

Yield and Nutrient Uptake of Rice (*Oryza sativa* L.) as Influenced by Interventions in Nutrient Management under the System of Rice Intensification

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ABSTRACT

Field experiment conducted at the Agricultural College Farm, Bapatla on sandy clay soils showed significant variations in grain yield, straw yield and harvest index with the interventions in nutrient management for rice under the System of Rice Intensification. Better grain yield, straw yield and harvest index were recorded with the application of 125% Recommended Dose of Fertilizer (RDF) for Conventional Rice (CR) along with 10 t or 5 t FYM ha⁻¹. Uptake of nutrients (NPK) measured at all the sampling intervals significantly affected by interventions in nutrient management and followed the trend shown by dry matter accumulation and yield. At all the stages, higher uptake was recorded by the application of 125% RDF for CR along with 10 t FYM ha⁻¹, which was closely followed by that of the same level of RDF with 5 t FYM ha⁻¹.

Key words : Grain Yield, Nutrient Management, Nutrients Uptake, Rice, System of Rice Intensification