

INTISARI

Penelitian bertujuan untuk (1) Menguji efektivitas imbang POC daun gamal dan takaran pupuk kandang kambing terhadap pertumbuhan dan hasil tanaman terong ungu, dan (2) Menentukan imbang POC daun gamal dan takaran pupuk kandang kambing terhadap pertumbuhan dan hasil tanaman terong ungu. Penelitian dilakukan di Lahan Percobaan Fakultas Pertanian Universitas Muhammadiyah Yogyakarta pada bulan November 2017 – Mei 2018. Rancangan yang digunakan adalah Rancangan Acak Lengkap (RAL) yang terdiri dari 6 taraf perlakuan yaitu : 100 % N Pupuk Kandang Kambing (Kontrol); 75 % N Pupuk Kandang Kambing + 25 % N POC Daun Gamal; 50 % N Pupuk Kandang Kambing + 50 % N POC Daun Gamal; 25 % N Pupuk Kandang Kambing + 75 % N POC Daun Gamal; 100 % N POC Daun Gamal ; dan 100 % N Urea. Hasil pengamatan dianalisis dengan menggunakan sidik ragam atau *Analisis of Variance* dengan taraf $\alpha : 5\%$. Apabila ada perbedaan nyata pengaruh antara perlakuan yang diujikan maka dilakukan uji lanjutan dengan menggunakan *Duncan's Multiple Range Test* dengan taraf $\alpha : 5\%$. Hasil penelitian menunjukkan bahwa pemberian imbang POC daun Gamal dan takaran pupuk kandang kambing dapat meningkatkan tinggi tanaman, jumlah daun, berat segar tanaman, berat kering tanaman, luas daun, jumlah buah, berat buah, berat total buah, panjang buah dan diameter buah

Kata kunci : efektivitas pupuk kandang, pupuk daun gamal, dan pupuk organik cair.

ABSTRACT

A research aims to test the effectiveness of POC balances gamal leaf and the dosage of goat manure on the growth and yield of purple eggplant Determine the POC balance of gamal leaves and goat manure dosage on the growth and yield of purple eggplant The research was conducted at Experimental Field of Faculty of Agriculture Muhammadiyah University of Yogyakarta in November 2017 - May 2018. The design is used Completely Randomized Design (CRD) which consists of 6 levels of treatment are : 100% N Goat Cage Manure (Control); 75% N Goat Cage Manure + 25% N POC Gamal Leaf 50% N Goat Cage Manure + 50% N POC Gamal Leaves; 25% N Goat Cage Manure + 75% N POC Gamal Leaves; 100% N POC Gamal leaves ; and 100% N Urea. The result of the observation was analyzed by using variance or Analysis of Variance with the level of α : 5% If there is a significant difference between the treatments tested then continued test using Duncan's Multiple Range Test with α : 5%. The result of this research indicate that giving of POC leaf of Gamal leaves and dosage of goat manure can increase of plant height, number of leaves, fresh weight of plant, dry weight of plant, leaf area, number of fruit, fruit weight, total fruit weight, fruit length and fruit diameter.

Keywords: effectiveness of manure, gamal leaf fertilizer, and liquid organic fertilizer.