

**PENGARUH PERBANDINGAN MEDIA TANAM TANAH DAN
BAHAN ORGANIK PAKIS SERTA TAKARAN PUPUK
NPKMg TERHADAP PERTUMBUHAN TANAMAN KELAPA
SAWIT (*Elaeis guineensis* Jacq.) PADA PEMBIBITAN UTAMA**

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PENGARUH PERBANDINGAN MEDIA TANAM TANAH DAN BAHAN ORGANIK PAKIS SERTA TAKARAN PUPUK NPKMg TERHADAP PERTUMBUHAN TANAMAN KELAPA SAWIT (*Elaeis guineensis* Jacq) PADA PEMBIBITAN UTAMA

ABSTRAK

Penelitian ini bertujuan untuk mendapatkan interaksi antara bahan organik pakis dengan pupuk NPKMg serta mendapatkan dosis maupun komposisi terbaik dari bahan organik pakis dan pupuk NPKMg terhadap pertumbuhan tanaman kelapa sawit (*Elaeis guineensis* Jacq) pada pembibitan utama (*main nursery*). Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) faktorial dua faktor dengan faktor pertama lima taraf perlakuan, faktor kedua empat taraf perlakuan dan tiga ulangan sehingga terdapat 60 satuan percobaan. Perlakuan yang diberikan untuk faktor pertama yaitu bahan organik pakis sebanyak 10, 20, 30, 40 dan 50%. Sedangkan perlakuan yang diberikan untuk faktor kedua adalah pupuk NPKMg sebanyak 42gram/tanaman, 54gram/tanaman, 66gram/tanaman, dan 78gram/tanaman. Hasil pengamatan di analisis secara statistik dengan uji F dan sebagai uji lanjutan dipakai Duncan New Multiple Range Test (DNMRT) pada taraf 5%. Dari hasil penelitian diperoleh bahwa bahan organik pakis berpengaruh nyata terhadap jumlah daun, diameter batang dan panjang daun tanaman kelapa sawit.

Kata kunci : *Media Tanam, Bahan Organik Pakis, Pupuk NPKMg, Kelapa Sawit*



THE EFFECT OF COMPOSITION BETWEEN SOIL AND FERN ORGANIC MATERIAL AS PLANTING MEDIA AND NPKMG FERTILIZER DOSE ON THE GROWTH OF OIL PALM PLANTS (*Elaeis guineensis* Jacq.) IN MAIN NURSERY

ABSTRACT

The objectives of research were to study the interaction between fern organic materials with NPKMg fertilizer and to determine the best dose and the composition of fern organic materials and NPKMg fertilizer for the growth of oil palm plants (*Elaeis guineensis* Jacq) on the main nursery. This study used a completely randomized design (CRD) in factorial with two-factors. The first factor was composition of soil and fern organic materials with five levels of treatment, then the second factor was NPKMG fertilizer dose with four levels of treatment, each with three replications so that there were 60 experimental units. The treatment given for the first factor, namely fern organic materials as much as 10, 20, 30, 40 and 50%. The treatment given to the second factor was NPKMg fertilizer as much as 42gram/plants, 54gram/plants, 66gram/plants, and 78gram/plants. The data were analysed by F-test and continued by Duncan New Multiple Range Test (DNMRT) at 5% level of confidence. The result showed that the fern organic materials significantly affected the number of leaves, stem diameter and the length of oil palm leaves.

Keywords: *Planting Media, Fern, NPKMg Fertilizers, Oil Palm*

