

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

Cover Page

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| Year: | FY2000 (approx. May 00 – April 01) |
| Grant Number: | 59-0790-9-042 |
| Grant Title: | Fusarium Head Blight Research |
| 2000 ARS Award Amount: | \$4,878 |

Project

| Program Area | Project Title | Requested Amount |
|-------------------------------|--|-------------------------------|
| Chemical & Biological Control | Uniform fungicide trials to identify safe products that are effective against FHB. | \$5,000.00 |
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| | | |
| | Requested Total | \$5,000.00¹ |

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?

This work was done as part of the National Uniform FHB Fungicide Test. In this test, common fungicide treatments were applied by scientists in all cooperating states with the purpose of identifying safe and economic fungicidal treatments that effectively manage or suppress Fusarium head blight in wheat. In Kentucky, fungicides were applied to field plots at two locations during the spring of 2000. Each treatment was applied once at the beginning of crop flowering. Subsequently, disease ratings were made and yield data were collected.

2. What were the most significant accomplishments?

Extremely low disease pressure at both test sites during 2000 reaffirms that fungicides are not needed and, in fact, are an economic drain when disease pressure is insufficient to justify fungicide application. These data suggest the importance of developing disease prediction models which would indicate to farmers when and when not to spray fungicides in an attempt to manage Fusarium head blight.

PI: Don Hershman

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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.

Hershman, D. E., Jones, S., and VanSickle, S. 2000. 1999-2000 National Fusarium Head Blight Uniform Fungicide Test. IN: University of Kentucky Wheat Science 1999-2000 Research Report.

Hershman, D. E, VanSanford, D. and TeKrony, D. 2000. NCR-184 2000 Kentucky State Report. IN: Proceedings of 2000 National Fusarium Head Blight Forum, Erlanger, KY, December 2000

Presentation made to wheat growers, ag consultants and extension agents at the University of Kentucky Wheat Field Day at Princeton, KY. May 2000.