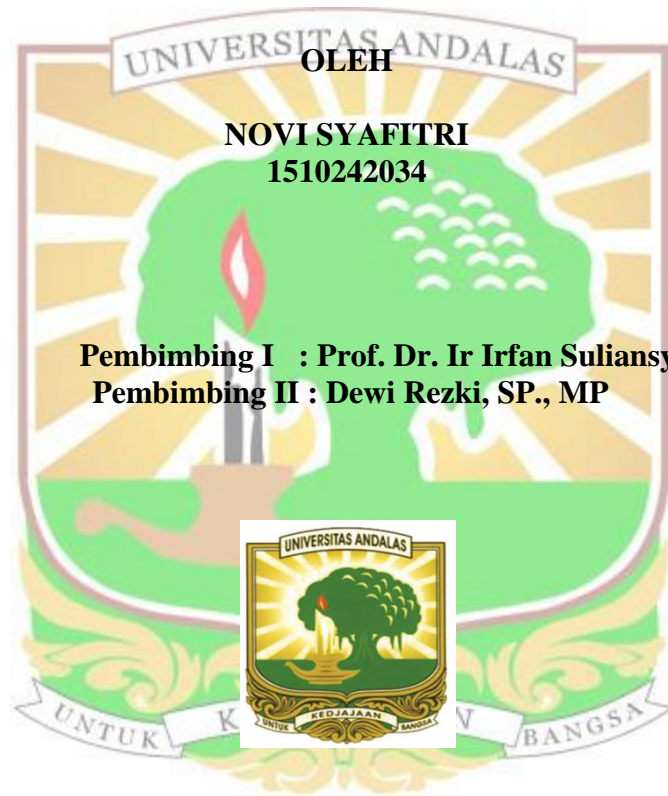


**PENGARUH PEMBERIAN KOMPOS KIRINYUH  
(*Chromolaenaodorata* L.) TERHADAP PERTUMBUHAN  
BIBIT KAKAO (*Theobroma cacao* L.)**

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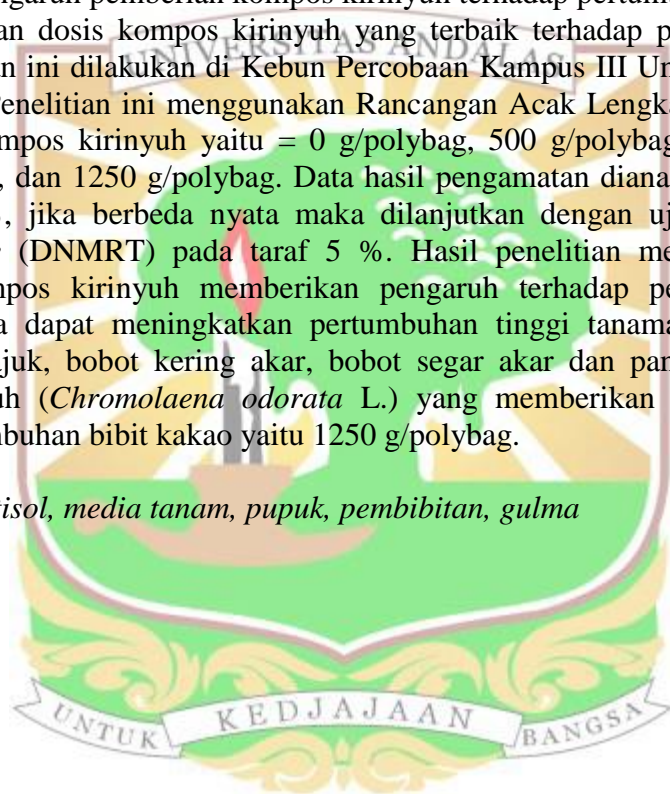
**FAKULTAS PERTANIAN  
KAMPUS III UNIVERSITAS ANDALAS  
DHARMASRAYA  
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# **PENGARUH PEMBERIAN KOMPOS KIRINYUH (*Chromolaenaodorata* L.) TERHADAP PERTUMBUHAN BIBIT KAKAO (*Theobroma cacao* L.)**

## **ABSTRAK**

Kakao merupakan salah satu komoditas perkebunan andalan nasional yang berperan penting dalam perekonomian Indonesia. Penelitian ini bertujuan untuk mempelajari pengaruh pemberian kompos kirinyuh terhadap pertumbuhan bibit kakao dan mendapatkan dosis kompos kirinyuh yang terbaik terhadap pertumbuhan bibit kakao. Penelitian ini dilakukan di Kebun Percobaan Kampus III Universitas Andalas Dharmasraya. Penelitian ini menggunakan Rancangan Acak Lengkap (RAL) dengan 5 perlakuan kompos kirinyuh yaitu = 0 g/polybag, 500 g/polybag, 750 g/polybag, 1000 g/polybag, dan 1250 g/polybag. Data hasil pengamatan dianalisis dengan uji F pada taraf 5 %, jika berbeda nyata maka dilanjutkan dengan uji *Duncan's New Multiple Range* (DNMRT) pada taraf 5 %. Hasil penelitian menunjukkan bahwa pemberian kompos kirinyuh memberikan pengaruh terhadap pertumbuhan bibit kakao, terutama dapat meningkatkan pertumbuhan tinggi tanaman, jumlah daun, bobot kering tajuk, bobot kering akar, bobot segar akar dan panjang akar. Dosis kompos kirinyuh (*Chromolaena odorata* L.) yang memberikan pengaruh terbaik terhadap pertumbuhan bibit kakao yaitu 1250 g/polybag.

*Kata kunci : Ultisol, media tanam, pupuk, pembibitan, gulma*



# **THE EFFECTS OF SIAM WEED COMPOST (*Chromolaena odorata* L.) ON THE GROWTH OF CACAO SEEDLINGS (*Theobroma cacao* L.)**

## **ABSTRACT**

Cacao is one of the primary plantation commodities that plays an important role in the Indonesian economy. The objectives of this research were to study the effects of siam weed compost on the growth of cacao seedlings and to determine the best dose of siam weed compost on the growth of cacao seedlings. This research was conducted at the experimental field 3<sup>rd</sup> Campus, Andalas University in Dharmasraya. The research method was a Completely Randomized Design (CRD) by 5 treatments of siam weed compost, there were = 0 g/polybag, 500 g/polybag, 750 g/polybag, 1000 g/polybag, and 1250 g/polybag. The observation data were analyzed F-test at 5 % level, if significantly different continued by the Duncan's New Multiple Range Test (DNMRT) at 5 % level significantly. The result showed that the application of siam weed compost affected the growth of cacao seedlings, particularly increase the plant height, number of leaves, shoot dry weight, root dry weight, root fresh weight, and the length of the roots. The best dose of siam weed (*Chromolaena odorata* L.) compost on the growth of cacao seedlings was at a dose of 1250 g/polybag.

*Keywords: Ultisol, planting medium, fertilizer, seedling, weeds*

