

ABSTRACT

THE EFFECT OF TYPES OF NATURAL GROWTH REGULATORY MATERIALS ON PALA SEED GROWTH (*Myristica fragrans* Hout.)

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Nutmeg is known as a herb that has economic value and multipurpose because every part of the plant can be used in various industries. One of the successes of nutmeg farmers is determined by the factors of good seed use. Generally nutmeg farmers use generative propagation which has the advantages of a strong root system and long life, but the germination time in this way takes a long time. The use of natural ZPT in nutmeg nurseries can accelerate growth. Some natural ZPTs include red onion as a source of auxin, banana weevil as a source of cytokines, and bamboo shoots as a source of giberelin. The purpose of this study was to determine the types of natural growth regulators that have a good effect on the growth of nutmeg seeds (*Myristica fragrans* H.) have been carried out in Kp. Cipulus Rt 05 Rw. 02 Ds. Bugel, Ciawi Subdistrict, Tasikmalaya Regency with an altitude of 600 meters above sea level, which will start from March to July 2018. This study uses a Randomized Block Design (RBD) method. The first factor is a_0 = control (without giving ZPT), a_1 = Shallots, a_2 = Bamboo shoots, a_3 = banana weevils, a_4 = Shallot + Bamboo shoots, a_5 = Shallots + banana weevil, a_6 = Bamboo shoots + banana weevils, a_7 = Shallots + Bamboo shoots + Banana weeds. The results showed that the administration of natural onion ZPT + bamboo shoots + banana weevils affected plant height, and nutmeg plant diameter on days 14, 28, 42, and 56 HST and had a good effect on the number of leaves on days 28, 42, and 56 HST and root loss ratio on day 56 HST.

Keywords: Pala (*Myristica fragrans* Hout.), Types Of Material, Natural ZPT, Nutmeg Plant Seeds.