

Research Article

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Influence of lime, zinc and boron on soybean yield and nutrient availability in lateritic soil of Konkan

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Summary

A field experiment was conducted during *Kharif* on lateritic soil of Botany Farm, College of Agriculture, Dapoli in Konkan region of Maharashtra to study the effect of lime, zinc and boron on soybean yield and available nutrients in soil during crop growth. The experiment was laidout in Randomized Block Design with three replications. The treatments consisting two levels of liming *i.e.* ½ LR and 1 LR in combination with soil and foliar application of Zn and B in their combinations. The results of the experiment showed significantly increased the grain (25.52 q ha⁻¹) and straw (37.29 q ha⁻¹) yield of soybean due to application of 1 LR+ Zn +B through soil and foliar spray along with RDF. The available major as well as secondary nutrients at grand growth period and at harvest of soybean significantly recorded highest values of available N, P₂O₅, K₂O and S exchangeable Ca and Mg and available S with treatment RDF +1 LR + Zn and B through soil and foliar spray, closely followed by application RDF +1 LR + B through soil and foliar spray.

Key words : Lime, Zinc, Boron, Soybean, Yield, Available major, Secondary nutrients

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