

# **RESPON PERTUMBUHAN DAN PRODUKSI TANAMAN CHAISIM (*Brassica campestris* Var. *Chinensis* L) AKIBAT PEMBERIAN PUPUK KANDANG KAMBING DI TANAH INCEPTISOL KELURAHAN SASA KECAMATAN TERNATE SELATAN**

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## **ABSTRAK**

Inceptisol Ternate adalah tanah yang memiliki C-organik, N-total, P-tanah dan KTK tanah yang rendah, oleh sebab itu harus di barengi dengan tindakan pemupukan. Tujuan penelitian untuk mengetahui pengaruh dosis pupuk kandang kambing terhadap pertumbuhan dan produksi tanaman chaisim di inceptisol Ternate. Rancangan percobaan pada penelitian ini menggunakan Rancangan Acak Kelompok (RAK) dengan perlakuan pemberian pupuk kandang kambing, yang terdiri atas 5 tingkat, yaitu: H0 = kontrol (tanpa pupuk), H1 = 10 ton ha<sup>-1</sup>, H2 = 20 ton ha<sup>-1</sup>, H3 = 30 ton ha<sup>-1</sup>, dan H4 = 40 ton ha<sup>-1</sup>, masing-masing diulang 4 kali. Teknik analisa data menggunakan Analisis Of Varian, apabila terdapat pengaruh nyata dari perlakuan maka dilanjutkan dengan uji beda nyata BNJ  $\alpha$  5%. Perlakuan dosis pupuk kandang kambing 40 ton ha<sup>-1</sup> memberikan pengaruh yang berbeda nyata dengan perlakuan dosis pupuk lainnya pada umur 10 HST, namun pada jumlah daun, luas daun, berat segar, persen kadar air dan pH tanah memberikan pengaruh yang tidak berbeda nyata. Penambahan dosis pupuk kandang kambing 40 ton ha<sup>-1</sup> dapat menyediakan hara bagi pertumbuhan tanaman chaisim. Produksi tertinggi dicapai pada perlakuan dosis pupuk kandang kambing 40 ton ha<sup>-1</sup> yakni 13,25 ton ha<sup>-1</sup> sedangkan terendah pada control yakni 5,75 ton ha<sup>-1</sup>. Pemberian dosis pupuk kandang kambing pada tanah inceptisol perlu dilakukan saat budidaya tanaman chaisim.

Kata kunci: Pupuk kandang kambing, Chaisim, inceptisol.

**RESPONSE TO GROWTH AND PRODUCTION OF CHAISIM PLANT  
(*Brassica campestris* Var. *Chinensis* L) DUE TO GIVING GOAT CAGE  
FERTILIZER IN INCEPTISOL LAND IN SASA KECAMATAN  
TERNATE SELATAN**

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**ABSTRACT**

Inceptisol Ternate is soil which has low C-organic, N-total, P-soil and soil CEC, therefore it must be accompanied by fertilization action. The research objective was to determine the effect of goat manure dosage on the growth and production of chaisim plants in inceptisol ternate. The experimental design in this study used a randomized block design (RBD) with treatment of goat manure, which consisted of 5 levels, namely: H0 = control (without fertilizer), H1 = 10 ton ha<sup>-1</sup>, H2 = 20 ton ha<sup>-1</sup>, H3 = 30 ton ha<sup>-1</sup> and H4 = 40 ton ha<sup>-1</sup>, each repeated 4 times. The data analysis technique uses the analysis of variants, if there is a real effect of the treatment then it is followed by the real difference test BNJ  $\alpha$  5%. Treatment of goat manure dose of 40 ton ha<sup>-1</sup> had a significantly different effect from treatment of other fertilizer doses at the age of 10 DAS, but on the number of levels, leaf area, fresh weight, present water and soil pH gave no significant difference. The addition of the dose of goat manure to 40 ton ha<sup>-1</sup> can provide nutrients for the growth of chaisim plants. The highest production was achieved in the treatment of goat manure dose of 40 ton ha<sup>-1</sup>, which was 13.25 ton ha<sup>-1</sup>, while the lowest was in the control, namely 5.75 ton ha<sup>-1</sup>. Giving a dose of goat manure in inceptisol soil needs to be done when cultivating chaisim plants.

Key words: goat manure, chaisim, inceptisol.

