

Author	Veran, Emmanuel Abdon T.
Title	Biomass Assessment and Carbon Sequestration Storage Determination of Acacia Mangium (Willd.) Plantation in Montalban, Rizal, Philippines.
Year	2004
Program	Master in Environment and Natural Resources Management

ABSTRACT

The study designed to estimate the stem and root biomass stored in the plantation and at the same time determine C storage of the biomass and in the soil.

The data were obtained from nine randomly selected plots with an area of 5m x 40m for biomass assessment and 1m x1m (within the 5m x 40m plot) plots for SOC analysis. For C analysis, there C pools were identified: the stem, the root, and the SOC. Based on these data, the total biomass accumulated amounts to 199.89 Mg/ha, where the stem biomass and root biomass accounts for 100.16 Mg/ha and 19.83 Mg/ha, respectively. It was also observed that the tree biomass accumulated the highest between age classes 5 and 7.

On the other hand, the carbon content of the stem and root biomass are 45.07 MgC/ha and 8.92 MgC/ha, respectively. This is equivalent to 45.49% and 9% of the total carbon pool. Soil organic carbon accounts for 45.09 MgC/ha which is equivalent to 45.51 of the total C pool.