

Effect of Integrated Nitrogen Management on Growth, Yield, Nutrient Uptake and Economics of Aerobic Rice (*Oryza sativa* L.)

P Aruna and G Prabhakara Reddy

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

ABSTRACT

A field experiment was conducted at the wetland farm of S.V. Agricultural College, Tirupati during *rabi* 2008-09 to study the effect of supplementation of nitrogen through organic sources on aerobic rice. The study was laid out in a randomized block design, replicated thrice with ten treatments proposed with neem leaf and farm yard manure in combination with fertilizer nitrogen. Among all the treatments, application of 100% N through fertilizer has resulted in highest growth, yield and nutrient uptake of aerobic rice, which were however, on par with 25% N through FYM+75 % N through fertilizer (T_3) and 25% N through NLM + 75 % N through fertilizer (T_7). The maximum net returns and benefit cost ratio were recorded with 100% N through fertilizer.

Key words : Aerobic rice, Economics, Growth, Nutrient uptake, Yield.