

## ABSTRAK

**Muhammad Ja'far Shidiq, 2020. Pengaruh Fermentasi Campuran Kotoran Kuda Dan Limbah Cair Tahu Terhadap Pertumbuhan Dan Hasil Tanaman Mentimun Kyuri (*Cucumis Sativus L.*) Varietas Toska F1. Dibawah bimbingan Ahmad Taofik dan Ida Yusidah**

Pemberian pupuk fermentasi campuran kotoran kuda dan limbah cair tahu dapat meningkatkan pertumbuhan dan hasil tanaman mentimun kyuri. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian pupuk fermentasi campuran kotoran kuda dan limbah cair tahu serta untuk menentukan dosis optimum pupuk fermentasi campuran kotoran kuda dan limbah cair tahu yang memberikan pengaruh terhadap pertumbuhan dan hasil tanaman mentimun kyuri. Penelitian ini telah dilaksanakan pada bulan Februari sampai Mei 2020 di Desa Lembang Kecamatan Lembang Kabupaten Bandung Barat . Penelitian ini menggunakan rancangan percobaan Rancangan Acak Kelompok (RAK) dengan 8 perlakuan yaitu (A) Pupuk Anorganik rekomendasi, (B) Fermentasi kotoran kuda 0 ton/ha, (C) Fermentasi kotoran kuda 10 ton/ha, (D) Fermentasi kotoran kuda 25 ton/ha, (E) Fermentasi campuran dosis kotoran kuda 85% dan 15% limbah cair tahu 10 ton/ha, (F) Fermentasi campuran dosis kotoran kuda 85% dan 15% limbah cair tahu 25 ton/ha, (G) Fermentasi campuran dosis kotoran kuda 75% dan 25% limbah cair tahu 10 ton/ha, (H) Fermentasi campuran dosis kotoran kuda 75% dan 25% limbah cair tahu 25 ton/ha, dan 4 kali ulangan kemudian uji lanjut yang digunakan adalah uji DMRT 5% (*duncan multiple range test*). Hasil penelitian menunjukkan bahwa pemberian pupuk fermentasi campuran kotoran kuda dan limbah cair tahu dapat berpengaruh nyata terhadap jumlah buah dan bobot buah per tanaman mentimun kyuri. Dosis fermentasi campuran kotoran kuda dan limbah cair tahu yang paling efektif adalah 25 ton/ha.

Kata kunci : Mentimun kyuri, Kotoran kuda, Limbah cair tahu

## ABSTRACT

**Muhammad Ja'far Shidiq, 2020. Effect of mixed horse manure fermentation application and tofu liquid waste on the growth and yield of Kyuri cucumber (*Cucumis Sativus L.*) Varieties Toska F1. Supervised by Ahmad Taofik and Ida Yusidah**

Giving fermented fertilizer, a mixture of horse manure and tofu liquid waste, can increase the growth and yield of kyuri cucumber plants. This study aims to determine the effect of mixed horse manure and tofu liquid waste fermentation and to determine the optimum dose of fermented horse manure mixture and tofu liquid waste which have an effect on the growth and yield of kyuri cucumber plants. This research was conducted from February to May 2020 in Lembang Village, Lembang District, West Bandung Regency. This study used a randomized block design (RAK) with 8 treatments, namely (A) recommended inorganic fertilizers, (B) fermentation of horse manure 0 tonnes / ha, (C) fermentation of horse manure 10 tonnes / ha, (D) fermentation of horse manure. 25 tons / ha, (E) Mixed fermentation of 85% horse manure and 15% tofu liquid waste 10 tons / ha, (F) 85% mixed fermentation of horse manure and 15% tofu liquid waste 25 tons / ha, (G) Mixed fermentation of 75% horse manure dosage and 25% tofu liquid waste 10 tonnes / ha, (H) Mixed fermentation of 75% horse manure and 25% tofu liquid waste 25 tonnes / ha, and 4 replications then the follow-up test used is DMRT 5% (Duncan multiple range test). The results showed that the application of fermented fertilizer mixed with horse manure and liquid waste tofu had a significant effect on number of fruits and fruit weight per kyuri cucumber plant. The most effective dose of fermented mixture of horse manure and tofu wastewater is 25 tons / ha.

Keywords : *Kyuri cucumber, Horse manure, Tofu liquid waste*