

## EFFECTS OF ORGANIC FERTILIZERS ON THE GROWTH AND NUTRIENT UPTAKE OF CUCUMBER (*CUCUMIS SATIVUS L.*) SEEDLINGS

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**Abstract.** *Pot experiment was conducted to compare the effects of organic fertilizers on growth, phosphorus and potassium uptake of cucumber. The study was conducted on humic sandy soil with treatments of 1: control; 2:horse manure with straw (30t/ha); 3:horse manure with sawdust (30t/ha); 4: cattle manure (30t/ha); 5: food waste compost (30t/ha); 6-9 organic fertilizers with 60t/ha. The effects of fertilizers were investigated after a month and 5 further months incubation period. Fresh weights of cucumber seedlings were not greatly influenced by manures and compost, but phosphorus and potassium uptake were significantly enhanced. Horse manure with straw, food waste compost and cattle manure proved to be effective and horse manure with sawdust was the least effective organic fertilizer in terms of growth of cucumber seedlings and nutrient supply ability.*

**Keywords:** organic fertilizers, cucumber seedlings, nutrient

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