

EVALUATION METHOD OF THE DUPLICATIONS COEFFICIENT IN THE
RUBBER BREEDING¹

Maria Elizabeth da Costa Vasconcellos²
Paulo de Souza Gonçalves³
João Rodrigues de Paiva³
Afonso Celso Candeira Valois⁴

This study was conducted with the objective to test various repeatability coefficient estimation procedures, as were as to determine the adequate number of production minitests in the selection of superior genotypic plants in rubber tree nursery. There were used three minitests in plants of open polinization of RRIM 600 clonals and the repeatability coefficients were estimated considering the variance analysis techniques and principal components following the methodology presented by Mansour et al.(1981). The equation which relates the three production minitests explained about 87% of the existing variation among them. The repeatability coefficients calculated through the principal components of the correlation matrix were slightly superior to the others obtained through the other processes.

¹ A paper carried out with financial resources provided through a SUDHEVEA/EMBRAPA.

² Eng.^a Agr.^a, M.Sc., em Estatística e Experimentação Agrônômica. EMBRAPA- Centro Nacional de Pesquisa de Seringueira e Dendê-(CNPDS), Caixa Postal 319, CEP 69000-Manaus-AM.

³ Eng.^o Agr.^o, M.Sc., em Genética e Melhoramento de Plantas Pesquisadores do CNPDS/EMBRAPA - Manaus - AM.

⁴ Eng.^o Agr.^o, Dr., Assessor da Diretoria Executiva da EMBRAPA -Caixa Postal nº 04.0315. CEP 70.333 Brasília.