

MODELING OF INDIVIDUAL VOLUME PREDICTION FOR *EUCALYPTUS UROGRANDIS* PLANTATION

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- **ABSTRACT:** *The objective of this study is to adjust and select volumetric models in estimating the individual volume in commercial Eucalyptus urograndis. However, the forest inventory was conducted in a forest stand located in the municipality of Niquelândia / Goiás. Ten (10) random plots of 30x20m were released in total area of 10 hectares, which measured the DAP and height of all individuals of the plots. Cubed by the destructive method was performed in five representative trees in each of the 11 diameter classes, totaling 55 trees, and the volume of each tree was obtained by the Newton method. The data from these nine volumetric models were adjusted. Sequentially models were subjected to analysis based on the statistics of fit and accuracy. The volumetric model Takata was slightly higher making it the most suitable for obtaining individual total volume in the study area.*
- **KEYWORDS:** *Forest inventory; volumetry; cubed; volumetric models.*

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