Efficacy of New Fungicides and Essential Oils Against Powdery Mildew and Corynespora Leaf Spot of Blackgram

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ABSTRACT

A field experiment was conducted to evaluate the efficacy of new fungicide molecules and two essential oils against powdery mildew and corynespora leaf spot in blackgram for two consecutive seasons i.e. during Rabi 2009-10 and 2010-11 at Regional Agricultural Research Station, Lam, Guntur, Andhra Pradesh. The results showed difenconazole @ 0.5 ml/lt or carbendazim @ 1.0 g/lt were highly effective against powdery mildew in blackgram, while hexaconazole @ 2.0 ml/lt, propiconazole @ 1.0 ml/lt and mancozeb @ 2.5 g/lt found highly effective against corynespora leaf spot in blackgram. But essential oils such as winter green oil and Eucalyptus oil were failed in suppressing both the diseases in blackgram. The seed yield was highest from the plots treated with hexaconazole @ 2.0 ml/lt during both the years of experimentation.

Key words : Corynespora leaf spot, Essential oils, New fungicide molecules, Powdery mildew, Urdbean.