

FY22 Performance Progress Report

Due date: July 26, 2023

Cover Page


USDA-ARS Agreement ID:	59-0206-2-113
USDA-ARS Agreement Title:	Diagnostic Services for Deoxynivalenol
Principle Investigator (PI):	Yanhong Dong
Institution:	University of Minnesota
Institution UEI:	KABJZBBJ4B54
Fiscal Year:	2022
FY22 USDA-ARS Award Amount:	\$307,003
PI Mailing Address:	University of Minnesota, Department of Plant Pathology 495 Borlaug Hal, 1991 Upper Buford Circle St. Paul, MN 55108
PI E-mail:	dongx001@umn.edu
PI Phone:	612-625-2751
Period of Performance:	May 1, 2022 – April 30, 2026
Reporting Period End Date:	April 30, 2023

USWBSI Individual Project(s)

USWBSI Research Category*	Project Title	ARS Award Amount
FST-S	Diagnostic Services for DON	\$307,003
FY22 Total ARS Award Amount		\$307,003

I am submitting this report as an: Annual 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

06/16/2023

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: Diagnostic Services for DON

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

The goal of this project is to provide rapid, cost-effective, and accurate mycotoxin analysis - especially deoxynivalenol (DON) - for Fusarium Head Blight (FHB or scab) research projects.

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?

This project has been achieving same objectives under prior agreement (#59-0206-0-177) which is still active and anticipate fully activating objectives in this agreement starting in November 2023.

b) What were the significant results?

Reported in Performance Report for Agreement #59-0206-0-177

c) List key outcomes or other achievements.

Reported in Performance Report for Agreement #59-0206-0-177

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

Nothing to report.

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

Nothing to report.

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 FY22 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 May 1, 2022 – April 30, 2023?

Yes, I've included the citation reference in listing(s) below.

No, I have nothing to report.

Journal publications as a result of FY22 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).

I published during the period May 1, 2022-April 30, 2023. However, the publications are reported in the Performance Report for Agreement #59-0206-0-177.

Books or other non-periodical, one-time publications as a result of FY22 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).

Nothing to Report

Other publications, conference papers and presentations as a result of FY22 award

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

Nothing to Report

USWBSI ADDENDUM
DON Service Labs – Quality Control (QC) Data

Note: What is being requested is the across lab quality control data (separate QC from Trilogy).

Insert below Quality Control Data/Results from the Award Period (5/15/22 -5/14/23):

	Check 1	Check 2
N^a	450	499
Mean (ppm)	3.71	9.23
SD^b	0.36	1.09
% CV^c	9.8	11.8

^aNumber of check samples. ^bStandard deviation. ^cCoefficient of variance