

## ABSTRACT

**Zaini Hafiz. Effect Of Oil Palm Empty Fruit Bunch Compost On Growth and Production Plants Celery (*Apium graveolens L.*)** Plants Celery (*Apium graveolens L.*) is one of the vegetables leaves are used as seasoning and medical materials. Production is still quite low celery caused by intensive cultivation have not been implemented as the proper use fertilizers so that the necessary recovery of waste that is composted organic manure oil palm empty fruit bunches (EFB). This study aimed to determine the effect of compost empty fruit bunches of oil palm on growth on growth and yield of celery (*Apium graveolens L.*). This research has been conducted in the Experimental Farm Faculty of Agriculture, University of Medan Area with a height of 12 meters above sea level began in February to April 2016. The treatment consisted of D0: without fertilizer, D1 : compost TKKS 5 tonnes / ha, D2: compost TKKS 10 ton / ha, D3 : Compost TKKS 15 tonnes / ha, D4 : compost TKKS 20 tonnes / ha, and D5 : compost TKKS 25 ton/ha using a randomized block design non factorial and repeated 4 times. The parameters were observed in this study in terms of height (cm), number of leaves, number of tillers, heavy harvest of plot (g), the weight of the sample crops (g) and selling the harvest weight (g). The results showed award compost empty oil palm bunches significant effect on growth and yield of celery at a dose of 20 ton / ha (D4) on all parameters of observation.

Keywords : celery, compost oil palm empty fruit bunches.

## RINGKASAN

**Zaini Hafiz. Pengaruh Pemberian Kompos Tandan Kosong Kelapa Sawit Terhadap Pertumbuhan Dan Produksi Tanaman Seledri (*Apium graveolens L.*).** Tanaman Seledri (*Apium graveolens L.*) adalah salah satu sayuran daun yang digunakan sebagai bumbu masak dan bahan obat-obatan. Produksi seledri masih cukup rendah yang diakibatkan budidayanya belum dilaksanakan secara intensif seperti penggunaan pupuk yang tepat sehingga perlu dilakukannya pemanfaatan pupuk organik yaitu pupuk kompos tandan kosong kelapa sawit (TKKS). Penelitian ini bertujuan untuk mengetahui pengaruh pemberian pupuk kompos tandan kosong kelapa sawit terhadap pertumbuhan dan produksi tanaman seledri (*Apium graveolens L.*). Penelitian ini telah dilaksanakan di kebun percobaan Fakultas Pertanian Universitas Medan Area dengan ketinggian 12 mdpl di mulai bulan february sampai april 2016. Perlakuan terdiri dari D0 : tanpa pupuk, D1 : kompos TKKS 5 ton/ha, D2 : pupuk kompos TKKS 10 ton/ha, D3 : pupuk kompos TKKS 15 ton/ha, D4 : pupuk kompos 20 ton/ha, D5 : pupuk kompos 25 ton/ha dengan menggunakan rancangan acak kelompok non faktorial dan diulang sebanyak 4 kali. Parameter yang diamati dalam penelitian ini meliputi tinggi tanaman (cm), jumlah daun, jumlah anakan, berat panen per plot (g), berat panen tanaman sampel (g) dan berat panen jual (g). Hasil penelitian memperlihatkan pemberian pupuk kompos tandan kosong kelapa sawit berpengaruh nyata terhadap pertumbuhan dan produksi tanaman seledri dengan dosis sebesar 20 ton/ha (D4) pada seluruh parameter pengamatan.

Kata kunci : seledri, pupuk kompos tandan kosong kelapa sawit