ABSTRAK

Dian Rahlin Bukoe (91511407133034). Respon Pertumbuhan dan Hasil Tomat (*Licopersicum esculentum Mill)* Pada Berbagai Dosis Pupuk Kandang Kambing, di Bawah Bimbingan Ita Mowidu dan Meitry Tambingsila.

Tomat banyak digunakan sebagai bahan baku industry. Meskipun potensi produksinya biasa mencapai 20-30 ton/ha, namun produktivitas tomat saat ini masih rendah. Penyebabnya antara lain kerusakan tanah yang renda. Penelitian ini bertujuan untuk mengetahui respon pertumbuhan dan hasil tomat pada pemberian berbagai dosis pupuk kandang kambing. Penelitian telah dilaksanakan di desa Poleganyara, kab. Poso pada bulan Agustus sampai November 2020. Dosis pupuk kandang kambing yang digunakan adalah 0, 5,10 dan 15 ton/ha yang diulang 5 kali. Unit-unit percobaan diatur menurut pola rancangan acak kelompok (RAK) dan beda antar perlakuan diuji dengan uji beda nyata jujur (BNJ). Hasil penelitian menunjukan bahwa aplikasi berbagai dosis pupuk kandang kambing berpengaruh nyata sampai dengan sangat nyata terhadap tinggi tanaman, jumlah anak daun, jumlah buah per pohon dan bobot buah. Aplikasi pupuk kandang kambing dengan dosis 15 ton/ha memberikan pertumbuhan dan hasil tomat terbaik. Hasil tomat yang diperoleh adalah 27,12 ton/ha.

Kata Kunci : Tomat, Pupuk Kandang Kambing, Pertumbuhan, Hasil.

ABSTRACT

Dian Rahlin Bukoe (91511407133034). The Growth Response and Yield of Tomato (*Licopersicum esculentum Mill*) at Various Doses of Goat Manure, Superviseed by Ita Mowidu and Meitry Tambingsila.

Tomatoes are widely used as industrial raw materials. The production potential usually reaches 20-30 tons/ha although, the current productivity of tomatoes is still low. The causes include low soil damage. This study aims to find out the response of growth and yield of tomatoes in the application of various doses of goat manure. The research has been carried out in Poleganyara village, Poso Regency from August to November 2020. The doses of goat manure used were 0, 5,10 and 15 tons/ha which were repeated 5 times. Experimental units were arranged according to a randomized block design (RBD) pattern and differences between treatments were tested by using BNJ test. The results obtained that the application of various doses of goat manure had a significant to very significant effect on plant height, number of leaflets, number of fruit per tree and fruit weight. The application of goat manure at a dose of 15 tons/ha gave the best tomato growth and yield. The yield of tomatoes obtained was 27,12 tons/ha.

Keywords: Tomato, Goat Manure, Growth, Yield.