The effect of manure and vermicompost and triple super phosphate on soil chemical properties

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ABSTRACT
Phosphorus is one of the main, important and essential elements for all plants and plays different and important roles in plant growth. For this reason, the effect of animal fertilizers, vermicompost and triple superphosphate on the soil chemical properties should be investigated in order to investigate the effect of each of these three types of fertilizers, the effectiveness of these three can be identified. In order to investigate the effect of ultra-experimental values in a factorial experiment in a completely randomized design with seven treatments and three replications in 10 soil types in greenhouse conditions, the treatments included manure in 2 Levels: 1 and 2%; vermicompost fertilizer in 2 levels: 1 and 2%; triple super phosphate fertilizer in 2 levels: 50 and 100 mg / kg and control treatment. Phosphorus P and other effective factors on soil fertility including soil acidity (pH), electrical conductivity (EC), organic carbon (OC) and cation exchange capacity (CEC) before the implementation of the design in the soil samples and after the implementation of the plan All the pots were measured. Finally, statistical analysis was performed using SPSS.18 software and comparison of the meanings with Duncan's test was performed at a probability level of 1%. In this experiment, the interaction of all treatments in 10 soil samples was significant on soil chemical properties (pH, EC, organic matter, calcium carbonate, CEC and absorbable phosphorus) other than CEC.

Keywords: Fertilizer, Vermicompost, Triple Superphosphate, Soil Chemical Properties.