

Influence of varieties and N levels on growth and yield of rice in coastal Andhra Pradesh

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ABSTRACT

A field experiment was conducted entitled “Performance of new rice varieties to varied nitrogen levels in coastal Andhra Pradesh” in the Agricultural College Farm, Bapatla, Andhra Pradesh during *kharij*, 2024. The experiment was laid out in a split plot design with four main plots and five subplots which were replicated four times. The varieties *viz.*, BPT 2846, BPT 2782, BPT 3050 and BPT 5204 selected as main plot treatments while nitrogen levels *viz.*, Control (no nitrogen), 100% RDN, 75% RDN + 25% N Green manure incorporation, 75% RDN + 25% N FYM (Farm Yard Manure) and 75% RDN + Bio fertilizer consortium as sub plot treatments. Results revealed that BPT 3050 rice variety performed better by recording greater values of growth and yield parameters than other varieties. Among nitrogen levels, supply of 100 per cent recommended dose of nitrogen recorded higher values of growth, yield parameters and yield. However integrating the organic sources of nutrients *viz.*, farmyard manure or green manure along with 75 per cent of recommended dose of nitrogen also performed on par with 100% N as inorganic sources for all biometric observations.

Keywords: *Biofertilisers, Consortium, Farmyard manure, Green manure and Varieties*