

Yield, uptake and available nutrient contents as Influenced by Organic and Inorganic Sources of Nitrogen in Soybean-Maize Cropping System.

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ABSTRACT

Effect of different organic sources of nitrogen with inorganic fertilizers on yield, yield attributes, availability and uptake of nutrients in soybean-maize cropping system was studied in a field experiment. Highest soybean yield 12.9 q ha⁻¹ was obtained with the application of 75% of recommended dose of nitrogen along with 100% recommended dose of P K through inorganic fertilizers + 25% recommended dose of nitrogen through vermin compost. Availability of nutrients in soil was improved consequently. The uptake of nutrients and available nutrient contents after soybean were improved with treatments that received integrated use of organic manures in combination with recommended dose of nutrients through inorganic fertilizers.

Key words : Farmyard manure, Poultry manure, Recommended dose of fertilizer, Vermicompost.