

Studies on epidemiology of *Alternaria blight* of marigold (*Tagetes erecta* L.) in Madhya Pradesh

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ABSTRACT

The present studies were carried out during winter season at college of Agriculture, Gwalior to investigate the epidemiology of *Alternaria blight* of marigold. The per cent disease intensity of leaf spot in the surveyed localities of Gwalior, Morena and Bhind districts was in the range of 20.2 (Ghatigaon) to 40.6 (Akbarpur), 20.4 (Porsa) to 30.2 (Joura) and 10.8 (Roan), 27.4% (Mehgaon), respectively. The intensity of flower blight per cent in the locations of above three districts was in the range of 23.3 (Utila) to 44.0 (Akbarpur) 26.6 (Ambah) to 32.2 (Joura) and 13.2 (Roan) to 20.0 per cent (Atter). The maximum intensity of leaf spot was recorded in Gwalior district (28.65%) followed by Morena (25.31%) and Bhind (16.85%). Similar to leaf spot the maximum intensity of flower blight was also recorded in Gwalior (31.61%) followed by Morena (29.26%) and Bhind (17.01%). The oil extracts of *Neem* and *Eucalyptus* @ 5 per cent and leaf extracts of *Neem* and *Eucalyptus* @ 20 per cent were found very effective against *A. tagetica* under *in vitro* condition. Regression study reveals that with one per cent. Regression study also reveals the 52.65 per cent seed germination under disease free condition and thereafter it decreases by 0.638 per cent with unit increase (1% each) in the intensity of flower blight.

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