

Effect of Levels and Time of Nitrogen Application on Yield and Quality of Scented Rice Under Aerobic Culture

Ganga Devi M and Sumathi V

Department of Agronomy, S V Agricultural College, Tirupati 517 502, Andhra Pradesh

ABSTRACT

The experiment was conducted during *rabi*, 2007 at Dryland block of S.V. Agricultural College, Tirupati, to study the effect of levels and time of nitrogen application on yield and quality of scented rice under aerobic culture. The experiment was laid out in a randomized block design with factorial concept and replicated thrice. The treatments consisted of four levels of nitrogen viz., 100, 125, 150 and 175 kg N ha⁻¹ factorially combined with four split applications viz., $\frac{1}{2}$ basal + $\frac{1}{4}$ at active tillering + $\frac{1}{4}$ at panicle initiation, $\frac{1}{3}$ basal + $\frac{1}{3}$ at active tillering + $\frac{1}{3}$ at panicle initiation, $\frac{1}{4}$ basal + $\frac{1}{4}$ at active tillering + $\frac{1}{4}$ at panicle initiation + $\frac{1}{4}$ at heading and $\frac{1}{4}$ basal + $\frac{1}{4}$ at active tillering + $\frac{1}{4}$ at panicle initiation + $\frac{1}{4}$ at flowering. The results indicated that yield and grain quality parameters of scented rice under aerobic culture recorded significantly highest values with 150 kg ha⁻¹ nitrogen and four equal splits of nitrogen at $\frac{1}{4}$ at basal, $\frac{1}{4}$ at active tillering + $\frac{1}{4}$ at panicle initiation + $\frac{1}{4}$ at heading.

Key words: Aerobic culture, Nitrogen, Scented rice.