

ABSTRAK
**PENGARUH KOMBINASI TAKARAN PUPUK KANDANG KAMBING
DAN PUPUK UREA TERHADAP PERTUMBUHAN DAN HASIL
TANAMAN SAWI HIJAU (*Brassica juncea* L.)**

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Pemupukan merupakan upaya untuk meningkatkan produktivitas tanaman sawi hijau. Pemberian pupuk kimia harus dikombinasikan dengan pupuk organik, salah satunya yaitu pupuk kandang kambing. Pemberian pupuk kandang kambing sebagai bahan organik mampu memperbaiki kesuburan tanah secara fisik, kimia dan biologi, sehingga pemberian pupuk kimia khususnya urea akan diserap baik oleh akar tanaman dan mengakibatkan meningkatnya pertumbuhan tanaman. Penelitian ini bertujuan untuk mengetahui respon tanaman sawi hijau terhadap pemberian kombinasi takaran pupuk kandang kambing dan pupuk urea. Penelitian ini dilaksanakan pada bulan November 2023 sampai bulan Januari 2024 dan bertempat di Desa Tanjungkarang, Kecamatan Cigalontang, Kabupaten Tasikmalaya. Penelitian ini menggunakan Rancangan Acak Kelompok dengan 6 perlakuan yaitu tidak menggunakan pupuk, pupuk kandang kambing 20 ton/ha, pupuk kandang kambing 15 ton/ha dan pupuk urea 37,5 kg/ha, pupuk kandang kambing 10 ton/ha dan urea 75 kg/ha, pupuk kandang kambing 5 ton/ha dan urea 112,5 kg/ha dan pupuk urea 150 kg/ha. Setiap perlakuan diulang sebanyak 4 kali, data pengamatan dianalisis menggunakan uji F dan dilanjutkan dengan Uji Jarak Berganda Duncan dengan taraf 5%. Hasil penelitian menunjukkan bahwa kombinasi takaran pupuk kandang kambing 15 ton/ha dan pupuk urea 37,5 kg/ha menunjukkan pengaruh paling baik terhadap tinggi tanaman, jumlah daun, luas daun, bobot segar brangkas tanaman, bobot segar brangkas tanaman per petak, bobot segar tajuk dan bobot segar tajuk per petak di konversi ke hektar.

Kata kunci: Pemupukan, pupuk kandang kambing, pupuk urea dan sawi hijau

ABSTRACT

THE EFFECT OF THE COMBINATION OF GOAT MANURE AND UREA FERTILIZER ON THE GROWTH AND YIELD OF MUSTARD GREENS (*Brassica juncea* L.)

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Fertilization is an effort to increase the productivity of green mustard plants. The application of chemical fertilizers must be combined with organic fertilizers, one of which is goat manure. The use of goat manure as an organic material can improve soil fertility physically, chemically, and biologically, allowing chemical fertilizers, particularly urea, to be well absorbed by plant roots, resulting in improved plant growth. This study aims to determine the response of green mustard plants to the application of a combination of goat manure and urea fertilizer dosages. The research was conducted from November 2023 to January 2024 in Tanjungkarang Village, Cigalontang District, Tasikmalaya Regency. The study used a Randomized Block Design with six treatments: no fertilizer, goat manure 20 tons/ha, goat manure 15 tons/ha and urea 37.5 kg/ha, goat manure 10 tons/ha and urea 75 kg/ha, goat manure 5 tons/ha and urea 112.5 kg/ha, and urea 150 kg/ha. Each treatment was repeated four times. Observation data were analyzed using an F-test and followed by Duncan's Multiple Range Test at a 5% significance level. The results of the research showed that the combination of 15 tons/ha of goat manure and 37.5 kg/ha of urea fertilizer showed the best effect on plant height, number of leaves, leaf area, fresh weight of plant stover, fresh weight of plant stover per plot, fresh weight of shoots and fresh weight of shoots per plot converted to hectares.

Keywords: Fertilization, goat manure, urea fertilizer, and green mustard