

**APLIKASI PUPUK ORGANIK CAIR DAUN AZOLLA (*Azolla caroliniana*)
TERHADAP PERTUMBUHAN BIBIT KELAPA SAWIT DI PEMBIBITAN
UTAMA (*Main Nursery*)**

SKRIPSI



FAKULTAS PERTANIAN
KAMPUS III UNIVERSITAS ANDALAS
DHARMASRAYA
2019

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ABSTRAK

Penelitian ini bertujuan untuk mengetahui aplikasi pupuk organik cair daun Azolla yang paling efektif terhadap pertumbuhan bibit kelapa sawit di *main nursery*. Penelitian ini menggunakan metode percobaan dalam Rancangan Acak Lengkap (RAL) dengan 5 taraf perlakuan, dan 3 ulangan, sehingga diperoleh 15 satuan percobaan. Dalam satu petakan percobaan terdiri dari 4 tanaman, sehingga diperoleh 60 tanaman. Adapun taraf percobaan sebagai berikut: 0 ml, 100 ml, 200 ml, 300 ml, dan 400 ml pupuk organik cair daun Azolla. Variabel yang diamati yaitu analisis tanah awal, pertambahan tinggi tanaman, jumlah daun terbentuk, panjang daun, bobot segar tanaman, bobot kering tanaman, dan panjang akar tanaman. Hasil penelitian menunjukkan pupuk organik cair daun Azolla memberi pengaruh yang baik terhadap semua variabel pengamatan bibit kelapa sawit di *main nursery* dengan dosis terbaik yaitu 100 ml/polibag.

Kata Kunci: Azolla, Main Nursery, Kelapa Sawit, Pertumbuhan, Pupuk Organik Cair.



APPLICATION OF LIQUID ORGANIC FERTILIZER FROM AZOLLA (*Azolla caroliniana*) ON THE GROWTH OF OIL PALM SEEDLINGS IN THE MAIN NURSERY

ABSTRACT

The objective of this study was to determine the most effective application of liquid organic fertilizer from azolla leaves on the growth of oil palm seedlings in the main nursery. This study was an experimental method in a completely randomized design (CRD) with 5 treatment levels, and 3 replications, so 15 experimental plots were obtained. Each plot experiment consisted of 4 plants, so the total is 60 plants. The treatment levels were: 0 ml, 100 ml, 200 ml, 300 ml and 400 ml of azolla liquid organic fertilizer. The variables observed were: soil analysis in the beginning, increase of plant height, number of leaves, leaf length, plant fresh weight, plant dry weight, and root length. The results of the study showed that azolla leaves liquid organic fertilizer had effects on all variables observed of oil palm seedling in the main nursery with the best dose of 100 ml/polybag.

Keywords : Azolla, Main Nursery, Oil Palm, Growth, Liquid Organic Fertilizer.

