

**KECERMATAN SAMPLING PADA INVENTARISASI HUTAN RAKYAT
DUSUN KEPUHAN, DESA ARGOREJO, KECAMATAN SEDAYU,
KABUPATEN BANTUL**

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INTISARI

Inventarisasi pada hutan rakyat perlu dilakukan untuk mengetahui taksiran potensi tegakan sebagai dasar pengelolaan hutan rakyat. Salah satu faktor penting yang harus diketahui dalam inventarisasi hutan rakyat adalah kecermatan sampling. Penelitian ini bertujuan untuk mengetahui karakteristik hutan rakyat dan kecermatan sampling menggunakan metode Random Sampling pada inventarisasi hutan rakyat Dusun Kepuhan.

Penelitian ini dilakukan dengan pengukuran diameter dan tinggi pohon serta pengamatan karakteristik hutan rakyat pada 30 sampel lahan petani hutan rakyat. Karakteristik hutan rakyat Dusun Kepuhan dianalisis berdasarkan keragaman jenis, luas, pola tanam, struktur tegakan, dan volume tegakan per hektar hutan rakyat. Kecermatan sampling dihitung dengan rumus $P = \frac{t S\bar{x}}{\bar{x}}$.

Hasil penelitian menunjukkan bahwa hutan rakyat Dusun Kepuhan memiliki jenis tanaman beragam, luas lahan beragam antara 0,05–2,16 hektar, pola tanam campuran (polikultur), struktur tegakan didominasi kelas diameter <10 cm dan volume tegakan per hektar antar lahan petani hutan rakyat tidak berbeda nyata. Penerapan metode Random Sampling pada pelaksanaan inventarisasi hutan rakyat Dusun Kepuhan dengan intensitas sampling sebesar 16,66% menghasilkan kecermatan sampling sebesar 14,18%. Taksiran potensi volume tegakan seluruh hutan rakyat Dusun Kepuhan seluas 32,24 hektar dengan rata-rata volume per hektar $100,82 \text{ m}^3 \pm (2,045 \times 6,99)$ pada tingkat kepercayaan 95% adalah $2.789,24\text{--}3.710,66 \text{ m}^3$.

Kata Kunci : hutan rakyat, random sampling, kecermatan sampling

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**SAMPLING PRECISION IN PRIVATE FOREST INVENTORY
IN KEPUHAN HAMLET, ARGOREJO VILLAGE,
SEDAYU SUBDISTRICT, BANTUL REGENCY**

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ABSTRACT

Private forest inventory should be implemented to know the estimation of its potency as the basis of private forest management. One of important factor that should be known in forest inventory is sampling precision. This study aimed to know the characteristics of private forest and its sampling precision by using Random Sampling method in forest inventory implementation at Kepuhan Hamlet.

This study was conducted by measuring the diameter and height of trees and observing the characteristics of 30 samples of Kepuhan Hamlet private forest. The characteristics of Kepuhan private forest analyzed based on the variation of species, wide, cropping pattern, stands structure, and volume per hectares of private forest. Sampling precision was estimated with equation of $P = \frac{t S\bar{x}}{\bar{x}}$.

The result of the study showed that the characteristics of Kepuhan Hamlet private forest had various trees species, various wide of private forest was 0,05–2,16 hectares, polycultur cropping pattern, stands structure dominated by < 10 cm trees diameter class, and volume of stands per hectares between private forest farmers were not significant. The implementation of Random Sampling method in Kepuhan Hamlet private forest inventory with 16,66% sampling intensity obtained 14,18% sampling precision. The estimation of volume of stands for whole Kepuhan Hamlet private forest with 32,24 hectares wide area with average of volume per hectares $100,82 \text{ m}^3 \pm (2,045 \times 6,99)$ at 95% confidence level was about 2.789,24–3.710,66 m^3 .

Keywords : private forest, random sampling, sampling precision

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