USDA-ARS | U.S. Wheat and Barley Scab Initiative

FY21 Performance Progress Report

Due date: July 26, 2022

Cover Page

Duin sinds to restinate a (DI)	Carry Barratus as
Principle Investigator (PI):	Gary Bergstrom
Institution:	Cornell University
E-mail:	gcb3@cornell.edu
Phone:	607-255-7849
Fiscal Year:	2021
USDA-ARS Agreement ID:	59-0206-0-126
USDA-ARS Agreement Title:	FHB Management Research in New York
FY20 USDA-ARS Award Amount:	\$13,363
Recipient Organization:	Cornell University
	School of Integrative Plant Science
	Plant Pathology and Plant-Microbe Biology Section, Plant Science
	Building, Room 316
	Ithaca, NY 14850
DUNS Number:	872612445
EIN:	15-0532082
Recipient Identifying Number or	1538132 (OSP91332)
Account Number, if any:	
Project/Grant Period:	5/3/21 - 5/2/23
Reporting Period End Date:	5/2/2022

USWBSI Individual Project(s)

USWBSI Research Category*	Project Title	ARS Award Amount
MGMT-IM	Integrated Management of FHB and DON in Winter Barley in New York	\$13,363
	FY21 Total ARS Award Amount	\$13,363

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☑ Annual Report	☐ Final Report	
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	July 26, 2022	
	Date Report Submitted	
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MGMT – FHB Management

MGMT-IM – FHB Management – Integrated Management Coordinated Project

PBG – Pathogen Biology & Genetics

TSCI – Transformational Science

VDHR – Variety Development & Uniform Nurseries NWW –Northern Soft Winter Wheat Region SPR – Spring Wheat Region

SWW - Southern Soft Red Winter Wheat Region

BAR-CP – Barley Coordinated Project
DUR-CP – Durum Coordinated Project
EC-HQ – Executive Committee-Headquarters
FST-R – Food Safety & Toxicology (Research)
FST-S – Food Safety & Toxicology (Service)
GDER – Gene Discovery & Engineering Resistance
HWW-CP – Hard Winter Wheat Coordinated Project

FY21 USDA-ARS/USWBSI Performance Progress Report

PI: Bergstrom, Gary | Agreement #: 59-0206-0-126

Project 1:	Integrated Ma	nagement of FHI	B and DON in	Winter Barle	v in New York
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1.	WI	hat are the major goals and objectives of the research project?
Е		F
		hat was accomplished under these goals or objectives? (For each major goal/objective, s these three items below.)
	a)	What were the major activities? We conducted standard protocol IM studies on winter barley (cultivars KWS Scala and LCS Violetta).
	b)	What were the significant results?
		A F 10.3, A F 10.5 F 10.53. D 1 A A
		D . D
	c)	List key outcomes or other achievements. Miravis Ace and Prosaro will continue to be the main effective fungicides for FHB and DON suppression when applied to fully headed barley.
3. N <i>A</i>		hat opportunities for training and professional development has the project provided
4.	Но	ow have the results been disseminated to communities of interest?
		, , , F B F , Plant Disease Management Reports.

PI: Bergstrom, Gary | Agreement #: 59-0206-0-126

Publications, Conference Papers, and Presentations

Please include a listing of all your publications/presentations about your <u>FHB work</u> that were a result of funding from your FY21 grant award. Only citations for publications <u>published</u> (submitted or accepted) or presentations <u>presented</u> during the **award period** should be included.

Did you publish/submit or present anything during this award period? ✓ Yes, I've included the citation reference in listing(s) below. ✓ No, I have nothing to report.

Journal publications as a result of FY21 grant award

List peer-reviewed articles or papers appearing in scientific, technical, or professional journals. Include any peer-reviewed publication in the periodically published proceedings of a scientific society, a conference, or the like.

Identify for each publication: Author(s); title; journal; volume: year; page numbers; status of publication (published [include DOI#]; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).

Books or other non-periodical, one-time publications as a result of FY21 grant award

Report any book, monograph, dissertation, abstract, or the like published as or in a separate publication, rather than a periodical or series. Include any significant publication in the proceedings of a one-time conference or in the report of a one-time study, commission, or the like.

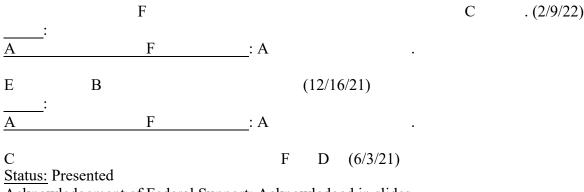
Identify for each one-time publication: Author(s); title; editor; title of collection, if applicable; bibliographic information; year; type of publication (book, thesis or dissertation, other); status of publication (published; accepted, awaiting publication; submitted, under review; other); acknowledgement of federal support (yes/no).

NA

Other publications, conference papers and presentations as a result of FY21 grant award

Identify any other publications, conference papers and/or presentations not reported above. Specify the status of the publication.

Extension presentations by Gary C. Bergstrom from 5/3/21 to 5/2/22 that included updates on Fusarium head blight research:



Acknowledgement of Federal Support: Acknowledged in slides.