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Research Article

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Effect of different dose of fertilizer application on growth parameter of chilli and uptake and micronutrient concentration after harvest of the crop

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Summary

Field experiment was conducted during *Kharif* 2011 on a farmer's field in Koliwad (Hubli Taluk) village in northern transitional zone of Karnataka between 15°21' N latitude and 75°24' E longitude and at an altitude of 629 m above mean sea level (MSL). In the soil test crop response dose of 216:116:166 N:P_2O5:K_2O kg ha^{-1}, recorded significantly higher plant height (95.4cm) over remaining treatments. This was at par with treatments T_5 (93.5 cm) and lowest plant height (85.8 cm) was recorded in RDF (T_1) at harvest. T_2 (STCR) registered highest number of branches (30.2), which was significantly superior over remaining all the treatments. The application of STCR dose of N, P_2O_5 and K_2O (T_2) recorded higher dry matter production (120.7 g) which was significantly superior over RDF (T_1), STL (T_3) and modified RDF_1 (T_4). The concentration of N, P and K were higher in the treatment T_2 (STCR dose N, P_2O_5 and K_2O) as compared to rest of the treatments. There was significant difference among treatments with respect to zinc concentration in plant as the soil was deficient in zinc.

Key words : Growth parameter, Chilli, Nutrient concentration, Dry matter production

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