

**PENERAPAN METODE MONTE CARLO
UNTUK MENGIDENTIFIKASI PENGARUH STRATEGI
TEBANGAN HUTAN RAKYAT TERHADAP KELESTARIANYA
(Dukuh Mandesan, Kecamatan Semin, Kabupaten Gunung Kidul)**

Oleh :

**Andi France Daryanto¹
Ir. Djoko Suharno Radite, M.S²
Djoko Suprijadi, S.Hut³**

INTISARI

Metode Monte Carlo digunakan untuk mengetahui sebaran dan potensi pohon jati pada berbagai bentuk penggunaan lahan pada areal penelitian serta pengaruh strategi penebangan pemilik hutan rakyat terhadap kelestarian tegakan.

Untuk memprediksi kondisi tegakan di masa mendatang, perlu menganalisa pertumbuhan riap tahunan berjalan (CAI) dengan berbagai pendekatan asumsi serta dinamika tebang, hasil yang diperoleh dari analisis tersebut memproyeksikan grafik prediksi kelestarian dengan nilai kebenaran yang cukup tinggi.

Pengelolaan dengan batas diameter tebang 25cm up yang di sokong oleh penambahan *ingrowth* setelah kegiatan penebangan, menyebabkan tingginya nilai *upgrowth*. Hal tersebut menggambarkan kelestarian stok kayu jati pada lahan milik warga dalam rentang 15 tahun kedepan.

Kata Kunci : dinamika tegakan, simulasi, monte carlo

-
1. Mahasiswa jurusan Manajemen Hutan Fakultas Kehutanan UGM.
 2. Pembimbing Skripsi, I, Fakultas Kehutanan, Universitas Gadjah Mada.
 3. Pembimbing Skripsi II, Fakultas Kehutanan, Universitas Gadjah Mada.

**APPLICATION OF THE MONTE CARLO METHOD
FOR IDENTIFYING THE INFLUENCE OF COMMUNITY
FOREST HARVESTING STRATEGY AND
ITS SUSTAINABILITY
(Hamlet Mandesan, Semin District, Gunung Kidul Regency)**

By :

Andi France Daryanto¹

Ir. Djoko Suharno Radite, M.S²

Djoko Suprijadi, S.Hut³

ABSTRACT

Monte Carlo methods are used to determine the distribution and potential of teak trees in various forms of land use in the study area as well as the effect of logging strategy for sustainable forest owners stand.

To predict the condition of stands in the future, need to analyze the running annual increment (CAI) with various assumptions as well as the dynamics of cutting approach, the results obtained from the analysis of prediction graphs projecting the preservation of the truth value is quite high.

Management with a limit of up to 25cm diameter cut in favor by the addition of ingrowth after logging, resulting in high value upgrowth. It illustrates the preservation of teak stocks on land owned by residents in a span of 15 years

Key Words : stands, simulation, monte carlo

-
1. Student of Forest Management Department Faculty of Forestry UGM.
 2. Lecturer of thesis counselor II, Faculty of Forestry, Gadjah Mada University.
 3. Lecturer of thesis counselor II, Faculty of Forestry, Gadjah Mada University.