

The species with the highest percentages of infected plants were P. palustris, E. pungens, wheat, rye and oats. Necrosis and death of some of the seedlings occurred only in wheat and rye. Among the 45 species in which none of the plants developed symptoms were Agropyron repens L., Bromus inermis Leys., Dactylis glomerata L., Hordeum jubatum L., H. vulgare L. var. 'Vantage', Lolium perenne L., var. 'Norlea', Poa compressa L., P. pratensis L., and 4 varieties of Zea mays L. However, since only 8 to 25 plants of each species were tested, further tests may show that some of these species can be infected.

Serological tests did not show a reaction between heat-clarified juice from wheat infected with the virus and antisera prepared against wheat streak mosaic, agropyron mosaic, hordeum mosaic or ryegrass mosaic viruses. Electron microscopic examination of grids prepared from diseased wheat by the quick dip method revealed rod-shaped particles about 750 m μ long, similar to particles of ryegrass mosaic virus.

Although the infectivity tests showed that the mosaic symptoms on P. palustris are caused by a virus, the virus does not appear to be identical with any other grass virus known in Canada.

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