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# Effect of integrated nitrogen management on growth, yield, economics and soil in wheat under alluvial soil

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**ABSTRACT :** The experiment was conducted during Rabi season of 2001-02 and repeated in 2002-03 at the institutional research farm of Tilak Dhari Post Graduate College, Jaunpur to study the effect of integrated nitrogen management on growth, yield, economics and soil in wheat under alluvial soil. The experiment is laid out randomized block design with four replication. Maximum profit and return per rupee invested was noted in the treatment receiving pressmud + urea nitrogen in 3:1 ratio. The present investigation was concluded that integrated nitrogen management increased grain yield, straw yield and economics of wheat crop. The treatment receiving 90 + 30 kg nitrogen/ha through PM + Urea was significantly higher in yield of grain and straw when compared with the other treatments. It shows that 50-75% of fertilizer nitrogen can be saved in wheat production. Maximum benefit: cost ratio was obtained in the treatment where nitrogen was applied in 3:1 ratio through pressmud + urea.

**Key Words :** Urea, pressmud, organic and sewage sludge.