INVENTORE PRODUKSI DAUN DAN RANTING KAYU PUTIH (*Melaleuca leucadendron* Linn.) BERDASARKAN UKURAN DIAMETER BATANG DI BDH PLAYEN, KABUPATEN GUNUNGKIDUL, YOGYAKARTA

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INTISARI

Penelitian ini akan mencoba mengetahui hubungan allometrik antara parameter pertumbuhan dengan produksi daun dan ranting kayu putih dan mengetahui potensi rata-rata daun dan ranting kayu putih di BDH Playen.

Metode dasar yang digunakan adalah *purposive sampling*.

Dari hasil penelitian diperoleh rata-rata jumlah cabang sebanyak 7 buah/pohon dengan berat 116,8 gram/pohon. Jumlah ranting sebanyak 194 buah/pohon dengan berat 219,1 gram/pohon, rata-rata berat daun murni 800,4 gram/pohon, rata-rata berat daun dan ranting 1019,5 kg/pohon, sehingga berat cabang, ranting, dan daun 1136,3 kg/pohon. Persamaan allometrik untuk jumlah cabang, berat cabang, jumlah ranting, berat ranting, berat daun; berat daun dan ranting; dan berat cabang, ranting dan daun berturut-turut adalah: $2.0948(Dbc)^{0.5545}$, $2.0335(Dbc)^{2.0057}$, $68.261(Dbc)^{0.3800}$, $0.8475(Dbc)^{2.2461}$, $2.0983(Dbc)^{2.4058}$, $2.9157(Dbc)^{2.3703}$, dan $4.204(Dbc)^{2.266}$. Dbc merupakan diameter bebas cabang (cm). Potensi rata-rata daun dan ranting kayu putih di BDH Playen pada keadaan normal berdasarkan persamaan $2.9157(Dbc)^{2.3703}$ adalah 951,9 kg/ha.

Kata kunci : Kayu putih, persamaan allometrik, potensi daun dan ranting

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INVENTORE OF LEAF AND TWIG OF CAJUPUT (*Melaleuca leucadendron Linn*.) PRODUCTION BASED ON ITS STEM DIAMETER SIZE IN BDH PLAYEN, GUNUNGKIDUL REGENCY, YOGYAKARTA

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ABSTRACT

The aim of this research is to know many allometric relationship between growth parameters with cajuput leaf and twig production and to know the potency of cajuput leaf production in BDH Playen.

The basic methode used here was purposive sampling.

From the research, was gotten that the average branch in a tree was 7 with 116,8 gram weight/tree. The 194-twig had 219,1 gram weight, the weight of leaf was 800,4 kg/tree, the average weight of leaf and twig was 1019,5 kg/tree, so the weight of branch, twig, and leaf was 1136,3 kg/tree. The allometric equation which was gotten for amount of branch, weight of branch, amount of twig, weight of twig, weight of leaf; weight of leaf and twig; and weight of branch, twig, and leaf were: $2.0948(Dbc)^{0.5545}$, $2.0335(Dbc)^{2.0057}$, $68.261(Dbc)^{0.3800}$, $0.8475(Dbc)^{2.2461}$, $2.0983(Dbc)^{2.4058}$, $2.9157(Dbc)^{2.3703}$, dan $4.204(Dbc)^{2.266}$
Dbc : the diameter of free twig (cm). The average potency of cajuput in BDH Playen on normal condition based on equation $2.9157(Dbc)^{2.3703}$ was 951,9 kg/ha.
Key word : cajuput, allometric equation, potency of leaf and twig cajuput

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