

FY21 Performance Progress Report

Due date: July 26, 2022

Cover Page

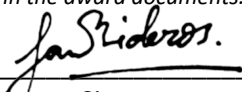
Principle Investigator (PI):	Santiago Mideros
Institution:	University of Illinois
E-mail:	smideros@illinois.edu
Phone:	217-265-6340
Fiscal Year:	2021
USDA-ARS Agreement ID:	59-0206-0-144
USDA-ARS Agreement Title:	Integrated Management of Wheat in Illinois
FY20 USDA-ARS Award Amount:	\$22,644
Recipient Organization:	University of Illinois Department of Crop Sciences 1102 S. Goodwin Ave., N533B Turner Hall Urbana, IL 60801
DUNS Number:	41544081
EIN:	37-6000511
Recipient Identifying Number or Account Number, if any:	AG060
Project/Grant Period:	6/1/21 - 5/31/23
Reporting Period End Date:	5/31/2022

USWBSI Individual Project(s)

USWBSI Research Category*	Project Title	ARS Award Amount
MGMT-IM	Integrated Management of FHB in Illinois Wheat	\$22,644
FY21 Total ARS Award Amount		\$22,644

I am submitting this report as an: Annual Report Final Report

I certify to the best of my knowledge and belief that this report is correct and complete for performance of activities for the purposes set forth in the award documents.



Principal Investigator Signature

25 July 2022

Date Report Submitted

† 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

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

Project 1: Integrated Management of FHB in Illinois Wheat

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

Assess the utility of Miravis Ace[®] compared to Caramba[®], Prosaro[®], and Proline[®] and develop a better sense of the application window for this new fungicide.

2. What was accomplished under these goals or objectives? (For each major goal/objective, address these three items below.)

a) What were the major activities?

- In October of 2020, a field trial was planted in Urbana, Illinois. The trial was established with two winter wheat varieties and inoculated in April of 2021. Trials were sprayed with Miravis Ace at three development points (10.3, 10.5.1, 10.5.1+5), Prosaro, BAS8400F, and two controls. Harvest occurred in June 29 of 2021. Data was compiled in late summer of 2021.
- As soon as I became the PI on this grant (February of 2021), I made sure that the personnel that have been conducting the work for this project be on the payroll of this project. The salary of a research specialist has been charged to this project since February of 2021.

b) What were the significant results?

- Incidence and disease severity were evaluated once in Urbana. At harvest, percent moisture, test weight, and yield were recorded. FDK was obtained from harvested samples.

c) List key outcomes or other achievements.

- Field trials successfully completed in 2021.
- Data was collected, aggregated, and sent to Dr. Paul for analysis and publication.

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

Three undergraduate students were trained and participated on seed preparation, field preparation (e.g. staking), planting, fungicide application, ratings for disease, FDK ratings, and sample preparation for DON analysis.

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

Results from this project have not been disseminated to communities of interest yet.

Publications, Conference Papers, and Presentations

Please include a listing of all your publications/presentations about your FHB work that were a result of funding from your FY21 grant award. Only citations for publications published (submitted or accepted) or presentations presented 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).

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.

In addition to the required inclusion in this report, to increase the visibility of your work we encourage you to also submit your publications in the new [USWBSI ScabSource Publication Database](#), an open-access resource for all FHB researchers to reference.