

# **Effect of Integrated Phosphorus Management on Drymatter Production, Secondary and Micronutrient uptake of French bean (*Phaseolus vulgaris* L.) in Alfisols of Tirupati**

**P Venkata Subbaiah, K Venkaiah and M V S Naidu**

Department of Soil Science and Agricultural Chemistry, S V Agricultural College,  
Tirupati 517 502

## **ABSTRACT**

A field experiment was conducted in *rabi* season of 2006, to study the effect of integrated use of inorganic fertilizers coupled with organic manures and phosphate solubilizing bacteria on drymatter production, uptake of Ca, Mg, S, Fe, Mn, Zn and Cu in French bean at different growth stages of the crop in alfisols (*Typic Haplustalf*) of Tirupati. The results revealed that applications of 80 per cent of recommended dose of fertilizers along with 20 per cent phosphorous through poultry manure and phosphate solubilizing bacteria @ 25 kg ha<sup>-1</sup> recorded highest uptake of Ca, Mg, S, Fe, Mn, Zn and Cu at different growth stages of crop.

**Key words** : Drymatter, Integrated, Phosphorus, Micronutrient.