

## ABSTRAK

**NUR HAMIYA. 105971100520.** Pengaruh Komposisi Media Terhadap Pertumbuhan dan Produksi Tanaman Cabai Besar (*Capsicum annum L.*). Dibimbing oleh **ROSANNA** dan **AMANDA PATAPPARI FIRMANSYAH**

Penelitian ini bertujuan untuk mengetahui pengaruh komposisi media terhadap pertumbuhan dan produksi tanaman cabai besar (*Capsicum annum L.*). Penelitian ini disusun menggunakan Rancangan Acak Kelompok (RAK) dengan 1 faktor yaitu faktor, yaitu : 2 kg Tanah (M0), 2 kg tanah + 1 kg pupuk kandang ayam (M1), 2 kg tanah + 1 kg pupuk kandang ayam + 1 kg arang sekam (M2), 2 kg tanah + 15 g guano (M3), 2 kg tanah + 1 kg pupuk kandang ayam + 15 g guano (M4), 2 kg tanah + 1 kg pupuk kandang ayam + 1 kg arang sekam + 15g guano (M5), 2 kg tanah + 20 g guano (M6), 2 kg tanah + 1 kg pupuk kandang ayam + 20 g guano (M7), 2 kg tanah, 1 kg pupuk kandang ayam +1 kg arang sekam + 20 g guano (M8), 2 kg tanah + 25 g guano (M9), 2 kg tanah + 1 kg pupuk kandang ayam + 25 g guano (M10), 2 kg tanah + 1 kg pupuk kandang ayam + 1 kg arang sekam, 25 g guano (M11). Parameter yang diamati adalah tinggi tanaman (cm), jumlah daun (helai), jumlah bunga, diameter batang, jumlah cabang, jumlah buah, dan berat basah. Penelitian ini diulang sebanyak 3 kali sehingga terdapat 36 percobaan. Semua data yang diperoleh dianalisis menggunakan SPSS.

Penelitian menunjukkan pemberian bahwa perlakuan pupuk kandang ayam, arang sekam dan guano berpengaruh nyata terhadap pertumbuhan dan produksi cabai besar pada parameter tinggi tanaman pada 7,14 dan 21 HST. Jumlah daun pada perlakuan pupuk kandang ayam, arang sekam dan guano berpengaruh nyata pada jumlah daun 21 HST, dan jumlah cabang berpengaruh nyata pada 14 HST. Jumlah bunga, diameter batang, jumlah buah dan berat basah tidak berpengaruh nyata pada perlakuan pupuk kandang ayam, arang sekam, dan guano.

*Kata Kunci : komposisi media tanam ,arang sekam.*

## ABSTRACT

**NUR HAMIYA. 105971100520.** Effect of Media Composition on the Growth and Production of Large Chili Plants (*Capsicum annum L.*). Supervised by **ROSANNA** and **AMANDA PATAPPARI FIRMANSYAH.**

This research aims to determine the effect of media composition on the growth and production of large chili plants (*Capsicum annum L.*). This research was structured using a Randomized Block Design (RAK) with 1 factor, namely: 2 kg soil (M0), 2 kg soil + 1 kg chicken manure (M1), 2 kg soil + 1 kg chicken manure + 1 kg husk charcoal (M2), 2 kg soil + 15 g guano (M3), 2 kg soil + 1 kg chicken manure + 15 g guano (M4), 2 kg soil + 1 kg chicken manure + 1 kg husk charcoal + 15g guano (M5), 2 kg soil + 20 g guano (M6), 2 kg soil + 1 kg chicken manure + 20 g guano (M7), 2 kg soil, 1 kg chicken manure + 1 kg husk charcoal + 20 g guano (M8), 2 kg soil + 25 g guano (M9), 2 kg soil + 1 kg chicken manure + 25 g guano (M10), 2 kg soil + 1 kg chicken manure + 1 kg husk charcoal, 25 g guano (M11). The parameters observed were plant height (cm), number of leaves (strands), number of flowers, stem diameter, number of branches, number of fruit, and wet weight. This research was repeated 3 times so there were 36 experiments. All data obtained were analyzed using SPSS.

Research shows that the treatment of chicken manure, husk charcoal and guano has a significant effect on the growth and production of large chilies on plant height parameters at 7.14 and 21 HST. The number of leaves in the chicken manure, husk charcoal and guano treatments had a significant effect on the number of leaves at 21 DAP, and the number of branches had a significant effect at 14 DAT. The number of flowers, stem diameter, number of fruit and wet weight did not have a significant effect on the treatment of chicken manure, husk charcoal and guano.

**Keywords:** *planting media composition, husk charcoal.*