

Field Efficacy of Fungicides towards Management of Fungal Foliar Diseases in Cotton

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ABSTRACT

Four fungicides viz., hexaconazole, propiconazole, hexaconazole + captan, mancozeb, individually and their combinations were tested against fungal foliar diseases in cotton at Regional Agricultural Research Station, Lam, Guntur during *kharif* 2018-2019. Hexaconazole @ 0.2% was superior with 4.41 per cent disease index (PDI) against *Alternaria* leaf spot, *Corynespora* leaf spot (2.50 PDI), grey mildew (4.17 PDI) and rust (4.66 PDI) followed by hexaconazole + captan @ 0.1% which found effective towards *Alternaria* leaf spot (5.00 PDI), *Corynespora* leaf spot (3.06 PDI), grey mildew (4.73 PDI) and rust (5.00 PDI), whereas unsprayed control recorded *Alternaria* leaf spot (23.5 PDI), *Corynespora* leaf spot (7.0 PDI), grey mildew (10.33 PDI) and rust (12.5 PDI). The fungicides, hexaconazole, hexaconazole + captan, mancozeb were statistically on a par with each other. The yields in different treatments ranged between 3613 to 3373 kg/ha which were significantly *at par* while control recorded 2587 kg/ha. The highest yield increase was recorded with hexaconazole (39.69%) followed by hexaconazole + captan (37.63%). Cost benefit ratio varied from 2.20 to 3.06 in different treatments.

Key words: *Alternaria leaf spot, Corynespora leaf spot, Cotton, Field efficacy, Fungicides, Grey mildew and Rust.*