

ASSESSMENT OF CARBON STOCK AND FLORISTIC DIVERSITY IN COFFEE BASED AGROFORESTRY SYSTEMS IN CENTRAL WESTERN GHATS OF KODAGU IN INDIA

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Abstract: The accumulation of shade tree biomass was 141.81 t/ha in native trees under evergreen as well as under moist deciduous vegetation 134 t/ha. Lowest biomass of 78.47 t/ha was noticed in exotic plantations under evergreen vegetation type. It was highest in native plantations of evergreen type 70.90 t/ha followed by native plantations under moist deciduous vegetation type 61 t/ha. It was least in case of exotic plantations 39.23 t/ha under evergreen conditions. And the total number of tree species found under evergreen vegetation was 94, which was much higher as compared to 61 species found under moist deciduous vegetation.

Keywords: Agroforestry system, Biodiversity, Carbon sequestration, Biosphere

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