

Effect of Varied Nutrient Levels on Productivity and Economics of Different Rice Varieties in Irrigated Ecology

P Vijaykumar, N Pandey and R Mahender Kumar
ICAR-Indian Institute of Rice Research, Hyderabad

ABSTRACT

A study was undertaken to evaluate the effect of varied nutrient levels on productivity and economics of different rice varieties in irrigated ecology. The treatments consisted of combination of three levels of NPK (50% RDF, 100% RDF and 150% RDF) and six varieties (DRR Dhan 44, DRR Dhan 46, MTU1010, Varadhan, Sugandhamathi and Swarnadhan). All were tested in split plot design with 3 replications. The productivity (grain and straw yield) and economics of rice was significantly highest with the application of 150% RDF. The rice variety Varadhan produced highest grain yield and in the case of straw yield, the variety Swarnadhan gave the highest yield. The results of gross, net returns and B:C ratio was recorded highest with the 150% RDF application than the other nutrient levels and the variety Varadhan produced highest gross, net returns and B:C ratio than the other varieties.

Key Words: *Rice, Economics, Productivity, NPK levels*