

Report of the 2006 Uniform Regional Scab Nursery for Spring Wheat Parents

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The Uniform Regional Scab Nursery for Spring Wheat Parents (URSN) was grown for the 12th year in 2006. Six mist-irrigated locations at Brookings, SD, St. Paul and Crookston, MN, Prosper and Langdon, ND, and Glenlea (Manitoba, Canada) were planted. The St. Paul, Prosper and Langdon locations encountered problems and thus are not included in the 2006 report.

A total of 35 entries were included in the 2006 URSN, including the resistant checks 2375, BacUp, ND2710, and the susceptible checks Wheaton and Oslo. Rugby was added this year as a durum check. The other 29 entries were contributed by university, industry, and national breeding programs. Three entries were durums, 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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