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EFFECT OF ORGANIC AND INORGANIC FERTILIZERS ON NUTRIENT CONTENTS AND SOME PROPERTIES OF ERODED LOESS SOILS.

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ABSTRACT

The study was carried out in the green house on a loess soil having clay loam texture. The treatments comprised control, 100 kg N ha^{-1}, 75 kg P_2O_5 ha^{-1}, 20,000 kg farm yard manure (FYM) ha^{-1}, 100 kg N +75 kg P_2O_5 and 100 kg N + 75 kg P_2O_5 +20,000 kg (FYM) ha^{-1}. All the organic and inorganic constituents were thoroughly mixed with the soil in the pots at the time of sowing of maize crop. It was observed that NO_3- N, available P and available K were significantly higher in the soil receiving nitrogen, phosphorous and FYM simultaneously. Particle density and bulk density of soil decreased by fertilizer application and maximum reduction of 6.7 and 4.6 %was observed in particle density and bulk density respectively in the soil treated with both organic and inorganic fertilizers. FYM application increased the saturation percentage (5-12.5%). Fertilizer application also caused reduction in pH(0.6%) and ECe (12-27%).