

**PENGARUH TANDAN KOSONG KELAPA SAWIT PADA
TANAH BEKAS TAMBANG BIJI BESI TERHADAP
PERTUMBUHAN BIBIT KELAPA SAWIT
(*Elaeis guineensis* Jacq.) PADA FASE *Pre nursery***

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**FAKULTAS PERTANIAN
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Abstrak

Penelitian Pengaruh Tandan Kosong Kelapa Sawit pada Tanah Bekas Tambang Biji Besi Terhadap Pertumbuhan Bibit Kelapa Sawit (*Elaeis guineensis* Jacq.) pada fase *pre nursery*. Di laksanakan pada bulan Februari sampai Juni 2022 di rumah kaca Departemen Budidaya Tanaman Perkebunan Fakultas Pertanian Universitas Andalas Kampus III Dharmasraya. Tujuan dari penelitian ini adalah untuk mendapatkan dosis terbaik kompos tandan kosong kelapa sawit terhadap pertumbuhan bibit kelapa sawit di *pre nursery* dan untuk mengetahui respon pertumbuhan bibit kelapa sawit setelah di beri tandan kosong kelapa sawit. Penelitian ini menggunakan metode rancangan acak lengkap (RAL) yang terdiri 5 taraf yaitu: 0g/polybag, 100g/polybag, 150/polybag, 200g/polybag, 250g/polybag dan 4 ulangan. Setiap satuan percobaan terdiri 2 tanaman sehingga terdapat 40 tanaman sampel. Data pengamatan dianalisis dengan uji F pada taraf 5%. Jika berbeda nyata maka dilanjutkan dengan *Duncans New Multiple Tes* (DNMRT) pada taraf 5%. Hasil penelitian menunjukkan adanya interaksi pemberian kompos tandan kosong kelapa sawit pada variabel pengamatan tinggi tanaman, jumlah daun, segar akar, bobot kering tajuk. Namun pemberian kompos tandan kosong kelapa sawit dengan dosis terbaik pada perlakuan 250g/polybag kompos tandan kosong kelapa sawit.

Kata kunci: Kelapa sawit, tandan kosong kelapa sawit, tanah bekas tambang biji besi.

**ON THE EFFECT OFF EMPTY OIL PALM BUNCHES ON
FORMER IRON ORE MINED LAND ON THE GROWTH OF
OIL PALM SEEDLINGS (*Elaeis guineensis Jacq.*) in the
pre nursery PHASE**

Abstract

Research on the Effect of Empty Oil Palm Bunches on Former Iron Ore Mined Land on the Growth of Oil Palm Seedlings (*Elaeis guineensis Jacq.*) in the *pre nursery* phase. It will be held from February to June 2022 in the greenhouse of the Department of Plantation Plant Cultivation, Faculty of Agriculture, Andalas University, Campus III Dharmasraya. The aim of this study was to obtain the best dose of empty palm fruit bunch compost on the growth of oil palm seedlings in the pre nursery and to determine the growth response of the oil palm seedlings after being given empty palm fruit bunches. This study used a completely randomized design (CRD) method consisting of 5 taraf, namely: 0g/polybag, 100g/polybag, 150/polybag, 200g/polybag, 250g/polybag and and 4 replicates. Each experimental unit consisted of 2 plants, so there were 40 plants sample. Observational data were analyzed by F test at 5% level. If it is significantly different, then continue with *Duncan's New Multiple Test* (DNMRT) at the 5% level. The results showed that there was an interaction between the application of empty palm fruit bunch compost on the observation variables of plant height, number of leaves, fresh roots, shoot dry weight. However, giving the best dose of empty palm fruit bunches compost was in the treatment of 250g/polybag of empty palm fruit bunches compost.

Keywords : Oil palms, empty fruit bunches of oil palm and former iron ore mining