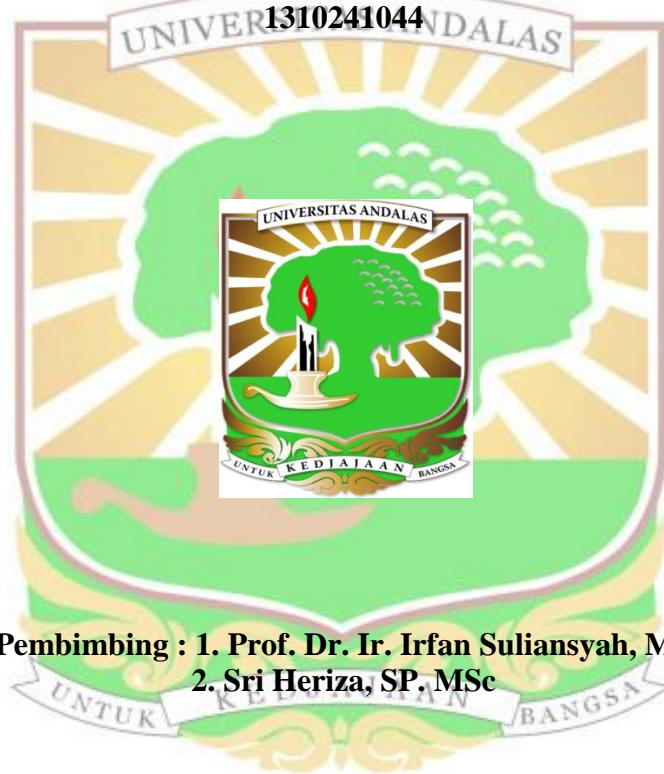


**PENGARUH PEMBERIAN AIR TERHADAP PERTUMBUHAN  
DUA VARIETAS TANAMAN KELAPA SAWIT (*Elaeis  
guineensis* Jacq.) DI PEMBIBITAN UTAMA**

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# **PENGARUH PEMBERIAN AIR TERHADAP PERTUMBUHAN DUA VARIETAS TANAMAN KELAPA SAWIT (*Elaeis guineensis* Jacq.) DI PEMBIBITAN UTAMA**

## **Abstrak**

Penelitian ini telah dilakukan di dalam rumah kaca Balai Pengkajian Tanaman Perkebunan (BPTP) Sumatera Barat, Kecamatan Sitiung, Nagari Gunung Medan, Kabupaten Dharmasraya, mulai bulan Maret sampai bulan Juni 2017. Analisis tanah awal dilakukan di Laboratorium Balai Pengkajian Tanaman Perkebunan (BPTP) Sumatera Barat, Sukarami, Kabupaten Solok dan Laboratorium Universitas Andalas Kampus III Dharmasraya. Penelitian ini bertujuan untuk mengetahui pengaruh, interaksi dua varietas bibit kelapa sawit dan volume pemberian air terhadap pertumbuhan bibit kelapa sawit di pembibitan utama dan mendapatkan takaran volume pemberian air terbaik terhadap pertumbuhan bibit kelapa sawit di pembibitan utama. Rancangan yang digunakan adalah Rancangan Acak Lengkap (RAL) Faktorial yang terdiri dari 2 taraf yaitu dua varietas bibit kelapa sawit dan volume pemberian air, dengan taraf pertama terdiri dari 2 perlakuan yaitu V1 : Varietas Dumpy dan V2 : Simalungun, sedangkan taraf kedua terdiri dari 4 perlakuan yaitu A1 : 1000 ml, A2 : 1500 ml, A3 : 2000 ml, A4 : 2500 ml. Data analisis ragam, jika berbeda nyata dilanjutkan dengan uji DMNRT taraf 5%. Dari hasil penelitian menunjukkan bahwa tidak ada pengaruh interaksi yang nyata antara varietas bibit kelapa sawit dan volume pemberian air dan adanya pengaruh yang nyata antara dua varietas bibit kelapa sawit dan volume pemberian air terhadap pertumbuhan tanaman kelapa sawit. Volume pemberian air dengan takaran 1500 ml yang lebih cocok digunakan untuk penyiraman bibit kelapa sawit dalam bentuk percobaan di dalam rumah kaca dan varietas simalungun lebih tahan terhadap cekaman kekeringan.

Kata kunci : *pembibitan sawit, varietas sawit, air*

# EFFECT OF WATER TREATMENT ON TWO GROWTH VARIETY OF PALM OIL PLANT (*Elaeis guineensis* Jacq.) IN MAIN PUBLICATION

## *Abstract*

*This research has been conducted in the greenhouse of West Sumatera Plantation Assessment Institute (BPTP), Sitiung Sub-district, Nagari Gunung Medan, Dharmasraya Regency, from Mart to June 2017. Initial soil analysis was conducted at Sumatran Plantation Assessment Laboratory (BPTP) Sumatra West, Sukarami, Solok District and the Andalas University Laboratory of Dharmasraya Campus III. This study aims to determine the effect, interaction of two varieties of oil palm seedlings and the volume of water supply to the growth of oil palm seedlings in the main breeding and get the best volume of water supply to the growth of oil palm seedlings in the main breeding. The design used was Completely Random Design (RAL) Factorial consisting of 2 levels ie two varieties of oil palm seedlings and volume of water, with the first level consists of 2 treatments namely V1: Dumpy and V2 varieties: Simalungun, while the second level consists of 4 treatment ie A1: 1000 ml, A2: 1500 ml, A3: 2000 ml, A4: 2500 ml. Variance analysis data, if significantly different is followed by DMNRT test of 5% level. The results showed that there was no significant difference between the two varieties of oil palm seedlings with the volume of water supply and the effect of significantly different between the two varieties of oil palm seedlings with the volume of water to the plant height, the number of leaves, the leaf area, the fresh weight of the top of the plant, fresh weight of plant roots, top dry weight of plant and dry weight of root of oil palm plant. The volume of water supply with a dose of 1500 ml is more suitable for palm seedlings in the form of experiments in the greenhouse.*

*Keywords: palm seedlings, palm varieties, water*