

Report of the 2005 Uniform Regional Scab Nursery for Spring Wheat Parents

Coordinator: David F. Garvin

USDA-ARS, Plant Science Research Unit
411 Borlaug Hall, University of Minnesota
1991 Upper Buford Circle, St. Paul, MN 55108

Report prepared by: David F. Garvin and Zachary Blankenheim

The Uniform Regional Scab Nursery for Spring Wheat Parents (URSN) was grown for the 11th year in 2005. Six mist-irrigated locations at Brookings, SD, St. Paul and Crookston, MN, Prosper and Langdon, ND, and Glenlea (Manitoba, Canada) were planted in 2005. The Glenlea and Crookston locations encountered problems and thus are not included in this annual report.

A total of 43 entries were included in the 2005 URSN, including the resistant checks 2375, BacUp, and ND2710, and the susceptible checks Wheaton and Oslo. The other 38 entries were contributed by university, industry, and national breeding programs. Seven of these entries were durumms, and the others were hard red spring wheat.

A core set of traits evaluated provided from most locations included scab incidence, scab severity, disease index (incidence x severity), and visual scabby kernel ratings (VSK, \cong tombstone). Additional recorded trait data such as grain deoxynivalenol content, plot yield, and heading date, are presented in individual location summary tables. Overall means for traits across locations are presented, as are relative rankings for scab incidence, severity, disease index, and VSK. Correlation coefficients are provided between scab incidence and severity, disease index, and VSK.

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Cooperators for the 2005 Uniform Regional Scab Nursery for Spring Wheat Parents

North Dakota State University (Prosper):

Mohamed Mergoum and Robert Stack

North Dakota Agricultural Experiment Station (Langdon):

John Lukach

South Dakota State University (Brookings):

Karl Glover

University of Minnesota (St. Paul, Crookston):

Jim Anderson, Ruth Dill-Macky, and John Wiersma

Agri-Food Canada, Glenlea, Manitoba:

Jeannie Gilbert and Gavin Humphreys