

# Studies on Growth Analysis and Grain Yield in Rice under SRI Cultivation

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## **ABSTRACT**

Two field experiments were conducted during *kharif* seasons of 2007 and 2008 at wetland farm of S.V.Agricultural College Tirupathi to analyze the growth and grain yield in rice under SRI cultivation. The results revealed that significant differences were observed among the varieties and age of seedlings with regard to growth parameters and grain yield at all stages of plant growth. Maximum CGR, RGR, NAR, LAD, SLW and grain yield was produced by SRI -8 days followed by SRI-12 days and least in conventional method -21 days. Among the varieties tested, BPT5204 recorded higher CGR, RGR, NAR, LAD, SLW and grain yield followed by DRRH-2, NLR-145 and BPT3291 .The interaction between varieties and age of seedling was significant.

**Key words** : Crop growth rate, Grain yield, Growth analysis, Net assimilation rate, System of rice intensification