

**PENGARUH AIR KELAPA HIJAU DAN URIN SAPI SERTA  
JUMLAH *NODUS* TERHADAP PENGAKARAN STEK PUCUK  
JATI (*Tectona grandis* L. f.)**

Oleh :  
Kendi Purwanto

**INTISARI**

Tanaman jati (*Tectona grandis* L. f.) adalah salah satu spesies kayu tropis yang memiliki reputasi jenis kayu berkualitas tinggi. Pemiakan vegetatif terutama dengan metode stek ini selain mudah dan efisien, juga mempunyai peranan yang sangat penting bagi pemuliaan pohon khususnya untuk mempertahankan, melindungi dan menggandakan genotip unggul yang sering kali tidak dapat dipertahankan apabila menggunakan pembiakan generatif berupa biji.

Penelitian ini bertujuan untuk mengetahui pengaruh air kelapa hijau, urin sapi serta jumlah *nodus* dan interaksi perlakuan terhadap keberhasilan pengakaran stek pucuk jati. Penelitian ini menggunakan rancangan CRD (*Completely Randomized Design*). Penelitian ini menggunakan 2 macam variabel perlakuan, yaitu variabel dengan 1 dan 2 *nodus*, serta variabel berbagai macam takaran air kelapa hijau, urin sapi dan konsentrasi *Rootone F*. Setiap perlakuan terdiri dari 5 ulangan (replikasi), sehingga total stek pucuk yang ditanam adalah 400 stek pucuk jati. Takaran air kelapa hijau dan urin sapi sebanyak 15 ml, 25 ml dan 35 ml, sedangkan untuk konsentrasi *Rootone F* adalah 100 ppm (R1), 200 ppm (R2), 300 ppm (R3), dan 400 ppm (R4).

Hasil penelitian menunjukkan bahwa ada pengaruh nyata perlakuan terhadap keberhasilan pengakaran stek pucuk jati. Takaran urin sapi 35 ml dan air kelapa hijau 15 ml, berpengaruh paling baik terhadap persen berakar (100%), tetapi untuk jumlah akar terbaik adalah perlakuan *Rootone F* 300 ppm (4,2 helai). Interaksi perlakuan juga memberikan pengaruh nyata terhadap keberhasilan pengakaran stek pucuk jati. Kombinasi perlakuan jumlah *nodus* 1 dengan konsentrasi *Rootone F* 300 ppm berpengaruh paling baik terhadap jumlah akar yaitu 4,2 helai. Kombinasi perlakuan jumlah *nodus* 1 dengan takaran urin sapi 35 ml dan air kelapa hijau 15 ml, berpengaruh paling baik terhadap persen berakar yaitu 100%. Perlakuan jumlah *nodus* menunjukkan tidak beda nyata terhadap keberhasilan pengakaran stek pucuk jati.

Kata kunci: Jati, stek pucuk, urin sapi, air kelapa hijau, jumlah *nodus*.

THE EFFECT OF THE GREEN COCONUT WATER, URINE'S COW AND  
THE NODUS TO ROOTING ABILITY OF SHOOT CUTTING OF TEAK  
( *Tectona Grandis* L. f.)

Oleh :  
Kendi Purwanto

**ABSTRACT**

(*Tectona grandis* L.f.) is one of the most important tropical timber species due to its reputation in high quality timber. The vegetative plant propagation especially with the shoot cutting method besides can be easily and efficient and also can have the very role is necessary for tree glorifying specially for maintain, to protected and cloned pre-eminent genotype is which indefensible frequently if using generative plant propagation in the form of seed.

This research purposed was to know the effect of green coconut water, urine's cow and the nodus and interaction treatment to root of shoot cutting of teak for their success. This research used the method CRD (Completely Randomized Design). In this research used 2 kinds of variable treatment, that was variable by 1 and 2 nodus, and also assorted variable of to the green coconut water, urine's cow and Rootone F of where each very variable consisted of 5 replications. So that totalize the shoot cutting planted was 400. For the measuring of concentration the coconut water and urine's cow counted 15 ml, 25 ml and 35 ml. For the concentration of hormone Rootone F was 100 ppm (R1), 200 ppm (R2), 300 ppm (R3), and 400 ppm (R4).

Result of research indicated that the effect of green coconut water gave the real different effect of root of shoot cutting. Urine's cow concentration 35 ml and the green coconut 15 ml was had an effect on best to root 100%, but to the amount of best root was treatment of Rootone F 300 ppm 4,2 piece of. The interaction treatment gave the real different effect of root of shoot cutting. Combination treatment of the nodus 1 with the concentration of Rootone F 300 ppm was had an effect on best to amount of root that was equal to 4,2 piece of. The interaction treatment gave the real different effect of root of shoot cutting. Combination treatment of the nodus 1 with the concentration urine's cow 35 ml and the green coconut 15 ml was had an effect on best to take root that was equal to 100 %. Different matter shown by treatment of the nodus which did not show the real difference to succes of root of shoot cutting.

Key words : Teak, shoot cutting, urine's cow, green coconut water, nodus