

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

Cover Page

PI:	Roger Jones
Institution:	University of Minnesota
Address:	Dept. of Plant Pathology 495 Borlaug Hall/1991 Upper Buford Circle St. Paul, MN 55108
Email:	rogerj@puccini.crl.umn.edu
Phone:	612-625-6290
Fax:	612-625-9728
Year:	FY2000 (approx. May 00 – April 01)
Grant Number:	59-0790-9-047
Grant Title:	Fusarium Head Blight Research
2000 ARS Award Amount:	\$9,659

Project

Program Area	Project Title	Requested Amount
Chemical & Biological Control	Unifrom fungicide trials to identify safe products that are effective against FHB.	\$9,900.00
	Requested Total	\$10,900.00¹

Principal Investigator

Date

¹ Note: The Requested Total and the Award Amount are not equal.

Project 1: Uniform fungicide trials to identify safe products that are effective against FHB.

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

Currently, Folicur (tebuconazole) is registered by the EPA for use on wheat and barley to suppress FHB through Section 18 specific exemption from tolerance. Tilt fungicide (propiconazole) is registered through special local need (SLN 24c) registrations. It is imperative to continue full registration efforts for these fungicides while continuing to investigate the efficacy of new and or alternative fungicides on new, important wheat and barley varieties in a relevant environment.

2. What were the most significant accomplishments?

The strobilurine BAS 500 continued to out perform standard treatments. Metconazole (Caramba) performed better than propiconazole or tebuconazole (the standard treatments). Variety selection (cultivar Ivan) substantially reduced interactions with Septoria and Leaf rust. Septoria developed in the barley trial (affecting the flag leaves). This was the first trial I have done in which levels of this disease were significant. Triazole fungicides were effective against it (particularly metconazole).

PI: Roger Jones

Grant: 59-0790-9-047

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.

Jones, R. K. 2000. Assessments of Fusarium head blight of wheat and barley in response to fungicide treatments. *Plant Disease* 84: 1021-1030.

Jones, R. K. 2001. Crop Clinics – Chemical control of wheat and barley diseases. A series of 6 presentations to growers in Northwest Minnesota. January 3-5, 2001. (182 participants)

Milus, E. A., and McMullen, M. P. 2000. Analysis of the 2000 Uniform Wheat Fungicide Trials across locations. Pages 100-104 in: *Proceedings of the National Head blight Forum*. Cincinnati, OH December 10-12, 2000.