

On Farm Evaluation of System of Rice Intensification

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ABSTRACT

An on farm trial was conducted in farmers' fields in Guntur district during *kharif* season in 2004-05 and 2005-06 to evaluate the performance of System of Rice Intensification (SRI) against farmers' practice to increase the rice productivity. The package of practices as recommended for SRI was adopted and the influence on crop growth, yield parameters and yield was studied. In SRI, total number of tillers per hill increased by 119 per cent, number of effective tillers per hill was increased by 56.67 per cent and number of filled grains in panicle was increased by 13.30 per cent when compared to farmers' practice. The increase in number of tillers, number of effective tillers and number of filled grains per panicle has resulted in the increase of grain and straw yield in SRI. An increase of 23.69 per cent in grain yield was recorded in SRI (68.28 q ha⁻¹) when compared to farmers' practice (55.20 q ha⁻¹). The straw yield was also increased by 32.03 per cent (79.35 q ha⁻¹) in SRI when compared to farmers' practice (60.10 q ha⁻¹).

Key words : Grain yield, On farm evaluation, Rice, Straw yield, System of rice intensification,