

USDA-ARS / USWBSI
FY03 Final Performance Report (approx. May 03 – April 04)
July 15, 2004

Cover Page

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Year:	FY2003 (approx. May 03 – April 04)
FY03 ARS Agreement ID:	59-0790-9-075
FY03 ARS Agreement Title:	Diagnostic Services for DON.
FY03 ARS Award Amount:	\$ 84,729

USWBSI Individual Project(s)

USWBSI Research Area*	Project Title	ARS Adjusted Award Amount
FSTU	Diagnostic Services for DON.	\$ 84,729
	Total Amount Recommended	\$ 84,729

Principal Investigator

Date

* BIO – Biotechnology
CBC – Chemical & Biological Control
EDM – Epidemiology & Disease Management
FSTU – Food Safety, Toxicology, & Utilization
GIE – Germplasm Introduction & Enhancement
VDUN – Variety Development & Uniform Nurseries

Project 1: *Diagnostic Services for DON.*

1. What major problem or issue is being resolved and how are you resolving it?

The objective of this project is to provide mycotoxin diagnostic services, especially for deoxynivalenol (DON), for Fusarium Head Blight (scab) research projects conducted mainly in Minnesota, including projects from several departments and experiment stations of the University of Minnesota and the USDA Cereal Disease Laboratory.

From 05/01/2003 to 04/30/04, the project analyzed 10,101 samples submitted by 13 scab research projects. They included 5,802 regular mature grain samples (4-20 g) and 4,299 small size samples such as grain samples (< 4 g), single kernels, single spikelets, single heads, small stems, leaf fragments and fungal cultures. The target toxins included DON, 15-Acetyl-DON (15-ADON), 3-Acetyl-DON (3-ADON), nivalenol (NIV), and zearalenone (Zea).

2. What were the most significant accomplishments?

The project analyzed 10,101 samples submitted by 13 scab research projects from 4 states. Five toxins (DON, 15-ADON, 3-ADON, NIV, and Zea) were included in this year's analysis.

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FY03 Final Performance Report

Include below a list of the publications, presentations, peer-reviewed articles, and non-peer reviewed articles written about your work that resulted from all of the projects included in you grant. Please reference each item using an accepted journal format. If you need more space, continue the list on the next page.

None.