

Ecological dynamics of *Mangifera* L. (Anacardiaceae) in a Malaysia lowland rain forest.

ABSTRACT

The study was carried out in the 50-ha forest dynamics plot of Pasoh Forest Reserve to obtain a quantitative evaluation of the abundance and diversity of the genus *Mangifera* in the Malaysian lowland rain forest. Twelve species including 1 variety of *Mangifera* accounting to a total of 1,202 stems were identified. *M. quadrifida* var. *quadrifida* obtained the highest count of 275 stems, followed by *M. foetida* with 208 stems, while *M. swintonioides* is the most rare represented by only two trees. The majority (70%) of the population is confined in the swampy area. *M. quadrifida* var. *quadrifida* obtained the highest biomass (0.51 tha⁻¹) while it was *M. griffithii* that recorded the highest volume and basal area of 0.63 m³ha⁻¹ and 0.045 m²ha⁻¹, respectively. The relatively high density observed on small trees (seedlings and saplings) in the plot is likely related to the low density of larger trees.

Keyword: *Mangifera*; Pasoh.