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RESEARCH PAPER

Studies on the impact and efficiency of integrated nutrient management on yield, major and secondary nutrient content of okra crop for sustainable agriculture

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Abstract : Combined use of animal wastes is necessary in order to obtain adequate amount of organic manure for use in crop production. Hence, field experiment was conducted in Agricultural College and Research Institute, Tamil Nadu Agricultural University, Madurai to evaluate the response of okra (Arka anamika) with organic sources like goat manure and pig manure combined with inorganic fertilizers on yield, major and secondary nutrient content. There were ten treatment combinations replicated thrice in Randomized Block Design (RBD) in Maddukkur soil series (*Typic haplustalf*). The results revealed that application of 50 per cent RDF + goat manure @ 6.5 t ha^{-1} registered highest total nitrogen, phosphorus, potassium, calcium and magnesium content and yield (1.71%, 0.44%, 1.58%, 1.36% and 0.68% and 13.0 t ha^{-1}). The least value recorded in the untreated control (1.30%, 0.20%, 1.22%, 1.10% and 0.35%) and 11.90 t ha^{-1}, respectively.

Key Words : Animal manures, Okra, Total major, Secondary nutrients, Yield

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