

ADELIA JUNIASTI PERANGIN ANGIN NIM. 18.03.111.00109

Pengaruh Pemberian Pupuk organik cair Limbah Tahu, Limbah Pasar Terhadap Pertumbuhan dan Hasil Tanaman Kacang Hijau (*Vigna radiata* L).

Dibawah Bimbingan : **Ir. Amin Zuchri, MP.**

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pengaruh pemberian pupuk organik cair limbah tahu, limbah pasar terhadap pertumbuhan dan hasil tanaman kacang hijau (*Vigna radiata* L). Penelitian ini dilaksanakan pada Desember 2021 hingga Maret 2022 di Kebun Hortikultura Socah, Kabupaten Bangkalan, Jawa Timur, yang terletak pada ketinggian $\pm$ 5 meter dpl. Percobaan disusun berdasarkan Rancangan Acak Kelompok (RAK) non faktorial, terdiri atas 2 limbah yang meliputi limbah cair tahu dan limbah pasar dengan 6 taraf perlakuan yaitu A0 (kontrol), A1 (POC limbah tahu 150 mL/ 3500 mL air), A2 (POC limbah tahu 250 mL/ 3500 mL air), A3 (POC limbah tahu 350 mL/ 3500 mL air), A4 (POC limbah pasar 150 mL/ 3500 mL air), A5 (POC limbah pasar 250 mL/ 3500 mL air), A6 (POC limbah pasar 350 mL/ 3500 mL air). Pupuk organik cair limbah cair tahu dan limbah pasar difermentasi selama 14 hari. Hasil penelitian menunjukkan POC limbah cair tahu, Limbah pasar berpengaruh terhadap pertumbuhan generatif tanaman kacang hijau (*Vigna radiata* L) yakni pada jumlah cabang produktif, umur berbunga, bobot kering polong/tanaman, bobot kering biji/tanaman, persentase polong isi, jumlah biji/tanaman, jumlah biji/polong dan jumlah polong/tanaman.

Kata Kunci : Limbah Cair Tahu, Limbah Pasar, Pupuk Organik Cair, Kacang Hijau

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The Effect of Liquid Organic Fertilizer (LOF) from Tofu and Market Waste on Growth and Yield of Green Beans (*Vigna radiata* L).

Supervised by : **Ir. Amin Zuchri, MP.**

ABSTRACT

This study aims to determine the effect of giving liquid organic fertilizer tofu waste, market waste on the growth and yield of mung bean (*Vigna radiata* L). This research was conducted from December 2021 to March 2022 at the Socah Horticultural Garden, Bangkalan Regency, East Java, which is located at an altitude of ± 5 meters above sea level. The experiment was arranged based on a non-factorial Randomized Block Design (RAK), consisting of 2 wastes including tofu liquid waste and market waste with 6 treatment levels, namely A0 (control), A1 (LOF tofu waste 150 mL/3500 mL water), A2 (LOF). tofu waste 250 mL/3500 mL water), A3 (LOF waste tofu 350 mL/3500 mL water), A4 (LOF waste market 150 mL/3500 mL water), A5 (LOF waste market 250 mL/3500 mL water), A6 (LOF market waste 350 mL/3500 mL water). Liquid organic fertilizer tofu liquid waste and market waste are fermented for 14 days. The results showed that the POC of tofu liquid waste, market waste had an effect on the generative growth of green bean (*Vigna radiata* L) plants, namely the number of productive branches, flowering age, dry weight of pods/plant, dry weight of seeds/plant, percentage of filled pods, number of seeds/plant. plants, number of seeds/pods and number of pods/plants.

Keywords : Tofu Liquid Waste, Market Waste, Liquid Organic Fertilizer, Green Beans