

# **PENGARUH MEDIA TANAM DENGAN PENAMBAHAN TANAH BAWAH TEGAKAN BAMBU TERHADAP PERTUMBUHAN BIBIT KARET BATANG BAWAH**

## **INTISARI**

Tujuan penelitian untuk mengetahui pengaruh media tanah di bawah tegakan bambu serta mendapatkan komposisi terbaik terhadap pertumbuhan bibit karet batang bawah. Penelitian dilaksanakan di *greenhouse* Fakultas Agroindustri Universitas Mercubuana Yogyakarta Desa Argomulyo, Kecamatan Sedayu, Kabupaten Bantul, dan Laboratorium Agroteknologi Universitas Mercubuana Yogyakarta pada bulan Januari – April 2023. Metode yang digunakan rancangan acak lengkap yang terdiri dari 4 perlakuan 3 ulangan perlakuan yang digunakan yaitu perlakuan M1 1 bagian tanah latosol : 1 bagian pasir : 1 bagian pupuk kandang, M2 1 bagian tanah bawah tegakan bambu : 1 bagian pasir : 1 bagian pupuk kandang, M3 1,5 bagian tanah bawah tegakan bambu : 1 bagian pasir : 0,5 bagian pupuk kandang, M4 2 bagian tanah bawah tegakan bambu : 1 bagian pasir : 0 pupuk kandang. Parameter yang diamati adalah tinggi tanaman (cm), jumlah daun (helai), diameter batang (mm), Panjang akar primer (cm), volume akar (ml), bobot segar (g), dan bobot kering (g). Hasil penelitian menunjukkan bahwa perlakuan komposisi 2 bagian tanah bawah tegakan bambu + 1 bagian pasir + 0 pupuk kandang (M4), memberikan hasil terbaik dalam meningkatkan pertumbuhan bibit karet batang bawah.

Kata kunci: *Tanah bawah tegakan bambu, bibit karet, komposisi, pertumbuhan*

## **THE EFFECT OF PLANTING MEDIA WITH THE ADDITION OF SOIL UNDERSTAND OF BAMBOO STANDS ON THE GROWTH OF RUBBER STEMS SEEDS**

### ***ABSTRACT***

*The aim of this research is to determine the effect of soil media under bamboo stands and to obtain the best composition for the growth of rubber seedlings. The research was conducted in the greenhouse of the Faculty of Agroindustry, Mercubuana University, Yogyakarta, in Argomulyo Village, Sedayu District, Bantul Regency, and in the Agrotechnology Laboratory of Mercubuana University, Yogyakarta, from January to April 2023. The method used was a completely randomized design consisting of 4 treatments with 3 replications. The treatments used were M1: 1 part latosol soil: 1 part sand: 1 part manure, M2: 1 part soil under bamboo stands: 1 part sand: 1 part manure, M3: 1.5 parts soil under bamboo stands: 1 part sand: 0.5 parts manure, M4: 2 parts soil under bamboo stands: 1 part sand: 0 parts manure. The parameters observed were plant height (cm), number of leaves, stem diameter (mm), primary root length (cm), root volume (ml), fresh weight (g), and dry weight (g). The results of the study showed that the treatment with a composition of 2 parts soil under bamboo stands + 1 part sand + 0 parts manure (M4) provided the best results in improving the growth of lower stem rubber seedlings.*

Keywords: Soil under bamboo stands, rubber seedlings, composition, growth