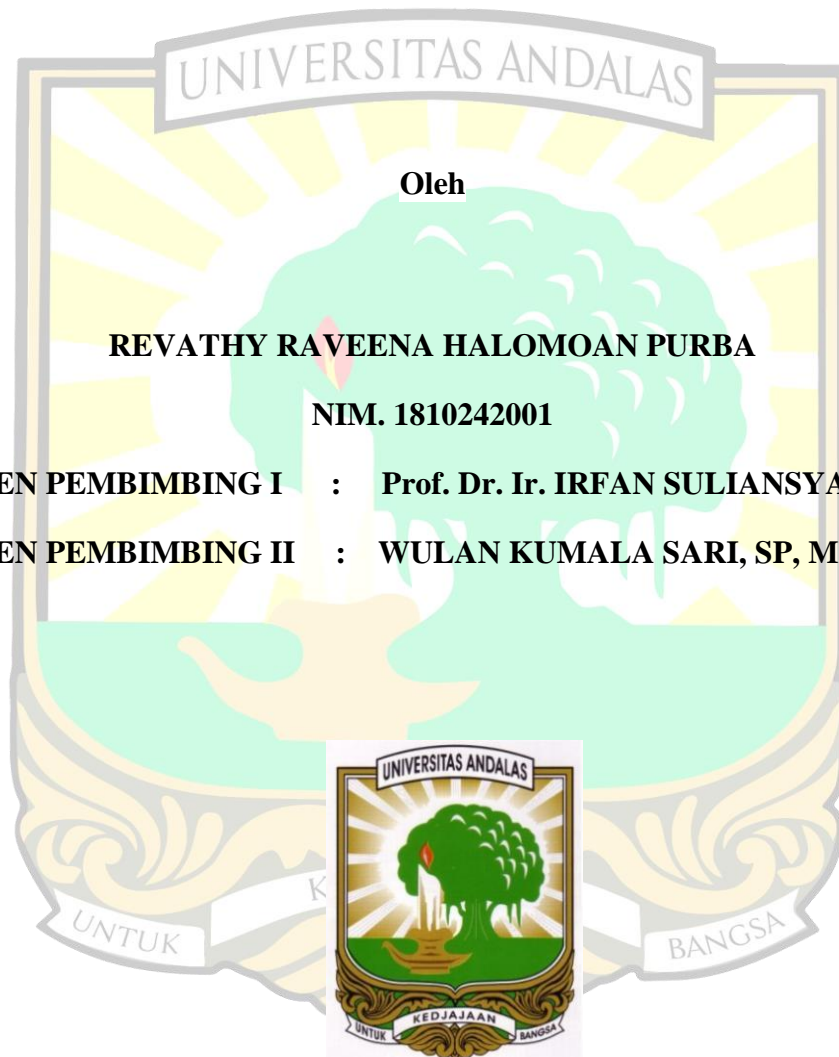


**PENGARUH PEMBERIAN PUPUK ORGANIK CAIR (POC)
KULIT NANAS MELALUI DAUN TERHADAP
PERTUMBUHAN BIBIT KAKAO (*Theobroma cacao* L.)**

SKRIPSI



Oleh

REVATHY RAVEENA HALOMOAN PURBA

NIM. 1810242001

DOSEN PEMBIMBING I : Prof. Dr. Ir. IRFAN SULIANSYAH, MS

DOSEN PEMBIMBING II : WULAN KUMALA SARI, SP, MP, Ph.D

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ABSTRAK

Produksi tanaman kakao yang tinggi sangat bergantung pada kualitas dan kuantitas bibit. Salah satu upaya yang dapat dilakukan untuk menunjang pertumbuhan bibit kakao yaitu dengan meningkatkan ketersediaan unsur hara melalui aplikasi pupuk organik cair kulit nanas. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian pupuk organik cair kulit nanas yang diaplikasikan melalui daun terhadap pertumbuhan bibit kakao dan mendapatkan konsentrasi yang terbaik POC tersebut untuk menunjang pertumbuhan bibit kakao. Penelitian ini disusun menurut Rancangan Acak Lengkap (RAL) yang terdiri dari 5 perlakuan dan 4 ulangan sehingga diperoleh 20 unit percobaan. Setiap unit percobaan terdiri dari 2 tanaman sehingga tanaman sampel seluruhnya adalah 40 tanaman. Konsentrasi POC yang digunakan yaitu 0 ml/l air, 10 ml/l air, 20 ml/l air, 30 ml/l air, dan 40 ml/l air. Peubah yang diamati yaitu tinggi bibit, jumlah daun, panjang daun, diameter batang, dan rasio tajuk akar. Semua data yang diperoleh dianalisis ragam (uji F) pada taraf 5% dan jika berbeda nyata dilanjutkan dengan *Duncan's New Multiple Range Test* (DNMRT) pada taraf 5%. Hasil penelitian menunjukkan bahwa pemberian POC kulit nanas yang diaplikasikan melalui daun memberikan pengaruh terhadap pertumbuhan bibit kakao dengan konsentrasi terbaik yaitu 10 ml/l air yang mampu meningkatkan pertumbuhan tinggi bibit (49,62 cm), jumlah daun (41,00 helai) dan panjang daun (29,50 cm).

Kata kunci: Bibit kakao, kulit nanas, pertumbuhan tanaman, POC, pupuk daun

THE EFFECT OF PINEAPPLE PEELS LIQUID ORGANIC FERTILIZER (LOF) THROUGH THE LEAVES ON THE GROWTH OF CACAO (*Theobroma cacao* L.) SEEDLINGS

ABSTRACT

A high production of cacao plants is highly dependent on the quality and quantity of seedlings. One of the efforts to support the growth of cacao seedlings is to increase the availability of nutrients through the application of pineapple peels liquid organic fertilizer. The objectives of this study were to determine the effect of pineapple peels liquid organic fertilizer applied through the leaves on the growth of cacao seedlings and to obtain the best concentration of its LOF to support the growth of cacao seedlings. This research was arranged according to a Completely Randomized Design (CRD) that consisted of 5 treatments and 4 replications to obtain 20 experimental units. Each experimental unit consisted of 2 plants so that the total sample plants were 40 plants. The LOF concentrations used were 0 ml/l water, 10 ml/l water, 20 ml/l water, 30 ml/l water, and 40 ml/l water. The variables observed were seedling height, number of leaves, leaf length, stem diameter, and shoot root ratio. All data obtained was analyzed of variance (F-test) at the 5% level and if significantly different it was continued by Duncan's New Multiple Range Test (DNMRT) at the 5% level significantly. The results showed that application of LOF pineapple peels applied through the leaves give an effect on the growth of cacao seedlings with the best concentration of 10 ml/l water which was able to increase the growth of cacao seedling height (49,62 cm), number of leaves (41,00 strands) and leaf length (29,50 cm).

Keyword: Cacao seedlings, pineapple peels, plant growth, LOF, foliar fertilizer