RESPON PERTUMBUHAN DAN HASIL TANAMAN CAISIM (*Brassica juncea* L.) AKIBAT PEMBERIAN MACAM PUPUK ORGANIK CAIR SERTA MEDIA TANAM

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ABSTRAK

Penelitian ini bertujuan untuk melihat pengaruh macam pupuk organik cair dan macam media tanam terhadap pertumbuhan dan hasil tanaman Caisim (*Brassica juncea* L.). Penelitian ini dilaksanakan dalam bentuk percobaan lapangan yang dilakukan di Kebun Bibit Hortikultura Tamantirto, Kasihan, Bantul, Yogyakarta. Waktu pelaksanaan dimulai pada bulan Maret sampai April 2018. Penelitian ini disusun menggunakan Rancangan Acak Kelompok Lengkap (RAKL) dengan dua faktorial. Faktor pertama tanpa pupuk **(P0)** pupuk organik cair urin kelinci **(P1)** dan pupuk organik cair urin sapi **(P2)**. Faktor kedua adalah media tanam ; arang sekam : tanah (0,5 : 1) **(M1)**, arang sekam : tanah (1 : 1) **(M2)**, arang sekam : tanah (1,5 : 1) **(M3)**. Penelitian ini memiliki 9 kombinasi perlakuan yang diulang sebanyak 3 kali dan menggunakan 324 tanaman caisim. Analisis dengan keragaman pada jenjang nyata 5% dan dilakukan uji lanjut berdasarkan Uji Jarak Berganda Duncan (DMRT). Parameter yang diamati meliputi : tinggi tanaman, jumlah daun, lebar daun, berat basah tanaman, berat ekonomis dan berat kering tanaman yang akan diambil pada saat panen. Hasil penelitian menunjukkan bahwa terdapat pengaruh nyata pada perlakuan macam pupuk organik cair urin kelinci **(P1)** dengan macam media tanam arang sekam : tanah = 1,5 : 1 **(M3)** pada parameter jumlah daun 25 hari setelah tanam dengan hasil rerata tertinggi perlakuan pupuk organik cair urin kelinci 21,48 helai dan pada perlakuan media tanam tertinggi 20,52 helai. Pada parameter luas daun terdapat pengaruh nyata pada perlakuan pupuk organik cair urin kelinci **(P1)** dengan rerata tertinggi 260,81 cm^2.

Kata kunci : pupuk organik cair, media tanam, dan tanaman *Brassica juncea* L.

RESPONSE OF GROWTH AND RESULTS OF CAISIM PLANT (*Brassica juncea* L.) DUE TO GRANTING OF KINDS OF LIQUID ORGANIC FERTILIZERS AND PLANT MEDIA

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ABSTRACT

This research aims to see at the effect of various types of liquid organic fertilizers and types of planting media on the growth and yield of Caisim (Brassica juncea L.) plants. This research was carried out in the form of field experiments conducted at the Tamantirto Horticultural Seedling Garden, Kasihan, Bantul, Yogyakarta. The execution time starts from March to April 2018. This research was arranged using a Complete Randomized Block Design (RAKL) with two factorials. The first factor was without fertilizer **(P0)** liquid rabbit urine organic fertilizer **(P1)** and cow urine urine liquid fertilizer **(P2)**. The second factor is planting media ; husk charcoal : soil (0,5 : 1) **(M1)**, husk charcoal : soil (1: 1) **(M2)**, husk charcoal : soil (1,5 : 1) **(M3)**. This research had 9 treatment combinations that were repeated 3 times and used 324 caisim plants. Analysis with diversity at a real level of 5% and carried out further testing based on Duncan's Multiple Range Test (DMRT). Parameters observed included : plant height, leaf number, leaf width, plant wet weight, economic weight and dry weight of plants to be harvested at harvest time. The results showed that there was a significant effect on the treatment of organic fertilizer urine of rabbit urine **(P1)** with various medium of husk charcoal plantation: soil = 1,5 : 1 **(M3)** on the 25 days after planting leaf number with highest average of organic urine liquid fertilizer rabbit 21,48 strands and on the highest planting treatment 20,52 pieces. On the parameter of leaf area there is a real effect on the treatment of liquid organic fertilizer urine rabbit **(P1)** with the highest average 260,81 cm^2.

Keywords: liquid organic fertilizer, planting medium, and Brassica juncea L.