THE RESPONSE OF UREA AND DOLOMITE ADMINISTRATION TO THE GROWTH OF OIL PALM SEEDS (Elaeis guineensis Jacq) AT PRE NURSERY

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ABSTRACT

Palm oil *(Elaeis guineensis Jacq)* is one of the important commodities in the Indonesian economy. One of the factors that must be considered in the development of oil palm plantations is the availability of high quality seeds in sufficient quantities. One of the obstacles at the time of seeding is the low level of soil fertility, the lack of available elements of N and Mg which make the seeds of the palm oil plant stunted so that growth is stunted. Provision of Urea combined with Dolomite is an alternative to overcome nutrient deficiencies in the soil that hinder the growth of oil palm in Pre Nursery. This study aims to determine the effect of the use of Urea and Dolomite fertilizers on the growth of oil palm (Elaeis guineensis Jacq) seedlings in Pre Nursery nurseries. This research was conducted using a factorial randomized block design (RAK) consisting of 9 treatments, including 3 levels of urea fertilizer consisting of (U0 without Urea, U1= 6g Urea/plant, U2= 7.5g Urea/plant) and 3 the level for applying Dolomite fertilizer consisting of (D0 = no Dolomite, D1 = 30g Dolomite/plant, D2= 45g Dolomite/plant). Each treatment consisted of 3 replications, with a total of 27 units and each unit consisted of 6 samples. Based on the results of the research that has been carried out, it is concluded as follows: Administration of urea dose to oil palm (Elaeis guineensis Jacq) plants in Pre Nursery has a very significant effect on the parameters of leaf length and root length, but not significantly different on the parameters of the number of leaves and plant height, while the dose of Urea and Dolomite to oil palm (Elaeis guineensis Jacq) in Pre Nursery was not significantly different to the parameters of plant height, leaf length, number of leaves and root length so that there was no best interaction in the administration of Urea and Dolomite.

Keywords : *Oil palm, Pre nursery, Urea, Dolomite*