

Research Article

Effect of foliar application of micronutrients on the yield components of rice and soil available micronutrients status

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Received : 30.03.2013; Revised : 30.10.2013; Accepted : 08.11.2013

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Summary

To meet the challenges of increasing food and fibre requirements for the burgeoning population of our country, the productivity has to be increased. The high productivity target with intensive cropping system, use of high analysis fertilizers has resulted in the development of micronutrient deficiencies in Indian soil. Foliar fertilization of micronutrients is quick, cheap and economical in overcoming deficiencies and increasing yield of crops. Keeping this in mind, field experiments were conducted at Annamalai University Experimental Farm, to study the effect of foliar application of micronutrients on the yield components and available micronutrients status by rice. Among the different concentration of kiecite evaluated, application of 1.0 per cent level has significantly increased the yield characters viz., number of tillers (6.67 productive tillers), grains per panicle (103.57) and 1000 grain weight (20.53 g). The available nutrients in the soil viz., Fe, Mn, Zn, Cu and B (3.44, 7.86, 2.43, 1.68 and 0.53 ppm) were also significantly increased with 1.0 per cent kiecite application as compared to control (2.18, 4.87, 1.83, 0.98 and 0.52), respectively.

Key words : Rice, Micronutrients, Foliar nutrition, Yield, Availability**How to cite this article :** Radhika, K., Hemalatha, S., Maragatham, S. and Kathrine, S. Praveena (2013). Effect of foliar application of micronutrients on the yield components of rice and soil available micronutrients status. *Asian J. Soil Sci.*, **8**(2): 419-421.