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Horticultural Science

Occurrence of viruses on pepper plantations in the Czech Republic – Short communication

Svoboda J., Svobodová-Leišová L.:

Hort. Sci. (Prague), 39 (2012): 139-143

[fulltext]

A survey of viruses on capsicum plants in the Czech Republic was carried out in the years 2006–2010. Altogether, 375 leaf samples with symptoms suggesting viral infection were collected both from open fields and greenhouses. These samples were examined for the presence of *Alfalfa mosaic virus* (AMV), *Broad bean wilt virus*-1 (BBWV-1), *Cucumber mosaic*

virus (CMV), *Pepper mild mottle virus* (PMMoV), *Potato virus Y* (PVY), *Tobacco mosaic virus* (TMV) and *Tomato spotted wilt virus* (TSWV) by ELISA. Viruses detected in the samples were AMV, BBWV-1, CMV and PVY. The most prevalent were CMV and PVY which were present in 24 and 29% of tested samples, respectively. In some cases a complex infection of two viruses was detected. Gene sources of resistance against CMV and PVY are mentioned. The relation of virus occurrence on aphid incidence is discussed.

Keywords:

alfamovirus; fabavirus; cucumovirus; potyvirus; *Myzus persicae*

[fulltext]