

**EFFECT OF TILLAGE PRACTICES AND INTEGRATED NUTRIENT  
MANAGEMENT ON GROWTH, ANALYSIS PARAMETERS OF SORGHUM  
(SORGHUM BICOLOR L.)**

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**Abstract:** An experiment was conducted during kharif 2009 & 2010 at the Rajmata Vijayaraje Scindia Krishi Vishwa Vidyalaya College of Agriculture, Indore (M.P.) to study on the effect of tillage practiced and integrated nutrient management on growth, analysis parameters of sorghum. Tillage practices influenced only leaf area significant; chlorophyll content and leaf area index remained unchanged at all the growth stages. Reduced tillage encouraged all these parameters are others. Amongst INM treatments, 100% RDF (N<sub>80</sub> P<sub>40</sub>K<sub>40</sub>) recorded above parameters up to maximum. Crop growth rate, relative growth rate and net assimilation rate remained unchanged due to tillage practices and INM treatments, reduced tillage recorded maximum Dry matter, grain and stover yields. In case of integrated nutrient management, 100% Recommended dose of fertilizer (80:40:40) and 75% Recommended dose of fertilizer (60:30:30) +5t FYM/ ha recorded equally higher grain and stover yields, being significantly superior to other fertility levels.

**Keywords:** Tillage practices, Integrated nutrient management, Growth analysis parameters, Sorghum

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