



## Effect of moisture regime and integrated nutrient supply on yield and economics of transplanted rice (*Oryza sativa* L.)

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**Abstract :** A field experiment was conducted at Agronomy Research Farm, Narendra Deva University of Agriculture and Technology, Narendra Nagar (Kumarganj) Faizabad (U.P.) on effect of moisture regime and integrated nutrient supply on growth and yield of transplanted rice during *Kharif* 2010-12. The experiment was laid out in Split Plot Design consisted of twelve treatment combinations with four replication. The results indicated that 7 cm irrigation 1 DADPW was found significantly superior over the 7cm irrigation at 3 and 5 DADPW on yield attributes and yield character. The maximum yield attributes and yield were recorded with full dose of NPK 120:60:40 kg ha<sup>-1</sup> which was found at par with green manuring + 75% NPK through inorganic fertilizers which was significantly superior over rest treatments. The maximum total cost of cultivation was computed with the application of 7 cm irrigation 1 DADPW + 75% NPK + green manuring (I<sub>1</sub>S<sub>1</sub>) followed by 7 cm irrigation 1 DADPW + full dose of NPK 120:60:40 kg ha<sup>-1</sup> (I<sub>1</sub>S<sub>1</sub>) through inorganic fertilizer. The maximum gross income, net profit and B: C ratio was recorded with the application of 7 cm irrigation 1 DADPW + full dose of NPK 120:60:40 kg ha<sup>-1</sup> (I<sub>1</sub>S<sub>1</sub>) through inorganic fertilizer.

**Key Words :** Moisture regime, Yield, Biocompost, Green manuring

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