

RANI ASTADI. 04391711029. PENGARUH BERBAGAI MEDIA TANAM TERHADAP pH TANAH DAN PERSEN KADAR AIR TANAH SERTA PRODUKSI TANAMAN BAYAM CABUT (*Amaranthus tricolor L*)

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RINGKASAN

Penggunaan bahan organik sebagai pupuk merupakan salah satu alternatif untuk mengatasi penggunaan pupuk kimia dan usaha untuk meningkatkan unsur hara. Salah satu bahan organik yang digunakan sebagai pupuk adalah kotoran kambing, kotoran sapi, kotoran ayam dan kotoran kuda. Penelitian ini dilakukan untuk mengetahui pengaruh pemberian berbagai pupuk kandang terhadap pertumbuhan dan hasil tanaman bayam cabut (*Amaranthus tricolor L*). Penelitian ini dilaksanakan di Kelurahan Ngade Kecamatan Ternate Selatan yang berlangsung dari bulan Mei-Juli 2021. Penelitian ini menggunakan Rancangan Acak Kelompok (RAK) yang terdiri dari 5 perlakuan dan di ulangi sebanyak 4 kali sehingga terdapat 20 unit percobaan dengan perlakuan sebagai P1 tanpa pupuk (control) P2 (pupuk kandang kambing 1 kg), P3 (pupuk kandang sapi 1 kg), P4 (pupuk kandang ayam 1 kg), P5 (pupuk kandang kuda 1 kg). Parameter yang di amati parameter yaitu: pH tanah, Persen kadar air, Tekstur, C-Organik, tinggi tanaman, jumlah daun dan berat segar . Data yang diperoleh dianalisis menggunakan ANOVA dan dilanjutkan dengan uji BNT dengan taraf α 0,05 jika terdapat perlakuan yang nyata. Hasil penelitian menunjukkan bahwa pengaruh berbagai media tanam terhadap produksi tanaman bayam cabut (*Amaranthus Tricolor L*). Pengaruh terbaik terdapat pada perlakuan P2 (pupuk kandang kambing) (P2). berpengaruh nyata terhadap tinggi tanaman, jumlah daun dan berat segar.

Kata Kunci : Pupuk kandang, pH Tanah, Persen Kadar Air, Tekstur, C Organik.

SUMMARY

RANI ASTADI, 04391711029. EFFECT OF VARIOUS PLANTING MEDIA ON SOIL pH AND PERCENT OF WATER CONTENT AND PRODUCTION OF REMOVED PLANTS (*Amaranthus tricolor L*)

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The use of organic matter as fertilizer is an alternative to overcome the use of chemical fertilizers and efforts to increase nutrients. One of the organic materials used as fertilizer is goat manure, cow manure, chicken manure and horse manure. This study was conducted to determine the effect of various manures on the growth and yield of pulled spinach (*Amaranthus tricolor L*). This research was carried out in Ngade Village, South Ternate District which took place from May-July 2021. This study used a Randomized Block Design (RAK) which consisted of 5 treatments and was repeated 4 times so that there were 20 experimental units with treatment as P1 without fertilizer (control) P2 (1 kg of goat manure), P3 (1 kg of cow manure), P4 (1 kg of chicken manure), P5 (1 kg of horse manure). The parameters observed were: soil pH, percent moisture content, texture, C-Organic, plant height, number of leaves and fresh weight. The data obtained were analyzed using ANOVA and continued with the BNT test with a level of 0.05 if there was a real treatment. The results showed that the effect of various growing media on the production of pulled spinach (*Amaranthus tricolor L*). The best effect was found in the treatment of P2 (goat manure) (P2). significant effect on plant height, number of leaves and fresh weight.

Keywords: Manure, Soil pH, Percent Moisture Content, Soil Texture, Organik C