PENYUSUNAN TABEL VOLUME LOPKAL POHON JENIS SONOKELING (*Dalbergia latifolia* Roxb) DI HUTAN RAKYAT KECAMATAN DLINGO KABUPATEN BANTUL

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INTISARI

Sonokeling (*Dalbergia latifolia* Roxb) menjadi salah satu jenis yang dominan di hutan rakyat Kabupaten Bantul. Banyaknya perdagangan kayu dan minimnya *tools* dalam pendugaan volume pohon Sonokeling, maka diperlukan tabel volume lokal untuk memudahkan pengelolaan hutan rakyat oleh masyarakat. Penelitian ini bertujuan untuk menyusun persamaan hubungan keliling dan volume serta menyusun tabel volume lokal pohon Sonokeling di hutan rakyat Kecamatan Dlingo Kabupaten Bantul. Pengambilan sampel dalam penelitian ini menggunakan teknik *purposive sampling.* Data diambil dengan mengukur keliling pohon pada saat berdiri serta diameter dan panjang sortimen batang pada saat rebah. Analisis data dilakukan dengan tahapan Uji Normalitas, Analisis Regresi, dan Uji Validasi. Analisis tersebut dilakukan dengan bantuan *software SPSS 16.0 dan Microsoft Excel*. Berdasarkan hasil data diperoleh persamaan yang paling sesuai adalah model persamaan power dengan bentuk persamaan $V = 0,562*k^{2,498}$ dengan nilai R sebesar 0,866 dan R^2 sebesar 0,750. Berdasarkan uji validasi diperoleh nilai SA sebesar -0,058; SR sebesar 5,327%; RMSE sebesar 4,404; dan Bias sebesar 31,202%. Berdasarkan hasil uji validasi menunjukkan bahwa persamaan tersebut valid dan dapat digunakan untuk menduga volume pohon Sonokeling di Kecamatan Dlingo Kabupaten Bantul.

Kata kunci : Analisis regresi, Sonokeling, tabel volume lokal

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THE LOCAL TREE VOLUME TABLE CONSTRUCTIONS OF SONOKELING (Dalbergia latifolia Roxb) IN PRIVATE FOREST DLINGO DISTRICT BANTUL REGENCY

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ABSTRACT

Sonokeling (Dalbergia latifolia Roxb) is one of the dominant species in the private forests of Bantul regency. Local volume tables are required to facilitate the management of community forest due to the rise of the timber trade and the lack of the tools for estimating the volume of Sonokeling trees. This research aims to determine the equation of the perimeter and volume of the regression and the local volume table of Sonokeling trees in the community forest Dlingo District Bantul Regency. Purposive sampling technique was used in this research to determine the sampling. Data collected by measuring the diameter breast high (dbh) and the length of stem sortimen. Data analysis was carried out with the normality test, regression analysis, and validation tests stages. The analysis conducted by SPSS 16.0 and Microsoft Excel software. Based on the results of the regression analysis, the most appropriate form of equation was the power equation model with the equation form $V = 0{,}562 * k^{2{,}498}$. The R and R^2 values of the equation were 0.866 and 0.750. Based on the result of a validation test the SA value was -0,058; the SR value was 5,327%; the RMSE value was 4,404; and the Bias value was 31,202%. This indicates that the equation was valid and can be used to predict the volume of Sonokeling tree in the Dlingo District Bantul Regency.

Keywords: Regression analysis, Sonokeling, local volume tables

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