

**U.S. Wheat and Barley Scab Initiative  
 FY00 Final Performance Report (approx. May 00 – April 01)  
 July 30, 2001**

**Cover Page**

<b>PI:</b>	<b>David Berryhill</b>
<b>Institution:</b>	<b>North Dakota State University</b>
<b>Address:</b>	<b>P.O. Box 5435        State University Station        Fargo, ND 58105</b>
<b>Email:</b>	<b>David_Berryhill@ndsu.nodak.edu</b>
<b>Phone:</b>	<b>701-231-7694</b>
<b>Fax:</b>	<b>701-231-7514</b>
<b>Year:</b>	<b>FY2000 (approx. May 00 – April 01)</b>
<b>Grant Number:</b>	<b>59-0790-9-030</b>
<b>Grant Title:</b>	<b>Fusarium Head Blight Research</b>
<b>2000 ARS Award Amount:</b>	<b>\$68,293</b>

**Project**

<b>Program Area</b>	<b>Project Title</b>	<b>Requested Amount</b>
Food Safety, Toxicology, Utilization	Diagnostic Services for Vomitoxin (DON) in Wheat.	\$70,000.00
	<b>Requested Total</b>	<b>\$70,000.00<sup>1</sup></b>

\_\_\_\_\_  
 Principal Investigator

\_\_\_\_\_  
 Date

<sup>1</sup> Note: The Requested Total and the Award Amount are not equal.

**Project 1: Diagnostic Services for Vomitoxin (DON) in Wheat.**

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

The major issue is *Fusarium* head blight or scab resistance in spring wheat. The methods of resolving it involve cooperative efforts and a multi-disciplinary approach since the disease has many facets. This grant was to aid in vomitoxin testing. The most significant problem of spring wheat is vomitoxin, and these vomitoxin levels are used in the evaluation of wheat germplasm.

2. What were the most significant accomplishments?

Objective A: Provided timely DON assays (3,000 maximum) on ground samples from scientists. An additional 1,497 samples were also run for the scientists in North Dakota, Minnesota, Iowa, and South Dakota. We hired a full-time Laboratory Assistant from August through December for this project. We ran 85 samples per day for DON, 15-ADON, and nivalenol. We have also established a check sample system to compare data from the participating laboratories in Michigan, Minnesota, and North Dakota.

Objective B: Provided broad-spectrum (17 mycotoxins) GC/MS screens on 36 samples. No other screens were requested.

PI: David Berryhill

Grant: 59-0790-9-030

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 the grant. Please reference each item using an accepted journal format. If you need more space, continue the list on the next page.

None of which we are aware.