

VARIASI STRUKTUR DAN SIFAT-SIFAT
KAYU BAYUR (*Pterospermum javanicum* Jungh)

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INTISARI

Penelitian variasi sifat-sifat dan struktur kayu bayur (*Pterospermum javanicum* Jungh) mempunyai tujuan mengetahui variasi sifat-sifat kayu pada posisi longitudinal dan radial yaitu sifat-sifat fisika, kimia kayu, dimensi serat, sifat-sifat mekanis kayu.

Bahan baku yang dipergunakan dalam penelitian ini berupa tiga pohon bayur yang tumbuh berdekatan pada halaman seorang petani dari desa Sanggrahan Maguwoharjo Sleman Yogyakarta.

Pengujian sifat-sifat kayu dengan menggunakan pedoman dari L.P.H.H. dan ASTM.

Hasil uji menunjukkan bahwa hanya kandungan air dan panjang serat yang berbeda nyata.

Pada sisi lain berdasarkan variasi struktur dan sifat-sifat yang diteliti, ternyata kayu bayur cocok untuk dipergunakan sebagai bahan baku kayu gergajian, kayu lapis dan finir, namun tidak cocok untuk dipergunakan sebagai bahan baku pulp dan kertas.

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THE VARIATION OF STRUCTURE AND PROPERTIES OF BAYUR (*Pterospermum javanicum* Jungh)

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ABSTRACT

The study of variation of structure and properties of bayur (*Pterospermum javanicum* Jungh) intended

1. To know the variation of the physical properties of wood from butt to top of the bole, and from sapwood to heartwood and from tangential to radial orientation
2. To know the variation of the chemical properties of the wood including holoselulosa, cellulosa, lignin, and extractives content soluble in hot water and alkoholbenzen
3. To know the variation of fiber dimensions
4. To know the variation of mechanical properties of the wood.

Materials for this study were taken from three trees that grew closely to each other in the garden of a farmer in Maguwoharjo, Sleman, Yogyakarta.

Measurement and testing the properties were carried out using L.P.H.H. and ASTM standards.

Results of the study showed that only water content and fiber length had significant difference.

Based on the structure and properties measured, bayur wood appeared to be suitable as raw material for lumber, veneer and plywood, but unsuitable as raw material for lumber, veneer and plywood, but unsuitable as material for pulp and paper.

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