



Research Article

# Influence of integrated nutrient management on growth, yield, nutrient uptake and economics of vegetable soybean

K. SUNILKUMAR, ANDANI GOWDA, R. NAGARAJ, P. VEERANAGAPPA, R. JAYAPRAKASH AND SHANKARGOWDAPATIL

**ABSTRACT :** A field experiment was conducted at Zonal Agricultural Research Station, University of Agricultural Sciences, Gandhi Krishi Vignana Kendra, Bengaluru, during *Kharif* 2011 to study the influence of integrated nutrient management on growth, yield and nutrient uptake of vegetable soybean. Application of 125 % RDF (75 % N through fertilizer + 25 % through compost) + triple microbial inoculations recorded significantly higher growth parameters *viz.*, plant height (40.22 cm), number of trifoliolate leaves (20.95), leaf area (1214.83 cm<sup>2</sup> plant<sup>-1</sup>) and total dry matter accumulation (32.33 g plant<sup>-1</sup>), vegetable pod yield (95.30 q ha<sup>-1</sup>), haulm yield (294.80 q ha<sup>-1</sup>). The same treatment also recorded higher N, P and K uptake (178.54, 29.84 and 143.75 kg ha<sup>-1</sup>, respectively) followed by 100 % RDF (75 % N through fertilizer + 25 % through compost) + triple microbial inoculations.

**KEY WORDS :** Vegetable soybean, Growth, Yield, Nutrient uptake

**How to cite this Article :** Sunilkumar, K., Andani Gowda, Nagaraj, R., Veeranagappa, P., Jayaprakash, R. and Patil, Shankargowda (2013). Influence of integrated nutrient management on growth, yield, nutrient uptake and economics of vegetable soybean, *Internat. J. Forestry & Crop Improv.*, 4 (1) : 24-27.

**Article Chronical :** Received : 01.01.2013; Revised : 16.05.2013; Accepted : 24.05.2013

## MEMBERS OF RESEARCH FORUM

**Address of the Correspondence :**

**R. NAGARAJ**, Zonal Agricultural Research Station, Brahmaver, UDUPI (D), BENGALURU (KARNATAKA) INDIA  
Email : nags525@gmail.com

**Address of the Coopted Authors :**

**K. SUNILKUMAR AND ANIL GOWDA**, Department of Agronomy, University of Agricultural Sciences, G.K.V.K., BENGALURU (KARNATAKA) INDIA

**P. VEERANAGAPPA**, Department of Soil Science, University of Agricultural Sciences, G.K.V.K., BENGALURU (KARNATAKA) INDIA

**R. JAYAPRAKASH**, Department of Soil Science, Krishi Vigyan Kendra, Brahmaver, UDUPI (D), BENGALURU (KARNATAKA) INDIA

**SHANKARGOWDA PATIL**, College of Agriculture, CHINTAMANI (KARNATAKA) INDIA