

Report of the 2012 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 18th year in 2012. Four locations at Brookings, SD, St. Paul and Crookston, MN, and Glenlea, Manitoba, Canada were planted.

A total of 25 entries were included in the 2012 URSN, including the resistant checks 2375, BacUp, and ND2710, and the susceptible checks Wheaton and Oslo. The other entries were contributed by 5 university and government breeding programs.

A core set of traits evaluated provided from most locations included FHB incidence, FHB severity, disease index (incidence x severity), and visual scabby kernel ratings (VSK \cong tombstone \cong FDK). Additional trait data such as grain deoxynivalenol content, yield, and heading date, are presented in individual location summary tables where they were measured. Overall means for traits over locations are presented, as are relative rankings for incidence, severity, disease index, VSK and DON. Correlation coefficients are provided between incidence, severity, disease index, and VSK. Molecular marker genotypes for a set of FHB resistance QTLs and other traits are provided for entries. Adult plant leaf and stem rust reactions are also presented.

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