

Table of Contents

In Press

Online First

Article Archive

PPS (55) 2019

PPS (54) 2018

PPS (53) 2017

PPS (52) 2016

PPS (51) 2015

PPS (50) 2014

PPS (49) 2013

PPS (48) 2012

PPS (47) 2011

PPS (46) 2010

PPS (45) 2009

PPS (44) 2008

PPS (43) 2007

PPS (42) 2006

Issue No. 1 (1-37)

Issue No. 2 (41-84)

Issue No. 3 (85-120)

Issue No. 4 (119-146)

PPS (41) 2005

PPS (40) 2004

PPS (39) 2003

PPS (38) 2002

PPS (37) 2001

PPS (36) 2000

PPS (35) 1999

Editorial Board

Ethical Standards

Reviewers 2017

For Authors

Author Declaration

Instruction for Authors

Submission Templates

Guide for Authors

Copyright Statement

Fees

Submission/Login

For Reviewers

Reaction of winter wheat cultivars and breeding lines to *Blumeria graminis* f.sp. *tritici*

Lubomír Věchet

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During 4 years, 27 cultivars and breeding lines of winter wheat (*Triticum aestivum*) were tested in small plot experiments for resistance to powdery mildew fungus. The most resistant were Frimegu, RE9607, Runal, Asset, Folke and Wasmo. The cultivars Asta (Pm2,6) and Vlasta (Pm2,6 and another not determined specific gene or minor genes of resistance) fall into resistant cultivars. It seems that the specific genes of resistance Pm2 and Pm6 are still very effective against the present Czech population of powdery mildew on wheat. Resistance of the cultivars Hereward and Tarso, having the gene of resistance Pm8, can be ascribed to an additional undetermined gene that is effective only in mature plants. The cultivars Mikon and Ramiro with partial resistance had a higher infection type and disease severity than resistant cultivars, but lower disease severity than the susceptible cultivar Kanzler.

Keywords:

Triticum aestivum; powdery mildew; disease severity; resistance

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Contact

RNDr. Marcela Braunová
Executive Editor
e-mail: pps@cazv.cz

Address

Plant Protection Science
Czech Academy of Agricultural
Sciences
Slezská 7, 120 00 Praha 2,
Czech Republic