

Occurrence of apple mosaic virus in apple orchards of Damavand province.

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Mosaic and leaf deformation symptoms were observed on apple trees in Damavand in 1999 and 2000. Yields of these trees reduced. Results of indicator plants and dot immuno binding assay showed that these trees were infected by *Apple Mosaic Virus* (ApMV). The symptoms were sever on the biginning of the growing season and their severity reduced and disappeared by temprature arising out end of the season. ApMV easily is transmited by grafting at this cause its wide distribution.

apricot orchard have been 70% effective in the peach orchard, 9430 m³ and 11800 m³ water was consumed per hectar respectively in the drip and surface sections. The figures obtained on the amount of consumed water shows 20% economy in water consumption with the drip irrigation in the peach orchad. The amount of product operation in this orchard was 51490 kg and 21420 kg per hectar respectively in the drip and surface section with 46% rise. For the water use efficiency too, in the drip section the output was 5/5 kg/m³ and in the surface section was 217 kg/ hectar, wich indicates that the use of the drip irrigation in this orchard had been 100% effective in the production output rise per the water unit.