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ABSTRACT

racteristics and Stocks of Soil Nutrient under Various Land Use Types in a Super Wet Tropical Raiang, West Sumatra (Hermansah, N Sendi, Yulnafatmawita, T Masunaga and T Wakatsuki): In order to cacteristics and stocks of soil nutrient under various land use types in a super wet tropical rain forest in t Sumatera, an investigation of the nutrient characteristics of the several samples of soils under different as cacao plantation (CP), cinnamon plantation (CMP), mixed garden (MG), and primary forest (PF) in tain, Padang, West Sumatra was conducted. The soil nutrient characteristics varied among the differ ypes. The range of nutrient characteristics under four land use type were 4.60 – 7.01% and 0.4 – 0.60% on and total nitrogen and were 9.80 – 24.59, 0.68 – 2.07 and 0.30 – 0.8 cmol (+) kg⁻¹ for Ca, Mg and K, resphighest content of soil nutrient status was found under MG, while the lowest soil nutrient status found at it indicated that the MG with various vegetation types might contribute in enriching the organic matter in s nutrient content such as TN, exchangeable Ca, Mg and K tended to decrease with soil depth of each I. However, the sodium (Na) content in soil tended to increase within the soil depth. These were presume apporation of Na at surface soil within the study area was low. These study results showed that spatient properties of soil were closely related to the land use types in a super wet tropical rain forest region.

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