

***Response of Giving Organic Ethylene Stimulant Concentration of Ambon  
Banana Peel on Rubber Plant Production (Hevea brasiliensis Mull,Arg.) Clone  
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***Guided by Ir. Titien Fatimah M.P.***

***Royhan Landika Marlie***  
*Plantation Cultivation Study Program*  
*Department of Agricultural Production*

**ABSTRACT**

*Rubber (Hevea brasiliensis Mull. Arg.) is one type of plant that is a source of natural rubber production. Natural rubber in rubber plants is produced through special cells located in the phloem tissue called laticifer cells. The less than optimal production of rubber in Indonesia is because most rubber plants are managed by smallholder plantations with low productivity, namely 600-650 kg of dry rubber/ha/year (Rohmah, 2015). Stimulants are a mixture of vegetable oil and ethylene hormone or other active ingredients. Ethylene is a chemical compound contained in latex stimulants that plays a role in increasing production, ethylene hormone works on the permeability of the laticifer cell membrane or latex vessels which makes the flow of rubber latex smooth. The use of stimulants in tapping rubber plants aims to stimulate latex production and extend the latex flow period. Another problem faced by rubber farmers in the field is the unaffordable price of synthetic stimulants. This study used a Non-Factorial Randomized Block Design (RAK) consisting of 5 treatments with 10 replications, namely A0 (no treatment), A1 (200 gr / l), A2 (250 gr / l), A3 (300 gr / l) and A4 (350 gr / l). The research data were analyzed using ANOVA, if the results showed a significant effect, a 5% BNT follow-up test was carried out. The parameters used were Latex Volume (%), Latex dripping time (minutes) and Dry rubber content (%). The results of the study showed that the administration of Organic Ethylene Stimulant Ambon Banana Peel concentration had a significant effect on Latex Volume (ml), Latex dripping time /(minutes). and Dry rubber content (%). The best treatment was A2 with a dose of 200 gr / l.*

*Keywords: Stimulant, Ambon banana peel, rubber*