USDA-ARS/

U.S. Wheat and Barley Scab Initiative FY16 Final Performance Report

Due date: July 28, 2017

Cover Page

Principle Investigator (PI):	James Kells	
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Phone:	517-353-0103	
Fiscal Year:	2016	
USDA-ARS Agreement ID:	59-0206-4-001	
USDA-ARS Agreement Title:	le: Hosting the Manager of the USWBSI's Networking and	
	Facilitation Office.	
FY16 USDA-ARS Award Amount:	\$ 114,183	
Recipient Organization:	Michigan State University	
	Contract & Grant Administration	
	Hannah Administration Building, Room 2	
	East Lansing, MI 48824-1046	
DUNS Number:	193247145	
EIN:	38-6005984	
Recipient Identifying Number or	RC103633	
Account Number:		
Project/Grant Reporting Period:	4/22/16 - 4/21/17	
Reporting Period End Date:	04/21/17	

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.	\$ 114,183
	FY16 Total ARS Award Amount	\$ 114,183

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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

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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 (Networking & Facilitation Office (NFO)) for the U.S. Wheat & Barley Scab Initiative by hosting the NFO's Administrator.

This project is directly associated with the following two FY16 Projects:

Project Title – Project ID	Principal Investigator	ARS ID/Institution
U.S. Wheat & Barley Scab Initiative's Networking and Facilitation Office, and Website FY16-VA-001	Blechl, Ann	NA/USDA-ARS
U.S. Wheat & Barley Scab Initiative's Networking and Facilitation Office, and Website FY16-VA-001	Van Sanford	59-0206-6-001/ University of Kentucky

2. What was accomplished under these goals? Address items 1-4) below for each goal or objective.

- 1) major activities
 - Hosted the 2016 National Fusarium Head Blight Forum: the NFO working with the Forum Organizing Committee facilitated the USWBSI's annual scientific Forum, which was held in St. Louis, Missouri. Around 190 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 2016 National FHB Forum. Research results and findings were presented to the forum participants in the form of invited talks (15), and poster (53) 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.
 - Development of the USWBSI's FY17 Research Plan and Budget, which was not approved by USDA-ARS until May, 2017: 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),

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were recommended for funding in the amount of \$5,030,830 to continue the fight against FHB.

2) specific objectives

- i. Maintain and enhance the Resource Management/Accountability Center;
- ii. Facilitate and enhance communication within the Initiative and with its stakeholders;
- iii. Administer the process of developing the Initiative's annual recommended research plan and budget; and
- iv. 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, Workshops/Planning Meetings, and Nominations for Committee Members facilitated or supported by the Networking & Facilitation Office (NFO) during award period.

Table 1. Summary of Meetings, Conference Calls and Workshops/Planning meetings facilitated or supported by the Networking & Facilitation Office (NFO) during FY16.

Committee/Group Steering Committee (SC)	# of Meetings/ Conference Call (CC)/ Nominations 2 Meetings	Description/Purpose of Meeting 12-06-16: Semi-Annual Meeting – Review FY17 Research Plan and Budget 04-20-17: Semi-Annual Meeting
Executive Committee (EC)	5 Meetings	04-20-17: Semi-Annual Meeting 05-12-16: EC met in Minneapolis since this was the off year when the SC did not hold its spring meeting. 12-03-16: EC met with review panels to discuss their recommendations; 12-04-16: EC discusses recommendations from review panels, etc. for FY14 Research Plan and Budget. 12-06-16: Follow-up of Annual Forum and USWBSI's recommendation for FY15 Research Plan and Budget. 04-19-17: Prep-meeting prior to the SC's meeting on 4-20-17
EC cont.	1 CC	10-4-16: EC discusses nominee for Dave Van Sanford's replacement as Researcher Co-Chair and Director of the Networking & Facilitation Office.
EC Reps and Econ. Study PIs	4 CC	Quarterly updates on the USWBSI commissioned Economic Study.
Review Panels (RP) for Year 2 Funding Requests	1 CC	Review Panels (10 total) – Discuss/finalize their FY17 Year 2 Funding Requests/Recommendations: 11-10-16: Hard Winter Wheat Coordinated Project

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Committee/Group	# of Meetings/ Conference Call (CC)/ Nominations	Description/Purpose of Meeting
USWBSI and ARS	2 CC	06-02-16: Interview with candidate/nominee to replace Art Brandli as the Grower Co-Chair, term to begin 1/1/17. 09-26-16: Co-chairs discuss nominee to replace Dave Van Sanford as the Researcher Co-Chair and Director of the Networking & Facilitation Office, term to begin 1/1/18.
Research-based Planning Meetings	1 CC	08-03-16: Conference call to discuss planning/logistics of the Eastern Wheat Genomic Selection Workshop (Sept. 6-9, 2016).
	4 Planning Meetings	08-01-16: Follow-up on NASS Grower Survey results with Pathologists (held in conjunction with APS), Tampa, FL. Sept. 06-09, 2016: Eastern Wheat Genomic Selection Workshop, Raleigh, NC. 11-04-16: Follow-up with Breeders, Pathologists, Millers and Maltsters on best management practices, Detroit, MI. 04-04-17: Durum Coordinated Project (DUR_CP Planning Meeting, Fargo, ND
Nomination for Committee Member Elections/	1	Steering Committee: Southern Association of Experiment Station Directors – Rep.
Appointments	1	Executive Committee – Spring Wheat Rep
	6 RC Committees with a total of 8 vacancies	Research Committees (RC): Durum CP – 2 members and Chair Hard Winter Wheat CP – 1 member and Chair VDHR-Northern Soft Winter Wheat CP - 1 member and Chair VDHR-Southern Soft Winter Wheat CP – 2 members and Chair Gene Discovery & Engineering Resistance - 1 member and Chair Pathogen Biology and Genetics - 1 member and Chair

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

Undergraduate students are hired to work in the Headquarters branch office at Michigan State University assisting with processing of submitting proposals, organization of the annual forum, and maintain the projects/grants web-based database.

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.

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Training of Next Generation Scientists

Instructions: Please answer the following questions as it pertains to the FY16 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 FY16 award period? N/A

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 FY16 award period? N/A

If yes, how many?

3. Have any post docs who worked for you during the FY16 award period and were supported by funding from your USWBSI grant taken faculty positions with universities? N/A

If yes, how many?

4. Have any post docs who worked for you during the FY16 award period and were supported by funding from your USWBSI grant gone on to take positions with private ag-related companies or federal agencies? N/A

If yes, how many?

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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>FY16 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

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Publications, Conference Papers, and Presentations

Instructions: Refer to the FY16-FPR_Instructions for detailed instructions for listing publications/presentations about your work that resulted from all of the projects included in the FY16 grant. Only include citations for publications submitted or presentations given during your award period (4/22/16 - 4/21/17). 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.

Forum Proceedings:

Canty, S., K. Wolfe and D. Van Sanford (Eds.). 2016. Proceedings from the 2016 National Fusarium Head Blight Forum, St. Louis, MO; December 4-6. University of Kentucky, Lexington, KY.

Newsletters:

Lilleboe, D., S. Canty, and D. Van Sanford (Eds.). Winter 2017. Fusarium Focus. U.S. Wheat & Barley Scab Initiative. Volume 17, Issue 1.

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

On-line Articles

Lilleboe, D. 2016, October. *Scab's Impact Low in Majority of U.S. Wheat & Barley Areas in 2016*. U.S. Wheat & Barley Scab Initiative. Website: https://scabusa.org/pdfs/USWBSI-Article 2016 FHB-Summary 10-12-16.pdf.

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