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“Development on the margin”

Effect Zn-edta Foilar Sppray on Some Traits of Rice(*oryza Sativa*)cv.shiroodi

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Abstract

Micronutrients are important for crop production and their availability in soil can rapidly decrease due to their chemical properties. Hence, in this experiment rice (*Oryza sativa* L.) varieties were sprayed with chelated zinc sulfate to investigate its subsequent effects on plant growth under field conditions, in 2010. The experiment was performed in the Rice Research Station of Shiroudi, Tonekabon, Iran, on the basis of a completely randomised block design with five levels of chelated zinc sulfate at control, 0.2, 0.4, 0.6 and 0.8 % with 13 % purity. The chelated compound was sprayed on rice plants in plots measuring 3 × 6 m. Accordingly, the plant height and tillers as well as chlorophyll concentration and harvest index of rice varieties were measured. The results showed that spraying rice plants with chelated zinc sulfate can be a suitable method to supply the necessary Zn for rice production.

Keywords: Chlorophyll, grain quality, harvest index, rice (*Oriza sativa* L.) yield