

Research Article

Effect of Environmental Factors on Development of Bacterial Blight in Pomegranate

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Abstract

Studies were carried out to know the effect of environmental factors on development of bacterial blight (*Xanthomonas axonopodis* pv. *punicae*) in pomegranate (*Punica granatum* L.) during June to December (26-52nd meteorological week). Disease initiated in the month of June and increased in tune with decrease in temperature and increase in RH. Maximum disease incidence (69.2 to 74.8%) was recorded in the months of August to September when weekly minimum and maximum temperature, RH, and rainfall were 22.4 & 29.9 C; 76.1 & 81.7 per cent and 51.2 & 86.4mm, respectively. Subsequently disease was slightly decreased after September month and gradually severity on leaves and fruits were decreased up to 50 per cent in the months of October- November and finally decreased to zero level in the month of December. Overall, for both the year moderate to severe incidence of disease (63.2- 74.8%) was recorded when minimum and maximum temperature, RH, and rainfall were 9.6 & 34.6 C; 44.1 & 88.4 per cent and 34.0 & 86.4mm, respectively.

Key words: Bacterial blight, environmental factors, *Xanthomonas axonopodis* pv. *punicae*

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