

Research Article**Prevalence and Distribution of *Papaya ringspot virus* in Karnataka, India****Premchand U and Raghavendra K Mesta***Department of Plant Pathology, College of Horticulture, Bagalkot, University of Horticultural Sciences, Bagalkot, 587104, India; Email:: chandpremu04@gmail.com***Premchand U****Abstract**

Papaya (*Carica papaya* L.) is an important fruit crop cultivated at commercial scales in tropical and subtropical regions around the world due to its significant commercial value. However, papaya ringspot disease, caused by the *Papaya ringspot virus* (PRSV), poses a major concern in India and other regions worldwide. Between the years 2019-20 and 2020-21, a comprehensive survey was conducted across ten major papaya-growing districts in Karnataka State, India, to assess the incidence of papaya ringspot disease. The results revealed a staggering range of incidence, varying from 50.5 to 100 per cent. The affected plants exhibited typical symptoms such as green mosaic, yellow mosaic, ring spots, stunted growth, puckering of leaves, mottling, blistering, distortion of leaves, shoestring, oily streak, chlorotic spots, and distorted fruit. Notably, green mosaic was observed at all locations, irrespective of the plant's age. These findings underscore the urgent need for implementing effective control measures to combat the spread of papaya ringspot disease in Karnataka state and other affected regions. By integrating control measures, the devastating effects of PRSV can be mitigated.

Key words: *Carica papaya* L., incidence, *Papaya ringspot virus* (PRSV), survey, symptoms

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