



RESEARCH ARTICLE

DOI: 10.15740/HAS/IJFCI/9.2/48-52

## Evaluation of selected fungicides against false smut disease of rice caused by *Ustilaginoidea virens*

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**ABSTRACT :** The present study was conducted to find out suitable management options against this disease, a field trial was carried out using six fungicides viz., Coper hydrocide 77% WP @ (0.10%), Trifloxystrobin + Tebuconazole 75WG (0.04 %), Propaconazole 25 EC (0.10%), Kresoxim methyl 44.3 SC (0.04 %), Copper oxychloride (0.25 %) and Carbendazim 50 WP (0.10 %). There was significant difference among the treatments in false smut disease severity and yield. The best results was obtained in treatment of spraying rice field by Trifloxystrobin + Tebuconazole 75WG with maximum reduction in disease severity (68.6) and disease incidence (48.1), which gave least disease severity (1.6 %) and disease incidence (8.6), it was at par with the treatment propiconazole 25 EC (2.6 %), followed Kresoxim Methyl 44.3 SC (2.9). However Carbendazim 50 per cent WP treated plots showed highest (4.0%) disease severity and 15.8 per cent disease incidence. In terms of grain yield, the treatment with Trifloxystrobin + Tebuconazole 75WG gave maximum increase (23.6 %) in yield and 15.2 per cent increase in 1000 grain weight, it is followed by Propaconazole 25 EC with 21.6 per cent increase in grain yield and 10.6 per cent increase in 1000 grain weight. The least percentage increase of grains yield (11.13%) and 1000 grain weight (4.0%) was recorded in carbendazim sprayed plots.

**KEY WORDS :** False smut, Management, Fungicides, *Ustilaginoidea virens*

**HOW TO CITE THIS ARTICLE :** Khan, Ashraf Ali and Singh, A.K. (2018). Evaluation of selected fungicides against false smut disease of rice caused by *Ustilaginoidea virens*. *Internat. J. Forestry & Crop Improv.*, 9 (2) : 48-52, DOI: 10.15740/HAS/IJFCI/9.2/48-52. Copyright@ 2018: Hind Agri-Horticultural Society.

**ARTICLE CHRONICAL :** Received : 24.10.2018; Revised : 15.11.2018; Accepted : 26.11.2018

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