

## **Status and management of Bacterial leaf blight (*Xanthomonas oryzae* pv. *oryzae*) of Rice through host resistance under Jammu sub-tropics**

**PREM CHINABI ARYAN, A.K. SINGH\*, V.B. SINGH, S.K. SINGH AND ANIL GUPTA**

*Division of Plant Pathology, Sher-e-Kashmir University of Agricultural Sciences and Technology, (SKUAST), Jammu 180009, Jammu and Kashmir*

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A survey of rice growing areas of Jammu, Kathua and Samba districts was conducted to assess the status of disease incidence. Maximum disease incidence was recorded in Kulian (45.33 per cent) of Jammu district and minimum at Jagatpur (15.21 per cent) of Kathua district. Overall disease incidence for all three districts was 33.53 per cent. Three varieties viz. Basmati-370, Pusa-1121 and IET-1410 were grown at different locations of Jammu district. Maximum disease incidence (45.33 per cent) was recorded IET-1410 whereas minimum incidence (34.10 per cent) was recorded in Basmati-370. In Kathua district, five varieties IET-1410, Pusa-1121, Neha, PHB-71, and Basmati-370 were grown. Maximum and minimum incidence of 40.13 per cent and 15.21 per cent respectively was recorded in IET-1410 and Neha. In Samba district, three varieties i.e. Basmati-370, Neha and Ratna were grown by most of the farmers. Maximum disease incidence 40.21 per cent was recorded in Ratna while minimum incidence 15.23 per cent was recorded in Neha. Sixteen varieties were screened to find out the resistance source against the bacterial leaf blight, out of them Jaya was found susceptible with 60.22 per cent disease severity. Whereas minimum 25.21 per cent disease severity was observed in Pusa-1121. While PUSA-1121, PR-113, PB-1 and IR-10 were moderately resistant, and varieties Basmati-370, RR-8585, PC-19, IET-1410, SJR-5, IARI-1460, Ranbir basmati, Saanwal basmati, Basmati-564, Basmati-385, Ratna were moderately susceptible.

**Key words:** Disease incidence, genotypes, bacterial leaf blight, sub-tropics and survey