

PENGARUH TAKARAN PUPUK ORGANIK LIMBAH MEDIA TUMBUH JAMUR TIRAM TERHADAP PERTUMBUHAN DAN HASIL TOMAT

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INTISARI

Penelitian tentang pengaruh takaran pupuk organik limbah media tumbuh jamur tiram terhadap pertumbuhan dan hasil tomat (*Solanum lycopersicum L*) dilaksanakan di kebun Dusun Jitengan, Balecatur, Gamping, Sleman dengan ketinggian tempat 114 m dpl dan jenis tanah vertisol mulai bulan April 2018 sampai dengan bulan Juli 2018. Selain itu juga dilakukan di Laboratorium Agroteknologi Universitas Mercu Buana Yogyakarta. Penelitian ini merupakan penelitian dengan metode percobaan (eksperimen). Faktor perlakuan adalah faktor tunggal, yaitu pengaruh takaran pupuk organik limbah media tumbuh jamur tiram yang terdiri atas 5 aras perlakuan. Unit-unit percobaan ditata dalam Rancangan Acak Kelompok Lengkap (RAKL) dengan 3 ulangan, sehingga jumlah unit percobaan keseluruhan ada 15 unit. Perlakuan berupa pemberian pupuk organik limbah media tumbuh jamur tiram dengan takaran 0,3 gram, 1,5 kg, 2 kg, 3 kg, dan 3,5 kg. Data yang diperoleh dari penelitian dianalisis dengan analisis variansi pada taraf kepercayaan 5%. Hasil penelitian menunjukkan bahwa pemberian pupuk organik limbah media tumbuh jamur tiram dengan takaran 0,3 gram, 1,5 kg, 2 kg, 3 kg, dan 3,5 kg mempengaruhi pertumbuhan dan hasil tomat varietas tymoti. Pengaruh takaran 1,5 kg, 2 kg, 3 kg, dan 3,5 kg menjadikan pertumbuhan tinggi tanaman, jumlah daun, jumlah cabang, bobot segar tajuk, bobot segar dan kering akar cenderung sama, demikian juga pada jumlah buah per tanaman. Takaran pupuk organik limbah media tumbuh jamur tiram 1,5 kg merupakan takaran terbaik untuk pertumbuhan dan hasil tomat.

Kata kunci : Tomat varietas tymoti, pertumbuhan, hasil, pupuk organik limbah media tumbuh jamur tiram.

THE EFFECT OF ORGANIC FERTILIZER DOSAGE OF OYSTER MUSHROOM MEDIA WASTE ON THE GROWTH AND YIELD OF TOMATO

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ABSTRACT

The research about the effect of organic fertilizer dosage of oyster mushroom media waste on the growth and yield of tomato was conducted in the garden of *Dusun* Jitengan, Balecat, Gamping with the of 114 meters above the sea level and the soil type elevation vertisol. It was started from April until July 2018. Besides, the research was also conducted in the Laboratory of Agro-technology Mercu Buana University of Yogyakarta. The treatment factor was a single factor of was the dosage organic fertilizer on oyster mushroom growing media with treatments. The experiment was arranged in *Randomized Complete Block Design* (RAKL) with 3 repetitions so that the unit numbers of all experiments were 15 units. The treatments were the dosage organic fertilizer on oyster mushroom growing media with the dosage 0,3 gram, 1,5 kg, 2 kg, 3 kg, and 3,5 kg. The data were analysed by the variance analysis with the 5% of level of trust. The results showed that the of dosage organic fertilizer on oyster mushroom growing media with the dosage 0,3 gram, 1,5 kg, 2 kg, 3 kg, and 3,5 kg influenced the growth and yield of *Solanum lycopersicum L.* The treatments with the dosage of 0,3 gram, 1,5 kg, 2 kg, 3 kg, and 3,5 made some growths in terms of plant height, numbers of leave, numbers of branch, fresh crowned weight, fresh and dry weights which were better than the control, and also the number of tuber. Meanwhile the diametre of tuber, weight of tuber per plot, and tuber yield per hectare did not show any differences from the control. The 1,5 kg dosage of organic fertilizer on oyster mushroom growing media was the best concentration for the growth and the yield of *Solanum lycopersicum L.*

Keywords: *Solanum lycopersicum L.*, growth, yield, organic fertilizer on oyster mushroom growing media