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Research Article

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# Effect on nutrient uptake by winter maize (*Zea mays* L.) crop after using integrated management of organic manure with rice-crop establishment methods

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## Summary

A field experiment was conducted in South Kisan Vidhya Peeth Block of Crop Research Centre of Rajendra Agricultural University, Bihar, Pusa (Samastipur) during the *Rabi* season of 2011-12. The experimental plot was medium land, properly leveled, and well drained with uniform topography. The experiment was conducted in a Split plot design with 30 treatments, which were replicated three times. To study the effect on nutrient uptake by maize (*Zea mays* L.) crop after using integrated management of organic manure with rice-crop establishment methods. The main plot treatments consisting of six methods of rice-crop establishment $A_1$ (ZT), $A_2$ (DS), $A_3$ (PDS), $A_4$ (PT), $A_5$ (SRI) and $A_6$ (PT + BM) and the sub plot treatments consisting of five different form of the organic matter enrichment *i.e.* $B_1$ (M), $B_2$ (Vc), $B_3$ (1/3CR), $B_4$ (M+Vc) and $B_5$ (control).

**Key words :** Winter maize, Physical property, Zero tillage, Dry seeded, Drum seeder, Puddled transplanted, System of rice-intensification, Brown manuring, Mulching, Vermi compost and Crop residue

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