Management of Corynespora Leaf Spot of Blackgram

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ABSTRACT

Twelve fungicides were evaluated for their efficacy against corynespora leaf spot of blackgram caused by *Corynespora cassiicola* both *in vitro* and *in vivo*. Hexaconazole 0.2%, hexaconazole + captan 0.15% and propiconazole 0.1% inhibited 92.20, 90.86 and 87.2% of radial growth respectively over control *in vitro*. Hexaconazole 0.2%, hexaconazole + captan 0.15% and mancozeb 0.25% completely inhibited sporulation and spore germination while 0.3% copper oxychloride has recorded 99.48% inhibition on spore germination over control. Among the chemicals evaluated, lowest per cent disease index (PDI) was recorded with 0.25% mancozeb during *kharif* (14.07) and *rabi* (13.33) followed by 0.15% hexaconazole + captan which has recorded 16.30 during *kharif* and 14.81 during *rabi*. Highest yield of 10.95 and 10.49 q ha^{-1} with B: C ratio of 2.11 and 2.06 were obtained in 0.15% hexaconazole + captan combination treatment during *kharif* and *rabi* 2012-13, respectively.

Key words : Blackgram , Corynespora leaf spot, Fungicides.