

Research Article

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Nutrients status of soil as influenced by varied levels of sulphur and organic sources of soybean (*Glycine max* L.) in *Alfisols* of Karnataka

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Summary

A field experiment was conducted during *Kharif* 2016 to study the nutrients status of soil as influenced by varied levels of sulphur and organic sources of soybean (*Glycine max* L.) in *Alfisols* of Karnataka at Palanahalli, Magaditaluk, Ramanagara district. The experiment comprised application of 50 per cent and 100 per cent of NPK fertilizers, varied levels of sulphur and sources of organics in combination with seventeen treatments replicated thrice with RCBD. The experimental results revealed that the application of 100% RDF + poultry manure at 6 t ha⁻¹ and gypsum at 20 kg ha⁻¹ through gypsum (T₈) had shown significantly higher the major available nutrients such as nitrogen (281.33 kg ha⁻¹), phosphorus (45.55 kg ha⁻¹) and potassium (295 kg ha⁻¹) after the harvest of soybean. Whereas maximum available secondary and micronutrients were recorded in T₉ which received 100 % RDF + poultry manure at 6 t ha⁻¹ + sulphur 40 kg ha⁻¹ through gypsum and it was on par with treatment T₈ which received 100% RDF + poultry manure 6 t ha⁻¹ + sulphur 20 kg ha⁻¹ through gypsum as compared to rest of the treatments.

Key words : Nutrients, Sulphur, Organic, Soybean, *Alfisols***How to cite this article :** Sahebagouda, Chikkaramappa, T. and Basavaraja, P. K. (2019). Nutrients status of soil as influenced by varied levels of sulphur and organic sources of soybean (*Glycine max* L.) in *Alfisols* of Karnataka. *Asian J. Soil Sci.*, 14 (1&2) : 79-86 : DOI : 10.15740/HAS/AJSS/14.1and2/79-86.