

Click [www.researchjournal.co.in/online/subdetail.html](http://www.researchjournal.co.in/online/subdetail.html) to purchase.



## RESEARCH PAPER

# Comparative study of physical properties with organics and rice-crop establishment methods of winter maize (*Zea mays* L.) in calciorthents

SUDHANSHU BHOOSHAN<sup>1</sup>, AWADH KISHOR PRASAD<sup>1</sup> AND PAWAN KUMAR SRIVASTWA\*

Department of Botany, Jai Prakash University, CHAPRA (BIHAR) INDIA

**Abstract :** An experiment was conducted during the *Rabi* season of 2011-12 at south Kisan Vidhya Peeth block of Crop Research Centre of Rajendra Agricultural University, Bihar, Pusa (Samastipur). The experiment was conducted in a Split Plot Design with 30 treatments, which were replicated three times to the comparative study of physical properties with organics and rice-crop establishment methods of winter maize (*Zea mays* L.) in calciorthents. The main plot treatments consisting of six methods of rice-crop establishment A<sub>1</sub> (ZT), A<sub>2</sub> (DS), A<sub>3</sub> (PDS), A<sub>4</sub> (PT), A<sub>5</sub> (SRI) and A<sub>6</sub> (PT + BM) and the sub plot treatments consisting of five different form of the organic matter enrichment *i.e.*, B<sub>1</sub> (M), B<sub>2</sub> (Vc), B<sub>3</sub> (1/3CR), B<sub>4</sub> (M+Vc), and B<sub>5</sub> (control).

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

**View Point Article :** Bhooshan, Sudhanshu, Prasad, Awadh Kishor and Srivastwa, Pawan Kumar (2015). Comparative study of physical properties with organics and rice-crop establishment methods of winter maize (*Zea mays* L.) in calciorthents. *Internat. J. agric. Sci.*, **11** (1): 193-197.

**Article History :** Received : 07.11.2014; Revised : 13.12.2014; Accepted : 28.12.2014

---

\* Author for correspondence

<sup>1</sup>Department of Soil Science, Rajendra Agricultural University, Pusa, SAMASTIPUR (BIHAR) INDIA