

# **Influence of Plant Densities and Nitrogen Levels on Yield of Transplanted Rice**

**Y Radha Krishna, S V S Gopala Swamy and M V Ramana**

Agricultural Research Station, Ghantasala, Krishna Dt. – 521 133, Andhra Pradesh, India.

## **ABSTRACT**

A field experiment was conducted to study the influence of different plant densities and nitrogen levels on rice performance at Agricultural Research Station, Ghantasala, Krishna District, Andhra Pradesh during the *kharif* seasons of 2009 and 2010. There were three plant densities (spacing); 16 hills/m<sup>2</sup> (25 x 25 cm), 25 hills/m<sup>2</sup> (20 x 20 cm) and 33 hills/m<sup>2</sup> (20 x 15 cm) as main treatments and four nitrogen levels; 80, 120, 160 and 200 kg N ha<sup>-1</sup> as sub treatments in split plot design replicated thrice. The results indicated that planting patterns with different plant densities had no significant influence on yield attributing characters and yield. But the application of nitrogen at 120 kg/ha resulted in optimum grain yield of the rice crop.

**Key words :** Rice, Plant Densities and Nitrogen Levels.