



RESEARCH PAPER

Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC : A new fungicide for controlling fungal diseases in wheat

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Abstract : Wheat (*Triticum aestivum* L.) is one of the most important staple food crop of the world affected by yellow rust, brown rust and other foliar diseases which infect leaves, stems and ears causing up to 32 per cent crop loss. Hence, an investigation was initiated to study the bio-efficacy of different standard and new fungicides against various diseases of wheat. A twoyear field experiment was conducted at instructional farm of Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya, Krishi Vigyan Kendra, Sheopur during 2017-18 and 2018-19 in randomized block design replicated three times. Pre-mixture of Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC is a new fungicide combination effective against fungal disease in wheat. Eight treatment were imposed viz., Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC @ 50 g ai/ha, Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC @ 100 g ai/ha, Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC @ 150 g ai/ha, Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC @ 200 g ai/ha, Fluxapyroxad 300 g/l SC @ 167 g ai/ha, Pyraclostrobin 20% WG @ 100 g ai/ha, Azoxystrobin 18.2% w/w + Difenconazole 11.4% w/w SC @ 0.3 g/l of water along with one untreated control. Two sprays were taken up at 15 days interval during flowering stage. Among the various treatments, Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC @ 200 g ai/ha recorded significantly lower per cent disease incidence on wheat crop (5.21 per cent) than control (21.87 per cent). The same treatment recorded highest yield (5650 kg/ha) while control plot yielded least (3394 kg/ha). There were no visual phytotoxicity symptoms observed in terms of chlorosis, necrosis, epinasty, leaf injury, wilting and hyponasty on wheat crop by Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC treatment even at 300 g ai/ha. The current study indicated that two sprays of Fluxapyroxad 167 g/l + Pyraclostrobin 333 g/l 500 SC @ 200 g ai/ha would be a suitable option for the control of yellow rust, brown rust and other foliar diseases in wheat.

Key Words : Wheat, Fluxapyroxad, Pyraclostrobin, Disease, Yield

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