

**PENGARUH PEMBERIAN BEBERAPA DOSIS LIMBAH PADAT
PABRIK KELAPA SAWIT (SOLID) TERHADAP
PERTUMBUHAN BIBIT KELAPA SAWIT (*Elaeis guineensis* Jacq)
DI MAIN NURSERY**

SKRIPSI



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Abstrak

Penelitian dalam bentuk percobaan tentang pengaruh limbah padat pabrik kelapa sawit (solid) terhadap pertumbuhan bibit kelapa sawit di *main nursery* telah dilaksanakan di kebun percobaan Kampus III Universitas Andalas Dharmasraya, dimulai dari bulan Oktober 2016 sampai bulan Februari 2017. Tujuan dari penelitian ini adalah melihat pengaruh pemberian dosis limbah padat pabrik kelapa sawit (solid) terhadap pertumbuhan bibit kelapa sawit di *main nursery*.

Penelitian ini disusun dalam Rancangan Acak Lengkap (RAL) yang terdiri dari 6 perlakuan dan 4 ulangan. Data hasil pengamatan dianalisis secara statistik dengan uji F pada taraf 5 %, apabila F hitung lebih besar dari F tabel 5 % maka dilanjutkan dengan uji Duncan New Multiple Range Test (DNMRT) pada taraf 5%. Penelitian ini merupakan percobaan lapangan sebagai perlakuan adalah limbah padat pabrik kelapa sawit (solid) yaitu : P0= 0 g / polybag, P1= 200 g / polybag, P2= 400 g / polybag, P3= 600 g / polybag, P4= 800 g / polybag dan P5= 1000 g / polybag. Parameter yang diamati tinggi tanaman, diameter batang, jumlah daun, panjang helaian daun dan panjang akar. Dari penelitian dapat disimpulkan bahwa pemberian limbah padat pabrik kelapa sawit terhadap bibit kelapa sawit di *main nursery* memberikan respon terbaik pada dosis 1000 g / polibag.

Kata kunci : bibit kelapa sawit, limbah padat pabrik kelapa sawit (solid)

THE EFFECT APPLICATION OF SEVERAL DOSES OF PALM OIL SOLID WASTE (SOLID) ON THE GROWTH OF OIL PALM (*Elaeis guineensis* Jacq) SEEDLING IN THE MAIN NURSERY

ABSTRACT

The experiment to study the effect application of several doses of palm oil solid waste (solid) on the growth of oil palm seedling in the *main nursery* was conducted in the experimental field of Faculty of Agriculture Andalas University Campus III Dharmasraya during the period of October 2016 to February 2017. The objective of the experiment was to investigate the effect doses of palm oil solid waste on the growth of oil palm seedling in the *main nursery*.

Treatments were arranged in Complete Randomized Design (CRD) with six treatments and four replications. Data were analyzed statistically using F-test at 5% significant level, and if F-count larger than F-table then continued with Duncan's New Multiple Range Test (DNMRT) at 5% level. Treatments were doses of palm oil solid waste namely P0= 0 g / polybag, P1= 200 g / polybag, P2= 400 g / polybag, P3= 600 g / polybag, P4= 800 g / polybag dan P5= 1000 g / polybag. Parameters measured were plant height, stem diameter, leaf number, leaf length and root length. Results indicated that there is a significant effect of doses of solid waste on the growth of oil palm seedling in the *main nursery*, and the best result obtained at 1000 g / polybag.

Keywords : seedlings palm oil, palm oil solid waste (solid)