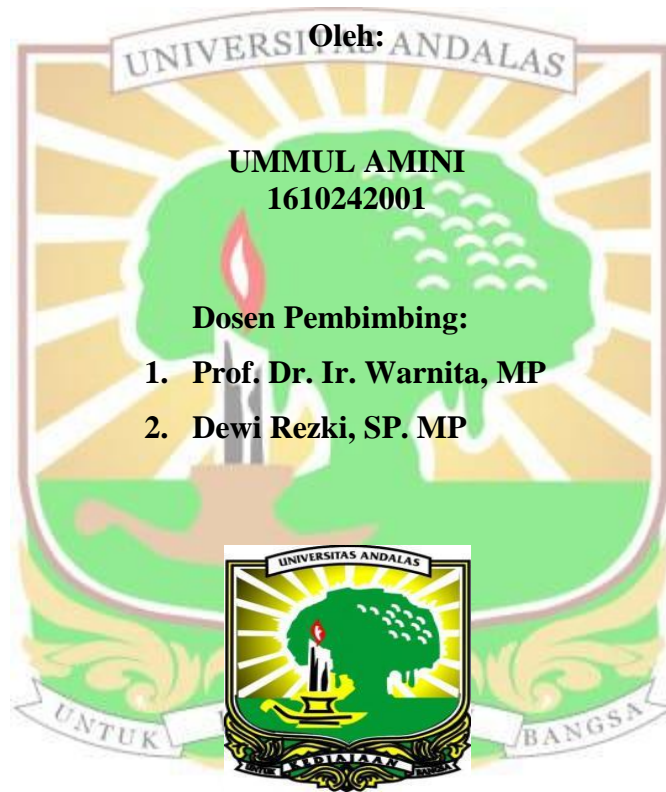


**PENGARUH *BIOCHAR* AMPAS TEBU TERHADAP
PERTUMBUHAN BIBIT KAKAO (*Theobroma cacao* L)**

SKRIPSI



**FAKULTAS PERTANIAN
UNIVERSITAS ANDALAS
DHARMASRAYA
2021**

PENGARUH *BIOCHAR* AMPAS TEBU TERHADAP PERTUMBUHAN BIBIT KAKAO (*Theobroma cacao* L.)

ABSTRAK

Tanaman kakao (*Theobroma cacao* L.) merupakan salah satu komoditas ekspor yang mampu memberikan kontribusi dalam upaya peningkatan devisa Indonesia. Selain kualitas bibit dan pemupukan, media tanam juga memiliki peranan penting untuk mendapatkan bibit kakao yang baik, salah satu upaya yang dapat dilakukan seperti dengan pemberian *biochar* ampas tebu sebagai bahan pembenah tanah. Penelitian ini bertujuan untuk mengetahui pengaruh pemberian *biochar* ampas tebu dan mendapatkan dosis terbaik *biochar* tersebut pada pembibitan tanaman kakao dan telah dilaksanakan di Kebun Percobaan Kampus 3 Unand Dharmasraya dengan menggunakan media tanam berupa tanah Ultisol. Penelitian ini dirancang berdasarkan Rancangan Acak Lengkap (RAL) dengan 5 dosis perlakuan dan 5 ulangan sehingga diperoleh 25 satuan percobaan. Setiap satuan percobaan terdiri atas 3 bibit kakao yang masing-masing ditanam di polybag sehingga total terdapat 75 tanaman. Perlakuan dalam penelitian ini adalah dosis *biochar* yaitu: 0 gram, 75 gram, 150 gram, 225 gram, dan 300 gram *biochar* ampas tebu. Data hasil pengamatan dianalisis dengan uji F pada taraf 5 %, jika uji F hitung lebih besar dari F tabel dilanjutkan dengan Duncan's New Multiple Range Test (DNMRT) pada taraf 5%. Hasil penelitian menunjukkan bahwa *biochar* ampas tebu belum memberikan pengaruh nyata terhadap pertumbuhan bibit kakao, namun dosis 75 g/polybag dapat memperlihatkan pertumbuhan yang lebih baik pada bibit tanaman kakao.

Kata kunci : amelioran, *biochar*, ampas tebu, dosis, pembibitan kakao

THE EFFECT OF BIOCHAR FROM BAGASSE ON THE GROWTH OF CACAO (*Theobroma cacao* L.) SEEDLINGS

Abstract

Cacao (*Theobroma cacao* L.) is one of the export commodities that contribute in efforts to increase Indonesia's foreign exchange. Beside of the seeds quality and fertilization, the planting medium also has an important role to obtain the best cacao seedlings, one such effort is by application bagasse *biochar* as a soil amendment. The objectives of this study were to determine the effect of bagasse *biochar* and to obtain the best dose of it for cacao seedlings, this research was conducted at the experimental field of the 3rd Campus Unand Dharmasraya by using a planting medium is Ultisol. The present research was designed by a Completely Randomized Design (CRD) consisted of 5 treatment of doses and 5 replications in order to obtain 25 experimental units. Each of it consisted of 3 cacao seedlings, which planted in polybags so that there were 75 plants in total. The treatment in this study was the dose of *biochar* namely: 0 gram, 75 gram, 150 gram, 225 gram, and 300 gram of bagasse *biochar*. The observation data were analyzed by F-test at the 5% level significantly, if the Ftest value is greater than F table, the test was continued by Duncan's New Multiple Range Test (DNMRT) at the 5% level. The results showed that the effect of bagasse *biochar* was not significantly different on the growth of cacao seedlings, however a dose of 75 g/polybag was able showed the better growth in cacao seedlings.

Keywords: ameliorant, *biochar*, bagasse, dosage, cacao seedling