EFFECT OF DIFFERENT COMBINATIONS OF ORGANIC MANURES AND BIOFERTILIZERS ON GROWTH, YIELD, GRAIN QUALITY AND ECONOMICS IN ORGANIC FARMING OF SCENTED RICE

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Abstract: The field experiments carried out at the Indian Agricultural Research Institute, New Delhi during Kharif season of 2002 and 2003 to study the effects of different combinations of organic manures and biofertilizers on growth, yield, quality and economics of scented rice. The results indicated that application of farmyard manure (FYM) and Sesbania green manuring (SGM) significantly increased all the growth parameters and yield attributes of rice over absolute control which led to 17-27% and 26-33% increase in grain yield of rice, respectively. Combination of SGM + FYM was significantly superior to SGM and FYM alone and increase grain yield of rice by 44-53% over control. Inoculation of BGA with SGM and SGM + FYM resulted in a 4-11 and 3-8% increase in the grain yield over SGM and SGM + FYM, respectively. The highest grain yield of rice was obtained with the combinations of FYM + SGM + BGA this combination is, thus recommended for organic farming of rice.

Keywords: Organic farming, Farmyard manure, Sesbania green manuring, Blue green algae

REFERENCES


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