

Research Article

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Evaluation of maize fertilizer mixture performance on post harvest soil fertility

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Summary

A field experiment was conducted to study the effect of fertilizer mixture on soil available nutrient content. The experiment was conducted at Maize Research Station, Vagarai, Dindigul district, Tamil Nadu in Randomized Block Design with seven treatments replicated thrice. The treatments included the application of 120 kg urea+ 50 kg DAP –Farmers’ practice (T_1), Farmers’ practice with Tamil Nadu state Dept. of Agriculture micronutrient mixture @ 25 kg ha⁻¹ as straight chemical fertilizers (T_2) as well as EFYM (T_3), recommended dose of fertilizer (T_4), RDF with TNAU -micronutrient mixture @ 12.5 kg ha⁻¹ as straight chemical fertilizers (T_5), RDF with TNAU - micronutrient mixture @25 kg ha⁻¹ as straight chemical fertilizers (T_6) as well as EFYM (T_7). The availability of macro and micronutrients were recorded at different stages of maize crop growth like knee high stage, tasseling and at harvest stage. The experimental result has revealed that though the availability of nutrients decreased with the advancement of crop growth, application of recommended dose of fertilizer with 25 kg ha⁻¹ of TNAU micronutrient mixture as enriched FYM has registered the increased availability of macro and micro nutrients even in post harvest soil.

Key words : Micronutrient mixture, Recommended dose of fertilizer, Enriched farm yard manure

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