

Research Article

Effect of integrated nutrient supply on distribution of different forms of nitrogen and phosphorus in soil

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A field experiment was conducted to evaluate the effect of chemical fertilizers, *Azotobacter* and phosphorus solubilizing bacteria on the amount and distribution of nitrogen (N) and phosphorus (P) fractions in soil after two cycles of soybean-safflower cropping system. Application of chemical fertilizers alone or their combined use with *Azotobacter* and phosphate solubilizing bacteria significantly increased all the forms of nitrogen over their control or their initial status. Among the various N fractions, total hydrolysable-N was dominant N fraction. The amount of P recovered in all the form increased significantly over control. The highest amount of all the forms of P was recorded under chemical fertilizers combined with *Azotobacter* and phosphate solubilizing bacteria.

Key words : Integrated nutrient supply, Nitrogen fractions, Phosphorus fractions, Distribution**How to cite this article :** Chikshe, S.V., Dhawan, A.S. and Dhamak, A.L. (2013). Effect of integrated nutrient supply on distribution of different forms of nitrogen and phosphorus in soil. *Asian J. Soil Sci.*, **8**(2): 355-358.