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EVALUASI PRODUKTIFITAS TANAH ULTISOL MELALUI AMANDEMEN KOMPOS KOTORAN AYAM

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Abstract

*The very low productivity of Ultisol and many inhibiting factors in its utilization make this soil not widely used as agricultural land, especially for vegetable cultivation. Giving chicken manure compost is an alternative to increase Ultisol productivity. This study aims to determine the productivity of Ultisol, which has been composted with chicken manure for land kale (*Ipomea reptans* Poir). The experiment was conducted at the Green House of the Faculty of Agriculture, University of Muhammadiyah Makassar. The experiment was amending Ultisol with chicken manure compost at 0 t/ha, 10 t/ha, 20 t/ha, and 30 t/ha arranged using a Randomized Block Design (RBD), which was repeated three times. Ultisol that has been processed in such a way and dried weighed 2 kg/polybag, planted with land kale seeds to evaluate the growth of these plants during the experiment. The final result of this experiment is to get an overview of Ultisol soil productivity after improving chicken manure compost, mainly to be used as vegetable land. The results of the experiment showed that chicken manure compost was able to provide good growth of land kale on Ultisol. Chicken manure compost of as much as 30 t/ha gave the highest yield of all parameters observed in land kale plants. However, a dose of 20 t/ha chicken manure compost increased the productivity of Ultisol soil, especially in its use as vegetable farming land.*

Keywords

organic fertilizer; soil improver; *Ipomea reptans*; Ultisol