

**HUBUNGAN ANTARA KANDUNGAN N, P, K, C- ORGANIK TANAH
DAN BIOMASA SERESAH DENGAN PERTUMBUHAN
TANAMAN *Shorea leprosula* Miq., UMUR 3 TAHUN
DENGAN SISTEM TEBANG TANAM JALUR
(STUDI KASUS DI HUTAN TANAMAN MERANTI,
PT INHUTANI II, PULAU LAUT, KALIMANTAN SELATAN)**

INTISARI

Shorea leprosula Miq. merupakan salah satu jenis Dipterocarpaceae yang memiliki nilai ekonomi tinggi sebagai bahan baku kayu pertukangan. Pertanaman *S. leprosula* Miq. telah dikembangkan sejak tahun 2003 di PT. INHUTANI II dengan sistem Tebang Tanam Jalur. Dari kegiatan inventarisasi dan pengukuran, terdapat perbedaan pertumbuhan tinggi diantara petak ukur permanen. Penelitian ini bertujuan untuk mengetahui kandungan N total, P tersedia, K tersedia, C-organik tanah, biomasa seresah dan untuk mengetahui korelasi antara rerata pertumbuhan tinggi dan sifat kima tanah dibawah tegakan *S. leprosula* Miq

Penelitian ini menggunakan 2 metode pengambilan data, yaitu, 1). survey penelitian dan pengambilan sampel tanah, seresah, dan inventarisasi tumbuhan penyusun. 2) analisis kandungan N,P,K, dan C-organik tanah di laboratorium. Pengambilan sampel seresah dilakukan pada setiap Petak Ukur Permanen dengan batas kawat kuadratik 50 x 50 cm.

Dari hasil penelitian menunjukkan bahwa kandungan N total antara 0,33%-0,69%, kandungan P tersedia 2,23 ppm-2,33 ppm, kandungan K tersedia 0,22%me- 0,43% me, C-organik tanah 0,93% -1,1% dan biomasa seresah 442,00 kg/ha- 1.030,36 kg/ha. Dari analisis korelasi diketahui bahwa parameter yang menunjukkan korelasi positif (pada 6 lokasi pengamatan) yaitu kandungan C-organik ($r = 0,601$), biomasa seresah ($r = 0,299$), dan K tersedia (0,480). Parameter N total ($r = -0,623$), dan P ($r = -0,238$) berkorelasi negatif (pada 6 lokasi penelitian).

Kata Kunci : *S. leprosula* Miq., pertumbuhan tinggi, kandungan N,P,K dan C-organik tanah

**CORRELATION BETWEEN CONTENT OF N, P, K, AND C-ORGANIC
OF SOIL AND LITTER BIOMASA WITH HEIGHT GROWTH OF
Shorea leprosula Miq. ON 3 YEARS OLD
AT STRIP CUTTING AND PLANTING SYSTEM
(A CASE STUDY AT DIPTEROCARPACEAE FOREST PLANTATION,
PT INHUTANI II, PULAU LAUT, KALIMANTAN SELATAN)**

ABSTARCT

Shorea leprosula Miq. is one of spesies Dipterocarpaceae which has a high economic value for various wood products. It was planted in PT. INHUTANI II since 2003 with Strip Cutting and Planting System. Based on the inventore and monitoring, there is a different of height growth in each permanent plot sampling. This research is aimed at investigating the content of total N, available P, K, C-organic of soil,litter biomasa and knowing the correlation between content of N,P,K and C-organic of soil with height growth *S.leprosula* Miq.

The research used two metods of data collection, i.e.1)survey, to determine the sample of location of the research, sampling of soil and litter, and stocktaking of vegetation complier, 2).laboratory analyses, to analyse the content of N,P,K and C-organic. Sample of litter at every permanent plot sampling was collected by using strand of metal square 50 cm x 50 cm.

The research result shows that the content of total N, available of P, available of K, C-organic of soil, biomass of litter are 0.33%-0,69%; 2,23 ppm-2,33 ppm; 0,22%me- 0,43%me; 0,93% -1,1% and 442,00 kg/ha-1.030,36 kg/ha respectively. Based on the Pearson correlation test result, there is a positive correlation the height of growth of *S.leprosula* Miq. with the content of available K ($r=0,480$). C-organic of soil ($r = 0,601$) and litter biomasa ($r =0,299$) (at six observation area). There is a negative correlation between the height of growth of *S.leprosula* Miq. with the content of total N ($r = -0,623$), available P ($r = -238$).

Key word : *S. leprosula* Miq., height of growth, content of N,P,K and C-organic of soil

