

Performance of rice varieties grown under different spacings with planting depths in system of rice intensification

Archana Rajput¹, Sujit Singh Rajput² and Girish Jha¹

Received November 12, 2017 and Accepted February 4, 2018

ABSTRACT : An experiment was conducted during the *kharif* seasons of 2010-11 and 2011-12 at Krishi Nagar farm, Department of Agronomy, JNKVV Jabalpur (Madhya Pradesh) to study to the production efficiency and monetary advantage in rice by adopting suitable planting geometry, varieties and depth of planting. The experiment comprises on 18 treatment combinations consisted of three planting geometry (20cm×20cm, 25cm×25cm and 30cm×30cm) as main plot treatment and three varieties (MR-219, WGL-32100 and PS-3) as sub plot treatments and two depths of planting shallow (2.5cm) and normal (5.0 cm) as sub-sub plot treatments were tested in split-split plot design with three replications. Results showed that the 25cm×25cm planting geometry had superiority in various yield attributing characters viz; weight of panicles, grains/panicle, test weight, healthy grains/panicle, less no. of chaffy grains/panicle, sterility per cent, harvest index and yield in comparison to other planting geometries with MR-219 variety and shallow depth of planting.

Key Words : Rice (*Oryza sativa* L.), varieties, depth of planting, planting geometry, yield and SRI.