



RESEARCH ARTICLE :

Bispyribac sodium – Early post-emergence herbicide for weed control in aerobic rice (*Oryza sativa* L.)

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ARTICLE CHRONICLE :

Received :

11.07.2017;

Accepted :

26.07.2017

SUMMARY : An experiment was conducted to evaluate the effect of bispyribac sodium for weed control in aerobic rice (*Oryza sativa* L.), consisting of 11 treatments comprising two components, dose (20 g a.i/ha, 25 g a.i/ha and 30 g a.i/ha) and time of application of herbicide (10 DAS, 15 DAS and 20 DAS). Along with this, hand hoeing at 20 and 40 DAS and unweeded control plots were also maintained for comparison. Among various doses, bispyribac sodium 25g/ha and among different time of application, bispyribac sodium at 10 DAS was found to be effective against weeds by registering the lowest weed density, dry weight, nutrient removal and recorded highest weed control efficiency throughout the crop growing season. As the weeds were checked effectively application of bispyribac sodium 25 g/ha at 10 DAS recorded higher growth and yield attributes, substantially increased the yield of aerobic rice by 0.9 times than unweeded control. Due to higher yield and lower cost of weed control application of bispyribac sodium 25 g/ha at 10 DAS registered highest net returns and B:C ratio (2.63) and hence, will be a suitable weed management option in aerobic rice for higher profit.

KEY WORDS :

Aerobic rice,
Bispyribac sodium,
Weed control, Dose,
Time of application

How to cite this article : Pavithra. M., Poonguzhalan, R., Narayanan, A.L. and Sundaravarathan, S. (2017). Bispyribac sodium – Early post-emergence herbicide for weed control in aerobic rice (*Oryza sativa* L.). *Agric. Update*, 12(TECHSEAR-1) : 270-276; DOI: 10.15740/HAS/AU/12.TECHSEAR(1)2017/270-276.

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