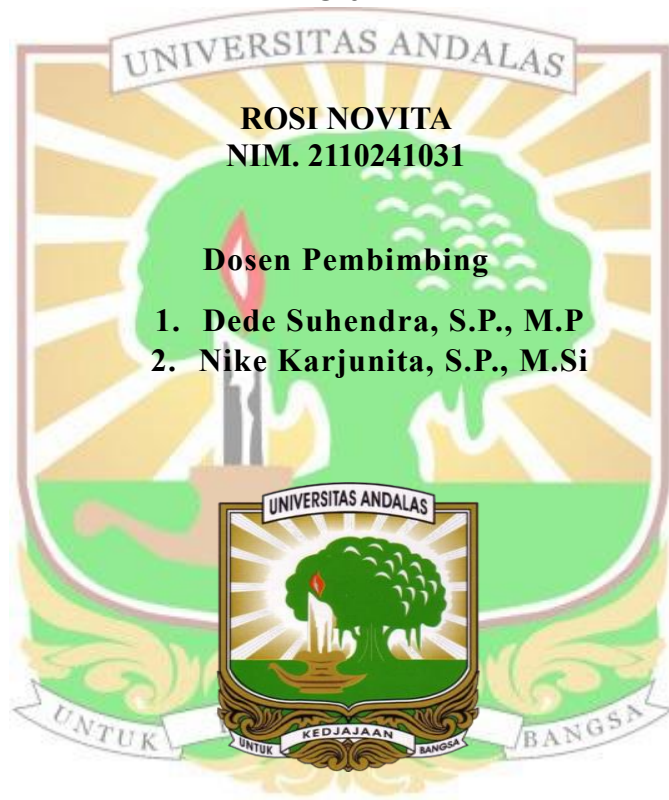


**PENGARUH KOMPOSISI MEDIA TANAM DAN PANJANG
APOKOL TERHADAP PERTUMBUHAN BIBIT TANAMAN
AREN (*Arenga pinnata* Merr.) DI *PRE-NURSERY***

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ABSTRAK

Penelitian tentang pengaruh komposisi media tanam dan panjang apokol terhadap pertumbuhan bibit tanaman aren (*Arenga pinnata* Merr.) di *pre-nursery* bertujuan untuk mengidentifikasi interaksi antara komposisi media tanam dan panjang apokol, serta pengaruh tunggal dari masing-masing faktor terhadap pertumbuhan bibit tanaman aren fase *pre-nursery*. Menggunakan Rancangan Acak Lengkap (RAL) faktorial yang terdiri dari 2 faktor dan diulang 3 kali. Faktor pertama komposisi media tanam terdiri dari 4 taraf yaitu 100% Ultisol, 25% Ultisol : 50% pupuk kandang kambing : 25% arang sekam, 50% Ultisol : 50% pupuk kandang kambing, 50% Ultisol : 50% arang sekam. Faktor kedua adalah panjang apokol 1-3 cm, 3-5 cm, 5-7 cm. Variabel yang diamati yaitu waktu muncul koleoptil, panjang koleoptil, waktu muncul daun pertama, luas daun, tinggi tanaman, diameter batang, panjang akar primer, volume akar, bobot kering tajuk, bobot kering akar, dan rasio tajuk akar. Hasil penelitian menunjukkan interaksi nyata antara komposisi media tanam dan panjang apokol terhadap waktu muncul koleoptil, panjang koleoptil, waktu muncul daun pertama, luas daun, tinggi tanaman, diameter batang, panjang akar primer, volume akar, bobot kering akar, serta rasio tajuk dan akar. Kombinasi media tanam terbaik adalah 25% Ultisol: 50% pupuk kandang kambing: 25% arang sekam dan panjang apokol terbaik adalah 5-7 cm untuk menunjang pertumbuhan bibit tanaman aren fase *pre nursery*.

Kata kunci : Media tanam, Apokol, Pertumbuhan bibit, Aren, *Pre-nursery*

THE EFFECT OF PLANTING MEDIA COMPOSITION AND APOCOL LENGTH ON THE GROWTH OF SUGAR PALM (*Arenga pinnata* Merr.) SEEDS IN *PRE-NURSERY*

ABSTRACT

The study on the effect of planting media composition and apocol length on the growth of sugar palm plant seedlings (*Arenga pinnata* Merr.) in *pre-nursery* aims to identify the interaction between the composition of the planting medium and the length of apocol, as well as the single influence of each factor on the growth of palm seedlings in the *pre-nursery* phase. Using a factorial Completely Randomized Design (CRD) consisting of 2 factors and repeated 3 times. The first factor of the composition of the planting medium consists of 4 levels, 100% Ultisol, 25% Ultisol: 50% goat manure: 25% husk charcoal, 50% Ultisol: 50% goat manure, 50% Ultisol: 50% husk charcoal. The second factor is the length of the apocol 1-3 cm, 3-5 cm, 5-7 cm. The observed variables were the time of emergence of the coleoptile, the length of the coleoptil, the time of the first leaf emergence, the area of the leaves, the height of the plant, the diameter of the stem, the length of the primary roots, the volume of the roots, shoot dry weight, the dry weight of the roots, and the ratio of the root crown. The results showed a real interaction between the composition of the planting medium and the length of the apocol on the time of emergence of the choleoptil, the length of the choleoptil, the time of the first leaf emergence, leaf area, the height of the plant, the diameter of the stem, primary root leght, root volume, root dry weight and the ratio of the root crown. The best combination of planting medium is 25% Ultisol: 50% goat manure: 25% husk charcoal and the best apokol length is 5-7 cm to support the growth of palm plant seedlings in the *pre-nursery* phase.



Keywords: Planting Media, Apocol, Seedling Growth, Sugar Palm, *Pre-nursery*