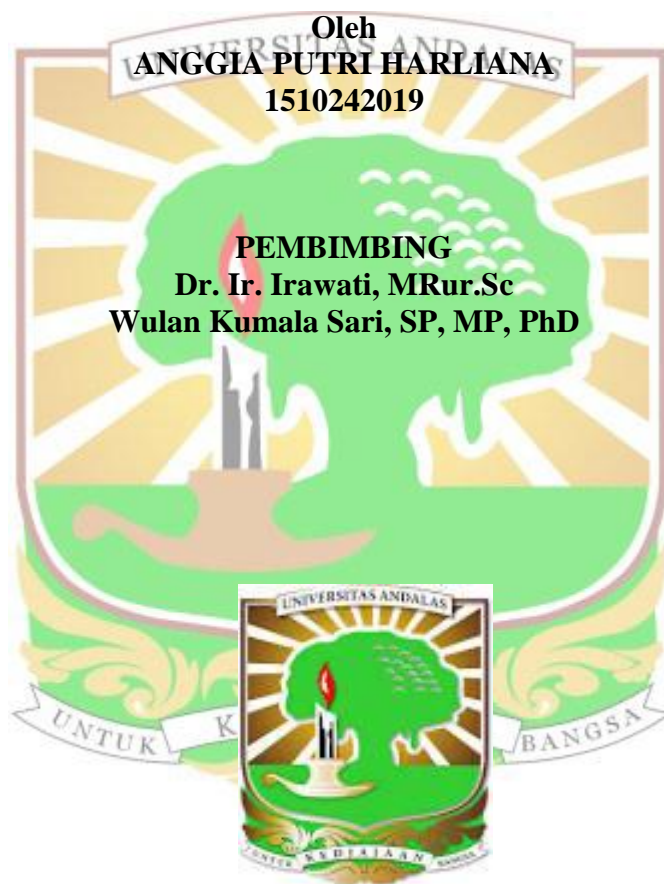


**RESPON PERTUMBUHAN BIBIT KAKAO (*Theobroma cacao*
L.) TERHADAP PEMBERIAN KOMPOS TANDAN KOSONG
KELAPA SAWIT DAN ZEOLIT DI PEMBIBITAN**

SKRIPSI



**FAKULTAS PERTANIAN
KAMPUS III UNIVERSITAS ANDALAS
DHARMASRAYA
2019**

RESPON PERTUMBUHAN BIBIT KAKAO (*Theobroma cacao* L.) TERHADAP KOMPOS TANDAN KOSONG KELAPA SAWIT DAN ZEOLIT DI PEMBIBITAN

ABSTRAK

Penelitian ini mengenai respon pertumbuhan bibit kakao terhadap kompos tandan kosong kelapa sawit dan zeolit yang telah dilakukan di kebun percobaan Kampus 3 UNAND Dharmasraya, sejak bulan Januari sampai Mei 2019. Tujuan penelitian ini diantaranya untuk melihat respon pertumbuhan, interaksi dan dosis bibit kakao (*T. cacao* L.) terhadap pemberian kompos tandan kosong kelapa sawit dan zeolit di pembibitan. Penelitian ini menggunakan Rancangan Acak Lengkap faktorial yang terdiri dari 2 faktor masing-masing memiliki 4 taraf perlakuan dan diulang sebanyak 3 kali. Perlakuannya adalah pemberian kompos tandan kosong kelapa sawit dan zeolit. Dosis kompos tandan kosong kelapa sawit yang digunakan yaitu, 0 g, 150 g, 300 g, dan 450 g. Dan dosis zeolite yang digunakan yaitu, 0 g, 20 g, 40 g, dan 60 g. Variabel yang diamati adalah pertambahan tinggi tanaman, diameter batang, jumlah daun dan rasio tajuk akar. Hasil analisis ragam menunjukkan bahwa perlakuan menunjukkan adanya interaksi antara kedua perlakuan terhadap tinggi tanaman dan pengaruh nyata terhadap diameter batang. Dosis perlakuan dengan pemberian 450 g/polybag kompos tandan kosong dan 20 g/polybag zeolit menunjukkan pertumbuhan terbaik pada setiap variabel.

Kata kunci : bibit, kakao, TKKS, kandungan, zeolit,

GROWTH RESPONSE OF COCOA SEEDLINGS (*Theobroma cacao* L.) TO THE COMPOST OF OIL PALM EMPTY FRUIT BUNCH AND ZEOLITE IN THE NURSERY

ABSTRACT

A research on the growth response of cocoa seedling to the compost oil palm empty fruit bunch and zeolite was conducted in the experimental field of the 3rd Campus UNAND Dharmasraya, from January to May 2019. The purposes of this research were to determine and study the growth response, the interaction effect and single effect, and to get the best dose of oil palm empty fruit bunch compost and zeolite on the growth of cocoa (*T. cacao*. L) in the nursery. The research was an experiment used Factorial Completely Randomized Design consisted of 2 factors (compost of oil palm empty fruit bunch and zeolite), each of them consisted of 4 levels of treatment (dose) and repeated in three times. The doses of oil palm empty fruit bunch compost were : 0 g, 150 g, 300 g, 450 g, and the zeolite doses were : 0 g, 20 g, 40 g, and 60 g. The observed variables were plant height, stem diameter, number of leaves, and shoot root ratio. The result of the variance analysis showed that there was an interaction effect between both treatments on the plant height, and there was a single significant effect on the stem diameter. The application at a dose of 450 g / polybag of oil pal empty fruit bunch compost and 20 g / polybag of zeolite showed the best growth of cocoa seedling in each of the observed variables.

Keywords: amelioran, cacao seedling, compost TKKS, growth, zeolite