

PENGARUH MULSA ORGANIK SEKAM PADI TERHADAP PERTUMBUHAN CABE JAMU, KEMUKUS DAN LADA DI BAWAH TEGAKAN MERANTI DI CANGKRINGAN SLEMAN

Oleh:

Zulfikar Muhammad*

INTISARI

Pemanfaatan ruang tumbuh di bawah tegakan meranti (*Shorea selanica*) di Cangkringan perlu dioptimalkan untuk meningkatkan produktivitas lahan dan konservasi tanah. Informasi terkait pengaruh mulsa organik sekam padi dan jenis tanaman bersulur yang ditanam di bawah tegakan meranti masih terbatas. Penelitian ini bertujuan untuk mengetahui perbedaan pertumbuhan di antara jenis tanaman tersebut, pengaruh pemberian mulsa organik sekam padi, dan interaksi kedua perlakuan terhadap pertumbuhan tanaman bersulur tersebut di bawah tegakan meranti selama enam bulan di Cangkringan.

Rancangan penelitian menggunakan *Randomized Complete Block Design* (RCBD) dengan dua faktor percobaan, yaitu jenis tanaman bersulur (cabe jamu (C), kemukus (K), lada (L)) dan pemberian mulsa (tanpa mulsa (M0), dengan mulsa sekam padi (M1)). Terdapat 6 kombinasi perlakuan dengan 10 plot sebagai ulangan. Parameter yang diukur adalah pertambahan tinggi, diameter batang, jumlah daun, jumlah *node* dan *internode*.

Pengaruh jenis tanaman berbeda nyata terhadap semua parameter pertumbuhan yang diukur. Tanaman kemukus menunjukkan nilai pertumbuhan yang tertinggi. Pengaruh pemberian mulsa organik sekam padi dan interaksi kedua perlakuan menunjukkan pengaruh yang signifikan terhadap semua parameter yang diukur, kecuali diameter.

Kata kunci: *Shorea selanica*, mulsa organik sekam padi, cabe jamu, kemukus, lada, pertumbuhan.

*Mahasiswa Departemen Silvikultur, Fakultas Kehutanan UGM.

**THE EFFECT OF RICE-HUSK ORGANIC MULCH ON THE GROWTH OF
JAVANESE LONG PEPPER, CUBEK PEPPER, AND BLACK PEPPER UNDER A
Shorea selanica STAND IN CANGKRINGAN SLEMAN**

By: Zulfikar

Muhammad*

ABSTRACT

Optimizing the utilization of growing space under *Shorea selanica* stands in Cangkringan is essential for enhancing land productivity and soil conservation. However, information regarding the effects of rice-husk organic mulch and different climbing plant species in this environment remains limited. This study aimed to evaluate the differences among various climbing plant species, the effect of applying rice-husk organic mulch application, and the interaction of these two treatments on plant growth under *S. selanica* stands over a six-month period in Cangkringan.

The experiment was laid out in a randomized complete block design with two factors: climbing plant species and mulch application. The plant species included Javanese long pepper (C), cubek pepper (K), and black pepper (L), while the mulch treatments consisted of no mulch (M0) and rice-husk mulch (M1). The resulted in six treatment combinations, each replicated ten times. The measured parameters included increments in plant height, stem diameter, number of leaves, number of nodes and internode.

Plant species had a significant effect on all parameters, with the cubek pepper plants exhibiting the most vigorous growth. While the application of rice-husk organic mulch and the interaction between the two treatments significantly affected on all parameters, they had no significant effect on stem diameter.

Keywords: *Shorea selanica*, rice-husk organic mulch, Javanese long pepper, cubek pepper, black pepper, growth.

*Student at The Department Silviculture, Faculty of Forestry, UGM