

**COMPARATIVE EFFECT OF HEATED AND UNHEATED ANIMAL
MANURE AND HUMAN URINE AS GROWTH FERTILIZER OF**

Solanum lycopersicum L. (TOMATO)

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ABSTRACT

The effect of applying heated/unheated dog, chicken manure and human urine to soil was tested on the growth of *Solanum lycopersicum*. Tomatoes were grown on 7 different treatments, To=control (no manure added), T1=250g of heated dog manure/kg of soil, T2=250g unheated dog manure/kg of soil, T3=250g heated chicken manure/kg of soil, T4=250g unheated chicken manure/kg of soil, T5= 250ml heated human urine/kg of soil, T6= 250ml unheated human urine/kg of soil. Manures which came from dog, chicken and human urine were first collected and labeled based on the data above. Soil treatment, sterilization, and preparation were also considered before planting the tomatoes. In this experiment heated and unheated of the 3 kinds of manure were used as variations. Approximately four months, growth in the tomato was achieved and harvested. Treatments were randomized & effects assessed based on the height of stem, length of leaves, width of leaves, mass and circumference of fruits. Results obtained that whether heated or unheated there was no significance differences whatsoever. The study shows that human urine and chicken manure are more appropriate fertilizer compared to dog manure in growing tomato since it contains the highest amount of phosphorus and nitrogen which are essential in plant growth.



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