

PENGARUH KOMPOSISI MEDIA DAN DOSIS PUPUK UREA
TERHADAP PERTUMBUHAN SEMAI NYAWAI
(*Ficus variegata* Blume) DI PERSEMAIAN

INTISARI

Pertumbuhan Nyawai (*Ficus variegata* Blume) pada tanah Mediteran (Alfisol) yang memiliki tekstur lempung, struktur gumpal, konsistensi teguh-sangat teguh dalam keadaan kering dan lekat jika basah dapat ditingkatkan dengan penambahan arang sekam padi dan pemupukan. Penelitian ini bertujuan untuk mengetahui pengaruh komposisi media dan penambahan berbagai dosis pupuk Urea terhadap pertumbuhan Nyawai sampai dengan umur 5 bulan di persemaian.

Penelitian dilakukan di rumah kaca Persemaian Silvikultur Intensif Fakultas Kehutanan Universitas Gadjah Mada, Yogyakarta selama 5 bulan mulai dari bulan April s/d Agustus 2009. Penelitian menggunakan Rancangan Acak Lengkap yang disusun secara faktorial 4 x 4. Perlakuan terdiri dari 4 komposisi media, 4 dosis pupuk urea, tiap kombinasi perlakuan jumlahnya 10 semai sehingga diperlukan 160 semai. Pengukuran parameter meliputi pertambahan tinggi, diameter dan persen hidup.

Hasil penelitian menunjukkan bahwa penambahan arang sekam padi, pemberian pupuk Urea dan interaksi keduanya menunjukkan pengaruh yang nyata terhadap pertambahan tinggi, diameter dan persen hidup Nyawai selama 5 bulan di persemaian. Penambahan arang sekam padi dengan komposisi media (tanah:arang sekam) memberikan pertambahan tinggi 57,56 cm dan pertambahan diameter 1,01 cm. Pemberian pupuk Urea tanpa pupuk Urea atau 0 gram/polybag memberikan pertambahan tinggi 46,91 cm dan pertambahan diameter 0,82 cm. Rata-rata pertambahan tinggi paling baik pada interaksi perlakuan tanah:arang sekam 3:1 dan dosis pupuk Urea (tanpa pupuk Urea atau 0 gram/polybag) dengan tinggi 65,40 cm, sedangkan rata-rata pertambahan diameter paling baik pada tanah:arang sekam dan dosis pupuk Urea (tanpa pupuk Urea atau 0 gram/polybag) dengan diameter 1,14 cm.

Kata kunci : Nyawai, pertumbuhan, pupuk Urea, pupuk anorganik, tanah Mediteran (Alfisol)

THE EFFECT OF MEDIUM COMPOSITIONS AND NITROGEN FERTILIZER
DOSAGES TO THE GROWTH OF NYAWAI (*Ficus variegata* Blume) SEEDLING
IN THE NURSERY

ABSTRACT

Growth of Nyawai on Mediterranean soil (Alfisol) which have the characteristic texture clay, blocky structure, consistency, firm and very firm in the dry and sticky when wet can be enhanced by the addition of rice husk charcoal and fertilizer. This research aimed at knowing the effect of medium composition and the addition of some nitrogen fertilizer dosages to Nyawai growth up to age 5 months in the nursery.

Research was conducted at the Green House of Intensive Silviculture Nursery, Forestry Faculty, Gadjah Mada University Yogyakarta for 5 months started from April to August 2009. The research used Completely Randomized Design (CRD) in factorial arranged 4 x 4. Treatments on this research consists of 4 medium compositions and 4 nitrogen fertilizer dosages which on each combination has 10 seedlings, that was 160 seedlings in total. Parameters measured include increment of height, diameter and plant survival .

Result showed that the addition of rice husk charcoal, Nitrogen fertilizer and then interaction showed significant effect to Nyawai height, diameter and survival rate for 5 months observation in the nursery. The addition of husk charcoal with medium composition (soil : husk charcoal) provide 57,56 cm of height and 1,01 cm of diameter. Nitrogen fertilizer addition treatment (0 grams or without Nitrogen fertilizer) provide 46,91 cm of height and 0,82 cm of diameter. Mean height increment is best at treatments combination soil:husk charcoal 3:1 and Nitrogen fertilizer dosage (0 grams or without Nitrogen fertilizer) with 65,40 cm of height, while Mean diameter increment is best at treatments combination soil:husk charcoal and Nitrogen fertilizer dosage (0 grams or without Nitrogen fertilizer) with 1,14 cm of height.

Keywords : Nyawai, growth, nitrogen fertilizer, inorganic fertilizer, Mediterranean soil