Registration of ‘AC Taber’ Hard Red Spring Wheat

‘AC Taber’ semidwarf hard red spring wheat (Triticum aestivum L.) (Reg. no. CV-790, PI 566823), was developed at the Agriculture Canada Research Station, Swift Current, SK, by the Arid Prairie Canada Wheat Program. Registration No. 3435 was issued for AC Taber on 10 May 1991 by the Food Production and Inspection Branch of Agriculture Canada.

AC Taber was selected from the progeny of a cross ‘HY320’*3/BW553. Resistance to common bunt [caused by Tilletia laevis Kühn in Rabenh. and T. caries (DC.) Tul. & C. Tul.] from BW553 was recombined with the high grain yield potential of the red-kerneled semidwarf HY320 (1) using a modified pedigree breeding procedure. BW553 obtained the gene Bt10, which confers resistance to common bunt, from PI 178383 via the cross ‘Red Bobs’*2/PI 178383/8*‘Neepawa’. A BC2F4-derived BC2F6 line designated L8474-D2, which exhibited promising performance, was advanced to the 1987 High Yield Wheat Pre-Cooperative test, where it was evaluated for agronomic performance, reaction to diseases, grain quality, and kernel characteristics. From 1988 to 1990 it was assessed with Biggar, exhibiting higher protein concentration, better milling quality, and improved gluten strength. A description of this cultivar has been published (2).

AC Taber has grain yield potential similar to ‘Biggar’ in the agroclimatic zones where it was tested. It matures ~2 d later than Biggar and ~1 d later than ‘Genesis’. AC Taber is ~4 cm taller than Biggar and similar in straw strength. It has both shorter and stronger culms than Genesis. AC Taber is similar to Biggar for both grain volume weight and kernel size, but has slightly larger kernels than Genesis.

AC Taber is resistant to prevalent races of stem rust (caused by Puccinia graminis Pers.:Pers.), leaf rust (caused by P. recondita Robere ex Desmaz.), and common bunt; it is moderately resistant to root rot, caused by Clavibacter michiganese (Pers.:Pers.), leaf rust (caused by Ustilago tritici (Pers.) Rostr.), and common root rot (caused primarily by Bipolaris sorokiniana Roberge ex Desmaz.), and common root rot (caused by Bipolaris sorokiniana Roberge ex Desmaz.). AC Taber is moderately susceptible to common root rot (caused primarily by Bipolaris sorokiniana Roberge ex Desmaz.). AC Taber is moderately susceptible to common root rot (caused primarily by Bipolaris sorokiniana Roberge ex Desmaz.). AC Taber is moderately susceptible to common root rot (caused primarily by Bipolaris sorokiniana Roberge ex Desmaz.).

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