

ABSTRAK

Erni Widyawati. 2021. Pengaruh Dosis Pupuk Organik Cair Limbah Tahu dan Tepung Tulang Ayam Terhadap Pertumbuhan dan Hasil Tanaman Mentimun Kyuri (*Cucumis sativus L*) Varietas Expo. Di bawah bimbingan Cecep Hidayat dan Esty Puri Utami.

Tanaman mentimun mengalami kendala yaitu dengan menurunnya produksi mentimun dari tahun ke tahun, kendala yang dialami yaitu kurangnya unsur hara yang tersedia dalam tanah, sehingga perlu adanya perbaikan dalam proses pemupukan salah satunya dengan pemberian POC limbah tahu dan tepung tulang ayam. Tujuan penelitian ini untuk mengetahui pengaruh serta dosis POC limbah tahu dan tepung tulang ayam dalam produktivitas tanaman mentimun kyuri varietas expo. Penelitian dilaksanakan pada bulan Februari sampai bulan April 2021. Tempat penelitian dilaksanakan di Cipacing Kecamatan Jatinagor Jawa Barat. Metode yang digunakan yaitu Rancangan Acak Kelompok Faktorial 2 faktor. Faktor pertama pemberian POC limbah tahu sebanyak 4 taraf, kontrol 0 l ha⁻¹, 3000 l ha⁻¹, 5000 l ha⁻¹, dan 15000 l ha⁻¹. Faktor kedua tepung tulang ayam sebanyak 3 taraf, kontrol 0 t ha⁻¹, 8 t ha⁻¹ dan 16 t ha⁻¹. Hasil penelitian menunjukkan terjadi interaksi antara POC limbah tahu dan tepung tulang ayam terhadap luas daun, bobot kering brangkasan, nisbah pupus akar dan indeks panen, terjadi pengaruh mandiri pemberian tepung tulang ayam terhadap tinggi tanaman, awal muncul bunga, jumlah buah, bobot segar buah, bobot kering buah, dan kualitas buah.

Kata Kunci : Pupuk organik cair limbah tahu, tepung tulang ayam, tanaman mentimun kyuri.



ABSTRACT

Erni Widyawati. 2021. Effect of Dosage of Liquid Organic Fertilizer Waste Tofu and Chicken Bone Flour on Growth and Yield of Kyuri Cucumber (*Cucumis sativus L*) Variety of Expo. Under supervised Mr. Cecep Hidayat and Mrs. Esty Puri Utami.

Cucumber plants experience problems, namely the decline in cucumber production from year to year, the obstacles experienced are the lack of nutrients available in the soil, so it is necessary to improve the fertilization process, one of which is by giving POC tofu waste and chicken bone meal. The purpose of this study was to determine the effect and dose of POC waste tofu and chicken bone meal on the productivity of expo varieties of cucumber kyuri. The research was carried out from February to April 2021. The research location was in Cipacing, Jatinagor District, West Java. The method used was a factorial 2-factor randomized block design. The first factor was giving tofu waste POC with 4 levels, control 0 l ha⁻¹, 3000 l ha⁻¹, 5000 l ha⁻¹, and 15000 l ha⁻¹. The second factor was chicken bone meal with 3 levels, control 0 t ha⁻¹, 8 t ha⁻¹ and 16 t ha⁻¹. The results showed that there was an interaction between POC of tofu waste and chicken bone meal on leaf area, dry weight of stover, root loss ratio and harvest index, there was an independent effect of giving chicken bone on plant height, early flower emergence, total of fruit, fresh weight of fruit, dry weight of fruit, and grading.

Keywords : liquid organic fertilizer tofu waste, chicken bone flour, kyuri cucumber

