



**RESEARCH ARTICLE :**

## Effect of NPK application through different approaches on yield and major nutrient uptake by finger millet (*Eleusine coracona* L.) under rainfed conditions

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**SUMMARY :** A field experiment was conducted on alfisols during 2013 of Zonal Agricultural and Horticultural Research Station, College of Agriculture, Navile, Shivamogga. To study the effect of NPK application through different approaches on yield and major nutrient uptake by finger millet (*Eleusine coracona* L.) under rainfed conditions. A total of nine treatments were tried in a Randomized Complete Block Design (RCBD) with three replications. The treatments comprise of RDF + compost 10 t ha<sup>-1</sup>, RDF + 50 % NK + compost 10 t ha<sup>-1</sup>, STCR based NPK + compost 10 t ha<sup>-1</sup>, STL based NPK + compost 10 t ha<sup>-1</sup>, RDF through enriched compost, RDF + 50% NK through enriched compost, STCR based through enriched compost, STL based through enriched compost, with a control. The results revealed that application of STCR based NPK and compost 10 t ha<sup>-1</sup> for targeted yield 40 q ha<sup>-1</sup> recorded a highest grain yield (3238.00 kg ha<sup>-1</sup>) and straw yield (8926.00 kg ha<sup>-1</sup>). Similarly higher uptake was recorded in STCR based NPK + compost 10 t ha<sup>-1</sup> both in grain and straw. The highest partial factor productivity was recorded in T<sub>2</sub> which receive NPK + 50 % NK + compost 10 t ha<sup>-1</sup>.

**KEY WORDS :**

STCR, Target yields  
STL, Partial factor  
productivity

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