

Effect of Nitrogen Levels, Bio-Fertilizers and FYM on Content and Uptake of Nutrients by Rice-Fallow Sorghum

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ABSTRACT

A field experiment was conducted during 2012 at Agricultural College Farm, Bapatla to study the effect of inorganics, bio-fertilizers and FYM on nutrient content and uptake of nutrients by rice-fallow sorghum. The nitrogen content of sorghum plants at flowering and harvest was markedly influenced by the treatments with highest N recorded in treatment supplied with 150 kg N ha⁻¹ + FYM + Bio-fertilizers. The effect of treatments on other nutrients in plants was non-significant. The uptake of macro and micronutrients at harvest was markedly influenced by the treatments with maximum values recorded by the treatment that received 150 kg N ha⁻¹ + FYM + Bio-fertilizers, which was at par with 150 kg N ha⁻¹ + FYM and 120 kg N ha⁻¹ + FYM + Bio-fertilizers.

Key words : Bio-fertilizers, Nutrient uptake, Nutrient content, Organic manure.