

**PENGARUH PEMBERIAN BEBERAPA JENIS BAHAN
ORGANIK DAN PUPUK ZA TERHADAP PERTUMBUHAN
DAN HASIL BAWANG MERAH (*Allium ascalonicum* L)
PADA ULTISOL**

SKRIPSI



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Abstrak

Penelitian ini bertujuan untuk mengetahui interaksi terbaik pemberian beberapa jenis bahan organik dan ZA. Penelitian ini telah dilaksanakan pada bulan Agustus sampai November 2018 yang bertempat di Kebun Percobaan Fakultas Pertanian Universitas Andalas. Penelitian dilakukan dalam bentuk percobaan dengan menggunakan Rancangan Acak Lengkap (RAL) dua faktorial dengan faktor pertama yaitu pemberian beberapa jenis bahan organik dosis 25 ton/ha pupuk kandang ayam, 25 ton/ha pupuk kandang sapi, dan 25 ton/ha arang sekam. Faktor kedua yaitu pemberian beberapa dosis pupuk ZA dengan dosis tanpa ZA, 300 kg/ha, 400 kg/ha dan 500 kg/ha. Data hasil pengamatan dianalisis menggunakan uji F dengan taraf 5%, jika berbeda nyata dilanjutkan dengan uji Duncan's Multiple Range Test (DMRT) pada taraf 5%. Hasil penelitian menunjukkan bahwa interaksi terbaik terdapat pada pemberian 25 ton/ha arang sekam dan pupuk ZA 500 kg/ha terhadap diameter umbi, bobot segar umbi per rumpun, bobot segar per hektar, bobot kering umbi per rumpun, dan bobot kering umbi per hektar bawang merah. Pemberian 500 kg/ha ZA menghasilkan jumlah umbi terbanyak dan pemberian pupuk kandang ayam 25 ton/ha memberikan tinggi tanaman tertinggi pada bawang merah.

Kata kunci : *bahan organik, pupuk ZA, bawang merah, interaksi*

THE EFFECT OF APPLICATION OF SEVERAL KIND OF ORGANIC MATTER AND ZA (*Zwavelzure Amoniak*) FERTILIZER ON THE GROWTH AND YIELD OF SHALLOTS (*Allium ascalonicum* L.) ON ULTISOL

ABSTRACT

The aim of this research was to determine whether the best interaction of application of some kind of organic matter and ZA (*Zwavelzure Amoniak*) fertilizer. This research was conducted at Experimental Garden Faculty of Agriculture Andalas University from August 2018 to November 2018. The research consisted of two factorial by using a Completely Randomized Design (CRD). The treatment in the first factor were several kind of organic matter with doses of 25 tons/ha of chicken manure, 25 tons/ha of cow manure, and 25 tons/ha of husk charcoal. The treatment in the second factor were doses of ZA fertilizer with doses without ZA, 300 kg/ha, 400 kg/ha and 500 kg/ha. The data from the observations were analyzed using F test with a level of 5%, if significantly different and continued with the Duncan Multiple Range Test (DMRT) test at the level of 5%. The results showed that the best interactions was 25 tons/ha of husk charcoal and ZA fertilizer of 500 kg/ha to tuber diameter, tuber fresh weight per clump, fresh weight per hectare, tuber dry weight per clump, and tuber dry weight per hectare of shallot. To application of 500 kg/ha of ZA gave the highest number of tubers and application of 25 tons/ha of chicken manure gave the highest plant height of shallot.

Keywords: *organic matter, ZA fertilizer, shallot, interaction*

