



## RESEARCH PAPER

# Yield and economic performance of various rice-based cropping systems in central India

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**Abstract :** The current experiment was done at the research farm of Jawaharlal Nehru Krishi Vishwa Vidyalaya (JNKVV), Jabalpur, Madhya Pradesh, in 2011-12 and 2012-13 to investigate rice performance under various rice-based cropping strategies. During the study period, 12 rice-based farming systems were investigated, including rice, wheat, chickpea, onion-green gramme, berseem, potato-sesame, gobhi sarson-black gramme, vegetable pea-sesame, potato-ground nut, gobhi sarson-sorghum, gobhi sarson-okra, french bean and marigold-sesame. Rice equivalent yield (REY), crop duration, gross monetary returns, cost of cultivation, net monetary returns and the benefit to cost (B:C) ratio were used to evaluate the performance of various rice-based cropping systems. Among the six cropping systems tested, the REY was found highest in the rice-gobhi sarson-okra cropping sequence (174.05 q ha<sup>-1</sup>) followed by rice-marigold-sesame (140.18 q ha<sup>-1</sup>).

**Key Words :** Rice based cropping system, Economics, Rice equivalent yield, B:C ratio

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