

Report of the 2007 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 13th year in 2007. Five mist-irrigated locations at Brookings, SD, St. Paul and Crookston, MN, Prosper, ND, and Glenlea, Manitoba, Canada were planted. Due to less-than-ideal environmental conditions producing suboptimal results, St. Paul and Prosper are not included in the cross-location means summary, though the results of these locations are reported individually in this report.

A total of 48 entries were included in the 2007 URSN, including the resistant checks 2375, BacUp, and ND2710, and the susceptible checks Wheaton and Oslo. Rugby was included as a durum check. The other 42 entries were contributed by 11 university, industry, and national breeding programs. Four entries were durum wheat, and the rest 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, tombstone, \approx FDK). 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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