



UNIVERSITAS
GADJAH MADA

PENGARUH BONITA, UMUR, KERAPATAN BIDANG DASAR, DAN KETINGGIAN TEMPAT TERHADAP PRODUKSI GETAH *Pinus merkusii* Jungh. et de Vriese PER SATUAN LUAS DI RPH TEMANGGAL BKPH MAGELANG KPH KEDU UTARA

DONI PRABOWO, Dr. Ir. Setyono Sastrosumarto

Universitas Gadjah Mada, 2003 | Diunduh dari <http://etd.repository.ugm.ac.id/>

**PENGARUH BONITA, UMUR, KERAPATAN BIDANG DASAR,
DAN KETINGGIAN TEMPAT TERHADAP PRODUKSI GETAH
Pinus merkusii Jungh. et de Vriese PER SATUAN LUAS**

Oleh :
Doni Prabowo¹
Setyono Sastrosumarto²

INTISARI

Pinus merkusii Jungh. et de Vriese merupakan jenis tanaman yang mampu bertahan hidup dan dapat tumbuh pada tempat tumbuh yang sulit. Hasil ganda seperti dan getah dapat diberikan oleh tanaman tusam, sehingga menjadikan pilihan tepat dalam Hutan Tanaman Industri (HTI). Hasil el to predict the production of resin. The purpose of the research is to find equation model elaborating the relationship between yield and determinant variables. It is expected area the yield of resin per hectare on various site and conditions estimate by using the model.

Data analysis was processed by using backward elimination procedure and extra sum squares principle. The analysis was processed in two ways i.e a model using relative basal area (kbd), relative density number of trees (dkn), and relative density of diameter squares (dkd²) or relative density of basal area (kbd) as variables and resin yield per hectare as response variable.

The result were as followed :

$$\hat{Y}_2 = 656,6753 + 0,5793 \text{ N/Ha} - 1,3711 \text{ T} + 19,8433 \text{ age} - 0,0231 \text{ N/Ha.age} + 0,0722 \text{ kbd.T.}$$

$$\hat{Y}_3 = -125,3127 + 0,5793 \text{ N/Ha} - 0,0486 \text{ T} + 5,7446 \text{ age} - 0,0231 \text{ N/Ha.age} + 0,0722 \text{ kbd.T.}$$

$$\hat{Y}_4 = -140,5005 + 0,5793 \text{ N/Ha} - 54,7724 \text{ kbd} - 0,0183 \text{ T} + 8,0649 \text{ age} - 0,0231 \text{ N/Ha.age} + 0,0722 \text{ kbd.T.}$$

For bonita II, bonita III, and bonita IV respectively, with 85,23 % koefisien of determination (R²).

Key word : production of resin, equation model, large of influence

1. Student of Forestry Faculty of Gadjah Mada University
2. Lecturer of staff at Forestry Faculty of Gadjah Mada University

