communities of interest? Information is disseminated through the USWBSI's listservs, website, emails, blogs, press releases and newsletters.

Training of Next Generation Scientists

Instructions: Please answer the following questions as it pertains to the FY15 award period. The term "support" below includes any level of benefit to the student, ranging from full stipend plus tuition to the situation where the student's stipend was paid from other funds, but who learned how to rate scab in a misted nursery paid for by the USWBSI, and anything in between.

1. Did any graduate students in your research program supported by funding from your USWBSI grant earn their MS degree during the FY15 award period? No

If yes, how many?

2. Did any graduate students in your research program supported by funding from your USWBSI grant earn their Ph.D. degree during the FY15 award period? No

If yes, how many?

3. Have any post docs who worked for you during the FY15 award period and were supported by funding from your USWBSI grant taken faculty positions with universities? No

If yes, how many?

4. Have any post docs who worked for you during the FY15 award period and were supported by funding from your USWBSI grant gone on to take positions with private ag-related companies or federal agencies? No

If yes, how many?

Release of Germplasm/Cultivars

Instructions: In the table below, list all germplasm and/or cultivars released with <u>full or partial</u> support through the USWBSI during the <u>FY15 award period</u>. All columns must be completed for each listed germplasm/cultivar. Use the key below the table for Grain Class abbreviations. *Leave blank if you have nothing to report or if your grant did NOT include any VDHR-related projects.*

Name of Germplasm/Cultivar	Grain Class	FHB Resistance (S, MS, MR, R, where R represents your most resistant check)	FHB Rating (0-9)	Year Released

Add rows if needed.

NOTE: List the associated release notice or publication under the appropriate sub-section in the 'Publications' section of the FPR.

Abbreviations for Grain Classes

Barley - BAR Durum - DUR Hard Red Winter - HRW Hard White Winter - HWW Hard Red Spring - HRS Soft Red Winter - SRW Soft White Winter - SWW

Publications, Conference Papers, and Presentations

Refer to the FY15-FPR_Instructions for listing publications/presentations about your work that resulted from all of the projects included in the FY15 grant. If you did not have any publications or presentations, state 'Nothing to Report' directly above the Journal publications section.

Journal publications. Nothing to Report.

Books or other non-periodical, one-time publications. Nothing to Report.

Other publications, conference papers and presentations.

Presentation:

Coping with the Foggy Dew: An Integrated Approach to Fusarium Head Blight Coping with the Foggy Dew: An Integrated Approach to Fusarium Head Blight presented to the faculty of University College, Dublin Ireland March 23, 2016 Status of all items listed below: Presented Acknowledgement of Federal Funding: None; not applicable for content of presentation

Status of all items listed below: Published Acknowledgement of Federal Funding: None; not applicable for type of publication

Forum Proceedings:

Canty, S., A. Clark, S. Vukasovich, and D. Van Sanford (Eds.). 2015. Proceedings from the 2015 National Fusarium Head Blight Forum, St. Louis, MO; December 6-8. University of Kentucky, Lexington, KY.

Newsletters:

- Lilleboe, D., S. Canty, and D. Van Sanford (Eds.). Winter 2016. Fusarium Focus. U.S. Wheat & Barley Scab Initiative. Volume 16, Issue 1.
- Lilleboe, D., S. Canty, and D. Van Sanford (Eds.). Summer 2015. Fusarium Focus. U.S. Wheat & Barley Scab Initiative. Volume 15, Issue 2.

On-line Articles

- Lilleboe, D. 2015, October. *FHB in 2015: FA Vexing Year, Overall.* U.S. Wheat & Barley Scab Initiative. Website: <u>http://scabusa.org/pdfs/USWBSI-Article_2015FHB-Summary_10-26-15.pdf</u>.
- Lilleboe, D. 2015, May. *Scab Management: It Takes an Integrated Approach*. U.S. Wheat & Barley Scab Initiative. Website: <u>http://scabusa.org/pdfs/USWBSI-Article_Scab-Mgmt_05-12-15.pdf</u>.

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Press Releases:

5-12-15 News Release: Scab Management: It Takes an Integrated Approach

All Newsletters, On-Line Articles and Press Releases are available in PDF format on the USWBSI's Website: <u>http://scabusa.org</u>.