LIST OF TABLES

A. 1.1.1 Comparison of seed types for seed characters and germination percentage 56
A. 1.1.2. Estimates of variability among the seed sources for seed characters and germination 57
A. 1.1.3. Intraclonal variations (CV values) in seed types for seed weight and seed volume. 58
A. 1.1.4. Comparison of seed types for biomass production (dry wt.) and plant height of young seedlings at the age of one month 59
A. 1.1.5. Estimates of variability for biomass production and plant height of young seedlings 59
A. 1.1.6. Comparison of seed sources for establishment and growth of the seedlings 61
A. 1.1.7. Estimates of variability for transplantable germinated seeds, establishment success and buddability in terms of growth 62
A. 1.2.1. Comparison of seed sources for budding success 63
A. 1.2.2. Estimates of variability for the number of plants budded and budding success 64
A. 1.3.1. Comparison of seed sources for the surface morphology of bud union 66
A 1.3.2. Estimates of variability for the surface characters of stock-scion union

A.1.4.1.1. Comparison of stock sources for growth variations of budded stumps, in terms of girth (cm).

A.1.4.1.2. Estimates of variability for growth variations of budded stumps.

A.1.4.2.1. Comparison of the budded stumps raised using different stock sources for sprouting percentage and time taken for bud break.

A.1.4.3.1. Comparison of stock sources for growth variations of polybag plants, in terms of girth and height (cms).

A.1.4.3.2. Estimates of variability for the growth variations of polybag plants.

A.1.4.4.1. Comparison of stock sources for establishment and growth of grafted plants in the field, after one year.

A.1.4.4.2. Estimates of variability due to stock types for establishment and growth of grafted plants in the field, after one year.

A.1.4.5.1. Comparison of stock sources for growth and test-tapping yield of grafted plants in the field, grown over two years in the field.

A.1.4.5.2. Estimates of variability for growth and test tapping yield of grafted plants, after two years.

A.1.4.6.1. Comparison of field plants raised on different stock sources for bark structural characters of stock, scion and graft interface.

A.1.4.7.1. Comparison of grafted plants, raised on varying stock sources, for susceptibility to shoot rot and Oidium diseases.
A.1.4.8.1. Total protein content and peroxidase activity of the plants raised using different stock sources and RRII 105 as scion

A.1.4.8.2. Characteristics of esterase band of plants raised using different stock sources and RRII 105 as scion.

A.2.1a. Comparison of incompatible with compatible plants for quantitative anatomical traits.

A.2.1b. Coefficients of variations and 't' values.

A.2.2.1. Comparison of incompatible with compatible graft types for positional girth variations at budded stump stage.

A.2.3.1. Comparison of growth characters of incompatible and compatible graft types in polybags.

A.2.4.1. Comparison of incompatible and compatible graft types, in the bud wood nursery, for growth characters. a. First year observations

A.2.4.1. Comparison of incompatible and compatible graft types, in the bud wood nursery, for growth characters. b. Second year observations

A.3.1.1. Correlations among seed characters, germination percentage and growth characters at juvenile stage.

A.3.2.1. Correlations of two important bark characters, the bark thickness (X1) and number of latex vessel rows (X6) with respect to the different positions of the bud grafted plants, at the stock portion (P1), stock-scion interface (P2), scion base (P3) and at 50 cm height from the bud union (P4), after two year's growth in the field

A.3.2.2. Correlations of test tap yield with latex vessel rows and bark thickness at scion base
A.3.3.1. Associations among the growth characters at different growth phases, budded stump stage, polybag stage, and field plants grown over one year and two years after planting in the field, and the associations of such characters with test tap yield

A.3.4.1. Regressions of the growth characters and test tap yield of field plants on the growth characters at budded stump stage and polybag stage.

B.1.1.1. Comparison of tapping side with untapped side for bark thickness and bark anatomical characters after one year tapping following 1/2Sd/3 tapping.

B.1.1.2. Bark thickness (mm) on tapping side and untapped side, at different height positions from the bud union, (at six monthly intervals of growth) of the trees under tapping.

B.1.2.1. Positional variations of girth and mean girth increment (over two years) of the trees under tapping.

B.1.3.1. Comparative data on the number of intraxylary phloem and primary xylem points in tapped and untapped mature trees and untapped plants of two year old.

B.1.4.1. Intraclonal variations for the growth and yield factors of mature trees, under tapping.

B.1.4.2. Categorization of TPD affected trees, for different characters recorded before the onset of external symptoms of TPD.

B.2.1. Correlations among growth characters.

B.2.2. Correlations among growth characters, latex volume and dry rubber content.

B. 2.3. Correlations among yield factors.