

ABSTRAK

PENGARUH KOMBINASI DOSIS PUPUK CAIR LIMBAH TAHU DAN KONSENTRASI AIR KELAPA TERHADAP PERTUMBUHAN DAN HASIL TANAMAN KAILAN (*Brassica oleracea* var. *Alboglabra*)

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Kailan merupakan jenis sayuran daun yang termasuk dalam famili kubis-kubisan yang memiliki kandungan gizi yang baik untuk manusia. Penelitian ini bertujuan untuk mengetahui pengaruh limbah cair tahu terhadap pertumbuhan tanaman kailan. Penelitian ini dilaksanakan pada bulan April sampai Juni 2024, di Green House bertempat di Kelurahan Mugarsari, Kecamatan Tamansari, Kota Tasikmalaya. Penelitian menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan dan diulang 5 kali. Takaran yang diuji yaitu A (pupuk cair limbah tahu 0 ml/tanaman + air kelapa 0 ml/liter), B (Pupuk cair limbah tahu 50 ml/tanaman + Air kelapa 50 ml/liter), C (Pupuk cair limbah tahu 100 ml/tanaman + Air Kelapa 100 ml/liter), D (Pupuk cair limbah tahu 100 ml/tanaman + Air Kelapa 50 ml/liter), E (Pupuk cair limbah tahu 100 ml/tanaman + Air Kelapa 100 ml/liter). Pemberian kombinasi dosis pupuk cair limbah tahu dan air kelapa berpengaruh nyata terhadap tinggi tanaman, jumlah daun 42 HST, bobot brangkasan, bobot bersih, dan hasil per petak. Tetapi tidak berpengaruh terhadap tinggi tanaman, diameter batang dan jumlah daun per tanaman pada 14 dan 28 HST. Takaran pupuk cair limbah tahu 100 ml/tanaman dan air kelapa 100 ml/liter memberikan pengaruh baik terhadap pertumbuhan dan hasil tanaman kailan dengan pengaplikasian sebanyak 2 kali.

Kata Kunci : Kailan, limbah cair tahu, air kelapa

ABSTRACT

THE EFFECT OF COMBINATION OF LIQUID FERTILIZER DOSES OF TOFU WASTE AND COCENTRATION COCONUT WATER ON THE GROWTH AND YIELD OF KAILAN PLANTS (*Brassica oleracea* var. Alboglabra)

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Kailan is a type of leafy vegetable belonging to the cabbage family that has good nutritional content for humans. This study aims to determine the effect of tofu liquid waste on the growth of kailan plants. This study was conducted from April to June 2024, at the Green House located in Mugarsari Village, Tamansari District, Tasikmalaya City. The study used a Completely Randomized Design (CRD) with 5 treatments and repeated 5 times. The doses tested were A (liquid fertilizer of tofu waste 0 ml/plant + coconut water 0 ml/plant), B (liquid fertilizer of tofu waste 50 ml/plant + coconut water 50 ml/liter), C (liquid fertilizer 100 ml/plant + coconut water 100 ml/liter), D (liquid fertilizer of tofu waste 100 ml/plant + coconut water 50 ml/liter), E (liquid fertilizer of tofu waste 100 ml/plant + coconut water 100 ml/liter). The combination of liquid fertilizer doses of tofu waste and coconut water significantly affected plant height, number of leaves 42 HST, weight of the stover, net weight, and yield per plot. However, it did not affect plant height, stem diameter and number of leaves per plant at 14 and 28 HST. The dosage of liquid fertilizer of tofu waste of 100 ml/plant and coconut water of 100 ml/liter had a good effect on the growth and yield of kale plants with 2 applications.

Keywords : Kailan, liquid tofu waste, coconut water