

Targeted Yield Based Fertilizer Doses under Integrated Nutrient Management in Rice

D Mounika, M Martin Luther, K Chandra Sekhar, G Kishore Babu and K Jaya Lalitha

Department of Agronomy, Agricultural College, Bapatla, A. P.

ABSTRACT

A field experiment was conducted at the Agricultural College farm, Bapatla, during *kharif* 2017-18 and 2018-19 with the variety BPT-5204 in a Randomized Block Design comprising ten treatments and three replications. The maximum plant height, drymatter accumulation and number of tillers m^{-2} were recorded with soil test based fertilizer recommendation using $10 t ha^{-1}$ FYM application, which was on par with soil test based fertilizer recommendation applied alone and $7.5 t ha^{-1}$ targeted yield recommendation along with FYM (T_5 and T_{10}), and RDF with FYM (T_6). Grain yield of rice was significantly higher with soil test based fertilizer recommendation along with $10 t ha^{-1}$ FYM application which was statistically on par with soil test based fertilizer recommendation alone (T_2) and $7.5 t ha^{-1}$ targeted yield fertilizer recommendation with FYM (T_{10}) compared to the rest of the treatments.

Keywords: *Nutrient Management, Rice, STFR and Targeted yield fertilizer recommendation.*