

EUCALYPTUS TREES SAMPLED IN THE CUBED FOR ESTIMATING VOLUMETRIC MODELS

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- **ABSTRACT:** *This study aimed to adjust and validate volumetric models to estimate volume of Eucalyptus urophylla trees, in order to reduce the number of trees scaled in Rio Verde / GO. Were scaled by Smalian, 1,753 trees in different diameter classes. The data were divided into groups: fit, with 87% of the data (1528); validation, with 13% of the data, being here, selected 45 trees in each diameter class. There were six treatments with reduced number of trees between them. In the first three treatments was maintained at diametric distribution trend: T1 adjustments with the total number of individuals (1528); T2 10% of individuals in each diameter class of T1 (153); T3 a third of individuals of each T2 class (48). In the last three treatments were the same number of samples, in each diameter class: T4 33 trees; T5 and T6 8 10 trees. Three models were adjusted for treatment and selected the best to be validated. The estimates were compared to those observed by the t test. The model of Schumacher and Hall was more efficient. The amount of trees was not decisive in the quality of equations. T3 and T6 treatments accounted for accuracy in volumetric estimates of Eucalyptus trees.*
- **KEYWORDS:** *Eucalyptus; volumes, Smalian; model validation.*

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