

**USDA-ARS/
U.S. Wheat and Barley Scab Initiative
FY16 Final Performance Report
Due date: July 28, 2017**

Cover Page

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Phone:	612-625-1975
Fiscal Year:	2016
USDA-ARS Agreement ID:	N/A
USDA-ARS Agreement Title:	Coordination of the Uniform Regional Scab Nursery for Spring Wheat Parents.
FY16 USDA-ARS Award Amount:	\$ 4,307

USWBSI Individual Project(s)

USWBSI Research Category*	Project Title	ARS Award Amount
VDHR-SPR	Coordination of the Uniform Regional Scab Nursery for Spring Wheat Parents	\$ 4,307
	FY16 Total ARS Award Amount	\$ 4,307



July 7, 2017

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: *Coordination of the Uniform Regional Scab Nursery for Spring Wheat Parents*

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

The major objective of this project is to oversee multisite FHB evaluations of spring wheat germplasm from academic, industry, and government breeding programs. The major goal is to develop and release a research report summarizing the year's results. An additional goal is to use this project as a means of facilitating germplasm exchange among breeding programs to accelerate develop scab resistant varieties.

2. What was accomplished under these goals?

1) major activities: The URSN was grown for the 22nd year in 2016. Entries were contributed by university, industry, and national wheat breeding programs.

2) specific objectives: Germplasm was contributed by university, industry and government breeding programs. This material was evaluated for FHB resistance at six different locations in the U.S. and Canada.

3) significant results: FHB resistance data from five locations was successfully obtained and subsequently provided for use in developing the annual report.

4) key outcomes or other achievements: The Report of the 2016 Uniform Regional Scab Nursery for Spring Wheat Parents , which summarizes findings of the individual locations and cross-location means, was developed and disseminated to nursery participants.

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

This project does not have a component related to training and professional development.

4. How have the results been disseminated to communities of interest?

The aforementioned annual report was provided to the USWBSI for posting on their website, and also provided to the Graingenes website as an additional publically accessible website.

It now is available at these sites (<http://www.scabusa.org/>) and (<http://wheat.pw.usda.gov>).

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?**

no

- 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?**

no

- 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?**

no

- 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?**

no

Release of Germplasm/Cultivars

Instructions: In the table below, list all germplasm and/or cultivars released with full or partial support through the USWBSI during the FY16 award period. 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.*

N/A

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

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. If you did not have any publications or presentations, state 'Nothing to Report' directly above the Journal publications section.

NOTE: Directly below each reference/citation, you must indicate the Status (i.e. published, submitted, etc.) and whether acknowledgement of Federal support was indicated in publication/presentation. See example below for a poster presented at the FHB Forum:

Conley, E.J., and J.A. Anderson. 2016. Accuracy of Genome-Wide Prediction for Fusarium Head Blight Associated Traits in a Spring Wheat Breeding Program. In: Proceedings of the XXIV International Plant & Animal Genome Conference, San Diego, CA.

Status: Abstract Published and Poster Presented

Acknowledgement of Federal Support: YES (poster), NO (abstract)

Journal publications.

Books or other non-periodical, one-time publications.

Other publications, conference papers and presentations.

Garvin, D.F. 2017. Report of the 2016 Uniform Regional Scab Nursery for Spring Wheat Parents.

Status: Released Spring 2017.

Acknowledgement of Federal Support: NO.