

POTENCY PRODUCT ESTIMATION  
OF KAYU MANIS BARK (*Cinnamomum burmanni* BL.)  
In Gunung Kerinci District, Kerinci Regency, Jambi Province

ABSTRACT

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Kayu manis is one of significant plants for Indonesian economy. Besides for resulting income for this country, this plant can give occupation field and income resources for farmers. The objective of this research is to discover the factors which influence product of kayu manis bark per tree and the product potency of kayu manis bark in Gunung Kerinci District, Kerinci regency, Jambi Province.

This research was done using two-stage sampling method. Population in this research is Gunung Kerinci District, primary unit is the rurals which grow kayu manis plants and secondary unit is the area of kayu manis plants. The factors which estimated influences toward the product of kayu manis bark are diameter, height, and thickness of bark. These factors were processed with regression analysis, using backward elimination method.

Equation of regression is:

$$Y_1 = -44,382 + 4,085x_1 + 1,049x_2 - 41,598x_3$$

To make it simple and easy in the field, equation model with one and two independent variable is used. Equation model with one independent variable is :

$$Y_2 = -51,151 + 4,264x_1$$

Equation model with two independent variable is :

$$Y_3 = -46,235 + 5,235x_1 - 44,454x_3$$

The calculation result average product of kayu manis bark in Gunung Kerinci District is 1.116,576 kg/ha with average variance ( $Sx^{-2}$ ) 793.463,820 kg, error standart ( $Sx$ ) 890,765 kg and precision (P) 79,77 %.

Keywords : Potency, kayu manis bark

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