

**EFFECT OF ORGANIC AND INORGANIC FERTILIZERS ON THE
GROWTH OF (*Moringa oliefera*) Lam SEEDLINGS**

BY

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ABSTRACT

The study was carried out to assess the growth performance and biomass production of *Moringa Oleifera Lam* seedlings when organic fertilizer (cowdung and poultry manure) and inorganic fertilizer NPK 15:15:15 were applied at three levels (5g, 10g and 15g). Height, stem diameter, leaf area and number of leaves were assessed for 10weeks while the fresh and dry weights were assessed after 10weeks of assessment. The experiment was designed using complete randomized design (CRD), where thirty (30) *Moringa* seedlings were subjected to 10 treatments in 3 replicates. The result shows that cowdung applied at level three (T₁L₁) performed best in stem diameter (0.39cm) and in level three (T₁L₃) in plant height. Poultry manure at level one (T₂L₁) performed best in leaf area (120.41cm²), fresh weight (8.30g) and dry weight (1.40g). NPK fertilizer at level three (T₃L₃) performed best in number of leaves (10). Statistical analysis of variance showed that all the variables measured were not different at 5% level of probability.