Penilaian Kualitas Tanah pada Produksi Sayuran dengan Bahan Organik

(Soil Quality Assessment for Vegetable Production with Organic Matter)

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ABSTRACT

Soil organic matter content is determinant factor for soil quality. This study was conducted in Ultisol farmer field Nanggung Bogor. The objective of this research was to determine influence soil organic matter for vegetable production. Three replications Randomized Completely Design with organic matter of poultry manure 10 ton/ha as a single factor and kangkong (*Ipomoea* sp.) as the sample plant. Soil quality observation were biology (soil respiration), physic (infiltration and bulk density), and soil chemistry (EC and pH soil) indicators. Soil quality assessment used Soil Quality Kit that developed by United State Departement of Agriculture. The result that organic matter treatment increased soil quality index for soil respiration, infiltration, and EC indicator. Adding organic matter significantly influence *Ipomoea* sp. yield.