

IMPACT OF ABIOTIC FACTORS ON THE DISEASE DEVELOPMENT OF ALTERNARIA BLIGHT OF CORIANDER CAUSING *ALTERNARIA POONENSIS* RAGUNATH

Varsha Rani, Mahendra Kumar Meena* and Kusum Mathur

Department of Plant Pathology, Rajasthan College of Agriculture, MPUAT, Udaipur-313001

Email: mahendrameena781@gmail.com

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Abstract: An investigation on Coriander susceptible cultivar Raunak-31 suffered from Alternaria blight caused by *Alternaria poonensis* Raghunath was conducted during *Rabi* October 2012 to February 2013. Five isolates were recovered from samples collected from Kota (1), Udaipur (3) and Baran (1). Of the three isolates of *A. poonensis* (Ap-01, Ap-02 and Ap-03) evaluated for pathogenic variability on pot -grown plants of susceptible cultivar Raunak-31, the maximum disease (53.2% PDI) was by isolate Ap-01 and minimum (32.4%) by Ap-03, suggesting that considerable variability exists in *A. poonensis*. Disease progress was influenced by different weather factors viz., temperature, relative humidity, sunshine and evaporation. The maximum AUDPC value (area under disease progressive curve) was 322 on plants inoculated on 21st November and the lowest (171.8) was on than inoculated on 20th December in 21- 27 February, standard week followed by maximum AUDPC value 273.7 and minimum 91.0 in 14- 20 February, standard week.

Keywords: Epidemiology, Abiotic, Raunak-31, Temperature, RH, Rainfall, *Alternaria poonensis*

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*Corresponding Author