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Research Article

Effect of sources and time of fertilizer application on tuber yield, secondary and micro nutrient content and uptake of potato cv. KUFRI JYOTI

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Summary

A field experiment was conducted during *Kharif* 2009 at Agricultural College Farm, Karekere, Hassan on sandy loamy soil to study the effect of different sources and time of fertilizer application on tuber yield, nutrient content and uptake of potato under rainfed condition. The experiment was laid out in a randomized complete block design with fourteen treatments replicated thrice. The potato tuber yield 16.50 t ha^{-1} with the application of fertilizers as per the farmers practice and FYM @ 25 t ha^{-1} alone 10.92 t ha^{-1} was significantly lower than that obtained with application of recommended dose of fertilizer from different sources along with FYM @ 25 t ha^{-1} (20.64 to 22.24 t ha^{-1}). However, the highest tuber yield of 22.24 t ha^{-1} was obtained with the application of recommended dose of fertilizer through DAP, urea and SOP along with FYM @ 25 t ha^{-1} which was at par with the tuber yield recorded in other recommended dose of fertilizer treatments. The content and uptake of secondary and micronutrient in haulm and tuber increased with the application of recommended dose of fertilizer through different sources and their time of application as compared to that observed with farmers practice.

Key words : Sources, Fertilizer application, Nutrient content and Uptake

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