

ABSTRAK

Vera Melyandini. 2023. Pengaruh Konsentrasi Pupuk Organik Cair Limbah Baglog Jamur Tiram Putih (*Pleurotus ostreatus*) dan Jenis Media Tanam Terhadap Pertumbuhan dan Hasil Tanaman Buncis Tegak (*Phaseolus vulgaris* L.) Varietas Kenya. Dibawah bimbingan Suryaman Birnadi dan Budy Frasetya TQ.

Buncis tegak (*Phaseolus vulgaris* L.) Varietas Kenya merupakan komoditas ekspor unggulan yang produksinya masih belum stabil. Menurunnya produktivitas lahan pertanian dapat ditingkatkan kembali dengan penambahan media tanam organik seperti arang sekam dan *cocopeat* serta mengurangi penggunaan pupuk anorganik dengan dikombinasikan pemberian pupuk organik seperti pemanfaatan limbah baglog jamur tiram putih (*Pleurotus ostreatus*) sebagai pupuk organik cair. Tujuan Penelitian ini untuk mengetahui pengaruh interaksi konsentrasi pupuk organik cair limbah baglog jamur tiram putih dan jenis media tanam terhadap pertumbuhan dan hasil buncis tegak varietas Kenya dan dapat menentukan konsentrasi optimum pupuk organik cair limbah baglog jamur tiram putih pada setiap taraf jenis media tanam terhadap pertumbuhan dan hasil buncis tegak varietas Kenya. Metode yang digunakan dalam penelitian ini adalah Rancangan Acak Kelompok dengan 2 perlakuan dan 3 ulangan. Perlakuan pertama yaitu: Jenis media tanam = Tanah (m1); Tanah + Arang sekam (m2); Tanah + *Cocopeat* (m3). Perlakuan kedua yaitu: Konsentrasi pupuk organik cair limbah baglog jamur tiram 0 ml l⁻¹ (k0); 10 ml l⁻¹ (k1); 20 ml l⁻¹ (k2); 30 ml l⁻¹ (k3). Hasil penelitian menunjukkan tidak terjadi interaksi antara pemberian konsentrasi POC limbah baglog jamur tiram putih dan jenis media tanam terhadap pertumbuhan dan hasil tanaman buncis tegak varietas Kenya. Konsentrasi POC limbah baglog jamur tiram putih 10 ml l⁻¹ berpengaruh terhadap bobot segar brangkasan. Jenis media tanam tanah + arang sekam berpengaruh terhadap jumlah daun, bobot segar brangkasan, bobot kering brangkasan, jumlah polong dan bobot polong.

Kata Kunci: Arang Sekam, Buncis Tegak, *Cocopeat*, Limbah Baglog, Media Tanam, Pupuk Organik Cair

ABSTRACT

Vera Melandini. 2023. Effect of Concentration of Liquid Organic Fertilizer Baglog White Oyster Mushroom (*Pleurotus ostreatus*) Waste and Planting Media Types on Growth and Yield of Dwarf Beans (*Phaseolus vulgaris* L.) Kenya Varieties. Supervised by Suryaman Birnadi and Budy Frasetya TQ.

Dwarf beans (*Phaseolus vulgaris* L.) Kenya variety is a leading export commodity whose production is still unstable. The decreasing productivity of agricultural land can be increased again by adding organic planting media such as husk charcoal and cocopeat and reducing the use of inorganic fertilizers in combination with organic fertilizers such as the utilization of white oyster mushroom baglog waste (*Pleurotus ostreatus*) as liquid organic fertilizer. The purpose of this study was to determine the interaction effect of the concentration of liquid organic fertilizer from baglog white oyster mushroom waste and the type of planting media on the growth and yield of Kenya varieties of dwarf beans and can determine the optimum concentration of liquid organic fertilizer waste baglog white oyster mushrooms at each level of the type of growing media on the growth and yield of Kenya varieties of dwarf beans. The method used in this study was a randomized block design with 2 treatments and 3 replications . The first treatment was: Type of planting medium = Soil (m1); Soil + husk charcoal (m2); Soil + Cocopeat (m3). The second treatment is: Concentration of liquid organic fertilizer from baglog oyster mushroom waste 0 ml l^{-1} (k0) ; 10 ml l^{-1} (k1); 20 ml l^{-1} (k2); 30 ml l^{-1} (k3). The results showed that there was no interaction between the concentration of POC from baglog waste of white oyster mushroom and the type of planting media on the growth and yield of upright bean plants of the Kenya variety. The POC concentration of 10 ml l^{-1} white oyster mushroom baglog waste affected the fresh weight of stover. The type of planting medium soil + husk charcoal affected the number of leaves, fresh stover weight, dry stover weight, number of pods and pod weight.

Keywords: Baglog Waste, Cocopeat, Dwarf Beans, Husk Charcoal, Liquid Organic Fertilizer, Planting Media