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### Research Article

# Conjunctive use of organic and inorganic nutrient influences on nutrient uptake and yield of rainfed rice

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## **Summary**

A field experiment was carried out during Kharif season of 2008 to 2011 at Banaras Hindu University, Varanasi, India. The experiment was laid out with six treatments namely, Control (no nutrient supplemented), 100% RDF (80-40-30 kg ha<sup>-1</sup> N:P:K), 100% N through FYM, 50% N through FYM, 50% RDF + 50% N through FYM and Farmer's Practice (only 20 kg N ha<sup>-1</sup>) in an Inceptisol of transect 4 of the Indo Gangetic Plain (IGP) region. The experiment indicated that combined application of 50% RDF + 50% N through FYM was a superior treatment for increasing grain as well as straw yield. The results further demonstrated that the conjunctive use of organic and inorganic source of fertilizer significantly increased both the concentration and uptakes of N, P, K and S by rice at harvest under rainfed condition.

Key words: Rainfed rice, FYM, Nutrient uptake

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