

Nadia Wahyu Trilestari. 180311100013. Pengaruh Konsentrasi Pupuk Organik Cair (POC) Kotoran Sapi Terhadap Pertumbuhan dan Hasil Tanaman Selada Merah (*Lactuca sativa* L.), dibimbing Oleh: Ir. Amin Zuchri, M.P dan Ir. Achmad Djunaedy, M.P

ABSTRAK

Penelitian ini bertujuan untuk mengetahui pertumbuhan dan hasil tanaman selada merah (*Lactuca sativa* L.) akibat pengaplikasian POC kotoran sapi. Penelitian ini dilakukan di *green house* Prodi Agroekoteknologi Universitas Trunojoyo Madura dari bulan April 2022 hingga Mei 2022. Rancangan yang digunakan pada penelitian adalah RAL (Rancangan Acak Lengkap), dengan 6 perlakuan 4 ulangan sehingga terdapat 24 unit percobaan. Taraf yang digunakan yaitu P0= tanpa POC kotoran sapi (kontrol), P1= 75 mL POC/ liter air, P2= 105 mL POC/ liter air, P3=135 mL POC/ liter air, P4= 165 mL POC/ liter air, P5= 195 mL POC/ liter air. Data dianalisis menggunakan *Analysis of Variance* (ANOVA) pada taraf 5%, yang dilanjutkan dengan Uji Beda Jarak Nyata Duncan (BNJD) taraf 5 % jika perlakuan berpengaruh nyata. Hasil penelitian menunjukkan bahwa perlakuan konsentrasi pupuk organik cair kotoran sapi berpengaruh nyata pada tinggi tanaman, jumlah daun, bobot basah tajuk, bobot kering tajuk dan bobot kering akar, namun berpengaruh tidak nyata pada bobot basah akar. Perlakuan terbaik diperoleh pada perlakuan P5 195mL POC/ liter air.

Kata kunci : *POC Kotoran Sapi, Selada Merah (*Lactuca sativa* L.)*

Nadia Wahyu Trilestari. 180311100013. Effect Cow Manure Liquid Organic Fertilizer (LOF) for Growth and Yield of Red Lettuce (*Lactuca sativa* L.) , Supervised by: Ir. Amin Zuchri, M.P and Ir. Achmad Djunaedy, M.P

ABSTRACT

The purpose of this study was to determine the growth and yield of red lettuce (*Lactuca sativa* L.) due to the application of liquid organic fertilizer in cow dung. This research was conducted at the *greenhouse* of Agroecotechnology Study Program, Trunojoyo University Madura from April to May 2022. The design used in this study was *Completely Randomized Design* (CRD), with 6 treatments and 4 replications so that there were 24 experimental units. The levels used were P0= without LOF cow manure (control), P1= 75 mL LOF/ liter water, P2= 105 mL LOF/ liter water, P3= 135 mL LOF/ liter water, P4= 165 mL LOF/ liter water, P5= 195 mL LOF/ liter of water. Data were analyzed using *Analysis of Variance* (ANOVA) 5%. The difference among means was analyzed by *Duncan's Range Means Distance Test* (DMRT) 5%. The results showed that the concentration of cow dung liquid organic fertilizer (LOF) had a significant effect on the plant height, number of leaves, crown wet weight, shoot and root dry weight, but not significant effect on root wet weight. The best treatment was obtained in the P5 treatment of 195 mL LOF/ liter of water.

Keywords: *LOF cow manure, red lettuce (*Lactuca sativa* L.)*