

## **Survey of Barley (*Hordeum vulgare* L.) Cultivars Resistance to Mosaic Viruses and Areas Infected with Soil-Borne Barley Mosaic Viruses**

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Soil-borne barley viruses were investigated in 42 regions during 1999-2001, in Korea. Barley yellow mosaic virus(BaYMV), barley mild mosaic virus(BaMMV) and soil-borne wheat mosaic virus(SbWMV) symptoms were found in 37 regions. Crops resistance to mosaic viruses were investigated by growing them on 10 regions infected with soil-borne viruses. It was found that 10 unhulled barley, 6-beer barley, 16 rye and 2 wheat cultivars showed resistance to virus. Most of 15 Japanese cultivars showed infection symptoms but many of them showed relatively higher resistance in Iksan, Youngkwang and Yesan areas. Mixed virus infection was investigated and it was found that inter-regional species except in 10 areas, were mix infected with BaYMV and BaMMV. But in Youngkwang area all of crop species except Scheon-6 were infected only with BaYMV. Japanese cultivars were mixed infected with BaMMV and BaYMV except at Yesan region that were infected only with BaYMV.