

**UJI EFEKTIVITAS KOMPOS LIMBAH BAGLOG JAMUR TIRAM DAN
ARANG SEKAM TERHADAP PETUMBUHAN DAN HASIL JAGUNG
MANIS (*Zea mays saccharata sturt*) PADA TANAH VERTISOL**

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ABTRACT

The aim of this research was to examine the effect of giving a mixture of baglog compost of white oyster mushrooms and husk charcoal to the growth and yield of sweet boy varieties of sweet corn on Vertisol soil and to compare the compost of baglog waste and husk charcoal that are right for growth and yield of sweet varieties sweet boy on Vertisol soil. This research was conducted at the Greenhouse of the Faculty of Agriculture, University of Muhammadiyah Yogyakarta, Tamantirto, Kasihan, Bantul Regency, Yogyakarta Special Region in February 2019 until May 2019. The research was carried out using a single factor experimental method arranged in a completely randomized design (RAL) environment. As for the treatment tested are 100% baglog herbal oyster compost + 0 planted husk charcoal, 75% baglog herbal oyster compost + 25% planted husk charcoal, 50% baglog herbal oyster compost + 50% planted husk charcoal, 25% baglog compost oyster herbal medicine + 75% of planted husk charcoal, and 0% of baglog compost for oyster herbal medicine + 100% planted husk charcoal. Parameters observed were plant height, leaf number, root length, crown fresh weight, canopy dry weight, root fresh weight, root dry weight, leaf area, ear weight with weight, ear weight without weight, ear diameter, and ton / ha yield. The results showed that the best treatment in the balance of compost baglog 100% waste and 0% husk charcoal. The best results were obtained by harvesting 10.72 tons / ha, but if compared with the potential yield of 18 tons of sweet boy sweet corn varieties, it was considered less maxillary.

Keywords: *sweet boy variety sweet corn, baglog waste compost, husk charcoal*

