Economic analysis of agroforestry systems in Central Amazonia, Brazil

Pereira, M.M.⁽¹⁾ Macêdo, J.L.V.⁽¹⁾ Rodrigues, F.M⁽¹⁾ and Schroth, G.⁽²⁾

⁽¹⁾ Embrapa Amazônia Ocidental, Amazonas, Brasil, ⁽²⁾ Universität Bayreuth, Bayreuth, Deutschland

In a general way, the biological advantages of the use of the agroforestry systems (AF) were already proven in countless scientific works. Even so, the need is noticed to solidify the economic analyses of those systems. Several authors consider that the main limiting factor for the adoption of AF by farmers, is the lack of studies that check its economic viability evaluating the impact and the profitability of the technology generated in the productive system. The knowledge of those factors is fundamental so that modifications can be made in function of the demands and the customers' needs that will use the technologies and, with that, to evaluate the adoption levels. In this study the financial analysis of four AF was made: a) AF 1, composed of rubber trees, cupuaçu, papaya, peach palm and tropical kudzu; b) AF 2 composed of rubber trees, or cupuaçu, coconut, paricá (*Schizolobium amazonicum*), bean, corn and cassava and; d) AF 4, composed of rubber trees, mahogany, andiroba (*Carapa guianensis*) and paricá. The financial analysis was made with the application of traditional methods project evaluation. The approaches adopted were: a) internal return rates (TIR); b) net present value (VPL); c) ratio cost/benefits (B/C); and d) equivalent periodic benefit (BPE). The economic indicators demonstrated that, with the exception of the AF 4, the systems constitute economically alternatives viable for the farmers of the region.