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Czech Journal of Genetics and Plant Breeding

Common bunt resistance of Czech and European winter wheat cultivars and breeder lines

Dumalasová V., Leišová-Svobodová L., Bartoš P.:

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Winter wheat cultivars recently registered in the Czech Republic were tested in three-year field tests for resistance to common bunt. Seeds were inoculated with a mixture of local strains of *Tilletia tritici* and *T. laevis*. None of the cultivars displayed a higher level of resistance compared with the resistant checks. The mean percentage of bunted ears in the three test series including checks was 39%. Mean bunt infection in resistant and susceptible checks was 2% and 63%, respectively. In the European *Tilletia* cooperative test performed in Prague-Ruzyně, thirty-five winter wheat cultivars from six countries were tested during 2007–2013. The cultivars Bill, Nadro, Quebon, Samurai, Stava and Tommi exhibited infection levels below 10% in the respective years of the test.

Additionally, 75 breeding lines from six countries were tested. Infection levels below 1% were recorded in 56% of the lines and 1–10% levels in 19% of the lines. A close relationship between the resistant cvs. Tommi and Globus was confirmed using SSR allelic markers.

Keywords:

Bt genes; SSRs; *Tilletia tritici*; *Tilletia laevis*

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