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SPECIES RELATION STUDIES IN MOIST DECIDUOUS FORESTS OF TRICHUR FOREST DIVISION (KERALA)

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ABSTRACT

Structural and species relation aspects of moist deciduous forest of Trichur division is corpsuled in this report. More than 200 localities in the division were visited and vegetational data of 165 selected localities were analysed for the Structural Studies. The plant communities and their successional status (Maturity Index) in different localities were also worked out. The Maturity Index studies reveal that most of the strands selected are moderatly mature with respect to their successional status. The phytosociological analysis leading to strand similarity, Continuum Index etc. were also done to assess the overall nature of the 'releve'. The Species Distribution Index, the Composite Index like IVI etc., of the vegetation are also incorporated. The quadrat data supplemented will give more useful information regarding the structure and status of the vegetation in general and species in particular. This can be used as a data bank for the area.

The general trend of the species with respect to mutual association has been worked out. Species have been categorized in to different groups based on the nature of associations. Selection of species for the plantation trials have also been indicated from the positively associated group of species. The species are further grouped into 'medium ranked group', 'character species group', 'secondary species group' etc., based on their association trend. A detailed list of species with positive associations have been incorporated.

To supplement the study, vegetation map at the scale of 1:50,000 has also been appended.

INTRODUCTION

Species relation studies is an important aspect of vegetational analysis. In nature, each and every species shows some sort of mutual relation, either positive or negative, ultimately affecting the growth parameters; both individual and the community as a whole. Hence, it is worthwhile to study and note the mutual species relation of such areas where the intention is to raise an artificial vegetation, by way of plantation. Since most of our plantations are raised, and are still being raised at the expense of moist deciduous forests and as most of our plantation species are of deciduous type; it is desirable to know the species relation aspects of moist deciduous areas. As the mutual species correlation is dependant on many phytosociological aspects, a clear phytosociological understanding of the vegetation is a prerequisite for such studies. Hence, in the present study, a substantial portion is devoted to structural analysis.

In the present study, the Trichur Forest Division was selected because, more than 80% of the forest in this division is of moist deciduous type. As the moist deciduous type of vegetation is generally preferred for conversion to plantations; it is worthwhile to have the species relation studies in such areas.

The objective of the study is to work out the extent of mutual species relation in the moist deciduous forest, as observed in the natural conditions, and to acquire information for plantation trials. Thus, the practical utility of the work is to select suitable species for mixed plantation trials. The mixed plantation is of considerable importance at present as far as the productivity is concerned; because it is an accepted fact that a mixed plantation can utilize the environmental factors more economically and efficiently, rather than the monoculture trials.

THE VEGETATION DYNAMICS

The forest environment is a complex of atmospheric, topographic and soil influences often complicated by thehteraction of the forest and its inhabitants, and by competition between individuals of the forest (Braun, 1950). Site is an area considered by its ecological factors with reference to its capacity to produce forest and other vegetation and combination of biotic, climatic, and soil conditions of an area (Society of American Foresters, 1950). According to Braun-Blanquet (1932), site originally meant a place where a tree or other organism lived, but with time its meaning has changed and it refers now to the totality of external factors acting upon an organism or community. Thus, the meaning of site and environment is substantially the same. In a community the species composing it become highly specialized to a very precise set of environmental factors. The species are adapted to narrowly drawn niches and are extraordinarly successful within those niches. Extreme perturbations are in the order of greater magnitude in scale, and may change the gross environment of an area so substantially that conditions are no longer within the range of tolerance of the organisms that formerly occupied the area. This is especially likely in very complex communities, because many of the basic variables of the microhabitat, such as temperature, humidity etc. are functions of physiognomy of the complex community. In other words, the stability of very diverse community is dependent on a minimum of variation in the regional abiotic environmental conditions. These communities may be extremely vulnerable if large changes are made in the regional environmental conditions faster than they can adapt to meet those changed conditions. If the population remains for a long period without interference from outside and if the physical environment also remains constant a steady state of balance might theoratically be achieved. Any sudden change such as the introduction of a new species, produces a state of 'imbalance' and the various forees of population control will set about returning to a new balance, although this may. be only a new variation of the older pattern. In an ecosystem characterised by dynamic equilibrium, an alteration in any part of the environment is met by a response generated by a series of feedback mechanisms. If natural feedback mechanisms were perfect, the fitness of a given ecosystem would always be uniform because the state of the system would never change. But feedback mechanisms in nature are never perfect, and the amount of time-lag between perturbations from equilibrium and reestablishment of equilibrium may be considerable. Even so, all ecosystems tend towards certain natural equilibrium state following perturbations from abiotic or biotic sources with one exception;

that from man (Clapham, 1973). The most important of environmental perturbations at the present time are from man. In fact with the type of perturbations most commonly effected by man, changes in the abiotic environment, especially the soil and water relationship of the ecosystem ,are apt to be more indicative of the long term fitness of the ecosystem than is the diversity of the community.

The problem in determining the environmental fitness is that the entire ecosystem is involved. We commonly consider community diversity as the most direct measure of ecosystem fitness. The study of diversity is the study of the variation in the number of different species under different ecological circumstances. Diversity can be used as a measure of environmental constraints at play. For similar groups of plants and animals, species diversity is higher in tropics and lower in the cold temperature regions. Again. it is higher in summer than in winter in the same area; and it is low in environments where there is some particularly severe limiting factor in the physical environinent, like, extreme dryness, great altitude, acid soils etc. (Williams, 1964). It has, therefore, been suggested that the 'Index of Diversity' can be an indication of the relative importance of the factors that are affecting the population balance as a whole. A low index would suggest the overriding importance of physical difficulties. A high diversity suggests extreem biological competition in otherwise favourable conditions. It is usually sufficient just to consider the number of species as the index of diversity:; Typically diversity increases or has increased, I. towards tropics. 2. through geological time (Simpson, 1969; Stehli *et al.,* 1969). 3. away from toxic pollution (Woodwell, 1970), 4. during ecological succession (Goulden, 1969) and **5.** towards the more stable environment (Sandders. 1968).

The plant community tradition began with concerns about the functional relations between individual plants, the factors between individual plants, the factors determining the distributions of species and the tempera1 sequence of species and developed into a concern with the organisation of landscapes into units. The initial subjective evaluations and grouping were later evaluated with objective and quantitative procedures (Williams, 1964; Greig-Smith, l964; Goodel, 1962; Muller-Dombosis and Ellenberg. 1974)

The vegetation dynamics are closely associated with competition and pattern development. With the exception of the absolute limits of species boundaries, distribution of plants only indirectly depends on physico-chemical enviornmental factors. These factors mostly influence the competitive ability of plants. A species responds differently (physiological performance) to environmental factors in the absence of Competition from what it does under conditions of competitioin (Ellenberg, 1956). Competition is usually defined as a situation where several species

or individuals have similar requirements for materials which are scarce (Bakuzis,l969). Competition first becomes operative at higher densities and on better sites. Hence the study of density aspect is also relevant in such estimation. The term density refers to the average number of plant units per unit area. The determination of density involves several considerations. The first requirement is to decide what constitute a plant unit. This causes little problem with trees, since the natural unit is defined by the trunk of the tree; whereas with multiple stemmed shrubs and perennial grasses the determination of plant unit is different and is more subjective. When a plant unit has been defined, the next aspect is to decide on area unit. Here the plot size is the determining factor. Hence the optimum size of the plot for the particular vegetation type has to be worked out by 'species - area curve method'.

The pattern development is yet another aspect to be considered. 'Pattern' is defined as spatio-temporal distribution of the vegetational subsystem in the ecosystem structure (Bakuzis, 1969). Understanding the pattern requires an understanding of concepts such as diversity and similarity. Usually the number of different species is assumed to be responsible for the entire diversity; and is the taxonomic diversity. Species may differ taxonomically but belong to the same ecological group. A community may consist of representatives of very different ecological groups. The very existence of the community itself lies behind this principle of differential grouping of species; or else the community may change to a character the single species dominant nature. Microsite variability is more or less responsible for such vegetation patterns.

Another fundamental concept in the plant community ecology tradition is that the vegetation in a region, if altered from its natural state, will change with time and return to a state similar to its original undisturbed condition (Miller, 1979). This happens only if the natural feed back mechanisms were perfect in nature but in reality it is not so. Hence once disturbed, the vegetation never attains its original condition.

Vegetation classification has been attempted on the basis of the potential vegetation that would occur in a region without disturbance. Because some disturbance is present, controversy developed about the reality of these stable conditions and the reality of the potential vegetation.

Species association:

With regard to species association, there are two major schools of thought. One of the views is that the physical factors of the environment are the primary determinants of the specific occurrence of a species and that each species responds more or less independently to the environmental gradients. Corresponding to the

environmental gradient, there should be a continuum of change in the species characters; like abundance, frequency etc., depending on the sensibility to the factor that changes along the gradient. This continuum concept is one of the views in species association studies. The other view is based on the phytosociological approaches and is on the assumption that the plant species show a greater of degree of association than could be explained by superimposing independent responses to simple gradient in the physical environment. There is thought to be a sociological order of interaction among species which would permit the hierarchial grouping of plant communities. In the present study continuum values were worked out for the different localities, to know more about the sum total effect of the changing environmental parameters. Similarly attempts were also made to work out the phytosociological aspects of the vegetation for a better understanding. The various communities in different localities and their structural features are recorded. Thus, in the present study proper care has been given to both the 'schools of thoughts', because we know that it is not fully correct to accept any specific 'school'in association sudies. As with most controversies, the final answer probably lies between the two extremes (Meyers and Shelton, 1980). The vegetation composition is undoubtedly controlled by environmental conditions. When a marked gradient does exist, vegetation will be distributed in accordance with the continuurn concept. On the other hand environmental factors operate as complexes and may not form simple gradients. Furthermore, it is well documented that plants alter their environment at least on a microenvironmental scale, thus the species composition of a given area will continuously be changing until a group of species with compatible requirements in terms of total environment, finally becomes established. This is a form of competative interaction between species superimposed on a macro environmental control. It is interesting to note the 'association' of two species when they occur in the same area and of the same trophic level. They are said to be positively associated if the presence of one of the species in any small space or sampling plot makes it more likely that to other will also found; conversely, they are negatively associated if the presence of one of the species makes that of the other less likely (Pielou, 1974), Plot size is one of the determining factor in nagative and positive correlation of species. Kershaw (1973) investigated species association in grasslands and reported a change in correlation from negative to positive with increasing plot size. The changing sign of the correlation coefficients with changing plot size indicates that each plot size measures a selected set of effects and leaves another set of effects unexplained. Here the optimum size of the plot was selected for the specific type of vegetation and the size fixation is mainly based on similar studies in the past. (Sharma et al 1983; Menon and Shah 1981).

STUDY AREA

The study area lies between I0°25' - 10°45'N. lat. and 76°05' - 76°30'E. long The terrain is undulating with two major hills, the Paravattani hill and the Moodal hill. The major type of forest in the area is of the moist deciduous one, even though the semievergreen type is also met with. The semievergreen forest is having a patchy distribution when compared to the more continuous moist deciduous type.

To facilitate the study. vegetation maps of 1:50,000 scale in 20 bits of 5 minutes interval, were prepared (Figs. 1 to 5). The map boundary is as per the Forest Department record, whereas the forest types and extent are based on the field observation. The highly degraded areas were demarcated in the maps, based on the information gathered by field checking and by refering to the aerial photographs (1 : 60,000 scale of the year 1976 and **1** : 50,000 of 1982) at Survey of India, Southern Circle Office, Bangalore. The selected localities include both the degraded as well as fairly good areas. The detailed analysis of the vegetation is mainly based on the quadrat data obtained from the selected localities.

Situation:

The Reserved Forest of the division are spread over the Mukundapuram. Trichur and Talappiliy taluks of the Trichur Revenue Division,

Transportation:

The Cochin-Shoranur railway line runs through the division. Most of the places are well connected by a net work of metalled roads.

Altitude:

The altitudinal range varies betwem 30-900m. The highest peaks in the southern and northern halves of the division arc Ponmudi (928m) and Manippara (52 1m) respectively.

Topography:

The terrain is hilly and rugged with the following major blocks as,

I) the low lying areas on the north - western side where the altitude does not exceed more than 200m

2) the Machad mala ridge running east-west, with Chelakkara-Elnad valley on the north and Vazhani valley on the southern side,

3) the Paravattani hills running again east-west with Tannipadom and Panan-chery valleys on either side,

4) the Anaikal-Mangattu Komban-Valiyavara ridgc running east-west forming the northern flanks of Chimmoney valley and

5) several ridges of the catchment area of Peechi lake running in all directions.

Drainage:

The general direction of the system is of east-west with three major rivers the Kurumali, the Manali and the Wadakkanchery. The two major dams in the area are the Vazhani and Peechi in northern and southern halves of Ithe division respectively. In general the area is well drained and is having no major drainage problem.

Geology, Rock and Soil

The main geological formation is the metamorphic gneiss series. On the lower slopes and on the hills of Paravattani, the rocks tend to become lateritic. There are considerable extent of rocky blanks consisting of sheet rocks in the Machad range. The ground is very often bouldery, chiefly in the deciduous areas.

Soil:

Thc soil is fairly deep blackish sandy loam, often tending to be reddish loam in places mainly on lower slopes of Machad hills. A good accumulation of humus is noted in semievergreen forests.

General nature of vegetation

The two major types of forests observed in the area are: Moist deciduous type and Semievergreen type.

The moist deciduous forest, as the name denote is in leafless condition. especially the upper canopy, during the dry season; i.e., from January to March. An appreciable number of trees, however, come to new leaf before the onset of the rains. They occur both on the lower slopes and on the ridges, on rich loamy soils; and lateretic areas. Annual fire is a common incident in these areas.

The chief species in the top canopy are, *Albizia odorattissima, Alstonia scholaris, Bombax malabaricum, Daibergia latifolia Grewia tiliifolia, Haldina cordifolia, Lagerstroemia microcarpa. Miliusa tomentosa, Pterocarpus marsupium, Tectona grandis, Terminalia crenulata, Terminalia bellirica* and *Xylia xylocarpa.*

The lower canopy consists of species like *Bridelia squamosa, Careya arborea, Cassia fistula, Erythrina stricta, Gmelina arborea, Sterculia urens* etc. *Acacia intsia, Caesalpinia bonducella, Butea superba* etc. are the main climbers in this type of forest.

The semievergreen forest, the intermediate form between evergreen and moist deciduous type, forms a closed high forest containing a mixture of tree species of both evergreen and deciduous types. Bamboos occur to a limited extent. Epiphytes, ferns and climbers are abundant in this type. The general distribution of this type in the division is restricted in valleys and moist pockets.

The top canopy species are *Artocarpus hirsutus, Toona ciliata, Eugenia sp., Holoptelia integrifolia, Hopea parviflora, Lagerstroemia microcarpa, Mangifera indica Polyalthia fragrans, Vateria indica and Vitex altissima.*

The lower canopy consists of species like *Aporusa lindleyana, Baccauria courtallensis, Cinnamomum zeylanicum, Mallotus philippensis etc., Calamus sp., Clerodendrum infortunatum, Limonia acidissima, Strobilanthus* sp., etc. are the main undergrowth species and *Dioscorea sp., Butea superba* etc., are the common climbers observed.

METHODOLOGY

The phytosociological data collection of the forest is an important part of the present study. Because the entire study is based on such field information, utmost care was taken in adopting methods. Here 10x 10m quadrats were laid out keeping a distance of approximately 2 km. for field data collection. The size of the quadrat was standardized as the optimum one for the specific type of vegetation (Sharma et al., 1983 and Menon and Shah, 1981). The quadrat data collected during the period 1982-1985 were analysed for the structural aspects of the vegetation. For the convenience of the field collection 60 different routes were selected (see route charts 1-60) and 165 localities were thoroughly investigated. The route selection was in such a way that almost the entire Trichur forest division was covered with 60 field trips. Out of the 165 localities (Table 166), 20 localities possess semievergreen type of vegetation. They were also included in the phytosociological analysis, since the influence of such stands to the adjoining moist deciduous one, cannot be overlooked. But in the association - analysis only 30 selected moist deciduous stands were included, to lesson the heavy computation involved otherwise.

The girth of trees at breast level (GBH) was noted for basal area calculation. The density (D), percentage frequency (%F), abundance (Ab), relative frequency (RF), relative density (RD), basal area (BA), relative basal area (RBA), important value index (IVI) etc., of each species were calculated, from the quadrat data as per the following formula (Phillips, 1959):

$$\text{Density (D)} = \frac{\text{Total no. of individuals}}{\text{Total no. of quadrat studied}}$$

$$\text{Abundance (Ab)} = \frac{\text{Total no. of individuals}}{\text{No. of quadrats of occurrence}}$$

$$\text{\% Frequency (\%F)} = \frac{\text{No of quadrats of occurrence}}{\text{Total no. of quadrats studied}} \times 100$$

$$\text{Relative density (RD)} = \frac{\text{No. of individuals of the species}}{\text{No. of individuals of all species}} \times 100$$

$$\text{Relative frequency (RF)} = \frac{\text{No. of occurrence of the species in the quadrat}}{\text{No. of occurrence of all species}} \times 100$$

$$\text{Relative basal area (RBA)} = \frac{\text{Basal area of the species}}{\text{Basal area of all species}} \times 100$$

Important value index (IVI) = Relative density + Relative frequency + Relative basal area.

The distribution of species is one of the important aspect of vegetation study which has attracted the attention of many ecologists (Cole, 1949; Fracker and Brischle, 1944; Witford, 1948; Ashby, 1948). Whitford (I 948) suggested the abundance/frequency ratio as a measure of contagiousness. As a general rule the high frequency and low abundance indicates regular distribution and the converse indicates contagious distribution. Here an attempt is also made to work out the Ab/F ratio of the species [Table 1 to 165). Since the pattern of species distribution is one of the controlling factor in species association such an information wil! certainly lead to more satisfactory explanation.

A great deal of work has been done in India and abroad regarding the successional status of the forest ecosystem (Puri and Jain, 1961). To know more about the structural aspects of the vegetation especially the successional status of the vegetation, the maturity index (MI) value (Pichi-Sermolli, 1948), far each locality were worked out (Tables 1-165), using the formula as,

$$\text{Maturity index (MI)} = \frac{\text{Total \% F of a locality}}{\text{Total no. of species present}}$$

Such a study is based on the principle that when the succession has entered into a final stage, the total number of species will reduce, and those which are adapted to the changing environment alone will survive and multiply to form the dominant community. That is, the higher the frequency percentage of the species and the smaller the number of sporadic species, the more mature is the commiinity (Phillips, 1934).

The Continuum Index Value for each locality was also worked out to evaluate the environmental influence over the vegetation. This is based on the idea of 'continuum of yegetation' developed by Curtis and McIntosh (1951). According to him no two stands are' sufficiently similar in associations when correlated with environmental factors. It thus implies a continuous variation of vegetation and cannot be classified into discrete entities (Kershaw, 1973).

For the calculation of Continuum Index (CI). each species in a locality was assigned a climax adaptation number based on IVI, ranging from 1-10 for species at both ends (Table 1-165). A high adaptation number means better adaptation to all environmental conditions present in the terminal stands (Muller-Dombois and Ellenberg; 1974). Toassess the position of a single stand IVI of different species present in the stand were weighted against their adaptation numbers and the total val ue was considered as C1 value for the locality.

To assess the overall similarity of different localities with respect to species diversity, the 'index of similarity' (IS) were worked out for 30 selected localities. In this study the stands are limited to 30, because even then the possible combinations are more (here it is 435, i.e. n x (n-1)/2 combinations where 'n' is the total number selected), leading to computational problems. The study is based on the 'community coefficient concept' of Jaccard (1912) and is centered on the presence - absence relationship between the number of species common to two areas and total number of species. Thus, it expresses the ratio of the common species to all species found in the vegetation (Muller-Dombois and Ellenberg, 1974). Here we used a modified version of Jaccard's formula, by Sorenson (1948) as

$$IS = \frac{C}{\frac{1}{2}(A + B)} \times 100 \quad \text{or} \quad \frac{2C}{(A + B)} \times 100$$

Where C = number of common species in two 'releves', 'A' = total number of species in stand A, and B = total number of species in stand B. The values were tabulated (Table 168).

The species association and their relationship is an important aspect of community structure. The spatial pattern of vegetation has attracted much attention (Skellem, 1952; More, 1954; Clark and Evans, 1954; Kershaw, 1957; Thomson, 1958; Greig-Smith and Chadwick, 1965; Beals, 1968; Mead, 1974; Chessel *et al.*, 1975; Debouzie *et al.*, 1975; Moueza, 1976; Yeaten *et al.*, 1977). The determination of correlation coefficient is a useful method of setting up association from the analysis of stands (Cole, 1949; Greig-Smith, 1952). Kershaw (1973) is of the openion that it merely gives an information of species.

It is calculated as per the formula of De Vries (1954), which is read as,

Correlation coefficient (r) = Sin (T X 90");

where $T = \frac{AD-BC}{\sqrt{PQRS}}$ where

A = No. of times 'x' and 'y' (two species) occur together,
B = P – A = No. of times 'y' occurs without 'x',
C = R – A = No. of times 'x' occurs without 'y',
D = No. of times neither 'x' nor 'y' occurs.
P = A+B = No. of times 'y' occurs in total,
Q = C+D = I N – P, where N = Total number of samples,
R = A+C = No. of times 'x' occurs in total, and
S = N – R = B+D.

In the present study 45 moist deciduous species (Table 170) were included for the association analysis out of 300 quadrats. The correlation coefficient values were tabulated (Table 171).

Based on 'character species', highly related species and negatively correlated species were also prepared (Table 172) aiming to the practical utility of the project.

RESULTS

The present study gives a lot of valuable information regarding the structural aspects of Trichur Forest Division. Since some fundamental information of vegetation structure are indispensable for the species studies, the first part of the work dealing with vegetation analysis is a must, and some of the salient observations based on the study are mentioned below. The species composition of the dominant communities in Trichur Forests are interesting. *Xylia xylocarpa, Dillenia pentagyna, Tectona grandis, Terminalia crenulata, Grewia tiliifolia* are the chief among them often forming dominant communities. Species like *Bombax malabaricum, Wrightia tinctoria, Mitragyna parvifolia* etc. are also forming dominant communities in selected localities. A more detailed description is given in table 166.

A general assessment of the localities with respect to its present status can be done by going through the different index values like Maturity Index, Continuum Index, Similarity Index, Important Value Index etc. The Maturity Index studies reveal that most of the localities selected are moderately mature wirh respect to its successional status. The Continuum Index values range from 1500-2000 mostly, depicting a uniform environmental thrust over the vegetation with regard to its quantitative growth. But, there are some localities, with high influence of biotic impact, and such influence are reflected in their corresponding Continuum Index values.

The strand comparison based on the Similarity Index (IS) is interesting. The spectral range of the similarity is wide and in some cases (Strand 1 vs. 8, 12, 15, 27; Strand 2 vs. 12, 16, 27; Strand 8 vs, 9, 12, 20. 25, 27; Strand **11** vs. 12, Strand 12 vs. 18, 19, 20, 25, 27, 29; Strand 15 vs, 20, 25; Strand I8 vs. 27; Strand 20 vs. 13, 23, 25, 26, 27, 30; Strand 21 vs. 23, 25; Strand 23 vs. 24, 26, 30; Strand 25 vs. 27, 29; Strand 26 vs. 30; Strand 27 vs. 29) the strand similarity is more than 60%. This will give a clear picture of the species uniqueness in different localities. Similarly, the strand diversity is highly striking in some other localities (see table 168 for low IS values). The study of the percentage IS value of Trichur division, (Table 169) gives us a broad idea of the similarity class in the area. The spectrum reveals that Class I11 (IS range 41-60%) is more in the area: Class II(21-40% IS) immediately follows; indicating an overall 40-60% similarity among different localities. There are some localities with very low IS values (3.2% of the combinations) and some with very high IS values (8.3% of the total combinations). The highest IS class (Class V-80 to 100% similar) is not recorded in the area; indicating that any two strands in the area are not exactly similar with respect to its species composition.

A critical study of the Ab/F ratio will give a clear picture of the species distribution trend, especially of the nature; -regular, contagious, restricted etc., in the area.

The quadrat data supplemented will give more useful informations regarding the trend, structure and status of the vegetation in the area. The second major part of the study is the species relation aspects of the Trichur Forests. The observations in this respects are also noted down.

The general trend of the moist deciduous species of Trichur Forest Division, with respect to mutual association is interesting. Out of the 45 species studied (see Table 170 for species), the trend of mutual positive associations are as follows:

1. *Acacia intsia* is positively associated with *Bombax malabaricum, Boswellia serrata, Bridelia squamosa, Butea superba, Cassia fistula, Cordia dichotoma, Dalbergia latifolia, Dillenia pentagyna, Erythrina stricta, Ficus benghalensis, Ficus hispida, Gardenia turgida, Garuga pinnata, Grewia tiliifolia. Lagerstroemia microcarpa, Meyna laxiflora, Mitragyna parvifolia, Morinda tinctoria, Pterocarpus marsupium, Randia dumetorum, Spondius mangifera, Sterculia urens, Stereaspermum colais, Tetrameles nudiflora, Trewia nudiflora* and *Zizyphus xylopyrus.*

2. *Haldina cordijolia* is positively associated with *Albizia odoratissima, Butea superba, Dillenia pentagyna, Emblica officinalis, Gardenia turgida. Garuga pinnata, Lagerstroemia microcarpa, Macaranga peltata, Meyna laxiflora, Piliostigma malabaricum, Sterculia ureans, Tectona grandis, Terminalia bellirica, Tetrameles nudiflora* and *Xylia xylocarpa.*

3. *Albizia odoratt issima* is positively associated with *Haldina cordifolia, Bombax malabaricum, Bridelia squamosa, Butea superba, Careya arborea, Cordia dichotoma, Dalbergia latifolia, Dillenia pentagyna, Emblica officinalis, Gardenia turgida, Lagerstroemia microcarpa, Limonia acidissima, Macaranga peltata, Melia composita, Mitragyna parvifolia, Pterocarpus marsupium, Tetrameles nudiflora,* and *Zizyphus xylopyrus.*

4. *Bambusa arundinacea* is positively associated with *Bombax malabaricum, Bridelia squamosa, Butea superba, Careya arborea, Cassia fistula, Gardenia turgida, Holarrhena antidysenterica, Limonia acidissima, Macaranga peltata. Meyna laxiflora, Mitragyna parvifolia, Lannea coromandelica, Pterocarpus marsupium, Schleichera oleosa, Tectona grandis, Terminalia bellerica, Terminalia crenulata, Tetrameles nudiflora, Xylia xylocarpa* and *Zizyphus xylopyrus.*

5. *Bombax malabaricum* is positively associated with *Acacia intsia, Albizia odoratissima, Bambusa arundinacea, Cassia fistula, Erythrina stricta, Ficus benghalensis, Ficus hispida, Grewia tiliifolia, Melia composita, Meyna laxiflora, Mitragyna parvifolia, Piliostigma malabaricum, Schleichera oleosa, Tectona grandis, Wrightia tinctoria* and *Zizyphus xylopyrus.*

6. *Boswellia serrata* is positively associated with *Acacia intsia, Butea superba, Dillenia pentagyna, Randia dumetorum, Sterculia urens, Tectona grandis, Terminalia crenulata, Terminalia bellirica, Wrightia tinctoria* and *Zizyphus xylopyrus.*

7. *Bridelia squamosa* is positively associated with *Acacia intsia, Albizia odoratissima, Bambusa arundinacea, Butea superba, Careya arborea, Dalbergia latifolia, Emblica officinalis, Gardenia turgida, Garuga pinnata, Macaranga peltata, Meyna laxiflora, Piliostigma malabaricum, Pterocarpus marsupium, Sterculia urens, Wrightia tinctoria* and *Xylia xylocarpa.*

8. *Butea superba* is positively associated with *Acacia intsia, Haldina cordifolia, Albizia odoratissima, Bambusa arundinacea, Bridelia squamosa, Cassia fistula, Cordia dichotoma, Ernblica officinaiis, Ficus benghalensis, Ficus hispida, Garuga pinnnta, Gmelina arborea, Holarrhena antidysenterica, Lagerstroemia microcarpa, Limonia acidissima, Macaranga peltata, Meyna laxiflora, Mitragyna parvifolia, Randia dumetorum, Schleichera oleosa, Tectona grandis* and *Wrightia tinctoria.*

9. *Careya arborea is* positively associated with *Albizia odoratissima, Bambusa arundinacea, Bridelia squamosa, Dalbergia latifolia, Dillenia pentagyna, Emblica officinalis, Gardenia turgida, Garuga pinnata, Grewia tiliifolia, Holarrhena antidyscnterica, Macaranga peltata, Meyna laxiflora, Mitragyna parvifolia, Piliostigma malabaricum, Spondius mangifera, Sterculia urens, Terminalia crenulnta, Tetrameles nudiflora, Wrightia tinctoria* and *Xylia xylocarpa.*

10. *Cassia fistula* is positively associated with *Acacia intsia, Bambusa arundinacea, Bombux malabaricurn, Butea superba, Dalbergia latfolia, Emblica officinalis, Ficus hispida, Gardenia turgida, Garuga pinnata, Holarrhena antidysenterica, Meyna Iaxiflora, Lannea coromandelica, Piliostigma malabaricum, Tectona grandis, Terminalia bellirica, Terminalia crenulata* and *Zizyphus xylopyrus.*

11. *Cordia dichotoma* is positively associated with *Acacia intsia, Albizia odoratissima, Butea superba, Dillenia pentagyna, Ficus hispida, Holarrhena antidysenterica, Limonia acidissima, Lannea coromandelica, Sterculia urens, Tetrameles nudiflora* and *Wrightia tinctoria*

12. *Dalbergia latifolia* is positively associated with *Acacia intsia, Albizia odoratissima, Bridelia squamosa, Careya arborea, Cassia fistula, Garuga pinnata, Limonia acidissima, Macaranga peltata, Melia composita, Mitragyna parvifolia, Pterocarpus marsupium, Schleichera oleosa, Sterculia urens Terrameles nudiflora and Xylia xylocarpa*

13. *Dillenia pentagyna* is positively associated with *Acacia intsia, Haldina cordifolia, Albizia odorarissima, Boswellia serrata, Careya arborea, Cordia dichotoma, Erythrina stricta, Gardenia turgida, Garuga pinnata, Holarrhena antidysenterica, Largerstroemia microcarpa, Macaranga peltata, Morinda tinctoria, Piliostigma malabaricum, Randia dumetorum, Spondius mangifera, Stereospermum colais and Tetrameles nudiflora.*

14. *Emblica officinalis* is positively associated with *Haldina cordifolia, Albizia odoratissima, Bridelia squamosa, Butea superba, Careya arborea, Cassia fistula, Grewia tiliifolia, Holarrhena antidysenterica, Meyna laxiflora, Mitragyna parvifolia, Lannea coromandelica, Pterocarpus marsupium, Sterculia urens, Tectona grandis, Terminalia bellerica Terminalia crenulata, Tetrameles nudiflora and Xylia xylocarpa.*

15. *Erythrina stricta* is positively associated with *Acacia intsia, Bombax malabaricum, Garuga pinnata, Grewia tiliifolia, Lagerstroemia microcarpa, Lannea coromandelica, Tectona grandis, Terminalia crrnulata and Wrightia tinctoria.*

16. *Ficus benghalensis* is positively associated with *Acacia intsia, Bombax malabaricum, Butea superba, Holarrhena antidysenterica, Meyna laxiflora, Lannea coromandelica, Pterocarpus marsupium, Terminalia bellirica, Wrightia tinctoria, and Xylia xylocarpa.*

17. *Ficus hispida* is positively associated with *Acacia intsia, Bombax malabaricum. Butea superba, Cassia fistula, Cordia dichotoma, Holarrhena antidysenterica, Lagerstroemia microcarpa, Lannea coromandelica, Schleichera oleosa, Sterculia urens, Terminalia bellirica, Terminalia crenulata, and Zizyphus xylopyrus*

18. *Gardina turgida* is positively associated with *Acacia intsia, Albizia odoratissima, Bambusa arundinaceae, Bridelia squamosa, Careya arborea, Cassia fistula, Dillenia pentagyna, Garuga pinnata, Haldina cordiflolia, Holarrhena antidysenterica, Lagerstroemia microcarpa, Melia composita, Meyna laxiflora, Mitragyna parvifolia, Lannea coromandelica, Piliostigrna malabaricum, Pterocarpus marsupium, Tectonca grandis, Terminalia crenulata, Tetrameles nudiflora, Xylia xylocarpa and Zizyphus xylopyrus.*

19. *Garuga pinnata* is positively associated with *Acacia intsia, Haldina cordifolia, Bridelia squamosa, Butea superba, Careya arborea, Cassia fistula, Dalbergia latifolia, Dillenia pentagyna, Erythrina stricta, Gardenia turgida, Holarrhena antidysenterica, Macaranga peltata, Meyna loxiflora, Lannea coromandelica, Piliostigma malabaricum, Pterocarpus marsupium, Sterculia urens, Tectona grandis, Terniinalia crenulata, Tetrameles nudiflora, Wrightia tinctoria and Zizyphus xylopyrus*

20. *Gmelina arborea* is positively associated with *Butea superba, Grewia tiliifolia Lagerstroemia microcarpa, Macaranga peltata, Lannea coromandelica, Tectona grandis, Terminalia crenulata and Wrightia tinctoria.*

21. *Grewia tiliifolia* is positively associated with *Acacia intsia, Bombax malabaricum, Careya arborea, Erythrina stricta, Gmelina arborea, Holarrhena antidysenterica, Limonia acidissima, Mitragynn parvifolia, Morinda tinctoria, Pterocarpus marsupium. Stereosperum colais, Terminalia crenulata and Zizyphus xylopyrus.*

22. *Holarrhena antidysenterica· is positively associated with Bambusa arundinacea, Butea superba, Careya arborea, Cassia fistula, Cordia dichotoma, Dillenia pentagyna, Emblica officinalis. Ficus hispida, Gardenia turgida, Garuga pinnata, Grewia tiliifolia, Melia composita, Meyna laxiflora, Lannea coromandelicn, Piliostigma malabaricum, Schleichera oleosa, Sterculia urens, Terminalia bellirica, Terminalia crenulata, Xylia xyloccarpa, and Zizyphus xylopyrus.*

23. *Lagerstroemia microcarpa* is positively associated with *Acacia intsia, Haldina cordifolia Albizia odoratissima, Butea superba, Erythrina stricta. Ficus hispida, Gardenia turgida, Gmelina arborea, Limonia acidissima, Macaranga peltata, Melia composita, Morinda tinctoria, Pterocarpus marsupium, Randia dumeto rum, Schleichera oleosa, Stereospermum colais, Terminalia bellirica, Terminaliu crenulata and Wrightia tinctoria.*

24. *Limonia acidissima* is positively associated with *Albizia odoratissima, Bambusa arundinacea, Butea superba, Cordia dichotoma, Dalbergia lalifolia, Grewia tiliifolia, Lagerstroemia microcarpa, Macaranga peltata, Meyna laxifloru, Sterculia urens, Tectona grandis, Terminalia crenulata and Xylia xylocarpa.*

25. *Macaranga peltata* is positively associated with *Albizia odoratissima, Bambusa arundinacea, Bridelia squamosa, Butea superba, Careya arborea, Dalbergia latifolia, Dillenia pentagyna, Grewia tiliifolia, Haldinu cordifolia, Lagerstoemia microcarpa. Melia composita, Meyna laxiflora, Mitragyna parvifolia,*

Pterocarpus marsupium, Randia dumetorum, Stereospermum colais, Tetrameles nudiflora, Wrightia tinctoria and Xylia Xylocarpa

26. *Melia composita* is positively associated with *Albizia odoratissima Bombax malabaricum, Dalbergia latifolia, Gardenia turgida, Holarrhena antidysenterica, Lagerstroemia microcarpa, Macaranga peltata, Meyna laxiflora, Sterculia urens, Terminalia bellirica, Xylia xylocarpu and Zizyphus xylopyrus.*

27. *Meyna laxiflora* is positively associated with *Acacia intsia, Bambusa arundinacea, Bombax malabaricum, Bridelia squamosa, Butea superba, Careya arborea, Emblica officinalis, Gardenia turgida, Garuga pinnata, Haldina cordifolia, Holarrhena antidysenterica, Limonia acidissima, Macaranga peltata, Melia composita, Lannea coromandelica, Pterocarpus marsupium, Randia dumetorum, Tetrameles nudiflora and Wrightia tinctoria.*

28. *Mitragyna parvifolia* is positively associated with *Acacia infsia, Albizia odoratissima, Bambusa arundinacea, Bombax malobaricum, Butea superba, Careya arborea, Dalbergia latifolia, Emblica officinalis, Gardenia turgida, Grewia tiliifolia, Macaranga peltata, Piliostigma malabaricum, Pterocarpus marsupium, Sterculia urens and Tectona grandis.*

29. *Morinda tinctoria* is positively associated with *Acacia intsia, Dillenia pentagyna, Grewia tiliifolia, Lagerstroemia microcarpa, Lannea coromandelica, Stereospermum colais, Terminalia bellirica, Terminalia crenulata and Wrightia tinctoria.*

30. *Lannea coromandelica* is positively associated with *Bambusa arundinacea, Boswellia serrata, Cassia fistula, Cordia dichotoma, Emblica officinalis, Erythrina stricta, Ficus benghalensis, Ficus hispida, Gardenia turgida, Garuga pinnata, Gmelina arborea, Holarrhena antidyscnterica, Meyna laxiflora, Morinda tinctoria, Piliostigma malabaricum, Randia dumetorum, Schleichera oleosa, Spondias mangifera, Stereospermum colais, Tectona grandis, Tetrameles nudiflora, Wrightia tinctoria and Xylia xylocarpa.*

31. *Piliostigma malabaricum* is positively associated with *Haldina cordifolia, Bombax malabaricum, Bridelia squamosa, Careya arborea, Cassia fistula, Dillenia penragyna, Gardenia turgida, Garuga pinnata, Holarrhena antidysenterica Mitragyna parvifolia, Lannea coromandelica, Pterocarpus marsupium, Schleichera oleosa, Sterculia urens, Tectona grandis, Terminalia bellirica, Terminalia crenulata and Tetrameles nudiflora.*

32. *Pterocarpus marsupium* is positively associated with *Acacia intsia, Albizia odorattissima, Bambusa arundinacea, Bridelia squamosa Dalbergia latifolia,*

Emblica officinalis, Ficus benghalensis, Gardenia turgida, Garuga pinnata, Grewia tiliifolia, Lagerstroemia microcarpa, Macaranga peltata, Meyna laxiflora, Mitragyna parvifolia, Piliostigma malabaricum, Sterculia urens, Terminalia bellirica, Wrightia tinctoria and *Xylia xylocarpa.*

33. *Randia dumetorum* is positively associated with *Acacia intsia, Boswellia serrata, Butea superba, Dillenian pentagyna, Lagerstroemia microcarpa, Macaranga peltata, Meyna laxiflora, Lannea coromandelica, Sterculia urens, Terminalia crenulata, Trewia nudiflora, Wrightia tinctoria* and *Zizyphus xylopyrus.*

34. *Schleichera oleosa* is positively associated with *Bambusa arundinacea, Bombax malabaricum, Butea superba, Dalbergia latifolia, Ficus hispida, Holarrhena antidysentericu, Lagerstroemia microcarpa, Lannea coromandelica, Piliostigma malabaricum, Sterculia urens, Tectona grandis, Terminalia bellirica, Terminalia crenulata, Xylia xylocarpa* and *Zizyphus xylopyrus.*

35. *Spondias* sp. is positively associated with *Acacia intsia, Careya arborea, Dillenia pentagyna, Lagerstroemia microcarpa, Lannea coromandelica, Tectona grandis, Terminalia crenulata* and *Wrightia tinctoria.*

36. *Sterculia urens,* is positively associated with *Acncia intsia, Boswellia serrata, Bridelia squamosa, Careya arborea, Cassia fistula, Dalbergia latifolia, Emblica officinalis, Ficus hispida, Garuga pinnata, Haldina cordifolia, Holarrhena antidysenterica, Limonia acidissima, Meliu composita, Mitragyna parvifolia, Piliostigma malabaricum, Pterocarpus marsupium, Randia dumetorum, Schleichera oleosa, Tectona grandis, Tetrameles nudiflora, Trewia nudiflora, Wrightia tinctoria* and *Xylia xylocarpa.*

37. *Stereospermum colais* is positively associated with *Acacia intsia, Dillenia pentagyna, Grewia tiliifolia. Macaranga peltata, Lannea coromandelicn, Terminalia bellirica, Terminalia crenulata, Wrightia tinctoria* and *Zizyphus xylopyrpus.*

38. *Tectona grandis is* positively associated with *Bambusa arundinacea, Bombax malabaricum, Boswellia serrata, Butea superba, Cassia fistula, Emblica officinalis, Erythrina stricta, Gardenia turgida, Garuga pinnata, Gmelina arborea, Grewia tiliifolia, Haldina cordifolia, Limonia acidissima, Mitragyna parvifolia, Lannea coromandelica, Piliostigma malabaricum, Schleichera oleosa, Spondias mangifera, Sterculia urens, Terminalia bellirica Terminalia crenulata* and *Trewia nudiflora.*

39. *Termialia bellirica* is positively associated with *Bambusa arundinacea, Boswellia serrata, Cassia f istula, Emblica off icinalis, Ficus benghalensis, Ficus hispida, Haldina cordifolia, Holarrhena antidysenterica, Lagerstroemia microcarpa,*

Melia composita, Morinda iinctoria, Piliostigma malabaricum, Pterocarpus marsupium, Schleichera oleosa, Stereospermum colais, Tectona grandis, Tetrameles nudiflora and *Trewia nudiflora.*

40. *Terminalia crenulata* is positively associated with *Bambusa arundinacea, Boswellia serrata, Careya arborea, Cassia fistula, Emblica off icinalis, Erythrina stricta, Ficus hispida, Gardenia turgida, Garuga pinnata, Gmelina arborea, Grewia tiliifolia, Holarrhena antidysenterico, Lagerstroemia microcarpa, Limonia acidissima, Morinda tincroria, Randia dumetorum, Schleichera oleosa, Spondius mangifera, Siereospermum colais* and *Tectona grandis.*

41. *Tetrameles nudiflora* is positively associated with *Acacia intsia, Albizia odorattissima, Bambusa arundinacra, Careya arboren, Cordia dichotoma, Dalbergia latifolia, Emblica officinalis, Gardenia turgido, Garuga pinnata, Haldina cordifolia, Macaranga peltata, Meyna laxiflora, Lmnea coromandelica, Piliostigma malabaricum, Sterculia urens* and *Terminalia bellirica.*

42. *Trewia nudiflora* is positively associated with *Acacia intsia, Randia dumetorum, Sterculia urens, Tectona grandis, Terminalia bellirica, Wrightia tinctoria, Xylia xylocarpa* and *Zizyphus xylopyrus.*

43. *Wrightia tinctoria is* positively associated with *Bombax malabaricum, Boswellia serrata, Bridelia squomosa, Butea superba, Careya arborea, Cordia dichotoma, Erythrina stricta, Ficus benghalensis, Guruga pinnata, Gmelina arborea, Grewia tiliifolia, Lagerstroemia microcarpa, Macaranga peltata, Melia composita, Meyna laxiflora, Morinda tinctoria, Lannea coromandelica, Pterocarpus marsupium, Randia dumetorum, Spondius mangifera, Sterculia urens, Stereospermum colais, Tetrameles nudiflora, Trewia nudifrora* and *Zizyphus xylopyrus.*

44. *Xylia xylocarpa* is positively associated with *Bambusa arundinacea, Bridelia squamosa, Careya arborea, Dalbergia lotifolia, Emblica officinalis, Ficus benghalensis, Gardenia turgida, Haldina cordifolia, Holarrhena antidysenterica, Limonia acidissima, Macaranga peltata, Melia composita, Lannea coromandelica, Pterocarpus marsupium, Schleichera oleosa. Sterculia urens* and *Zizyphus xylopyrus.*

45. *Zizyphus xylopyrus* is positively associated with *Acacia intsia, Albizia odoratissima, Bambusa arundinacea, Boswellia serrata, Cassia fistula, Ficus hispida, Gardenia turgida, Garuga pinnata, Grewia tiliifolia, Holarrhena antidysenterica, Melia composita, Randia dumetorum, Schleichera oleosa, Stereospermum colais, Trewia nudiflora, Wrightia tinctoria* and *Xylia xylocarpa.*

The observations of the species with negative association are recorded in table 172. Similarly the percentage values of positive and negative association of the variour combination of species are tabulated (Table 173). From thetable 171it can be observed that there is no 'character species' for the locality with more than 80% of positive combinations; whereas there are some species with high negative correlation (value more than 80%) in the area. Thus, broadly we can catagorize the species into two groups, as medium ranked group and low ranked (rare) group. The medium ranked group, means, those species with the percentage positive association values between 40-60. They are *Acacia intsia, Bambusa arundinacea, Butea superba, Careya arborea, Dillenia pentagyna, Gardenia turgida, Garuga pinnata, Holarrhena antidysenterica, Lagerstroemia microcarpa, Lannea coromandelica, Meyna laxiflora, Sterculia urens, Tectona grandis, Terminalia crenulata, Wrightia tinctoria, Emblica officianalis, Macaranga peltata, Piliostigma malabaricum, Pterocarpus marsupium* and *Zizypus xylopyrus.*

The low ranked (rare) group (those with below 40%, positive association) in the area are comprising *Bombax malabaricum, Boswellia serrata, Bridelia squamosa, Cassia fistula, Cordia dichotoma, Erythrina stricta, Ficus benghalensis, Ficus hispida , Gmelina arborea, Grewia tiliifolia, Haldina cordifolia, Limonia acidissima, Melia composita, Mitragyna parvifolia, Morinda tinctoriu, Schleichera oleosa, Stereospermum colais, Tetrameles nudiflora* and *Xylia xylocarpa.*

More than 50% of the combinations are positive in the case of *Acacia intsia, Butea superba, Garuga pinnata, Holarrhena antidysenterica, Lannea coromandelica, Sterculia urens, Tectona grandis* and *Wrightia tinctoria.*

DISCUSSION

The spatial distribution of individual species within the community is affected by a number of factors (Greig–Smith, 1964; Kershaw, 1973). Either modifying the environment in a favourable way or by direct impact over other species, one species may have a beneficial effect over other. Or else, the species are having a differential tolerance capacity to a varying environmental conditions and thus showing positive associations (Pielou, 1977). That is, either the tolerance capacity of the species or the beneficial effect of other species is the determining factor in positive association. Thus, the mosaic or patchy spatial distribution of species in quadrats or the over-lapping distribution pattern of species, due to special mode +of reproduction or accessibility factors, will influence the nature of association. Hence the information regarding the species distribution is highly useful in association studies. The varying degree of tolerance capacity of species is also expressed in the association pattern of species, The bilateral phenomena of species association observed, ie. both positive as well as negative association among the same species in different areas may also be due to such differences in tolerance capacity of species. These species can be excluded for any sort of plantation studies in the area.

The selection of suitable species for mixed plantation trials is of considerable importance at present and such species with positive significant associations can be economically planted in areas, aiming to high productivity, by creating a more or less ecologically balanced condition in the area. The 'medium range species group' mentioned in the report can be of high potentiality in plantation trials. These species are highly adapted with high tolerance capacity, hence showing more positive associations with others. Therefore species selection can be done only from the 'medium ranked group' for any further experimental trials. Since there is no 'character species' for the area, with very high association values (above 80%) and thus highly specialized, the only alternative is the 'medium ranked group' of species.

The medium ranked species can be further classified, based on their habits as climbers, shrubs and trees. Species like *Acacia instsia, Butea superba,, Zizyphus xylopyrus e*tc. in the area, though positively associated with most of the species, can be grouped into the 'secondary species' level for the trials. Likewise, species of *Holarrhena, Gardenia, Randia* etc. are of shrubby or small trees in nature, hence can be given the 'secondary species' status. Species of *Bombax, Emblica* etc. are showing very restricted distribution in the area and therefore it is not advisable to include them in the selection list of species for plantation trials. They are suitable

only in selected localities in the area. The remaining tree species in the medium ranked group are very promising for the trials.

The negative relations of *Xylia xylocarpa* and *Grewia tiliifolia* are worth noting. It is evident from the structural studies in the area that these two species often form communities, sometimes even dominant communities in certain localities. *Xylia* xylocarpa is known to dominate in localities where process of laterization had been more in play and this may be one of the reason for the species dominance in selected localities. The association studies reveal that they are negatively related to most species in the area. This can be explained in the light of selective biotic operations in the area for these species and the process of laterization. The extensive selective removal of these species for fuel and wood may be one of the reasons for such a phenomenon. Because of such selective removal, the species show a peculiar tendency in their nature of distribution. The regular and uniform distribution pattern of these species, changes to scattered and more contagious one, thus affecting the mutual relation values and the values fall to the negative side. But the structural data of the vegetation of different localities reveal the status of the species in the area as the 'co-dominants', hence these two species can also be of very promising value in the plantation trials.

It is important to remember that the forest habitat is controlled, not only by the tree species, but also by climbers and shrubs. Hence in the experimental trials one should not forget the importance of the 'secondary species'. The regulation of the forest microclimate is to a greater extent controlled by these subordinate species of shrubs and climbers. Therefore, it is advisable to include some of the climbers and shrubs along with the selected group of tree species to create a more balanced forest atmosphere.

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THE QUADRAT DATA

The quadrat data of Trichur Forest Division can be used as a data bank for further ecological or related studies. The structural analysis for the fundamental and basic characters of the vegetation are incorporated in the data. The nomenclature of the species, as for as possible, has been up dated. The result of the quadrat analysis of 165 localities are presented in the following pages (Table 1 to 165).

Index to tables

Table. 1. L o c .1. Cheppilakode

Sl No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Stereospermum colais	40	0.05	2	2	1.00	0.20	20	127.42	5.13	6.45	7.56	19.14
2	Dillenia pentagyna	45	0.03	5	4	1.25	0.50	40	101.43	12.82	12.90	9.52	35.24
3	Dalbergia latifolia	38	0.03	3	3	1.00	0.30	30	114.92	7.69	9.68	6.82	24.19
4	Mitragyna parvifolia	35	0.02	7		1.17	0.70	60	97.40	17.95	19.35	5.78	43.08
5	Schleichera oleosa	50	0.03	3	3	1.00	0.30	30	198.95	7.69	9.68	11.81	29.18
6	Spondias mangifera	40	0.10	1	1	1.00	0.10	10	127.42	2.56	3.23	7.56	13.35
7	Terminalia crenulata	75	0.04	7	4	1.75	0.70	40	447.61	17.95	12.90	26.56	57.41
8	Emblica officinalis	30	0.03	3	3	1.00	0.30	30	71.75	7.69	9.68	4.26	21.63
9	Lannea coromandelica	35	0.10	1	1	1.00	0.10	10	97.40	2.56	3.23	5.78	11.57
10	Lagerstroemia inicrocarpa	55	0.04	7	4	1.75	0.7	40	240.96	17.95	12.90	14.30	45-15
				39	31				1685.29	99.99	100.00	99.95	299.94

Maturity index = 31.00 Continum index = 1664

Table 2. Loc.. 2. Illichattom

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Stereospermum colais	45	0.05	2	2	1.00	0.20	20	161.43	4.65	6.06	7.27	17.98
2	Albizia odorattissima	40	0.03	4	4	1.00	0.40	40	127.42	9.30	12.12	5.73	27.15
3	Melia composita	105	0.04	4	3	1.33	0.40	30	877.82	9.30	9.09	39.51	57.90
4	Wrightia tinctoria	35	0.02	8	6	1.33	0.80	60	97.40	18.60	18.18	4.38	41.16
5	Butea superba	20	0.03	4	4	1.00	0.40	40	31.75	9.30	12 12	1.43	22 85
6	Terminalia bellirica	80	0.03	3	3	1.00	0 30	30	509.65	6.98	9.09	22 94	39.01
7	Grewia tiliifolia	45	0.03	10	6	1.67	1.00	60	161.43	23.26	18.18	7.27,	48.71
8	Careya arborea	30	0.05	2	2	1.00	0.20	20	71.75	4.65	6.06	3.23	13.94
9	Haldina cordifolia	48	0.07	6	3	2.00	0.60	30	183.28	13.95	9.09	8.25	31.29
				43	33				2221.93	99.99	99.99	100.01	299.99

Maturity index = 36.67 Continuum index = 1944

Table 3. Loc. 3. Mele-illichattom

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Careya arborea	28	0.10	1	1	1.00	0.10	10	62.45	1.43	1.89	1.55	4.87
2	Bauhinia malabarica	30	0.05	2	2	1.00	0.20	20	71.75	2.86	3.77	1.78	**8.41**
3	Bombax insigne	40	0.03	8	5	1.65	0.80	50	127.42	11.43	9.43	3.17	24.03
4	Hydnocarpus pentandra	45	0 05	2	2	1.00	0.20	20	161.43	2 86	3.77	4.01	10.64
5	Holigarna arnottiana	45	0.03	3	3	1.00	0.30	30	161.43	4.29	5.66	4.01	13.96
6	Aporusa lindleyana	38	0.10	1	1	1.00	0.10	10	114.92	1.43	1.89	2.86	6.18
7	Alstonia scholaris	50	0.04	4	3	1.33	0.40	30	198.95	5.71	5.66	4 95	16.32
8	Aglaia anamalayana	25	0.02	6	5	1.20	C.60	50	49.74	8.57	9.43	1.24	19.24
9	Ficus hispida	90	0.10	1	1	1.00	0.10	10	644.80	1 43	1.89	16.04	19.36
10	Dalbergia latifolia	40	0.05	2	2	1.00	0.20	20	127.42	2.86	3.77	3.17	9 08
11	Artocarpus hirsuta	110	0.08	3	2	1.50	0.30	20	963.82	4.29	3.77	23.97	32.03
12	Erythrina stricta	50	0 05	2	2	1.00	0.20	20	198.95	2.86	3.77	4.95	11.58
13	Grewia tiliifolia	48	0.02	6	5	1.20	0 60	50	183.28	8.57	9.43	4.56	22.56
14	Tetrameles nudiflora	65	0.03	3	3	1.00	0.30	30	336.36	4.29	5.66	8.37	18.32
15	Mesua ferrea	50	0.05	2	.2	1.00	0.20	20	198.95	2 86	3.77	4.95	11.58
16	Xylia xylocarpa	38	0 03	11	6	1.83	1.10	60	114.92	15.71	11 32	2.86	11.58
17	Ficus benghalensis	GO	0.05	2	2	1.00	0.20	20	286.37	2.86	3.17	7 12	13.75
18	Zizyphus xylopyrus	15	0 03	11	6	1.83	1.10	60	17.93	15.71	**11.32**	0.45	27.48
				70	53				4020.89	100.02	99.97	100.01	300.00

Maturity index -- 29.44 Continuum index = 1684

Table. 4. Loc. 4. Vellapara

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Alstonia scholaris	65	0.03	5	4	1.25	0.50	40	336.36	17.24	16.00	22.21	55.45
2	Grewia tiliifolia	45	0 02	6	5	1.20	0 60	50	161 43	20 69	20 00	10 66	51.35
3	Holigarna arnottiana	50	0 03	6	5	125	0.60	50	198 95	20.69	20.00	13 13	53.82
4	Strychonus nux-vomica	38	0 03	3	3	1.00	0 30	30	114 02	10.34	12.00	7.59	29.93
5	Terminalia bellirica	85	0 03	5	4	1.25	0.50	40	575.66	17.24	16.00	38.00	71.24
6	Mesua ferrea	40	0 03	4	4	1 00	0.40	40	127.42	13 79	16 00	8 41	38 20
				29	25				1514.74	99 99	100 00	100.00	299.99

Maturity index = 41.67 Continuum index = 1876

Table 5. L o c .5. Karadipara

1	Hopea parviflora	60	0.03	4	4	1.00	0 40	40	286.37	14.81	17.39	21.36	53.56
2	Eleocarpus tuberculatus	65	0.10	1	1	1.00	0.10	10	336.36	3.70	4.35	25.09	33.14
3	Schleichera oleosa	40	0.04	4	3	1.33	0.40	30	127.42	14.81	13.04	9.50	37.35
4	Haldina cordifolia	50	0.02	6	5	1.20	0.60	60	198.95	22.22	21.74	14.84	58 80
5	Zizyphus xylopyrus	15	0.02	7	6	1.17	0.70	60	17.93	25.93	26.09	1.34	53.36
6	Macaranga peltata	45	0 05	2	2	1.00	0.20	20	161.43	7.41	8.70	12.04	28.15
7	Xanthoxylum sp.	38	0.10	1	1	1.00	0.10	10	114.92	3.70	4.35	8.57	16.62
8	Lannea coromandelica	35	0.20	2	1	2.00	0.20	10	97.40	7.41	4.35	7.26	19.02
				27	23				1340.78	99.99	100.01	100.00	300.00

Maturity index a 28.75 Continuum Index = 2168

Table. 6. Loc.6. Vellacheeni

Sl. No.	Name of species	Av.Gth	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tetrameles nudiflora	110	0.05	2	2	1.00	0.20	20	963.82	7.69	9.09	40.82	57.60
2	Dipterocarpus indicus	90	0.10	1	1	1.00	0.10	10	644.80	3.85	4.55	27.31	35.71
3	Dysoxylum malabaricum	40	0.03	4	4	1.00	0.40	40	127.42	15.38	18.18	5.40	38.96
4	Toona ciliata	40	0.05	2	2	1.00	0.20	20	127.42	7.69	9.09	5.40	22.18
5	Dillinia pentagyna	45	0.02	6	5	1 2 0	0.60	50	161.43	23.08	22.73	6.84	51.65
6	Terminalia bellirica	60	0.03	4	4	1.00	0.40	40	286.37	15.38	18.18	12.13	45.69
7	Limonia acidissima	25	0.04	7	4	1.75	0.70	40	49.74	26.92	18.18	2.11	47.21
				26	22				2361.00	99.99	100.00	100.01	300.00

Maturity index = 31.67 Continuum index = 1903

Table 7. Loc.7. Thalavanathandu

1	Flacourtia indica	15	0.03	16	7	2.29	1.60	70	17 93	43.24	28.00	2.11	73.35
2	Wrightia tinctoria	30	0.02	6	5	1.20	0.60	50	71 75	16 22	20.00	8.46	44.68
3	Lagerstroemia microcarpa	48	0.03	5	4	1.25	0 50	40	183.28	13.51	16.00	21.61	51.12
4	Terminalia crenulata	60	0.03	5	4	1.25	0.50	40	286.37	13.51	16.00	33.76	63.27
5	Emblica officinalis	45	0.03	3	3	1.00	0.30	30	161.43	8.11	12.00	19.03	39.14
6	Ficus hispida	40	0.05	2	2	1.00	0.20	20	127.42	5.41	8.00	15.02	28.43
				37	25				848.18	100.00	100.00	99.99	299.99

Maturity index = 41.67 Continuum index = 1820

Table. 8. Loc. 8. Kodikuthy east

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Palaquium ellipticum	65	0.04	7	4	1.75	0 70	40	336.36	70.00	57.14	54.01	181.15
2	Pterocarpus marsupium	60	0 03	3	3	1.00	0.30	30	286.37	30.00	42.86	45 99	118.85
				10	7				622.73	100.00	100.00	100.00	300.00

Maturity index = 35.00 Continuum index = 1930

Table. 9. Loc.9. Kodikuthy slope

1	Tectona grandis	45	0.02	7	6	1.17	0.70	60	161.43	17.95	19.35	12.85	50.15
2	Dillinea pentagyna	40	0.03	3	3	1.00	0.30	30	127.42	7.69	9.68	10.14	27.51
3	Alstonia scholaris	40	0.10	1	1	1.00	0.10	10	127.42	2.56	3.23	10.14	15.93
4	Wrightia tinctoria	35	0.03	7	5	1.40	0.70	50	97.40	17.95	16.13	7.75	41.83
5	Erythrina stricta	48	0.03	3	3	1.00	0.30	30	183.28	7.69	9.68	14.59	31.96
6	Terminalia crenulata	50	0.02	12	7	1.71	1.20	70	198 95	30.777	22.58	15.83	69.18
7	Vitex altissima	40	0.05	2	2	1.00	0 20	20	127 42	5.13	6.45	10.14	21.72
8	Piliostigma malabaricum	30	0.05	2	2	1.00	0.20	20	71.75	5.13	6.45	5.71	17.29
9	Cycas sp	45	0 . 0 5	2	2	1.00	0.20	20	161.43	5.13	6.45	12.85	24.43
				39	31				1256.50	100.00	100.00	100.00	300.00

Maturity index = 34.44 Continuum index = 1630

Table 10. Eoc. 10. Kuzhiyodu

Sl. No.	Name of species	Av.Gth	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Jatropha indica	20	0.03	16	8	2.00	1.60	80	31.75	45.71	34.78	7.29	87.78
2	Tectona grandis	45	0.03	5	4	1.25	0.50	40	161.43	14.29	17.39	37.07	68.75
3	Dillinia pentagyna	40	0.04	6	4	1.50	0.60	40	127.42	17.14	17.39	29.26	63.79
4	Bombax malabaricum	38	0.02	8	7	1.14	0.80	70	114 92	22 86	30.43	26.39	79.68
				35	23				435.52	100 00	99.99	100.01	300.00

Maturity index = 57.50 Continuum index = 1785

Table. 11 Loc.11 Pattanikadu

1	Lagerstroemia microcarpa	48	0.02	**5**	5	1 0 0	0.50	50	183.28	9.80	14.29	8.76	32.85
2	Erythrina stricta	40	0.03	**4**	4	1 00	0.40	40	127.42	7.84	11.43	6.09	25.36
3	Bombax malabaricum	38	0.02	**11**	7	1.57	1 10	70	114 92	21 **57**	20.00	5.49	47.06
4	Tectona grandis	45	0 03	3	3	1.00	0.30	30	161.43	5.88	8.57	7.71	22.16
5	Tetrameles nudiflora	70	0.05	2	2	1 00	0.20	20	390.36	3.92	5.71	18.65	23.28
6	Lannea coromandelica	38	0.05	2	2	1.00	0.20	20	114.92	3.92	5.71	5.49	15.12
7	Albizia odorattissima	45	0.03	3	3	1.00	0.30	30	161.43	5 88	8.57	7.71	22.16
8	Ficus hispida	100	0.10	1	1	1.00	0 10	10	795.83	1.96	2.86	38.02	42.84
9	Zizyphus xylopyrus	18	0.05	18	6	3.00	1.80	60	25.87	35.29	17.14	1 24	53.67
10	FIacourtia indica	15	0.05	2	2	1 00	0.20	20	17.93	3 92	5.71	0.86	10.49
				51	35				1093.39	99.98	99.99	100.07	299.99

Maturity index 35.00 Continuum index = 2051

Table 12. Loc. 12. Pattanikadu slope

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Erythrina stricta	35	0 02	7	6	1.17	0.70	60	97.40	11.48	14 29	9.58	35.35
2	Tectona grandis	45	0.02	6	5	1.20	0.60	50	161.43	9.84	11.90	15.88	37 62
3	Bombax malabaricum	30	0.02	12	7	1.71	1.20	70	71 75	19.67	16 67	7.06	43 40
4	Lanneacoromandelica	38	0 05	2	2	1.00	0.20	20	114.92	3.28	4.76	11.30	19.34
5	Bambusa sp.	10	0 02	15	8	1.88	1.50	80	7.94	24.59	19.05	0 78	44.42
6	Hymenodictyon excelsum	45	0.10	1	1	1.00	0.10	10	161.43	1.64	2.38	15.88	19.90
7	Tetrameles nudiflora	60	0.03	3	3	1.00	0 30	30	286.37	4.92	7 14	28 17	40.23
8	Wrightia tinctoria	35	0.02	12	7	1.71	1.20	70	97.40	19 67	16.67	9 58	45.92
9	Acacia intsia	15	0 03	3	3	1.00	0.30	30	17.93	4.02	7 14	1.76	13.82
				61	42				1016.57	100.01	100.00	99.99	300.00

Maturity index 46.67 Continuum index = 2376

Table 13. Loc.13. Nilayerumpu

1	Grewia tiliifolia	35	0.04	9	5	1.80	0.90	50	17.65	12.50	97.40	8.13	38.18
2	Tectona grandis	45	0.02	6	5	1.20	0.60	50	11.76	12.50	161.43	13 32	37.58
3	Terminalia crenulata	50	0.03	4	4	1.00	0.40	40	7.84	10.00	198.95	15.41	34.25
4	Bombax malabaricum	40	0 02	11	7	1.57	1.10	70	21.57	17.50	127.42	10.51	39 58
5	Sterculia urens	65	0.03	4	4	1.00	0.40	40	7.84	10.00	336.36	27.75	45.59
6	Lannea coromandelica	40	0.05	2	2	1.00	0.20	20	3 92	5.00	127 42	10.51	19.43
7	Acacia intsia	15	0.05	2	2	1.00	0.20	20	3.92	5.00	18.93	1.48	10.40
8	Limonia acidissima	15	0 02	6	5	1.20	0.60	40	11.76	12.50	17.93	1.48	25.74
9	Xylia xylocarpa	40	0.02	7	6	1.17	0.70	60	13.73	15.00	127.42	10.51	39.24
				51	40				99.99	100.00	1212.26	100.00	299.99

Maturity index = 44.44 Continuum index = 2199

Table. 14. Loc. 14. Chakkiyara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Gmelina arborea	60	0.03	3	8	1.00	0.30	30	286.37	13.04	14.29	32.42	59.75
2	Cycas sp.	45	0.05	2	2	1.00	0.20	20	161.43	8 70	9.52	18 28	36.50
3	Erythrina stricta	40	0.03	5	4	1.25	0.50	40	127.42	21.74	19.05	14.43	55.22
4	Acacia intsia	20	0 03	4	4	1.00	0.40	40	31.75	17.39	19.05	3.59	40.03
5	Tectona grandis	45	0.02	6	5	120	0.60	50	161.43	26.09	23.81	18.28	68.18
6	Lannea coromandelica	38	0.03	3	3	100	0.30	30	114.92	13.04	14.29	13.01	40.34
				23	21				883.32	100.00	100.01	100*01300.02	

Maturity index = 35.00 **Continuum index = 1344**

Table 15. L o c .15. Veluthodathupara

1	Lagerstroemia microcarpa	60	0.02	6	5	1.20	0.60	50	286 37	9.09	10 *20*	13.30	32.59
2	Pterocarpus marsupium	38	0.03	5	4	1.25	0.50	40	114.92	7.58	8.16	5.34	21.08
3	Macaranga peltata	45	0.03	7	5	1.40	0.70	50	161.43	10.61	10 20	7.50	28 31
4	Wrightia tinctoria	35	0.02	11	7	1.57	0.10	70	97.40	16.67	14.29	4.52	35.48
5	Butea superba	20	0.03	7	5	1.40	0.70	50	31.75	10.61	10.20	147	22.28
6	Gmelina arborea	45	0.03	5	4	1.25	0.50	40	161.43	7.58	8.16	7.50	23.24
7	Bambusa sp.	15	0.03	13	7	1.86	1 30	70	17.93	19.70	14 29	0.83	34.82
8	Zizyphus xylopyrus	10	0.02	6	6	1.00	0.60	60	7.94	9 09	12.24	0.37	21.70
9	Trewia nudiflora	110	0.03	3	3	1.00	*0.80*	30	963.82	4.55	6.12	44.75	55.42
10	Eugenia jambolina	48	0.05	*2*	2	1.00	*0* 20	20	183.28	3 03	4 08	8.51	15.62
11	Diospyros buxifolia	40	0.10	1	1	1.80	0.10	10	127.42	1.52	2 04	5.92	9.48
				66	49				2153.69	100.03	99.98	100.01	300.02

Maturity index =44.55 **Continuum index = 1557**

Table. 16. Loc. 16. Nayadikulampu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Polyalthia fragrans	45	0.04	6	4	1.50	0.60	40	161 43	13.64	13.79	16.58	44.01
2	Mesua ferrea	40	0.03	5	4	1.25	0.50	40	127.42	11.36	13.79	13.09	38.24
3	Haldina cordifolia	70	0.02	6	5	1.20	0.60	50	390 36	13.64	17.24	40.10	70.98
4	Acacia intsia	15	0.03	13	7	1.86	1.30	70	17.93	29.55	24.14	1.84	55.53
5	Hopea parvifolia	38	0 03	4	4	1.00	0.40	40	114.92	9.09	13.79	11.80	34.68
6	Xylia xylocarpa	45	0 c4	10	5	2.00	1.00	50	161.43	22.78	17.24	16.58	56.55
				44	29				973.49	100 01	99.99	99.99	299.99

Maturity index = 48.33 Continuum index = 1516

Table 17. L o c .17. Mulamthandu

1	Calamus sp.	15	0.04	10	5	2.00	1.00	50	17.93	16.13	13.89	0.97	30.99
2	Schleichera oleosa	40	0.03	5	4	1.25	0.50	40	127.42	8.06	11.11	6.91	26 08
3	Lannea coromandelica	35	0.05	8	4	2.00	0.80	40	97.40	12.90	11.11	5.29	29.30
4	Dillinia pentagyna	50	0.02	6	5	1.20	0.60	50	198.95	9.68	13.89	10.80	34.37
5	Ficus hispida	55	0.03	3	3	1.00	0.30	30	240.96	4.84	8.33	13.08	26.25
6	Lagerstroemiamicrocarpa	50	0.07	6	3	2.00	0.60	30	198.95	9.68	8.33	10.80	28.81
7	Xylia xylocarpa	40	0.04	16	6	2.67	1.60	60	127.42	25.81	16.67	6.91	49.39
8	Stereospermum colais	38	0 08	3	2	1.50	0.30	20	114.92	4.84	5 56	6.24	16.64
9	Terminalia bellirica	95	0.03	5	4	1.25	0.50	40	718.81	8.06	11.11	39.01	58.18
				62	36				1842.76	100.00	100.00	100.01	300.01

Maturity index = 40.00 Continuum index = 1700

Table 18. Loc.18. Vadanchira slope

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Strychonus nux-vomica	45	0.05	2	2	1.00	0.20	20	161.43	3.85	4.88	14.21	22.94
2	Zizyphus xylopyrus	18	0.03	9	6	1.50	0.90	60	26.87	17.31	14.63	2.28	34.22
3	Limonia acidissima	20	0.03	4	4	1.00	0.40	40	31.75	7.69	9.76	2.79	20.24
4	Bombaxmalabaricum	38	0.02	11	7	1.57	1.10	70	114.92	21.15	17.07	10.12	48.34
5	Xylia xyiocarpa	40	0.02	9	7	1.29	0.90	70	127.42	17.31	17.07	11.26	45.64
6	Sterculia urens	50	0.03	3	3	1.00	0.30	30	198.95	5.77	7.32	17.51	30.60
7	Trewia nudiflora	48	0.05	2	2	1.00	0.20	20	183.28	3.85	4.88	16.13	24.86
8	Eleocarpus tuberculatus	40	0.05	2	2	1.00	0.20	20	127.42	3.85	4.88	11.26	19.99
9	Meyna laxiflora	25	0.04	4	3	1.33	0.40	30	49.74	7.69	7.32	4.38	19.39
10	Flacourtia indica	15	0.05	2	2	1.00	0.20	20	17.93	3.85	4.88	1.58	10.31
11	Lannea coromandelica	35	0.04	4	3	1.33	0.40	30	97.40	7.69	7.32	8.57	23.58
				52	41				1136.11	100.01	100.01	100.09	300.11

Maturity index = 37.27 Continuum index = 1792

Table. 19. L o c .19. Vadanchira

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	TVI
1	Hydnocarpus pentandra	40	0.04	4	3	1.33	0.40	30	127.42	5.97	6.98	7.25	20.20
2	Holigarna arnottiana	45	0.04	6	4	1.50	0.60	40	161.43	8.96	9.30	9.18	27.44
3	Calamus sp.	15	0.03	12	6	2.00	1.20	60	17.93	17.91	13.95	1.02	32.88
4	Acacia intsia	15	0.03	5	4	1.25	0.50	40	17.93	7.46	9.30	1.02	17.78
5	Ficus benghalensis	55	0.08	3	2	1.50	0.30	20	240.96	4.48	4.65	13.71	22.84
6	Zizyphus xylopyrus	20	0.04	10	5	2.00	1.00	50	31.75	14.93	11.63	1.81	28.97
7	Terminalia crenulata	85	0.02	7	6	1.17	0.70	GO	575.66	10.45	13.95	32.75	57.15
8	Tetrameles nudiflora	60	0.03	8	5	1.60	0.80	50	286.37	11.94	11.63	16.29	39.86
9	Lagerstroemia microcarpa	48	0.04	9	5	1.80	0.90	50	183.28	13.43	11.63	10.43	35.49
10	Calophyllum sp.	38	0.03	3	3	1.00	0.30	30	114.32	4.48	9.98	6.54	18 00
				67	43				1757.65	100.01	100.00	100.00	300.01

Maturity index = 43.00 Continuum index I1389

Table 20. Loc.20. Thalavanathandu east.

Sl. No.	Name of species	Av.Gth	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Hymenodictyon excelsum	40	0.03	3	3	1.00	0.30	30	127.42	10.34	14.29	26.59	51.22
2	Strychonus nux-vomica	38	0.03	5	4	1.25	0.50	40	114 92	17.24	19.05	23.98	60.27
3	Calamus sp.	15	0.03	12	6	2.00	1.20	60	17.93	41.38	28.57	3.74	73.69
4	Aporusa lindleyana	25	0.05	2	2	1.00	0.20	20	49.74	6.90	9.52	10.38	26.80
5	Hydnocarpus pentandra	30	0.03	5	4	1.25	0.50	40	71.75	17.24	19 05	14.97	61.26
6	Schleichera oleosa	35	0.05	2	2	1.00	0.20	20	97.40	6.90	9.52	20.33	36.75
				29	21				479.16	100.00	100.00	99.99	299.99

Maturity index = 35.00 Continuum index = 1772

Table. 21. Loc.21. Mulamkundu

1	Schleichera oleosa	45	0.03	7	5	1.40	0.70	50	161.43	14 29	13.16	15 87	43.32
2	Dillenia pentagyna	50	0.02	8	6	1.33	0.80	60	198.95	16.38	15.79	19 56	51.68
3	Grewia tiliifolia	40	0.03	4	4	1.00	0.40	40	127.42	8.16	10.53	12.52	31.21
4	Terminalia crenulata	48	0.03	7	5	1.40	0.70	50	183.28	14.29	13.16	18.02	45.47
5	Cassia fistula	35	0.10	1	1	1.00	0.10	10	97.40	2.04	2.63	9.57	14.24
6	Acacia intsia	20	0.03	5	4	1.25	0.50	40	31.75	10.20	10.53	3.12	23.85
7	Hydnocarpus pentandra	30	0.03	4	4	1.00	0.40	40	71.75	8.16	10.53	7.05	25.74
8	Calamus sp.	15	0.04	7	4	1.75	0.70	40	17.93	14.29	10.53	1 76	26.58
9	Erythrina stricta	40	0.02	6	5	1.20	0.60	50	127.42	12.24	13.16	12.52	37.92
				49	38				1017.33	100.00	100.02	99.99	300.01

Maturity index = 42.22 Continuum index = 1918

Table 22. Loc.22. Kappi slope

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Lagerstroemia microcarpa	45	0.03	8	5	1 6 0	0.80	50	161.43	12.90	10.20	11.63	34.73
2	Schleichera oleosa	40	0.03	4	4	1.00	0.40	40	127.42	6.45	8.16	9.18	23.79
3	Hydnocarpus pentandra	40	0.03	5	4	1.25	0.50	40	127.42	8.06	8.16	9.18	25.40
4	Zizyphus xylopyrus	20	0.04	4	3	1 3 3	0.40	30	31.75	6 45	6.12	2.29	14.86
5	Lannea coromandelica	35	0.05	2	2	1.00	0.20	20	97.44	3.23	4 08	7.01	14.32
6	Dillenia pentagyna	50	0.02	6	5	1.20	0.60	50	198.95	9.68	10.20	14.33	34.21
7	Acacia intsia	15	0.03	10	6	1.67	1.00	60	17.93	16.13	12.24	1 29	29.66
8	Butea superba	20	0 02	5	5	1 . 0 0	0.50	50	31.75	8.06	10.20	2 29	20.55
9	Cassia fistula	35	0.10	1	1	1.00	0.10	10	97.40	1 61	2.04	7.01	10.66
10	Grewia tiliifolia	38	0.02	8	6	1.33	0.80	60	114.92	12.90	12.24	8.28	33.42
11	Sterculia urens	48	0.01	2	6	0 33	0.20	60	183.28	3.23	12.24	13.20	28.67
12	Terminalia crenulata	50	0.18	7	2	3.50	0.70	20	198.95	11.29	4.08	14.33	29.70
				62	49				1388.60	99.99	99 96	100.02	299.97

Maturity index = 40.83 Continuum index = 2418

Table 23 Loc.23. Kappi

Sl. No.	Name of species	Av.Gth	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Lagerstroemia microcarpa	55	0.03	5	4	1.25	0.50	40	240.96	9.26	8.70	10.16	28.12
2	Tectona grandis	48	0.02	8	7	1.14	0.80	70	183.28	14.81	15.22	7.73	37.76
3	Scbleichera oleosa	40	0.03	4	4	1.00	0.40	40	127.42	17.41	8.70	5.37	21.48
4	Strychonus nux-vomica	38	0.05	2	2	1.00	0.20	20	114.92	3.70	4.35	4.84	12.89
5	Grewia tiliifolia	40	0.02	11	7	1.57	1.10	70	127.42	20.37	15.22	5.37	40.96
6	Albizia procera	35	0.03	4	4	1.00	0.40	40	97.40	7.41	8.70	4.11	20.22
7	Garuga pinnata	30	0.05	2	2	1.00	0.20	20	71.75	3.70	4.35	3.02	11.07
8	Terminalia bellirica	80	0.03	3	3	1.00	0 30	30	503.65	5.56	6.52	21.49	33.57
9	Ficus hispida	65	0.05	2	2	1.00	1.20	20	336.36	3.70	4 35	14.18	22.23
10	Zizyphus xylopyrus	20	0.04	6	4	1.50	0.60	40	31.75	11.11	8.70	1.34	21.15
11	Dillinia pentagyna	40	0.03	3	3	1.00	0.30	30	127.42	5.56	6.52	5.37	17.45
12	Albizia odorattissima	38	0.05	2	2	1.00	0.20	20	114.92	3.70	4.35	4.84	12.89
13	Erythrina stricta	40	0.10	1	1	1.00	0.10	10	127.42	1.85	2.17	5.37	9.39
14	Hymenodictyon cxelsum	45	0.10	1	1	1.00	0.10	10	161.43	1.85	2.17	6.81	10.83
				54	46				2372.10	99.99	100.00	100.00	300.01

Maturity index = 32.86 Continuum index = 1827

Table. 24. Loc.24. Kodikuthy

Sl. No.	Name of species	Av.Gth.	Ab/F	NoSps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	40	0.02	6	5	1.20	0.60	50	127.42	17.14	17.86	14.49	49.49
2	Cassia fistula	38	0.10	1	1	1.00	0.10	10	114.92	2.86	3.57	13.07	19.50
3	Grewia tiliifolia	40	0.03	9	6	1.50	0.90	60	127.42	25.71	21.43	14.49	61.63
4	Albizia procera	35	0.10	1	1	1.00	0.10	10	97.40	2.86	3.57	11.08	17.51
5	Zizyphus xylopyrus	15	0.05	2	2	1.00	0 20	20	17.93	5.71	7.14	2.04	14.89
6	Bambusa sp.	10	0.02	10	7	1.43	100	70	7.94	28.57	25.00	0.90	54.47
7	Lannea coromandelica	35	0.10	1	1	1.00	0.10	10	97.40	2.86	3.57	11.08	17.51
8	Erythrina stricta	40	0.03	3	3	1.00	0.30	30	127.42	8.57	10.71	14.49	33.77
9	Dillinea pentagyna	45	0.05	2	2	1.00	0.20	20	161.43	5.71	7.14	18.36	31.21
				35	28				879.28	99.99	99.99	100.00	299.98

Maturity index = 31.11 Continuum index = 1729

Table. 25. Loc.25. Oda

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dendrocalamus strictus	15	0.02	15	8	188	1.50	80	17.93	30.61	22.86	3.27	56.74
2	Piliostigma malabaricum	25	0 05	2	2	1.00	0.20	20	49.74	4 08	5.71	9.06	18.85
3	Dillenia pentagyna	40	0.02	7	6	117	0.70	60	127.42	14.29	17 14	23.21	54.64
4	Wrightia tinctoria	35	0.04	9	5	1.80	0.90	50	97.40	18.37	14.29	17.74	50 40
5	Bambusa sp.	20	0.03	5	4	1.25	0.50	40	31.75	10.20	11.43	5.78	27.41
6	Lagerstroemia microcarpa	50	0.02	6	6	1.00	0.60	60	198 95	12.24	17.14	36.23	65.61
7	Zizyphus xylopyrus	18	0.03	5	4	1.25	0.40	20	25.87	10.20	11.43	4.71	26.34
				49	35				549.06	99.99	100.00	100.00	299.99

Maturity index = 50.00 Continuum index = 2027

Table. 26. Loc.26. Kodikuthy south-east

1	Meyna laxiflora	30	0.03	5	4	1.25	0 50	40	71.75	11.36	11.11	7.19	29.64
2	Bombax malabaricum	35	0.02	8	7	1.14	0.80	70	97.40	18.18	19.44	9.73	47.35
3	Sterculia urens	55	0 05	2	2	1.00	0.20	20	240.96	4.55	5.56	24.07	34.18
4	Wrightia tinctoria	30	0.02	8	6	1.33	0.80	60	71.75	18.18	16.67	7.17	42.02
5	Dendrocalamus strictus	15	0.02	10	7	1.43	1.00	70	17.93	22.73	19.44	1.79	43.96
6	Xylia xylocarpa	40	0 03	4	4	1.00	0.40	40	127.43	9.09	11.11	12.73	39.93
7	Calamus sp.	15	0.04	4	3	133	0.40	30	17.93	9.09	8.33	1.79	19.21
8	Artocarpus hirsutus	55	0 10	1	1	1.00	1.10	10	240.96	2.27	2.78	24.07	29.12
9	Hydnocarpus pentandra	38	0.05	2	2	1.00	0.20	20	114.92	4.55	5.56	11.48	21.59
				44	36				1001.02	100.00	100.00	100.00	300.00

Maturity index = **40.00** Continuum index = 1852

Table 27. L o c 27. Thalavanathandu West.

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	% F	BA	RD	RF	RBA	IVI
1	Dendrocalamus strictus	10	0.02	9	7	1.29	0.90	70	7 94	13.64	14.29	0.99	28.92
2	Xylia xylocarpa	40	0.02	6	5	1.20	0.60	50	127.42	9.09	10 20	15.93	35 22
3	Calamus sp.	15	0.02	12	8	1.50	1.20	80	17.93	18.18	16.33	2.24	36 75
4	Bombax malabaricum	45	0.03	9	6	1.50	0.90	60	161.4'3	13.64	12.24	20.18	46.06
5	Diospyros buxifolia	40	0.10	1	1	1.00	0.10	10	127 42	1.52	2.04	15.93	19.49
6	Albizia procera	38	0.05	2	2	1.00	0 20	20	114 92	3.02	4.08	14.37	21.47
7	Careya arborea	30	0.10	1	1	1.00	0.10	10	71.75	1 52	2.04	8.97	12.53
8	Wrightia tinctoria	30	0.02	7	6	1.17	0.70	60	71.75	10 61	12.24	8 97	31.82
9	Acacia intsia	15	0.04	4	3	1.33	0.40	30	17.93	6.06	6.12	3.24	14.42
10	Limonia acidissima	20	0.02	12	7	1.71	1 20	70	31.75	18.18	14.29	3.97	36.44
11	Meyna laxiflora	25	0.03	3	3	1.00	0 30	30	49.74	4.55	6 12	6.22	16 89
				66	49				799.98	100.02	99.99	100.01	300.01

Maturity index –44.55 Continuum index = 1909

Table. 28. L o c 28. Kodikuthy west

1	Dillenia pentagyna	40	0.02	7	6	1 17	0.70	60	127.42	28.00	27.27	16 46	71.73
2	Lagerstroemia microcarpa	45	0.02	7	6	1.17	C.70	60	161.43	28.00	27.27	20.85	76.12
3	Lannea coromandelica	38	0.05	2	2	1.00	0.20	20	114 92	8.00	9.09	14.85	31.94
4	Zizyphus xylopyrus	20	0.03	5	4	1.25	0.50	40	31.75	20.00	18.18	4.10	42.28
5	Piliostigma malabaricum	25	0.10	1	1	1.00	0.10	10	49.74	4.00	4.55	6.43	14.98
6	Albizia procera	40	0.05	2	2	1 00	0.20	20	127.42	8.00	9.09	16.46	33.55
7	Albizia odoratissima	45	0.10	1	1	1.00	0.10	10	161.43	4.00	4.55	20.85	29.40
				25	22				774.11	100.00	100.00	100.00	300.00

Maturity index = 31.43 Continuum index = 2022

Table 29. Loc 29. Ilechety

Sl. No.	Name of species	Av.Gth	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Albizia procera	40	0.05	2	2	1.00	0.20	20	127.42	3.17	3.64	6.31	13.12
2	Toona ciliata	38	0.05	2	2	1.00	0.20	20	114.92	3.17	3.64	5.69	12.50
3	Butea superba	20	0.02	7	6	1.17	0.70	60	31.75	11.11	10.91	1.57	23.59
4	Acacia intsia	15	0.03	4	4	1.00	0 40	40	17.93	6.35	7.27	0.89	14.51
5	Tectona grandis	45	0.02	6	5	1.20	0.60	50	161.43	9.52	9 09	7.99	26.60
6	Ficus hispida	50	0.10	1	1	1.00	0.10	10	198.95	1.59	1.82	9.85	13.26
7	Pterocarpus marsupium	40	0.10	1	1	1.00	0.10	10	127.42	1.59	1.82	6.31	9.72
8	Bombax malabaricum	40	0.02	11	8	1.38	1.10	80	127.42	17.46	14.55	6.31	38.32
9	Wrightia tinctoria	35	0.04	6	4	1.50	0.60	40	97.40	9.52	7.27	4 82	21.61
10	Bambusa sp.	18	0.02	5	5	1.00	0.50	50	25.87	7.94	9.09	1.28	18.31
11	Steriospermum colais	40	0.05	2	2	1.00	0.20	20	127.42	3.17	3.64	6.31	13.12
12	Albizia odoratissima	38	0.03	4	4	1.00	0.40	40	114.92	6.35	7.27	5 69	19.31
13	Lannea coromandelica	35	0.03	3	3	1.00	0.30	30	97.40	4.76	5.45	4.82	15.03
14	Cassia fistula	30	0.05	2	2	1.00	0.20	20	71.75	3.17	3.64	3.55	10.36
15	Tetrameles nudiflora	65	0.03	4	4	1.00	0.40	40	336.36	6.35	7.27	16.66	30.28
16	Artocarpus fraxinifolius	55	0.08	3	2	1.50	0.30	20	240.96	4.76	3.64	11.93	20.33
				63	55				2019.32	99.98	100.01	99.98	299.97

Maturity index = 34.38 **Continuum index = 1343**

Table 30. Loc.30. Ayyathakadu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Stareospermum colais	38	0.03	3	3	1.00	0.30	30	114.92	4.00	5.36	8.96	18.32
2	Tetrameles nudiflora	50	0.03	3	3	1.00	0.30	30	198.95	4.00	5.36	15.52	24.88
3	Eucalyptus sp.	28	0.03	11	6	1.83	1.10	60	62.45	14.67	10.71	4.87	30.25
4	Zizyphus xylopyrus	18	0 02	9	7	1.29	0.90	70	25.87	12.00	12.50	2.02	26.52
5	Tectona grandis	45	0.02	9	7	1.29	0.90	70	161.43	12.00	12.50	12.59	37.09
6	Bombax malabaricum	40	0.02	14	9	1.56	1.40	90	127.42	18.67	16.07	9.94	44.68
7	Limonia acidissima	30	0.02	11	8	1.38	1.10	80	71.75	14 67	14.29	5.60	34.56
8	Strychonos nux-vomica	38	0.05	2	2	1.00	0.20	20	114.92	2.67	3.57	8.96	15.20
9	Elaeocarpus tuberculatus	45	0.04	4	3	1.33	0.40	30	161.43	5.33	5.36	12.59	23.38
10	Cassia fistula	35	0 10	1	1	1.00	0.10	10	97.40	1.33	1.79	7.60	10.72
11	Acacia intsia	15	0.02	7	6	1.17	0.70	60	17.93	9-33	10.71	1.40	21.44
12	Albizia procera	40	0.10	1	1	1.00	0.10	10	127.42	1.33	1.79	9.84	13.06
				75	56				1281.89	100.00	100.01	99.99	300.00

Maturity index = 46.67 Continuum index = 1863

Table 31. Loc. 31. Perinchira

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Bombax malabaricum	38	0.02	14	8	1.75	1.40	80	114.92	18.18	13 11	4.67	35.96
2	Terminalia crenulata	4%	0.02	8	6	1.33	0.80	60	183.28	10.39	9 84	2.44	27.67
3	Albizia prosera	40	0.03	3	3	1.00	0.30	30	127.42	3.90	4.92	5.17	13 39
4	Grewia tiliifolia	40	0 02	11	7	1.57	1.10	70	127.42	14.29	11.48	5.17	30 94
5	Lannea coromandelica	38	0.05	2	2	1.00	0.20	20	114.92	2.60	3.28	4.67	10.55
6	Albizia odoratissima	40	0 05	2	2	1.00	0.20	20	127.42	2.60	3.28	5.67	11.05
7	Xylia xylocarpa	38	0 02	8	7	1.14	0.80	70	114.92	10.39	11.48	4 67	26.57
8	Emblica officinalis	35	0.03	3	3	1.00	0.30	30	97.40	3.90	4.92	3.95	12.74
9	Cassia fistula	30	0.10	1	1	1.00	0.10	10	71.75	1.30	1 64	2.91	5.85
10	Terminalia bellirica	70	0 08	3	2	1.50	0.30	20	390.36	3.90	3 28	15.85	23.03
11	Hydnocarpus pentandra	40	0.05	2	2	1.00	0.20	20	127.42	2.60	3.28	5.17	11.05
12	Wrightia tinctoria	35	0.02	6	5	1.20	0.60	50	97.40	7.79	8.20	3.95	19.94
13	Gmelina arborea	40	0.03	4	4	1.00	0.40	40	127.42	5.19	6.56	5.17	16.92
14	Haldina cordifolia	65	0.02	6	5	1.20	0.60	50	336.36	7.79	8.20	13.66	29.65
15	Ficus hispida	60	0.10	1	7	1.86	0.10	10	286 37	1.30	1.64	11.63	14.57
16	Zizyphus xylopyrus	15	0 03	3	3	1.00	0.30	30	17 93	3.90	4.92	0.73	8.55
				77	61				2462.71	100.02	100.09	99.98	300.03

Maturity index = 38.13 - - - - Continuum index = 1902

Table. 32 Loc.32. Illikazha

Sl. No.	Name of species	Av.Gth	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	40	0.02	8	7	1.14	0.80	70	127.42	6.67	7.87	5.23	19.77
2	Careya arborea	30	0.10	1	1	1.00	0.10	10	71.75	0.83	1.12	2.94	4.89
3	Bombax malabaricum	38	0.02	15	8	1.88	1.50	80	114.92	12.50	8.99	4.71	26.20
4	Elaeocarpus tuberculatus	35	0.03	5	4	1.25	0.50	40	97.40	4.17	4.49	4.00	12.66
5	Terminalia crenulata	45	0.02	12	7	1.71	1.20	70	161.43	10.00	7.87	6.62	24.49
6	Haldina cordifolia	59	0.02	6	6	1.00	0.60	60	198.95	5.00	6.74	8.16	19.90
7	Grewia tiliifolia	40	0.02	11	8	1.38	1.10	80	127.42	9.17	8.99	5.23	23.39
8	Wrightia tinctoria	35	0.02	14	8	1.75	1.40	80	97.40	11.67	8.99	4.00	24.66
9	Cordia dichotoma	30	0.10	1	1	1.00	1.10	10	71.75	0 83	1.12	2.94	4.89
10	Butea superba	18	0.05	2	2	1.00	0.20	20	25.87	1.67	2.25	1.06	4 98
11	Lagerstroemia microcarpa	45	0.02	7	6	1.17	0 70	60	161.43	5.83	6.74	6.62	19.19
12	Sterospermum colais	30	0.03	3	3	1.00	0.30	30	71.75	2.50	3.37	2.94	28.01
13	Cycas sp.	30	0.01	12	9	1.33	0.20	90	71.75	10.00	10.11	2.94	23.05
14	Holarrhena antidysenterica	18	0.01	9	8	1.13	0.90	80	25.87	7.50	8.99	1.06	17.55
15	Acacia intsia	15	0.05	2	2	1.00	1.20	20	17.93	1.67	2.25	0.74	4 66
16	Albizia procera	40	0.08	3	2	1.50	0.30	20	127.42	2.50	2.25	5 23	9 98
17	Meyna laxiflora	30	0.05	2	2	1.00	0.20	20	71.75	1.67	2.25	2.94	6 86
18	Terminalia bellirica	75	0 10	1	1	1.00	0.10	10	447.64	0.83	1.12	18.36	20 31
19	Dillenia pentagyna	48	0.10	1	1	1.00	0.10	10	183.28	0.83	1.12	7.52	9.47
20	Mallotus philippensis	25	0.30	3	1	3.00	0.30	10	49.74	2.50	1.12	2.04	5.66
21	Mitragyna parvifolia	38	0.05	2	2	1.00	0.20	20	114.92	1.67	2.25	4.71	8 63
				120	89				2437.79	100.01	100.00	99.99	300.00

Maturity index = 42.38 **Continuum index = 2152**

Table. 33. L o c 33. Kidaram

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Mitragyna parvifolia	45	0.02	13	9	1.44	1.30	70	161.43	11.93	10.23	7.45	26 61
2	Terminalia bellirica	70	0.03	4	4	1.00	0.40	40	390.86	3.67	4.55	18.01	26.23
3	Lagerstroemiamicrocarpa	40	0.02	6	5	1.20	0.60	50	127.42	5.50	5.68	5.88	17.06
4	Terminalia crenulata	48	0.02	7	6	1.17	0.70	60	183.28	6.42	6.82	8.46	21.70
5	Haldina cordifolia	38	0 01	7	7	1.00	0.70	70	114.92	6.42	7 95	5.30	19.67
6	Albizia procera	40	0.05	2	2	1.00	0.20	20	127.42	1.83	2.27	5.88	9.98
7	Bombax malabaricum	40	0.04	11	5	2.20	1.10	50	127.42	10.09	5.68	5.88	21.56
8	Zizyphus xylopyrus	15	0.02	9	7	1.29	0.90	70	17.93	8.26	7 95	0.83	17.04
9	Emblica officinalis	35	0.10	1	1	1.00	0.10	10	97.40	0.92	1.14	4.49	6.55
10	Xylia xylocarpa	40	0.01	9	8	1.13	0.90	80	127.42	8.26	9.09	5.88	23.23
11	Wrightia tinctoria	30	0.02	11	8	1.38	1.10	80	71.75	10.09	9.09	3.31	22.49
12	Butea superba	20	0.05	2	2	1.00	0.20	20	31.75	1.83	2 27	1.46	5.56
13	Grewia tiliifolia	35	0.02	7	6	1.17	0.70	60	97.40	6.42	6 82	4.49	17.73
14	Limonia acidissima	25	0.10	1	1	1.00	0.10	10	49.74	0.92	1.14	2.29	35.4
15	Cycas sp.	30	0.02	8	6	1.33	0.80	60	71.75	7.34	6.82	3.31	17.47
16	Bridelia squamosa	35	0.05	2	2	1.00	0.20	20	97.40	1.83	2.27	4.49	8.59
17	Acacia intsia	15	0.02	6	1	1.00	0.60	60	17.93	5.50	6.82	0.83	13.15
18	Gmelina arborea	40	0.10	1	1	1.00	0.10	10	127.42	0.92	1.14	5.88	7.94
19	Hydnocarpus pentandra	40	0.05	2	2	1.00	1.20	20	127.42	1.83	2.27	5.88	9.98
				109	88				2167 56	99.98	100.00	100.00	299.98

Maturity index = 46 32 Continuum index = 1663

Table 34. L o c 34 Vellapara (Vazhani bt.)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	'RF	RBA	IVI
1	Emblica officinalis	38	0.03	4	4	1.00	0.40	40	114.92	4.49	6.06	5.86	15.41
2	Bombax malabaricum	40	0.02	9	8	1.29	0.90	70	127.42	10.11	8.86	6.50	25.47
3	Wrightia tinctoria	35	0.01	8	8	1.00	0.80	80	97.40	8.99	10.13	4.97	24.Q9
4	Mitragyna parvifolia	45	0.02	6	5	1.20	0.60	50	161.43	6.74	6.63	8.24	21.31
5	Terminalia crenulata	48	0.02	6	6	1.00	0.60	60	183.28	6.74	7.59	9.35	23.68
6	Bridelia squamosa	45	0.10	1	1	1.00	0.10	10	161.43	1.12	1.2'7	8.24	10.63
7	Xylia xylocarpa	35	0 02	8	7	1.14	0 80	70	97.40	8.99	8.86	4.97	22.82
8	Hydnocarpus pentandra	40	0.05	2	2	1.00	0.20	20	127.42	2.25	2.53	6.50	11.28
9	Albizia procera	40	0.05	2	2	1.00	0.20	20	127.42	2.25	2.53	6.50	11.28
10	Acacia intsia	17	0.03	9	6	150	0.90	60	25.87	10.11	7.59	1.32	19.02
11	Careya arborea	25	0.10	1	1	1.00	0.10	10	49.74	1.12	1.27	2.54	4.92
12	Grewia tiliifolia	35	0.02	6	5	1.20	0.60	50	97.40	6.74	6.33	4.97	18.04
13	Haldina cordifolia	38	0.10	1	1	1.00	0.10	10	114.92	1.12	1.12	5.86	8.22
14	Tectona grandis	45	0.02	8	7	1 14	0.80	70	161.43	8.99	8.86	8 24	26.09
15	Butea superba	20	0.03	3	3	1.00	0.30	30	31.75	3.37	8.80	1.62	8.79
16	Garuga pinnata	40	0.10	1	1	1.00	0.10	10	127.42	1.12	1.27	6.50	8 89
17	Cycas sp.	40	0.02	8	7	1.14	0.80	70	127.42	8.99	8.86	6.50	24.35
18	Zizypus xylopyrus	18	0.02	6	6	1.00	0.60	60	25 87	6.74	7.59	1.32	15.65
				89	79				1959.94	99.98	100.00	100.00	299.98

Maturity index = 43.89 **Continuum index = 3279**

Table 35. Loc.35. Kadakandamchalu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Sagaraca delzellii	40	0.10	1	1	1.00	0.10	10	127.42	1.79	2 50	9.51	13.80
2	Grewia tiliifolia	40	0.03	18	8	2.25	1.80	80	127.42	32.14	20.00	9.51	61.65
3	Albizia procera	30	0.03	3	3	1.00	0.30	30	71.75	5.36	7.50	5.36	18 22
4	Lannea coromandelica	35	0.10	1	1	1.00	0.10	10	97.40	1.79	2.50	7.27	11.56
5	Wrightia tinctoria	35	0.02	9	7	1.29	0.90	50	97.40	16.07	17.50	7.27	40.84
6	Xylia xylocarpa	45	0.02	9	7	1.29	0.90	70	161.43	16.07	17.50	12.05	45.62
7	Ficus callosa	50	0 03	5	4	1.25	0.50	40	198.95	8.93	10.00	14.85	33.78
8	Cordia dichotoma	30	0.10	1	1	1.00	0.10	10	71.75	1.79	2 50	5.36	9.65
9	Bridelia squamosa	40	0.10	1	1	1.00	0.10	10	127.42	1.79	2 50	9.51	13.80
10	Strychonos nux-vomica	45	0.04	4	3	1.33	1 40	30	161.47	7.14	7.50	12.05	26.69
11	Gmelina arborea	35	0.03	4	4	1.00	0 40	40	97.40	7.14	10 00	7.27	24.41
				56	40				1339.77	100.01	100.00	100.01	300.02

Maturity index = 36.36 Continuum index = 1703

Table 36. Loc.36 Kadakandamchalu slope

Sl. No.	Name of species	Av.Gth	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	40	0.02	8	7	1.14	0.80	70	127.42	10.00	10.29	5.86	26.15
2	Terminalia crenulata	48	0.02	6	6	1.00	0.60	60	183.28	7 50	8.82	8.42	24.75
3	Tectona grandis	45	0.05	2	2	1.00	0 20	20	16L.43	2.50	2.94	7.42	12.86
4	Acacia intsia	18	0.02	8	6	1.33	0.80	60	25 87	10.00	8 82	1.19	20 01
5	Albizia procera	30	0.05	2	2	1.00	0.20	20	71.75	2.50	2.94	3 30	8.74
6	Ficus hispida	50	0.03	3	3	1.00	0.30	30	198.95	3.75	4.41	9.15	17.31
7	Wrightia tinctoria	35	0.02	6	6	1.00	0.60	60	97.40	7.50	8.82	4.48	20.80
8	Zizyphus xylopyrus	20	0.04	4	3	1.33	0.40	30	31.75	5.00	4.41	1.46	10.87
9	Grewia tiliifolia	40	0.02	11	8	1.38	1.10	80	127.42	13.75	11.76	5.86	31.37
10	Bombax malabaricum	40	0.02	6	5	1.20	0.60	50	127.42	7.50	7.35	5.86	20 71
11	Haldina cordifolia	60	0.03	3		1.00	0.30	30	286.37	3.75	4.41	13.16	21.32
12	Dillenia pentagyna	50	0.07	6	3	2.00	0.60	30	198.95	7.50	4 41	9.15	21 06
13	Cycas sp.	30	0.02	8	7	1.14	0.80	70	71.75	10.00	10.29	3.30	23 59
14	Butea superba	20	0.03	3	3	1.00	0.30	30	31.75	3.75	4.41	1.46	9.62
15	Tetrameles nudiflora	65	0.05	2	2	1.00	0.20	20	336.36	2.50	2.94	15.48	20.90
16	Hydnocarpus pentandra	35	0.05	2	2	1.00	0.20	20	97.40	2.50	2.94	4.48	9.92
				80	68				2175.27	100.00	99.96	100.02	299.98

Maturity index = 42.50 Continuum index = 1879

Table. 37. L o c .37. Ungunganchola

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Wrightia tinctoria	35	0.02	8	7	1.14	0.80	70	97.40	18.18	20.00	7.08	45.26
2	Mitragyna parvifolia	40	0 01	7	7	1.00	0.70	70	127.42	15.91	20 00	9.27	45.18
3	Emblica officinalis	40	0.10	1	1	1.00	0.10	10	127.42	2.27	2.86	9.27	14.40
4	Piliostigma malabaricum	30	0.05	2	2	1.00	0.20	20	71.75	4.55	5.71	5.22	15.48
5	Ficus hispida	55	0.10	1	1	1.00	1.10	10	240.96	2.27	2.86	37.52	22.65
6	Terminalia crenulata	50	0 02	6	6	1.00	0.60	60	198.95	13.64	17.14	14.47	45.25
7	Buchanania lanzan	35	0.10	1	1	1.00	0.10	10	97.40	2.27	2.86	7.08	21.21
8	Xylia xylocarpa	50	0.03	15	7	2.14	1.50	70	127.42	34.09	20.00	9.27	63.36
9	Haldina cordifoiia	60	0.03	3	3	1.00	0.30	30	286.37	6.82	8.57	20.83	36.22
				44	35				1375.09	100.00	100.00	100.01	300.01

Maturity index = 38.89 Continuum index = 1874

Table 38. L o c .38. Kanjithadam slope

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Piliostigma malabaricum	30	0.10	1	1	1.00	0.10	10	71.75	1.05	1.35	5.67	8.07
2	Strychonus nux-vomica	40	0.10	1	1	1.00	0.10	10	127.42	1.05	1.35	10.07	12.47
3	Zizyphus xylopyrus	18	0.02	7	6	1.17	0.70	60	25.87	7.37	8.11	2.04	17.52
4	Haldina cordifolia	50	0 03	3	3	1.00	0.30	30	198.95	3.16	4.05	15.73	2.94
5	Acacia intsia	15	0.02	10	8	1.25	1.00	80	17.93	10.53	10.81	1.42	22.76
6	Tectona grandis	40	0.02	6	6	1.00	0.60	60	127.42	6.32	8.11	10.07	24.50
7	Xylia xylocarpa	40	*0* 02	30	7	1.43	1.00	70	127.42	10.53	9.46	10.07	30.06
8	Bauhinia sp.	35	0.10	1	1	1.00	0.10	10	97.40	1.05	1.35	7.70	10.10
9	Mitragyna parvifolia	38	0.02	6	5	1.20	0.60	50	114.92	6.32	6.76	9.08	22.16
10	Cycas sp.	35	0.02	8	7	1.14	0 80	70	97.40	8.42	9.40	7.70	25.58
11	Grewia tiliifolia	40	0.02	11	8	1.38	1.10	80	127.42	11.58	10.81	10.07	32 46
12	Butea superba	15	0.05	2	2	1.00	0.20	20	17.93	2.11	2.70	1.42	6 63
13	Bombax malabaricum	25	0.02	8	7	1.14	0.80	70	49.74	8 42	9.46	3.93	21.81
14	Wrightia tinctoria	20	0.03	16	7	1.29	1.60	70	31.75	16.84	9.46	2.51	28.81
15	Limonia acidissima	20	0.02	5	5	1.00	0 50	50	31.75	5.26	6.76	2.51	14.53
				95	74				1265.07	100.01	100.00	99.99	300.00

Maturity index = 49.33 Continuum index = 2019

Table. 39. Loc.39. Kanjithadam west

Sl. No.	Name of species	Av.Gth	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Bauhinia sp.	25	0.10	1	1	1.00	0.10	10	49.74	1 9 2	2.22	4.64	8.78
2	Strychonus nux-vomica	15	0.02	7	6	1.17	0.70	60	17.93	13.46	13.33	1.67	28.46
3	Haldina cordifolia	35	0.02	3	5	1.20	0.60	50	97.40	11.54	11.11	9 08	31.73
4	Terminaiia crenulata	40	0.03	3	3	1.00	0.30	30	127.42	5.77	6.67	11 88	24.32
5	Garuga pinnata	40	0.03	8	3	1.00	0.30	30	127.42	5.77	6.67	11.58	24.32
6	Xylia xylocarpa	40	0.02	11	7	1.14	0.80	70	127.42	15.38	15.56	11.88	42 82
7	Piliostigma malabaricum	38	0.02	6	8	1.38	0.10	80	114.92	21.15	17.78	10.71	49.64
8	Acacia intsia	25	0.02	6	5	1.20	0.60	50	49.74	11.54	11.11	4.64	27.29
9	Mitragyna parvifolia	30	0.05	2	2	1.00	0.20	20	71.75	3.85	4.44	6.69	14.98
10	Grewia tiliifolia	45	0.03	3	3	1.00	0.30	30	161.43	5 77	6 67	15.05	27.49
11	Tectona grandis	40	0.05	2	2	1.00	0 20	20	127.42	3.85	4.44	11.88	20.17
				52	45				1072.59	100.00	100 00	100.00	300.00

Maturity index = 40.91 Continuum index = 1780

Table. 40. Loc 40. Kanjithadam top

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	35	0.02	7	6	1.17	0.70	60	97.40	11.67	11.54	7.58	30.79
2	Grewia tiliifolia	40	0.02	6	6	1.00	0.60	60	127.42	10.00	11.54	9.91	31.45
3	Tectona grandis	45	0.02	6	5	1.20	0.60	50	161.43	10.00	9.62	12.56	52.18
4	Albizia procera	50	0.06	5	3	1.67	0.50	30	161.43	8.33	5.77	12.56	26.66
5	Haldina cordifolia	40	0.03	3	3	1.00	0.30	30	198.95	5.00	5.77	15.48	26.25
6	Bombax malabaricum	40	0.02	7	6	1.17	0.70	60	127.42	11.67	11.54	9.91	33.12
7	Wrightia tinctoria	38	0.02	8	7	1.14	1.80	70	114.92	13.33	13.46	8.94	35.73
8	Cycas sp.	35	0.02	8	7	1.14	0.80	70	97.40	13.33	13.16	7.58	34.37
9	Mitragyna parvifolia	40	0.02	8	7	1.14	0.80	70	127.42	13.33	13.46	9.91	36.70
10	Garuga pinnata	30	0.05	2	2	1.00	0.20	20	71.75	3.33	3.85	5.58	12.76
				60	52				1285.54	99.99	100.01	100.01	300.01

Maturity index = 52.00 Continuum index = 2678

Table. **41.** Loc.41. Kidaram top

Sl. No.	Name of species	Av.Gth	Ab/F	No,Sps.	Qtd.OCc.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Terminalia bellirica	80	0.03	3	3	1.00	0.30	30	509.95	4.69	5.56	32.25	42.60
2	Mitragyna parvifolia	50	0.03	4	4	1.00	0.40	40	198.95	6.25	7.55	12 59	29.39
3	Butea superba	15	0.03	3	3	1.00	0.30	30	17.93	4.69	5.86	1.13	11.48
4	Terminalia crenulata	45	0.03	13	7	1.86	1.30	70	161.43	20.31	13.21	10.22	43.74
5	Bombax malabaricum	40	0.02	10	8	1.25	1.00	80	127.42	15.63	15.09	8.06	38.78
6	Tectona grandis	45	0.01	7	7	1.00	0.70	70	161.43	10.94	13.21	10.22	34.37
7	Acacia intsia	18	0.02	8	6	1.33	0.80	60	25 87	12.50	11.32	1.64	25.46
8	Dillenia pentagyna	38	0.10	1	1	1.00	0.10	10	114.92	1.56	1 89	7.27	10.72
9	Cycas sp.	35	0.01	8	8	1.00	0.80	80	97.40	12.50	15 09	6.16	33.75
10	Meyna laxiflora	25	0.05	2	2	1.00	0.20	20	49.74	3.13	3.77	3.15	10.05
11	Zizyphus xylopyrus	15	0.04	4	3	1.33	0.40	30	17.93	6 25	5.66	1.13	13.04
12	Stereospermum colais	35	0.10	1	1	1.00	0.10	10	97.49	1.56	1.89	6.16	9.61
				64	53				1580.07	100.01	100.00	99.98	299.99

Maturity index = **44.17** Continuum index = **2009**

Table 42. Loc.42. Chettichiparutha

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	45	0.03	5	4	1.25	0.50	40	161.43	11.90	12.50	15.72	43.12
2	Terminalia crenulata	40	0.03	4	4	1.00	0.40	40	127.42	9.52	12.50	12.41	34.43
3	Lannea coromandelica	35	0.10	1	1	1.00	0.10	10	97.40	2.38	3.13	9.48	14 99
4	Garuga pinnata	35	0 05	2	2	1.00	0.20	20	97.40	4.76	6.25	9.48	20.49
5	Bombax malabaricum	40	0.05	2	2	1.00	0.20	20	127.42	4.76	6.25	12 41	23.42
6	Zizypus xylopyrus	15	0 02	10	7	1 4 3	1.00	70	17.83	23.81	21.88	1.75	47.44
7	Haldina cordifolia	50	0.03	4	4	1 0 0	0.40	40	198.95	9.52	12.50	19.37	41.39
8	Emblica officinalis	40	0.03	3	3	1 0 0	0.30	30	127.42	7.14	9.38	12.41	28.93
9	Wrightia tinctoria	30	0.04	11	5	2.20	1.10	50	71.75	26.19	15.68	6.99	48.81
				42	32				1027.12	99.98	100.02	100.02	300.02

Maturity index = 35.56 Continuum index = **3208**

Table 43. Loc.43. Pulparutha

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Acacia intsia	18	0.10	1	1	1.00	0.10	10	25 87	5.56	6.25	7.88	19.69
2	Bombax malabaricum	35	0.02	5	5	1 0 0	0.50	50	97.40	27.78	31.25	29.67	88.70
3	Zizyphus xylopyrus	18	0.08	3	2	1.50	0.30	20	25.87	16.67	12.50	7.88	37.05
4	Flacourtia indica	10	0.03	3	3	1.00	0.30	30	7.94	16.67	18.75	2.42	37.84
5	Meyna laxiflora	25	0.01	1	1	1.00	0.10	10	49.74	5.56	6.25	15.15	26.96
6	Careya arborea	30	0 04	4	3	1.33	0.40	30	71.75	22.22	18.75	21.85	62.82
7	Limonia acidissima	25	0.01	1	1	1.00	0.10	10	49.74	5.56	6.25	15.15	26.96
				18	16				328.31	100.02	100.00	100.00	300.02

Maturity index = 22.86 Continuum index = 1626

Table 44. Loc.44. Perinchira slope

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	**Piliostigma malabaricum**	48	0.02	6	5	1.20	0.60	50	183.28	9.23	10.00	11.99	31.33
2	**Terminalia crenulata**	40	0.03	4	4	1.00	0.40	40	127.42	6.15	8.00	8.34	22.49
3	**Albizia procera**	45	0.10	1	1	1.00	0.10	10	161.42	1.54	2.00	10.56	14.10
4	**Flacourtia indica**	10	0.03	12	6	2.00	1.20	60	7.94	18.46	12.00	0.52	30.98
5	**Hydnocarpus pentandra**	35	0 10	1	1	1.00	0.10	10	97.40	1.54	2.00	0 37	9.91
6	**Haldina cordifolia**	50	0 03	3	3	1.00	**0.30**	30	198.95	4.62	6.00	13.02	23.64
7	**Zizyphus xylopyrus**	18	0 04	9	5	1.80	0.90	50	26.87	13.85	10.00	1.69	25.54
8	**Emblica officinalis**	25	0.03	3	3	1.00	0.30	30	49.74	4.62	6.00	3 25	13.87
9	**Xylia xylocarpa**	38	0.02	8	7	1.14	0.80	70	114.92	1‘1.31	14.00	7.52	33.83
10	**Bombax malabaricum**	35	0.02	8	7	1.14	0 80	70	97.40	12.31	14.00	6.37	32.65
11	**Terminalia bellirica**	65	0.10	1	1	1.00	0.10	10	336.36	1.51	2 ***00***	22.01	25.55
12	**Cycas sp.**	40	0.02	9	7	1.29	0.90	***70***	127.42	13.85	14.00	8 34	36.19
				65	50				1528.13	100.02	100.00	99.98	300.00

Maturity index = 41.67 **Continuum index = 1927**

Table 45. Loc.45. Asurankundu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	35	0.01	11	7	1.57	1.10	70	97.40	11.96	11.11	2.94	26.01
2	Bombax malabaricum	40	0.02	7	6	1.17	0.70	60	127.42	7.61	9.52	3 85	20.98
3	Terminalia crenulata	45	0.02	15	8	1.75	1.40	80	161.43	15.22	12.70	4.88	32.80
4	Dillenia pentagyna	45	0 03	3	3	1.00	0.30	30	161.43	3.26	4.76	4.88	12.90
5	Mitragyna parvifolia	30	0.05	2	2	1.00	0.20	20	71.75	2.17	3 17	2.17	7.51
6	Limonia acidissima	20	0.06	5	3	1.67	0 50	30	31.75	5.43	4.76	0.96	11.15
7	Wrightia tinctoria	25	0.03	7	5	1.40	0.70	50	49 74	7 61	7.64	1.50	17.05
8	Bridelia squamosa	30	0.20	2	1	2.00	0.20	10	71.75	2.17	1.59	2.17	5.93
9	Lagerstroemia microcarpa	60	0.04	9	5	1.80	0.90	50	286.37	9.78	7.94	8.66	26.38
10	Terminalia bellirica	80	0.02	3	3	1.00	0.30	30	509.65	3 21	4.76	15.41	23 43
11	Piliostigma malabaricum	35	0.03	3	8	1.00	0.30	30	97.40	3.26	4.76	2 94	10 96
12	Trewia nudiflora	100	0.10	1	1	1.00	0.10	10	795.83	1.09	1 59	24.06	26.74
13	Zizyphus xylopyrus	15	0.06	10	4	2.50	1.00	40	17.93	10 87	6.35	0.54	17.76
14	Haldina cordifolia	45	0.05	2	2	1.00	0.20	20	161.43	2.17	3.17	4.88	10.22
15	Butea superba	15	0.02	10	7	1.43	1.00	70	17.93	10.87	11.11	0.54	22.52
16	Cordia dichotoma	30	0.10	1	1	1.00	0.10	10	71.75	1 09	1.59	2.17	4.85
17	Ficus hispida	55	0.10	1	1	1.00	0.10	10	240.96	1.09	1.59	7.28	9.96
18	Ficus benghalensis	65	0.10	1	1	1.00	0.10	10	336.36	1 09	1.59	10.17	12 85
				92	63				3308.28	100.00	100.00	100 00	300.00

Maturity index -- 35.00 Continuum index = 1750

Table. 46. Loc.46. Mannathipara west

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	38	0.02	11	7	1.57	1.10	70	114.92	21.57	20.59	10.52	52.68
2	Bombax malabaricum	40	0.03	4	4	1.00	0.40	40	127.42	7.84	11 76	11.66	31.26
3	Dillenia pentagyna	45	0.03	17	8	2.13	1.70	80	161.43	33.33	23.53	14.77	71.63
4	Albizia procera	40	0.05	2	2	1.00	0.20	20	127.42	3.92	5.88	11.66	21.46
5	Piliostigma malabaricum	25	0.05	2	2	1.00	0.20	20	49.74	3.92	5.88	4.55	14 35
6	Wrightia tinctoria	30	0.02	6	5	1.20	0.60	50	71.75	11.76	14.71	6.57	33.04
7	Lagerstroemia microcarpa	55	0.04	7	4	1.75	0.70	40	240.96	13.73	11.76	22.05	47.54
8	Haldina cordifoiia	50	0.05	3	2	1.00	0.20	20	198.95	3.92	5.88	18.21	28.01
				51	34				1092.59	99.99	99.99	99.99	299.97

Maturity index = 42.50 **Continuum index = 1737,**

Table. 47. Loc.47. Mannathipara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Bombax malabaricum	40	0.03	4	4	1.00	0.40	40	127.42	6.25	7.14	4.89	18.28
2	Mallotus philippensis	30	0.05	2	2	1.00	0.20	20	71.25	3.33	3.57	2.76	9.46
3	Lagerstroemia microcarpa	45	0.02	6	5	1.20	0.60	50	161.43	9.38	8.93	6.20	24.51
4	Albizia procera	40	0.05	2	2	1.00	0.20	20	127.42	3.13	3.57	4.89	11.59
5	Xylia xylocarpa	40	0.02	9	7	1.20	0.90	70	127.42	14.06	12.50	4.89	31.45
6	Dillenia pentagyna	45	0.03	4	4	1.00	0.40	40	161.43	6.25	7.14	6.20	19.59
7	Grewia tiliifolia	35	0.02	10	7	1.43	1.00	70	97.40	15.63	12.50	3.74	31 87
8	Macaranga peltata	50	0.05	2	2	1.00	0.20	20	198.95	3.13	3.57	7.64	14.34
9	Butea superba	18	0.03	5	4	1.25	0.50	40	25.87	7.81	7.14	0.99	15.94
10	Saragacea delzellii	38	0.05	2	2	1.00	0 20	20	114.92	3.13	3.57	4.41	11.11
11	Alstonia scholaris	40	0.03	1	1	0 50	0.10	20	127.42	3.56	3.57	4.89	10.02
12	Erythrina stricta	45	0.03	3	1	0.50	0.10	20	16143	1.56	3.57	6.20	11.33
13	Terminalia crenulata	50	0.03	6	9	1.50	0.90	60	198.95	14.06	10.71	7.64	32.41
14	Terminalia bellirica	85	0.03	1	3	1.00	0.30	30	575.66	4.69	5.36	22.11	32.16
15	Artocarpus hirsutus	50	0.10	3	1	1.00	0.10	10	198.95	1.56	1.79	7.69	10.19
16	Bridelia squamosa	50	0.03	3	3	1.00	0.30	30	127.42	4.69	5.36	4.89	14.94
				64	56				2603.84	100.02	99.99	99.98	299.99

Maturity index = 33.75

Continuum index = 1934

Table 48. Loc.48. Mulamkundu north

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	40	0.02	13	9	1.44	1.30	90	127.42	32.50	26.47	9.74	68.71
2	Lagerstroemia microcarpa	50	0.02	6	5	1.20	0.60	50	198.95	15.00	14.71	15.21	44.92
3	Haldina cordifolia	55	0.03	3	3	1.00	0.30	30	240.96	7.50	8.82	18.43	34.75
4	Grewia tiliifolia	40	0.02	7	6	1 17	0.70	60	127.42	17.60	17.65	9.74	44.89
5	Trewia nudiflora	60	0.03	3	3	1.00	0 30	30	286.37	7.50	8 82	21.90	38.22
6	Strychonus nux-vomica	40	0 10	1	1	1.00	0.10	10	127.42	2.50	2 94	9.74	15.18
7	Dillenia pentagyna	40	0.02	6	5	120	0.60	50	127.42	15.00	14.71	9.74	39.45
8	Cordia dichotoma	30	0.05	1	2	1.00	0.10	20	71.75	2.50	5.88	5.49	13.87
				40	33				1307.71	100.00	100.00	99.99	299.99

Maturity index = 4250 Continuum index = 1782

Table 49. Loc.49. Asurankundu south

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	45	0.02	11	8	1.38	1.10	80	161.43	13.30	10.29	9.61	35.03
2	Grewia tiliifolia	40	0.03	9	6	1.50	0.90	60	127.42	10.80	9.09	7.59	27.48
3	Terrninalia crenulata	48	0.02	5	5	1.00	0.50	50	183.28	6.00	7.58	10.91	24.49
4	Lagerstroemia microcarpa	50	0.02	5	5	1 00	0 50	50	198 95	6.00	7.58	11.85	25 43
5	Wrightia tinctoria	30	0.03	3	3	1.00	0.30	30	71.75	3 60	4.55	4.27	12.42
6	Butea superba	20	0.03	3	3	1.00	0.30	30	31.75	3.60	4.55	1.89	10.04
7	Stereospermum colais	35	0.10	1	1	1.00	0.10	10	97.40	1.20	1.52	5.80	8.52
8	Strychonus nux-vomica	35	0.05	2	2	1.00	0 20	20	97.40	2.41	3.03	5.80	11.24
9	Randia dumetorum	10	0.03	10	6	1.67	1.00	60	7.94	12.05	9.09	0.47	21.61
10	Flacourtia indica	15	0.05	2	2	1.00	0.20	20	17.93	2.41	3.03	1.07	6 51
11	Zizyphus xylopyrus	15	0.03	10	6	1.67	1.00	60	17.93	12.05	9.09	1.07	22.21
12	Lannea coromandelica	35	0.02	5	5	1.00	0.50	50	97.40	6.00	7.58	5 80	19.38
13	Xylia xylocarpa	40	0.02	10	7	1.43	1.00	70	127.42	12 05	10.61	7.59	30.25
14	Artocarpus fraxinifolius	50	0.05	2	2	1.00	0.20	20	198.95	2.41	3.03	11.85	17.29
15	Tetrameles nudiflora	40	0.10	1	1	1.00	0.10	10	127.42	1.20	1.52	7.59	10.31
16	Bombax malabaricum	38	0.03	4	4	1.00	0.40	40	114.92	4.82	6.06	6.84	17.72
				83	66				1679.29	99.90	100.03	100.00	299.93

Maturity index = 41.25 **Continuum index = 1376**

Table. 50. Loc.50. Nayadikulampu east

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dalbergia latifolia	45	0.04	2	2	1.00	0.20	20	161.43	3.30	4.10	8.20	15.60
2	Trewia nudiflora	65	0.02	11	7	1.57	1.10	70	336.36	18.30	14.30	17.09	49.69
3	Bombax malabaricum	40	0.02,	6	5	1 20	0.60	50	127.42	10.00	10.20	6.48	26.68
4	Flacourtia indica	15	0.03	7	5	1.40	0.70	50	17.93	11.70	10.20	0.91	22.81
5	Xylia xylocarpa	40	0.02	6	5	1.20	0.60	50	127.42	10.00	10.20	6.48	26.68
6	Wrightia tinctoria	35	0.02	6	6	1.00	0.60	60	97.40	10.00	12.20	4.95	27.15
7	Cassia fistula	35	0.05	2	2	1.00	0.20	20	97.40	3.30	4.10	4.95	12.30
8	Sterculia urens	75	0.02	6	5	1.20	0.60	50	447.64	10.00	10.20	22.75	42.95
9	Strychonus nux-vomica	38	0.03	3	3	1.00	0.30	30	114.92	5.00	6.10	5.84	16.94
10	Artocarpus hirsutus	55	0.05	2	2	1.00	0.20	20	240.96	3.30	4.10	12.24	19.64
I1	Tectona grandis	50	0.02	9	7	1.29	0.90	70	198.95	15.00	14.30	10.11	39.41
				60	49				1967.83	99.90	100.00	100.00	299.90

Maturity index = 44.55 Continuum indea = 1609

Table. 51. Loc.51. Nayadikulampu west

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.0cc.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Tectona grandis	40	0.02	8	7	1.14	0.80	70	127.42	16.67	17.07	17.08	50.82
2	Dillenia pentagyna	40	0.01	7	7	1.00	0.70	70	127.42	14.58	17.07	17.08	48.73
3	Wrightia tinctoria	25	0.02	6	5	1.20	0.60	50	49.74	i2.50	12.20	6.67	31.37
4	Bombax malabaricum	30	0.03	7	5	1.40	0.70	50	71.75	14.58	12.20	9.62	86.40
5	Lagerstroemia microcarpa	38	.0.02	7	6	1.17	0.70	60	114.92	14.58	14.63	15.40	44.61
6	Xylia xylocarpa	40	0.03	3	3	1.00	0.30	30	127.42	6.25	7.32	17.08	30.65
7	Grewia tiliifolia	40	0.02	10	8	1.25	1.00	80	127.42	20 83	19.51	17.08	67.42
				48	41				746.09	99.99	100.05	100.01	300.00

Maturity index = 58.57 **Continuum index = 1523**

Table. 52. Loc. 52. Nayadikulampu south

1	Bombax insigne	40	0.03	3	3	1.00	0.30	30	127.42	5.36	6.38	5.97	17.71
2	Xylia xylocarpa	45	0.03	9	6	1.50	0.90	60	161.43	16.02	12.77	7.56	36.40
3	Tectona grandis	50	0.02	7	6	1.17	0.73	60	198.95	12.50	12.77	9.32	34.59
4	Lannea coromandelica	45	0.02	6	6	1.00	0.60	60	161.43	10.71	12.77	7.56	31.04
5	Grewia tiliifolia	40	0.03	5	4	1.20	0.50	40	127.42	8.93	8.51	5 97	23.43
6	Steriospermum colais	48	0.10	1	1	1.00	0.10	10	183.28	1.79	2.13	8.59	12.51
7	Artocarpus hirsutus	55	0.05	2	2	1.00	0.20	20	240.96	3.57	4.26	11.29	19.12
8	Terminalia crenulata	48	0.02	11	7	1.57	1.10	70	183.28	19.64	14.89	8.59	43.12
9	Ficus benghalensis	65	0.03	3	3	1.00	0.30	30	336.36	5.36	6.38	15.76	27.50
10	Terminalia bellirica	60	0.02	6	6	1.00	0.60	60	286.37	10.71	12.77	13.42	36.90
11	Garuga pinnata	40	0.03	3	3	1.00	0.30	30	127.42	5.36	6.38	5.97	17.71
				56	47				2184.32	100.00	100.01	100.00	300.01

Maturity index = 42.73 **Continuum index = 1883**

Table 53. Loc.53. Moochikunnu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Oa.	Ab	D	%F	BA	RD	RF	RBA	IV
1	Bombax malabaricum	38	0.02	13	8	1.63	1.30	80	114 92	28.89	21.62	1.95	58.46
2	Trewia nudiflora	55	0.03	3	3	1.00	0.30	30	240.96	6.67	8.11	16.67	31 45
3	Tectona grandis	45	0.02	7	6	1.17	0.70	60	161.43	15.56	16.22	11.17	42.95
4	Ficus hispida	70	0 05	2	2	1.00	0.20	20	390.36	4.44	5.41	27.01	36.86
5	Butea superba	25	0.02	5	5	1.00	0.50	50	49.74	11.11	13.51	3.44	28.06
6	Dillenia pentagyna	45	0 05	2	2	1.00	0.20	20	161.43	4.44	5.41	11.17	21.02
7	Lagerstroemia microcarpa	50	0 02	9	7	1.29	0.90	70	198.95	20.00	18.92	13.77	52 69
8	Bridelia squamosa	40	0.03	4	4	1.00	0.40	40	127.42	8.89	10.81	8.82	28.52
				45	37				1445.21	100.00	100.01	100.00	300.01

Maturity index = 46.25 Continuum index = 1640

Table. 54. Loc. 54. Vellapara (Vazhani side)

1	Tectona grandis	40	0.02	9	7	1.29	0.90	70	127.42	16.67	14.89	9.67	41.23
2	Bombax malabaricum	40	0.01	7	7	1.00	0.70	70	127.42	12.96	14.89	9.67	37.52
3	Dalbergia latifolia	48	0.05	2	2	1.00	0.20	20	183.28	3.70	4.26	13.91	21.87
4	Dillenia pentagyna	50	0.02	10	7	1.43	1.00	70	198.95	18.52	14.89	15 10	48.51
5	Cassia fistula	35	0.05	2	2	1.00	0.20	20	97.40	3.20	4.26	7.39	15.35
6	Xyliaxylocarpa	45	0.02	5	5	1.00	0.50	50	161:43	9.26	10.64	12.25	32.15
7	Lannea coromandelica	35	0.02	8	7	1.14	0.80	70	97.40	14.81	14.89	7.39	37.09
8	Lagerstroemia microcarpa	35	0.05	2	2	1.00	0.20	20	197.40	3.70	4.26	7.39	15.35
9	Albizia procera	38	0.10	1	1	1.00	0.10	10	114.92	1.85	2.13	8.72	12.70
10	Bauhinia sp.	25	0.02	6	5	1.20	0.60	50	49.74	11.11	10.64	3.77	25.52
11	Piliostigma malabaricum	28	0.05	2	2	1 00	0.20	20	62.45	3.76	4.26	4.74	12.70
				54	47				1317.81	99.98	100.01	100.00	299.99

Maturity index = 42.73 Continuum index = 1675

Table. 55. L o c 55. Vellapara east

Sl. NO.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Strychonus nux-vomica	38	0.10	1	1	1.00	0.10	10	114.92	2.94	3.33	11.32	17.59
2	Acacia intsia	15	0.02	7	6	1.17	0.70	60	17.93	20.59	20 00	1.77	42.38
3	Gmelina arborea	35	0.05	2	2	1.00	0.20	20	97.40	5.88	6.67	9.60	22.15
4	Haldina cordifolia	45	0 02	7	6	1.17	0.70	60	161 43	20.69	20.00	15.91	56.50
5	Trewia nudiflora	55	0.03	3	3	1.00	0.30	30	240.96	8.82	10.00	23.74	42.56
6	Terminalia crenulata	50	0 02	9	7	1.29	0.90	70	198.95	26.47	23.33	19.60	69.40
7	Lagerstroemia microcarpa	48	0.02	5	5	1.00	0.50	50	133.28	14.71	16 67	18.06	49.44
				34	30				1014.87	100.00	100.00	100.00	300.00

Maturity index = 42.86 Continuum index = 1957

Table. 56. Loc. 56. Vellapara south

1	Tetrameles nudiflora	48	0.05	2	2	1.00	0.20	20	183.28	7.41	8.33	12.63	28.37
2	Grewia tiliifolia	38	0.03	3	3	1.00	0.30	30	114.92	11.11	12.50	7.92	31.53
3	Butea superba	20	0.03	3	3	1.00	0.30	30	31.75	11.11	12.50	2.19	25.80
4	Garcinia malabarica	35	0.03	3	3	1.00	0.30	30	97.40	11.11	12.50	6.71	30.32
5	Macaranga peltata	40	0.03	4	4	1.00	0.40	40	127.42	14.81	16.67	8.78	40.26
6	Acacia intsia	15	0.10	4	2	2.00	0.40	20	17.93	14.81	8.33	1.24	24.38
7	Lannea coromandelica	40	0.03	5	4	1.25	0.50	40	127.42	18.52	16 67	8.78	43.97
8	Trewia nudiflora	50	0.10	1	1	1.00	0.10	10	198.95	3.70	4.17	13.71	21.58
9	Steriospermum colais	45	0.10	1	1	1.00	0.10	10	161.43	3.70	4.17	11.13	19.00
10	Artocarpus hirsutus	70	0.10	1	1	1.00	0.10	10	390.36	3 70	4.17	26.91	34.78
				27	24				1450.86	99.98	100.01	100.00	299.99

Maturity index = 24.00 Continuum index = 1486

Table 57. Loc 57. Vellapara north

Sl. No.	Name of species	Av.Gth.	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Holigarna arnottiana	55	0.05	2	2	1.00	0.20	20	240.96	7.14	8.00	20.59	35.73
2	Garcinia malabaricum	40	0.05	2	2	1.00	0.20	20	127.42	7.14	8.00	10.89	26.03
3	Schleichera oleosa	48	0.03	3	3	1.00	0.30	30	183 28	10.71	12.00	15.66	38.37
4	Xylia xylocarpa	40	0.03	4	4	1.00	0 40	40	127.42	14.29	16.00	10.89	49.18
5	Grewia tiliifolia	48	0.04	4	3	1.33	0.40	30	183.28	14.29	12.00	15.66	41.95
6	Bridelia squamosa	38	0.03	3	3	1.00	0.30	30	114 92	10.71	12.00	9.82	32.53
7	Macaranga peltata	45	0.05	2	2	1.00	0.20	20	161.43	7.14	8.00	13.79	28.93
8	Acacia intsia	30	0.02	8	6	1.33	0.80	60	31.75	28.57	24.00	2.71	55.28
				28	25				1170 46	99.99	100.00	100.01	300.00

Maturity index = 31.25 Continuum index = 1540

Table 58. Loc 58. Kurinjinampu

1	Bombax malabaricum	40	0 02	5	5	1.00	0.50	50	127.42	13.82	13.51	6.43	32.76
2	Tectona grandis	45	0.03	4	4	1.00	0.40	40	161.43	10.81	10.81	8.15	29.22
3	Terminalia crenulata	60	0.02	6	6	1.00	0.60	60	286.37	15.38	16.22	14.46	46.06
4	Xylia xylocarpa	48	0.02	9	7	1.29	0.90	70	183.28	23.08	18.92	9.26	51 26
5	Mallotus philippensis	38	0.10	1	1	1.00	0.10	10	114 92	2.56	2.70	5.80	11.06
6	Haldina cordifolia	70	0.02	2	2	1.00	0.20	20	390.36	5.13	5.41	19.71	30.25
7	Artocarpus hirsutus	55	0.10	1	1	1.00	0.10	10	240.96	2.56	2.70	12.17	17.43
8	Lagerstroemia microcarpa	38	0.30	3	3	1.00	0.30	30	114.92	7.69	8.11	5.80	21.60
9	Wrightia tinctoria	30	0.03	3	3	1.00	0.30	30	71.75	7.69	8.11	3.62	19.42
10	Dalbergia latifolia	40	0.05	3	2	1.00	0.20	20	127.42	5.13	5.41	6.44	16.97
11	Terminalia bellirica	45	0.03	3	3	1.00	0.30	30	161.43	7.69	8.11	8.15	23.95
				39	37				1980.26	99.99	100.01	99.98	299.98

Maturity index = 33.64 Continuum index = 1721

Table 59. Loc.59. kadampankundu north

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	45	0.03	3	3	1.00	0.30	30	161.43	8.82	8.32	15.61	32.76
2	Bambusa sp.	20	0.05	2	2	1.00	0.20	20	31.75	5.88	5.88	3.07	14.51
3	Terminalia crenulata	48	0.02	7	6	1.17	0.70	60	183.28	19.44	17.65	17.72	$4.81
4	Lagerstroemia microcarpa	45	0.03	3	3	1.00	0.30	30	161.43	8.33	8.82	15.61	32.76
5	Limonia acidissima	30	0.10	1	1	1.00	0.10	10	71.75	2.78	2.94	6.94	12.66
6	Wrightia tinctoria	28	0.10	4	4	1.00	0.40	40	62.45	11.11	11.76	6.04	28.91
7	Xylia xylocarpa	40	0.02	7	6	1.17	0.70	60	127.42	19.44	17.65	12.32	49.41
3	Dillenia pentagyna	50	0.02	5	5	1.00	0.60	50	198.95	13.89	14.71	19.23	47.88
9	Acacia intsia	15	0.05	2	2	1.00	0.20	20	17.93	5.56	5.88	1.73	13.17
10	Butea superba	15	0.05	2	2	1.00	0.20	20	17.93	5.56	5.88	1.73	15.17
				36	34				1034.32	100.00	99.99	100.00	299.99

Maturity index = 34.00 Continuum index = 1970

Table 60. Loc. 60. Thalamuriyankulampu slope

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	45	0.03	4	4	1.00	0.40	40	161.43	13.33	14.29	16.31	43.93
2	Terminalia crenulata	45	0.03	3	3	1.00	0.30	30	161.43	10.00	10.71	16.31	37.02
3	Bridelia squamosa	30	0.10	1	1	1.00	0.10	10	71.75	3.33	3.57	7.25	14.15
4	Acacia intsia	18	0.05	2	2	1.00	0.20	20	25.87	6.67	7.14	2.61	16.42
5	Butea superba	15	0.03	3	3	1.00	0.30	30	17.93	10.00	10.71	1.81	22.52
6	Xylia xylocarpa	35	0.02	8	6	1.33	0.80	60	97.40	26.67	21.43	9.84	57.94
7	Grewia tiliifolia	40	0.03	4	4	1.00	0.40	40	127.42	13.33	14.29	12.88	40.50
8	Bombax malabaricum	40	0.03	3	3	2.00	0.30	30	137.42	10.00	10.71	12.98	33.59
9	Lagerstroemia microcarpa	50	0.05	2	2	1.00	0.20	20	198.95	6.67	7.14	20.10	33.91
				30	28				989.60	100.00	99.99	99.99	299.98

Maturity index = 31.11 Continuum index = 1872

Table 61. Loc. 61. Thalamuriyankulampu south

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	45	0.03	4	4	1.00	0.40	40	161.42	11.76	12.50	14.28	38.54
2	Tectona grandis	40	0.02	7	6	1.17	0.70	60	127.42	20 95	28.75	11.27	50.61
3	Terminalia bellirica	60	0.02	5	5	1.00	0.50	50	286.37	14.71	15.63	25.33	55.67
4	Terminalia crenulata	50	0.02	5	5	1.00	0.50	50	198.95	14.71	15.63	17.60	41.94
5	Lannea coromandelica	45	0.03	3	3	1.00	0.30	30	161.43	8.82	9.38	14.28	32.48
6	Grewia tiliifolia	40	0.03	3	3	1.00	0.30	30	127.42	8.82	9.38	11.27	29.47
7	Wrightia tinctoria	25	0. 08	3	2	1.50	0.30	20	49.74	8.82	6.25	4.40	19.47
8	Acacia intsia	15	0.03	4	4	1.00	0.40	40	17.93	11.76	12.50	1.59	25.85
				34	32				1130 69	99:99	100.0	2100.02	300.03

Maturity index =.40.00 Continuum = 1828

Table 62: Loc. 62. **Thalamuriyankulampu east**

1	Bimbax malabaricum	40	0.8	3	2	1.50	0.30	20	127.42	7.32	6.06	17.99	32.31
2	Tectona grandis	40	0.2	8	7	1.14	0.80	70	127 42	19.51	21.21	17.99	58.71
3	Wrightia tinctoria	25	0.3	9	6	1.50	0.90	60	49.74	21.95	18.18	7.62	47.15
4	Dalbergia latifolia	38	0.3	4	4	1.00	0.40	40	114.92	9.76	12.12	16.22	38.10
5	Lannea coromandelica	40	0.2	10	a	1.25	1.00	80	127.42	24.39	24.24	17 99	66.62
6	Xylia xylocarpa	45	0.2	7	6	1.17	0.70	60	161.43	17.07	18.18	22.79	58.04
				41	33				708.36	100.00-	99.99	100.00	299.99

Maturity index = 55.00 Continuum index = 1760

Table. 63. Loc.63. Thalamuriyankulampu chola

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Sterculia urens	38	0.03	3	3	1.00	0.30	30	114.92	4.69	5.17	7.01	16.87
2	Dillenia pentagyna	40	0.02	8	7	1.14	0 80	70	127.42	12.50	12.07	7,77	32.34
3	Tectona grandis	40	0.02	6	6	1.00	0.60	60	127.42	9.38	12.34	7.77	27.49
4	Terminalia crenulata	65	0.02	6	5	1.20	0.60	50	336.36	9.38	8.62	20.51	88.51
5	Bombax malabaricum	48	0.05	2	2	1.00	0.20	20	183.28	3.13	5.45	11.18	17.76
6	Dalbergia latifolia	45	0.03	3	3	1.00	0.30	30	161.41	4.69	5.17	9.85	19.71
7	Xylia xylocarpa	38	0.04	6	4	1.50	0.60	4 0	114.92	9.38	6.90	7.01	23.29
8	Lagerstroemia microcarpa	48	0.03	4	4	1.00	0.40	40	183.28	6.25	6.90	11.18	24.33
9	Wrightia tinctoria	30	0.03	4	4	1.00	0.40	40	71.75	6.25	6.90	4.38	17.53
10	Cordia dichotoma	30	0.10	1	1	1.00	0.10	10	71.75	1.56	1.72	4.38	7.66
11	Flacourtia indica	15	0.02	8	7	1.14	0.80	70	17.93	12.50	12.07	1.09	25.66
11	Cleistanthus sp.	20	9.02	6	6	1.00	0.60	60	31.75	9.38	10.34	1.94	21.66
13	Grewia tiliifolia	35	0.02	7	6	1.17	0.70	60	97.40	10.94	10.34	5.94	27.22
				64	58				1639.61	100.03	99.99	100.01	300.03

Maturity index = 44.62 Continuum index = 1886

Table 64. Loc. 64. Thalamuriyankulampu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	45	0.02	11	7	1.57	1.10	70	161.43	22.02	17.07	11.85	51.84
2	Terminalia crenulata	40	0.03	7	6	1.17	0.70	60	127.42	14.58	14.63	9.35	38.56
3	Lagerstroemia microcarpa	40	0.03	4	4	1.00	0.40	40	127 42	8.33	9.76	9.35	27.44
4	Xylia xylocarpa	38	0 03	4	4	1.00	0.40	40	114.92	8.33	9.76	8.44	26.53
5	Cleistansthus sp.	28	0.05	2	2	1.00	0.20	20	62.45	4.17	4.88	4.58	13.63
6	Wrightia tinctoria	30	0.02	7	6	1.17	0 70	60	. 71.75	14.58	14.63	5.27	34.48
7	Bombax malabaricum	45	0.08	3	2	1.50	0.30	20	161.43	6 25	4.88	11.85	22.98
8	Dillenia pentagyna	50	0.02	5	5	1.00	0 50	50	198.95	10.42	12.20	14 61	37.23
9	Terminalia bellirica	65	0.02	5	5	1.00	0.50	50	336 36	10.42	12.20	24.69	47.31
				48	41				1362.13	100.00	100 01	99.99	300.00

Maturity index = 45.56 Continuum index = 1943

Table. 65. L o c .65. Theerthamukku

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Grewia tiliifolia	35	0.03	9	6	1.50	0.90	60	97.40	16.98	13.04	6.35	36.37
2	Tectona grandis	40	0.01	9	8	1.13	0.90	80	127.42	16.98	17.39	8.31	42.68
3	Terminalia crenulata	45	0.03	4	4	1.00	0.40	40	161.43	7.55	8.70	10.53	26.78
4	Xylia xylocarpa	40	0.02	9	7	1.29	0.90	70	127.42	16.98	15.22	8.31	40.51
5	Lannea coromandelica	35	0.03	4	4	1.00	0.40	40	97.40	7.55	8.70	6.35	22.60
6	Strychonus nux-vomica	40	0.10	1	1	1.00	0.10	10	127.52	1.89	2.17	8.31	12.37
7	Ficus benghalensis	65	0.03	3	3	100	0.30	30	336.36	5.66	6.52	21.94	34 12
8	Lagerstroemia misiocarpa	50	0.02	5	5	1.00	0.50	50	198.95	9.43	10.87	12.98	33.28
9	Cleistanthus sp.	35	0.05	2	2	1.00	0.20	20	97.40	3.77	4.35	6.35	14.47
10	Dillenia pentagyna	45	0.02	7	6	1.17	0.70	60	161.43	13 21.	13.04	10.53	36.78
				53	46				1532.93	100.00	100.00	99.96	299.96

Maturity index = 46.00 **Continuum index= 2279**

Table 66. Loc.66. Theerthakundu

Sl. No.	Name of species	Av.Gth.	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Grewia tiliifolia	38	0.02	6	5	1.20	0.60	60	114.92	14.63	14.29	14.71	43.63
2	Tectona grandis	50	0.02	7	6	1.17	0.70	60	198.95	17.07	17.14	25.47	59.68
3	Lagerstroemia microcarpa	40	0 04	6	4	1.59	0.60	40	127.48	14.63	11.43	16.31	42.37
4	Bombax malabaricum	30	0.02	5	5	1.00	0.50	50	71.75	12.20	14.29	9.18	35.67
5	Xylia xylocarpa	38	0.02	7	6	1.17	0 70	60	114.92	17.07	17.14	14.71	48.92
6	Butea superba	18	0.04	4	3	1.33	0.40	30	25 87	9.76	8 57	3.31	21.64
7	Dillenia pentagyna	40	0.02	6	6	1.00	0.60	60	127.42	14.63	17.14	16.31	48.08
				41	35				781.25	99.99	100.00	100 00	299.99

Maturity index = 50.00 Continuum index = 1957

Table 67. Loc..67 Atakodu

1	Garuga pinnata	35	0 04	4	3	1.33	0.40	30	97.40	6.45	5 66	5.86	17.97
2	Dillenia pentagyna	45	0.02	1 2	8	1.50	0.20	80	161.43	19.35	15 09	9 72	44.16
3	Xylia xylocarpa	40	0.03	4	4	1.00	0.40	40	127.42	6.45	7 55	7.67	21.67
4	Bombax malabaricum	40	0.03	3	3	1.00	0.30	30	127.42	4.84	5.66	7.67	18.17
5	Lannea coromandelica	38	0.03	4	4	1.00	0.40	40	114.92	6.45	7.55	6.92	20.92
6	Lagerstroemia microcarpa	5 0	0.02	7	6	1.17	0.70	60	198.95	11.29	11.32	11.98	34.39
7	Terminalia crenulata	60	0.82	5	5	1.00	0.50	50	286.37	8.06	9.43	17.24	34.73
8	Zizyphus xylopyrus	15	0.02	9	7	1.29	0.90	70	17.03	L4.52	13.21	1.08	28.81
9	Tectona grandis	45	0.01	9	8	1.13	0.90	80	161.43	14.52	15.09	9.72	39.33
10	Emblica officinalis	30	0.05	2	2	1.00	0.20	20	71.75	3.23	3.77	4.32	11.32
11	Daibergia latifolia	35	0.05	2	2	1.00	0.20	20	97.40	5.23	3.77	5.86	12.86
12	Sterculia urens	50	0.10	1	1	1.00	0.10	10	198.95	1.61	1.89	11.98	15.48
				62	53				1661.37	100.00	99.99	100.02	300.01

Maturity index = 44.17 Continuum index = 1878

Table. 68. Loc.68. Chakkamtharissu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	**Mitragyna parvifolia**	40	**0.02**	7	6	1.17	0.70	60	127.42	8.14	8.00	6.62	22.76
2	**Mallotus philippensis**	20	**0.02**	5	5	1.00	0.50	50	31.75	5.81	6 67	1 6 5	14.13
3	**Artocarpus hirsutus**	38	**0.03**	**5**	4	1.25	0.50	40	114.92	5.81	5.33	5.97	17.11
4	**Terminalia crenulata**	45	0.02	7	6	**1** 17	0.70	60	161.43	8.14	8.00	8.38	24.52
5	**Xylia xylocarpa**	40	0.02	12	8	1 5 0	1.20	80	127.42	13.95	10.67	6 62	31.54
6	**Dillenia pentagyna**	38	0.01	7	7	1.00	**0.70**	**70**	114.92	8.14	9.33	5.97	33.44
7	**Lannea coromandelica**	**40**	**0** 02	5	5	1.00	0.50	50	127 42	**5.81**	6.67	6 62	19.10
8	**Garuga pinnata**	35	**0.03**	**3**	3	1.00	0.30	30	97.40	3 49	4 00	5.06	12.55
9	**Lagerstroemia microcarpa**	48	**0.03**	**4**	4	1.00	0.40	40	183.28	4.65	5.33	9.52	19.50
10	**Zizyphus xylopyrus**	15	0.03	7	**5**	1 4 0	*0.70*	50	17.93	8.14	6 67	0 93	15.74
11	**Bombax malabaricum**	**30**	**0.03**	**3**	**3**	1.00	0.30	30	71.75	3.49	4.00	3.72	11.21
12	**Alstonia scholaris**	45	0.10	**1**	**1**	1.00	0.10	10	97.40	1.16	1.33	5.06	7.55
13	**Emblica officinalis**	**50**	0.02	6	6	2.00	0.60	60	198 95	6.98	8.00	10.33	'25.31
14	**Albizia procera**	40	**0** 05	2	2	1.00	0.20	***20***	127 42	2.33	2.67	6.62	11.62
15	**Cordia dichotoma**	**30**	0.05	2	2	. 1.00	0 20	**20**	71.75	**2.33**	2.67	3.72	9.72
16	**Tectona grandis**	48	0.02	9	7	1.29,	0.90	**70**	183 .28	10.47	9.33	Y.52	29.32
17	**Careya arborea**	30	0.10	**1**	**1**	1.00	0.10	10	71-75	1.16	1.33	3.72	6.21
				86	75				1926.19	100.00	100.00	100.03	300.03

Maturity index = 45.88 **Continuum index = 1616**

Table **69.** Loc.**69.** Mattinmukal

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Careya arborea	30	0 10	1	1	1.00	0.10	10	71.75	2.94	3.45	7.92	14.31
2	Terminalia crenulata	50	0.03	5	4	1.25	0.50	40	198.95	14.71	13 79	21.96	50.46
3	Lagerstroemia microcarpa	45	0.02	8	7	1.14	0 80	70	161.43	23.53	24.14	17.82	65 49
4	Xylia xylocarpa	40	0.02	8	6	1.33	0.80	60	127.42	23.53	20.69	14.06	58.28
5	Grewia tiliifolia	38	0.04	4	3	1.33	0.40	30	114.92	11.76	10.34	12.68	34.78
6	Wrightia tinctoria	28	0 03	4	4	1.00	0.40	40	62.45	11.76	13.79	6.89	32 44
7	Bridelia squamosa	30	0.05	2	2	1.00	0.20	20	71.75	5.88	6 90	7 52	20.70
8	Bombax malabaricum	35	0.05	2	2	1.00	0.20	20	97.40	5.88	6.90	10.75	23.53
				34	29				906.07	99.99	100.00	100.00	299.99

Maturity index = **36.25** Continuum index = **1990**

Table **70.** Loc.70. Mutharakundu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Sterculia urens	40	0.05	2	2	1.00	0.20	20	127.42	4.55	5.26	11.27	21.08
2	Lannea coromandelica	40	0.02	11	8	1.38	0.10	80	127.42	25 00	21.05	11.27	57.32
3	Tectona grandis	48	0.02	6	6	1.00	0.60	60	183.28	13.64	15.79	16.21	45.64
4	Xylia xylocarpa	45	0.03	4	4	1.00	0.40	40	161.43	9.09	10.53	14.28	33.90
5	Dalbergia latifolia	40	0 10	1	1	1.00	0.10	10	127.42	2.27	2.63	11.27	16.17
6	Albizia procera	38	0.02	8	7	1.14	0.80	70	114.92	18.18	18.42	10.16	46.76
7	Haldina cordifoliq	45	0 03	4	4	1.00	0.40	40	161.43	9.09	10.53	14.25	33.90
8	Lagerstroemia microcarpa	40	0.02	8	6	1.33	0.80	60	127.42	18.18	15.79	11.27	45.24
				44	38				1130.74	100.00	100.00	100.01	300.01

Maturity index = **47.50** Continuum index = **2072**

Table 71. L o c 71. Chakkamtharissukulampu

SI. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Lannea coromandelica	45	0.03	4	4	1.00	0.40	40	114.92	13.33	14.81	13.62	41.76
2	Tectona grandis	48	0.02	5	5	1.00	0.50	50	183.28	16.67	18.52	21.72	56.91
3	Sterculia urens	40	0.03	3	3	1.00	0.30	30	127.42	10.00	11.11	15.10	36.21
4	Dillenia pentagyna	45	0.02	8	7	1.14	0.70	70	161.43	26.67	25.93	19.13	71 73
5	Lagerstroemia microcarpa	40	0.03	3	3	1.00	0.30	30	127.42	10.00	11.11	15.10	36.21
6	Albizia procera	40	0.01	1	1	1.00	0.10	10	127.42	3.33	3.70	15.10	22.13
7	Zizyphus xylopyrus	05	0.04	6	4	1.50	0.60	40	2.01	20.00	14.81	0.24	35.05
				30	27				843.90	100.00	99.99	100.01	300.00

Maturity index = 38.57 **Continuum index = 1627**

Table. 72. Loc.72. Pathrakallu

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ. Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	45	0.02	12	7	1.21	1.20	70	161.43	11.76	8.43	2.93	23.12
2	Macaranga peltata	55	0.05	2	2	1.00	0.20	20	240.96	1.96	2.41	4.38	8.75
3	Grewia tiliifolia	40	0.04	6	4	1.50	0.60	40	127.42	5.88	4 82	2.32	13 02
4	Lagerstroemia microcarpa	40	0.03	3	3	1.00	0.30	30	127.42	2.94	3.61	2.32	8.87
5	Mitragyna parvifolia	38	0.05	2	2	1.00	0.20	20	114.92	1.96	2.41	2.09	6 46
6	Lannea coromandelica	40	0.03	3	3	1.00	0.30	30	127.42	2.94	3.61	2.32	8 87
7	Bombax malabaricum	40	0.03	3	3	1.00	0.30	30	127.42	2.94	3.61	2.32	8.87
8	Terminalia crenulata	65	0.02	7	6	1.17	0.70	GO	336.36	6.86	7.23	6.11	20.20
9	Sterculia urens	40	0.10	1	1	1.00	0.10	10	127.42	0.98	1.20	2.32	4.50
10	Sterculia guttata	55	0.05	2	2	1.00	0 20	20	240.96	1.96	2 41	4 38	8.75
11	Xylia xylocarpa	45	0.02	11	7	1.57	1.10	70	161 41	10.78	8.43	2.93	22.14
12	Haldina cordifolia	70	0.05	2	2	1.00	0.20	20	390.36	1.96	2.41	7 09	11.46
13	Bridelia squamosa	38	0.20	2	1	2.00	0.20	10	114.92	1.96	1.20	2.09	5 25
14	Cordia dichotoma	30	0.10	1	1	1.00	0.10	10	71.75	0.98	1.20	1.30	3.48
15	Acacia intsia	18	0.05	2	2	1.00	0.20	20	25.87	1.96	2.41	0.47	4.84
16	Butea superba	15	0.05	2	2	1.00	0.20	20	17.93	1.96	2.41	0.33	4.70
17	Aprusa lindleyana	25	0.03	3	3	1 00	0.30	30	49.74	2.94	3.61	0.90	7 45
18	Lagerstroemia sp.	45	0.04	4	3	133	0.40	30	161.43	3.92	3.61	2.93	10.46
19	Strychonus nux-vomica	40	0.05	2	2	1.00	0.20	20	127.42	1.96	2 41	2.32	6.69
20	Holarrhena antidysenterica	15	0.10	1	1	1.00	0.10	10	17.93	0.98	1.20	0.33	2.51
21	Buchanania lanzan	35	0.10	1	1	1.00	0.10	10	97.40	0.98	1.20	1 77	3.95
22	Albizia procera	48	0.03	3	3	1.00	0.36	30	183.28	2.94	3.61	3.33	9 88
23	Morinda tinctoria	30	0.10	1	1	1.00	0.10	10	71.74	0.98	1.20	1.30	3.48
24	Helicteres isora	10	0.03	10	6	1.67	1.00	60	7.94	9.80	7.23	0.14	17.17
25	Terminalia bellirica	105	0.02	6	5	1.20	0.60	50	877.82	5.88	6.02	15.95	27.85
26	Wrightia tinctoria	30	0.03	4	4	1.00	0.40	40	71.75	3.92	4.82	1.30	10.04
27	Artocarpus sp.	60	0.05	2	2	1.00	0.20	20	286.37	1.96	2.41	5.20	9.57
28	Limonia acidissima	30	0.05	2	2	1.00	0.20	20	71.75	1.96	2.41	1.30	5.67
29	Ficus benghalensis	110	0.05	2	2	1.00	0.20	20	963.82	1.96	2.41	17.52	21.89
				102	83				5922.36	100.03	99.99	100.01	300.03

Maturity index = 30.00 **Continuum index = 1304**

Table. 73. L o c .73. Velankodukunnu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	**Albizia procera**	45	0.10	1	1	1.00	0.10	10	161.43	1.56	1.85	10.44	13.85
2	**Helecteres isora**	10	0.02	9	7	1.29	0.90	70	7.94	14.06	12.96	10 51	27.53
3	**Acacia intsia**	15	0.05	2	2	1.00	0.20	20	17.93	3.13	3.70	1.16	7.99
4	**Grewia tiliifolia**	45	0.03	4	4	1,00	0.40	40	161 43	6.25	7.41	10.44	24.10
5	**Aporusa lindleyana**	25	0 10	4	2	2.00	0.40	20	49.74	6.25	3.70	3 22	13.17
6	**Dillenia pentagyna**	35	F.02	8	6	1.33	0.80	60	97.40	12.50	11.11	6 30	29.91
7	**Xylia xylocarpa**	40	0.02	8	6	1 38	0.80	60	127.42	12.50	11.11	8.24	31.85
8	**Lagerstroemia microcarpa**	3 0	0.02	5	5	1.00	0.50	50	71.75	7.81	9.26	4.64	21.71
9	**Wrightia tinctoria**	30	0.05	2	2	1.00	0.20	20	71.75	3.13	3.70	4.64	11.47
10	**Morinda tinctoria**	25	0.05	2	2	1.00	0.20	20	49.74	3.13	3.70	3.22	10.05
11	**Bridelia squamosa**	40	0.10	1	1	1.00	0.10	10	127.42	1.56	1.85	8.24	11.65
12	**Butea superba**	15	0.03	3	3	1.00	0.30	30	17.93	4.69	5.56	1.16	11.41
13	**Terminalia crenulata**	48	0.03	5	4	1.25	0.50	40	183.28	7.81	7.41	11.86	27.08
14	**Careya arborea**	30	0.10	1	1	1.00	0.10	10	71.75	1.56	1.85	4.61	8.05
15	**Zizyphus xylopyrus**	15	0.03	4	4	1.00	0.40	40	17 93	6.25	7.41	1.16	14.82
16	**Dalbergia Iatifolia**	48	0.03	3	3	1.00	0.40	30	183.28	4.69	5.56	11.86	22.11
17	**Gmelina arborea**	40	0.20	2	1	2.00	0.20	10	127.42	3 13	1.85	8.24	13.22
				64	54				1545.54	100.01	99 99	99.97	299.97

Maturity index = 31.76 Continuum index = 1996

Table 74. L o c .74. Kodivalappu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Strychonus nux-vomica	40	0.05	2	2	1.00	0.20	20	127.42	5.13	5.71	9.91	20.75
2	Careya arborea	40	0.10	1	1	1.00	0.10	10	127.42	2.56	2.86	9.91	15.33
3	Grewia tiliifolia	45	0.03	3	3	1.00	0.30	30	161.43	7.69	8.57	12.56	28.82
4	Dillenia pentagyna	50	0.02	9	7	1.29	0.90	70	198.95	23.08	20.00	15.48	58.56
5	Cordia dichotoma	30	0.03	4	4	1.00	0.40	40	71.75	10.26	11.43	5.58	27.27
6	Bombax malabaricum	35	0.03	4	4	1.00	0.40	40	97.40	10.26	11.43	7.58	29.27
7	Mitragyna parvifolia	38	0.03	4	4	1.00	0.40	40	114.92	10.26	11.43	8.94	30.63
8	Terminalia crenulata	55	0.02	5	5	1.00	0.50	50	240.96	12.82	14.29	18.74	45.85
9	Albizia procera	40	0.06	5	3	1.67	0.50	30	127.42	12.82	8.57	9.91	31.30
10	Butea superba	15	0.05	2	2	1.00	0.20	20	17.93	15.13	5.71	1.39	12.23
				39	35				1285.60	100.01	100.00	100.00	300.01

Maturity index = 35.00 Continuum index = 1565

Table 75. Loc.75. Anakuzhi

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Tectona grandis	45	0.10	1	1	1.00	0.10	10	161.43	1.67	1.79	7.30	10.76
2	Butea superba	13	0.05	2	2	1.00	0.20	20	25.87	3.33	3.57	1.17	8.07
3	Cassia fistula	30	0.03	3	3	1.00	0.30	30	71.75	5.00	5.36	3.25	13.61
4	Xylia xylocarpa	38	0.02	8	6	1.33	0.80	60	114.92	13.33	10.71	5.20	29.24
5	Lagerstromia microcarpa	50	0.03	4	4	1.00	0.40	40	198.95	6.61	7.14	9.00	22.81
6	Lannea coromandelica	40	0.03	4	4	1.00	0.40	40	127.42	6.67	7.14	5.76	19.57
7	Wrightia tinctoria	35	0.03	3	3	1.00	0.30	30	97.40	5.00	5.36	4.41	14.77
8	Limonia acidissima	20	0.05	2	2	1.00	0.20	20	31.75	3.33	3.57	1.44	8.37
9	Securinega virosa	15	0.10	1	1	1.00	0.10	10	17.93	1.67	1.79	0.81	4.27
10	Acacia intsia	15	0.05	2	2	1.00	0.20	20	17.93	3.33	3.57	0.81	7.17
11	Zizyphus xylopyrus	15	0.03	3	3	1.00	0.30	30	17.93	5.00	5.36	0.81	11.17
12	Griwia tiliifolia	45	G.03	4	4	1.00	0.40	40	161.43	6.67	7.14	7.30	21.11
13	Emblica officinalis	40	0.05	2	2	1.00	0.20	20	127.42	3.33	3.57	5.76	12.66
14	Bridelia squamosa	38	0.10	1	1	1.00	0.10	10	114.92	1.67	1.79	5.20	8.66
15	Cycas sp.	30	0.05	2	2	1.00	0.20	20	71.75	3.33	3.57	3.25	10.15
16	Schleichera oleosa	35	0.05	2	2	1.00	0.10	2 0	97.40	3.33	3.57	4.21	11.80
17	Artocarpus sp.	40	0.10	1	1	1.00	0.10	10	127.42	1.67	1.79	5.76	9.22
18	Meyna laxiflora	20	0.03	3	3	1.00	0.30	30	31 75	5.00	5.36	1.44	11.80
19	Mitragyna parvifolia	38	0.02	6	5	1.20	0.60	50	114.92	10.00	8.93	5.20	24.13
20	Mallotus philippensis	30	0.05	2	2	1.00	0.20	20	71.75	3.33	3.57	3.25	10.15
21	Holarrhena antidysenterica	15	0.05	2	2	1.00	0.20	20	17.93	3.33	3.57	0.81	7.17
22	Melia composita	70	0.20	2	1	2.00	0.20	10	390.36	3.33	1.79	17.66	22.78
				60	56				2210.33	99.99	100.01	100.00	300.00

Maturity index -- 25.45 Continuum index = 1443

Table. 76. L o c 76. Malapara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	48	0.05	2	2	1.00	0.20	20	183.28	3.23	3.45	11.58	18.26
2	Grewia tiliifolia	40	0.02	10	8	1.25	1.00	80	127.42	16.13	13.79	8.05	37.97
3	Butea superba	18	0.03	3	3	1.00	0.30	30	25.87	4.84	5.17	1.63	11.64
4	Acacia intsia	15	0.05	2	2	1.00	0.20	20	17.93	3.23	3.45	1.13	7.81
5	Haldina cordifolia	40	0.03	3	3	1.00	0.20	30	127.42	4.84	5.17	8.05	18.06
6	Xylia xylocarpa	40	0.02	9	7	1.29	0.30	70	127.42	14.52	12.07	8.05	34.64
7	Securinega virosa	15	0.03	3	3	1 . 00	0.90	30	17.93	4.84	5.17	1.13	11.14
8	Gardenia turgida	18	0.03	4	4	1.00	0.30	40	25.87	6.45	6.90	1.63	14.98
9	Dillenia pentagyna	50	0.02	6	6	1.00	0.40	60	198.95	9.68	10.34	12.57	32.59
10	Zizyphus xylopyrus	15	0.02	5	5	1.00	0.60	50	17.93	8.06	8.62	1.13	17.81
11	Lannea coromandelica	40	0.03	3	3	1.00	0.50	30	127.42	4.84	5.17	8.05	18.36
12	Bombax malabaricum	40	0.05	2	2	1.00	0.30	20	127.42	3.23	3.45	8.05	14.73
13	Cycas sp.	35	0.03	3	3	1.00	0.20	30	97.40	4.84	5.17	6.15	16.16
14	Careya arborea	30	0.02	2	2	1.00	0.30	20	71.75	2.23	3.45	4.53	11.21
15	Gmelina arborea	45	0.10	1	1	1.00	0.10	10	161.43	1.61	1.72	10 20	13.53
16	Emblica officinalis	40	0.03	4	4	1.00	0.40	40	127.42	6.45	6.90	8.05	21.40
				62	58				1582.86	100.02	99.99	99.98	299.99

Maturity index = 36.25 **Continuum index = 1619**

Table. 77. L o c .77. Poolemvellam

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Mitragyna parvifolia	40	0.02	5	5	1.00	0.50	50	127.42	9.43	10.20	12.76	32.39
2	Limonia acidissima	20	0.10	1	1	1.00	0.10	13	31.75	1.89	2.04	3.18	7.11
3	Xylia xylocarpa	38	0.02	9	7	1.29	0.90	70	114.92	36.98	14.29	11.50	42.77
4	Erythrina stricta	40	0.02	5	5	1.00	0.50	50	127.42	9.13	10.20	12.76	32.39
5	Wrightia tinctoria	30	0.03	3	3	1.00	0.30	30	71.75	5.66	6.12	7.18	18.96
6	Grewia tiliifolia	35	0.02	5	5	1.00	0.50	50	97.40	9.43	10.20	9.75	29.38
7	Acacia intsia	18	0.03	3	3	1.00	0.30	30	25.87	5.66	6.12	2.59	14.37
8	Lagerstroemia microcarpa	48	0.02	8	7	1.14	0.80	70	183.28	15.09	14.29	18.35	47.37
9	Lannea coromandelica	40	0.03	4	4	1.00	0.40	40	137.42	7.55	8.16	12.76	28.47
10	Ficus hispida	30	0.10	1	1	1.00	0.10	10	71.75	1.89	2.04	7.18	11.11
11	Butea superba	15	0.03	4	4	1.00	0.40	40	17.93	7.55	8.16	1.79	17.50
12	Zizyphus xylopyrus	05	0.03	5	4	1.25	0.50	40	2.01	9.43	8.16	0.20	17.29
				53	49				998.92	99.99	99.98	100.00	299.97

Maturity index = 40.83 **Continuum index = 1883**

Table. **78.** Loc.78. Vattachattom climb

Sl. No.	Name of species	Av.Gth.	Ab/F	No,Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Mitragyna parvifolia	38	0.02	6	5	1.20	0.60	50	114.92	15.79	14.71	12.13	**42.63**
2	Holarrhena antidysenterica	15	0.02	5	5	1.00	0.50	50	17.93	13.16	14.71	1.89	29 76
3	TerminaIia crenulata	45	0.05	2	2	1.00	0 23	20	161 43	5.26	5.88	17.04	28.18
4	Zizyphus xylopyrus	15	0.04	6	4	1.50	0.60	40	17.93	15.79	11.76	1.89	29.44
5	Cassia fistula	28	0 03	3	3	1.00	0.30	30	62.45	7.89	8.82	6 59	23.30
6	Cycas sp.	30	0.05	a	2	1.00	0.20	20	71.75	5.26	5.88	7.57	18.17
7	Ficus hispida	31	0.10	1	1	1.00	0.10	10	71.75	2.63	2.94	7.57	13.41
8	Mallotus philippensis	38	0.10	1	1	1.00	0.10	10	114.92	2.63	2.94	12.13	17.70
9	Wrightia tinctoria	35	0.03	3	3	**1.00**	0.30	30	97.40	7.89	8.82	10.28	26.99
10	Acacia intsia	18	0.05	2	2	1.00	0.20	20	25.87	5.26	5.88	2.73	13.87
11	Sterculia urens	48	0.10	1	1	1.00	0.10	10	183.28	2.63	2.94	19.34	24.91
12	Helicteres isora	10	0.02	6	5	1.20	0.50	50	7.94	15.79	14.71	0.84	31.34
				38	34				947.57	99 98	99.99	100.00	299.97

Maturity index = **28.33** Continuum index = 1526

Table 79. Loc 79. Vattachattom

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	% F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	45	0.03	7	5	1.40	0.70	50	161.43	21.21	16.67	11.67	94.55
2	Limonia acidissima	20	0.03	3	3	1.00	0.30	30	31.75	9.09	10.00	2.30	21.39
3	Hydnocarpus pentandra	48	0.10	1	1	1.00	0.10	10	183.28	3.03	3.33	13.25	19.61
4	Meyna laxiflora	25	0.10	1	1	1.GO	0.10	10	49.74	3.03	3.33	3.60	9.96
5	Xylia xylocarpa	38	0.03	3	3	1.00	0.30	30	114.92	9.09	10.03	8.31	27.40
6	Lannea coromandelica	35	0.04	4	3	1.33	0.40	30	97.40	12.12	10.00	7.04	29.16
7	Haldina cordifolia	45	0.03	3	2	1.00	0.30	30	161.43	9.09	10.00	11.67	30.76
8	Bombax malabaricum	35	0.05	2	2	1.00	0.20	30	71.75	6.06	6.67	5.19	17.62
9	Terminalia beliirica	30	0.03	4	4	1.00	0.40	40	286.37	12.12	13.33	20.71	46.16
10	Butea superba	18	0.50	2	2	1.00	0.20	20	25.87	6.06	6.67	1.87	14.60
11	Macaranga peltata	50	0.03	3	3	1.00	0.30	30	198.95	9.09	10.00	14.39	33.48
				33	29				1382.89	99.99	100.00	100.00	299.99

Maturity index = 27.27 Continuum index = 1825

Table. 80. Loc.80. Chakuttiparutha

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Ficus hispida	30	0.10	1	1	1.00	0.10	10	71.75	1.22	1.49	2.65	5.36
2	Saragacea delzellii	35	0.05	2	2	1.00	0.20	20,	97.40	2.44	2.99	3.60	9.03
3	Albizia procera	38	0.10	1	1	1.00	0.10	10	114 92	1.22	1.49	4.24	6.95
4	Lannea coromandelica	40	0.02	10	7	1.43	1.00	70	127.42	12.20	10.45	4.71	27.36
5	Tectona grandis	45	0.03	7	5	1.40	0.70	50	161 43	8.54	7.46	5.96	21.96
6	Dillenia pentagyna	50	0.02	5	5	1.00	0.50	50	198.95	6.10	7.46	7.35	20.91
7	Bambusa sp.	15	0.03	3	3	1.00	0.33	30	17.93	3.66	4.48	0.66	8.80
8	Acacia intsia	15	0.08	3	2	1.50	0.30	20	17.93	3.66	2.99	0.66	7.31
9	Wrightia tinctoria	30	0.05	2	2	1.00	0.20	20	71.75	2.44	2.99	2.65	8.08
10	Helicteres isora	10	0.04	10	5	2.00	1.00	50	7.94	12.20	7.46	0.29	19.95
11	Butea superba	15	0.04	2	2	1.00	0.20	20	17.93	2.44	2.99	0.66	6 09
12	Grewia tiliifolia	38	0.02	6	5	1.20	0.60	50	114.92	7.32	7.46	4.24	19.02
13	Bridelia squamosa	38	0.10	1	1	1.00	0.10	10	114.92	1.22	1.49	4.24	6 95
14	Lagerstroemia microcarpa	45	0.02	5	5	1.00	0.50	50	161.43	6.10	7.46	5.96	19.52
15	Xylia xylocarpa	40	0.02	8	6	1.33	0.80	60	127 42	9.76	8.96	4.71	23.43
16	Cycas sp.	35	0.02	6	5	1.20	0.60	50	97.40	7.32	7.46	3.60	18.38
17	Ficus benghalensis	100	0.03	3	3	1.00	0.30	30	795.83	3.66	4.48	29.39	37.53
18	Terminalia crenulata	70	0.01	7	7	1.00	0.70	70	390.36	8.54	10.45	14.42	33.41
				82	67				2707.63	100.04	100.01	99.99	800.04

Maturity index = 37.22

Continuum index = 1818

Table 81. Loc.81. Melillam

Sl. No.	Name of species	Av,Gth.	Ab/F	No.SpS.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia Xylocarpa	38	0.02	7	6	1.17	0.70	60	114.92	7.87	8.82	5.57	22.26
2	Tectona grandis	45	0.03	4	4	1.00	0.40	40	161.43	4 49	5.88	7.82	18.19
3	Dillenia pentagyna	40	0.02	6	5	1.20	0.60	50	127.42	6.74	7.35	6.18	20.27
4	Acacia intsia	18	0 03	3	3	1.00	0.30	30	25.87	3.37	4.41	1.25	9.03
5	Grewia tiliifolia	38	0 02	11	7	1.57	1.10	70	114.92	12.36	10.29	5.57	28.22
6	Bombax malabaricum	30	0 03	3	3	1.00	0.30	30	71.75	3.37	4.41	3.48	11.26
7	Lagerstroemia microcarpa	43	0 03	10	6	1.67	1.00	60	183.28	i1.24	8.82	8.88	28.94
8	Helicteres isora	10	0.04	13	6	1.17	1.30	60	7.94	14.61	8.82	0 38	23.81
9	Albizia procera	40	0.10	1	1	1.00	0.10	10	127.42	1.12	1.47	6.18	8.77
10	Butea superba	15	0.03	3	3	1.00	0.30	30	17.93	3.37	4.41	0.87	8 65
11	Emblica officinalis	45	0.10	1	1	1.00	0.10	10	161.43	1.12	1.47	7 a2	10.41
12	Terminalia crenulata	48	0.02	8	6	1.33	0.80	60	183.28	8.99	8.82	8.88	26.67
13	Mitragyna parvifolia	38	0.05	2	2	1.00	0.20	20	114.92	2.25	2.94	5.57	10.79
14	Cycas sp.	35	0.10	1	1	1.00	0.10	10	97.40	9.80	1.47	4.72	7.36
15	Boswellia serrata	40	0.08	3	2	1.50	0.30	20	127.42	5.88	2.94	6.18	12.41
16	Mallotus philippensis	30	0.05	2	2	1.00	0.20	20	71.75	3.92	2.94	3.49	8.69
17	Terminalia bellirica	65	0.02	6	6	1.00	0.60	60	336.36	1.96	8.82	16.30	31.86
18	Holarrhena antidysenterica	30	0.03	5	4	1.25	0.50	40	17.93	1.96	5.88	0.87	12.37
				89	68				2063.37	100.00	99.96	100.00	299.96

Maturity index = 37.78 **Continuum index = 1630**

Table. 82. Loc.82. Mekkulammukku

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Emblica officinalis	45	0.05	2	2	1.00	0.20	20	161.43	3.08	3.51	7.18	13.77
2	Wrightia tinctoria	30	0.06	5	3	1.67	0.50	30	71.75	7.69	5.26	3.19	16.14
3	Bambusa sp.	15	0.03	3	3	1.00	0.30	30	17.93	4.62	5.26	0.80	10.68
4	Securinega virosa	10	0.04	4	3	1.33	0.40	30	7.94	6.15	6.26	0.35	11.76
5	Albizia procera	45	0.05	2	2	1.00	0.20	20	161.43	3.08	3.51	7.18	13.77
6	Steriospermum colais	48	0.10	1	1	1.00	0.10	10	183.28	1.54	1.75	8.16	11.45
7	Bombax malabaricum	40	0.02	5	5	1.00	0.50	50	127.42	7.69	8.77	5.67	22.13
8	Alstonia scholaris	38	0.05	2	2	1.00	0.20	20	114.9'2	3.08	3.51	5.11	11.70
9	Strychnos nux-vomica	30	0.04	4	3	1.33	0.40	30	71.75	6.15	5.26	3.19	14.60
10	Gmelina arborea	40	0.03	4	4	1.00	0.40	40	127.42	6.15	7.02	5.67	18.84
11	Terminalia crenulata	55	0.02	10	7	1.43	1.00	70	240.96	15.38	12 28	10.72	38.38
12	Dillenia pentagyna	50	0.02	6	5	1.20	0.60	50	198.95	9.23	8.77	8.85	26.85
13	Terminalia bellirica	60	0.03	3	3	1.00	0.30	30	286.37	4.62	15.26	12.74	22.62
14	Xylia xylocarpa	40	0.03	4	4	1.00	0.40	40	127.42	6.15	7.02	5.67	18.84
15	Grewia tiliifolia	45	0.03	4	4	1.00	0.40	40	161.43	6.15	7.02	7.18	20.35
16	Lagerstroemia microcarpa	38	0.03	4	4	1.00	0.40	40	114.92	6.15	7.02	5.11	18.28
17	Cycas sp.	30	0.05	2	2	1.00	0.20	20	71.75	3.08	3.51	3.19	9.78
				65	57				2247.07	99.99	99.99	99.96	299.94

Maturity index = 33.53 **Continuum index = 1208**

Table 83. L o c 83. Poovanchira

Sl. No.	Name of species	Av.Gth.	Ab/F	NoSps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	45	0.03	9	6	1.50	0.90	60	161.13	22.50	17.65	22.26	62.41
2	Terminalia crenulata	40	0.02	5	5	1.00	0.50	50	127.42	12.50	14.71	17.57	44.78
3	Bombax malabaricum	3 0	0.03	4	4	1.00	0.40	40	71.75	10.00	11.76	9.90	13.66
4	Grewia tiliifolia	38	0.02	8	7	1.14	0.80	70	114.92	20.00	20.59	15.85	56.44
5	Wrightia tinctoria	28	0.02	5	5	1.00	0.50	50	62.45	12.00	14.71	8.61	35.82
6	Butea superba	15	0.02	6	5	1.20	0.60	50	17.93	15.00	14.71	2.47	32.18
7	Xylia xylocarpa	30	0.20	2	1	2.00	0.20	10	71.75	5.00	2.94	9.90	17.84
8	Albizia procera	35	0.10	1	1	1.00	0.10	10	97.40	2.50	2.94	13.43	18.87
				40	34				725.05	100.00	100.01	99.99	300.00

Maturity index = 42.50 **Continuum index = 1973**

Table 84. Loc 84. Vellani

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	55	0.02	8	7	1.14	0.80	70	240.96	10.26	13.21	12.14	35.16
2	Lagerstroemia microcarpa	50	0.01	9	8	1.13	0.90	80	198.95	11.54	15.09	10.02	36.65
3	Wrightia tinctoria	35	0.02	5	5	1.00	0.50	50	97.40	6.41	9.43	4.91	20.75
4	Holarrhena antidysenterica	20	0.04	4	3	1.33	0.40	30	31.75	5.13	5.66	1.60	12.39
5	Bombax malabaricum	45	0.03	3	3	1.00	0.30	30	161.43	3.85	5.66	8.13	17.64
6	Acacia intsia	15	0.03	3	3	1.00	0.30	30	17.93	3.85	5.66	0.90	10.41
7	Boswellia serrata	42	0.03	3	3	1.00	0.30	30	140.55	3.85	5.66	7.08	16.59
8	Terminalia crenulata	46	0.02	8	6	1.33	0.80	60	168.24	10.26	11.32	8.47	30.05
9	Lannea coromandelica	48	0.02	6	5	1.20	0.60	50	183.28	7.69	9.43	9.23	26.35
10	Terminalia bellirica	95	0.05	2	2	1.00	0.20	20	718.81	2.56	3.77	36.21	42.54
11	Helecteres isora	15	0.07	24	6	4.00	0.40	60	17.93	30.77	11.32	0.90	42.99
12	Dioscorea alata	10	0.08	3	2	1.50	0.30	20	7.94	3.85	3.77	0.40	8.02
				78	53				1985.17	100.02	99.98	99.99	299.99

Maturity index = 44.17 Continuum index = 1938

Table 85. L o c .85. Garbakundu

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd.0cc.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Grewia tiliifolia	40	0.02	6	5	1.20	0.60	50	127.42	15.00	13.51	10.55	39.06
2	Ficus hispida	30	0.03	4	4	1.00	0.40	40	71.75	10.00	10.81	5.94	26.75
3	Xylia xylocarpa	45	0.03	4	4	1.00	0.40	40	161.43	10.00	10.81	13.36	34.17
4	Mitragyna parvifolia	50	0.03	3	3	1.00	0.30	30	198.95	7.50	8.11	16.47	32.08
5	Bombax malabaricum	40	0.02	5	5	1.00	0.50	50	127.42	12.50	13.51	10.55	36.56
6	Butea superba	15	0.03	3	3	1.00	0.30	30	17.93	7.50	8.11	1.48	17.09
7	Wrightia tinctoria	25	0.03	5	4	1.25	0.50	40	17.93	12.50	10.81	1.48	24.79
8	Terminalia crenulata	60	0.02	7	6	1.17	0.70	60	286.37	17.50	16.22	23.70	57.49
9	Dillenia pentagyna	50	0.03	3	3	1.00	0.30	30	198.95	7.50	8.11	16.47	32.08
				40	37				1208.15	100.00	100.00	100.00	300.00

Maturity index = 41.11 Continuum index= 1565

Table *86*. Loc. *86*. Pullamkandam

S! . No.	Nameof species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	50	0.02	7	6	1.17	0.70	60	198 95	9.46	10.53	12.46	32.45
2	Dillenia pentagyna	38	0.02	9	7	1.29	0.90	70	114.92	12.16	12.28	7.20	31.64
3	Xylia xylocarpa	39	0.02	9	7	1.29	0.90	70	121.08	12.16	12.28	7.59	32.03
4	Lannea coromandelica	40	0.03	3	3	1.00	0.30	30	127.42	4.05	5.26	7.98	17.29
5	Grewia tiliifolia	50	0.02	10	7	1.43	1.00	70	198.95	13.51	12.28	13.48	38.25
6	Wrightia tinctoria	28	0.02	5	5	1.00	0.50	50	62.45	6.76	8.77	3.91	19.44
7	Acacia intsia	15	0.04	4	3	1.33	0.40	30	17.93	5.41	5.26	1.12	11.79
8	Butea superba	20	0.03	3	3	1.00	0.30	30	31.75	4.05	5.26	1.99	11.30
9	Terminalia crenulata	65	0.02	6	5	1.20	0.60	50	336.36	8.11	8.77	21.07	37.95
10	Helicteres isora	15	0.03	13	7	1.86	1.30	70	17.93	17.57	12.28	1.12	30.97
11	Bombax malabaricunm	55	0.10	1	1	1.00	1.00	10	240.96	1.35	1.75	15.10	18.20
12	Meyna laxiflora	40	4.04	4	3	1.33	0.40	30	127.42	5.41	5.26	7.98	18.65
				74	57				1596.12	100.00	99.98	99.98	299.96

Maturity index = 47.50 **Continuum index = 1923**

Table. 87. L o c 87. Garabha

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Emblica officinalis	38	0.03	3	3	1.00	0.30	30	114.92	5.56	6.82	6.21	18.59
2	Mitragyna parvifolia	30	0.02	7	6	1.17	0.70	60	71.75	12.96	13.64	3.88	30.48
3	Grewia tiliifolia	30	0.02	7	6	1.17	0.70	60	71.75	12.96	13.64	3.88	30.48
4	Melia composita	115	0.10	1	1	1.00	0.10	10	1052.72	1.85	2.27	56.88	61.00
5	Bridelia squamosa	40	0.10	1	1	1.00	0.10	10	127.42	1.85	2.27	6.89	11.01
6	Acacia intsia	15	0.03	9	6	1.50	0.90	10	17.93	16.67	13.64	0.97	31.28
7	Bombax malabaricum	40	0.02	5	5	1.00	0.53	50	127.42	9.26	11.36	6.89	27.51
8	Tectona grandis	45	0.02	12	8	1.50	1.20	80	161 43	22.22	18.18	8.72	49.12
9	Cassis fistula	35	0.03	3	3	1.00	0.30	30	97.40	5.56	6 82	5.26	17.94
10	Zizyphus xylopyrus	10	0.02	6	5	1.20	0.60	50	7.99	11.11	11.36	0.43	22.90
				54	44				1850.68	100.00	100.00	100.01	300.01

Maturity index = 44.00 Continuum index = 1665

Table. 88. L o c 88. Nayadimukku

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	40	0.02	6	6	1.00	0.60	60	127.42	10.00	12.77	9.48	32.25
2	Butea superba	20	0.03	4	4	1.00	0.40	40	31.75	6.67	8.51	2.36	17.54
3	Terminalia crenulata	40	0.06	7	6	1.17	0.73	60	127.42	11.67	12.77	9.48	33.92
4	Meyna laxiflora	28	0.05	2	2	1.00	0.20	20	62.45	3.33	4.26	4.65	12.24
5	DiIlenia pentagyna	35	0.02	5	5	1.00	0.50	50	97.40	8.33	10.64	7.25	26.22
6	Strychonus nux-vomica	35	0.05	2	2	1.00	0.20	20	97.40	3.33	4.20	7.25	14.84
7	Helicteres isora	10	0.03	16	8	2.00	1.60	80	7.94	26.67	17.02	0.59	44.28
8	Albizia procera	40	0.05	2	2	1.00	0.20	20	127.42	3.33	4.26	9.48	17.07
9	Wrightia tinctoria	35	0.04	4	3	2.33	0.40	30	97 40	6.67	6.38	7.25	20.30
10	Ficus hispida	55	0.20	2	1	2.00	0.20	10	240.96	3.33	2.13	17.93	23.39
11	Lagerstroemia microcarpa	50	0.02	5	5	1.00	0.50	50	138.95	8.33	10.64	14.80	33.77
12	Grewia tiliifolia	40	0.06	5	3	1.67	0.50	30	127.42	8.33	6.38	9.48	24.19
				60	47				1343.93	99 .99	100.02	100.00	300.01

Maturity index = 39.17 Continuum index = 1713

Table 89. Loc 89. Ayinipilavu thadam

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Mallotus phillppenis	25	0.05	2	2	1.00	0.20	20	49.74	4.00	4.44	3.28	11.72
2	Bombax insigne	45	0.02	6	6	1.00	0.60	60	161.43	12.00	13.33	10.65	35.98
3	Erythrina stricta	40	0.05	2	2	1.00	0.20	20	127.42	4.00	4.44	8.40	16.74
4	Dillenia pentagyna	50	0.02	11	7	1.75	0.10	70	198.95	22.00	15.56	13.12	50.68
5	Terminalia bellirica	50	0.02	6	6	1.00	0.60	60	198.95	12.00	13.33	13.12	38.45
6	Mitragyna parvifolia	30	0.03	4	4	1.00	0.40	40	71.75	8.00	8.89	4.73	21.62
7	Xylia xylocarpa	38	0.01	7	7	1.00	0.70	70	114.92	14.00	17.56	7.58	37.14
8	Cycas sp.	40	0.05	2	2	1.00	0.20	20	127.42	4.00	4.44	8.40	16.84
9	Lagerstroemia microcarpa	35	0.03	5	4	1.25	0.50	40	161.43	10.00	8.89	10.65	29.54
10	Trewia nudiflora	60	0.10	1	1	1.00	0.10	10	286 .37	2.00	2.22	18.8%	23.11
11	Acacia intsia	15	0.03	4	4	1.00	0.40	40	17.93	8.00	8.89	1.18	18.07
				50	43				1516.31	100.00	99.99	100.00	299.99

Maturity index = 40.91 Continuum index = 1950

Table 90. Loc 90. Kurangadikunnu

Sl. No.	Name of species	Av.Gth.	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Mitragyna parvifolia	75	0.02	6	5	1.20	0.60	50	447.64	13.04	18.16	33.02	59.22
2	Terminalia crenulata	48	0.10	1	1	1.00	0.10	10	183.28	2.17	2.63	13.52	18.32
3	Mallotus philippensis	28	0.05	2	2	1 00	0.20	20	62.45	4.35	5.26	4.61	14.22
4	Wrightia tinctoria	30	0.04	4	3	1.33	0.40	30	71.75	8.70	7.89	5.29	21.88
5	Grewia tiliifolia	40	0.04	4	3	1.33	0.40	30	127.42	8.70	7.89	9.40	25.99
6.	Terminalia crenulata	45	0.02	7	6	1.17	0.70	60	161.43	15.22	15.79	11.91	42.92
7	Limonia acidissima	20	0.10	1	1	1.00	0.10	10	31.75	2.17	2.63	2.34	7.14
8	Butea superba	20	0.04	4	3	1.33	0.40	30	31.75	8.70	7.89	2.34	18.93
9	Gardenia turgida	10	0.04	7	4	1.75	0.70	40	7.94	15.22	10.53	0.59	26.34
10	Zizyphus xylopyrus	15	0.03	3	3	1.00	0.30	30	17.93	6.52	7.89	1.32	15.73
11	Lannea coromandelica	35	0.03	3	3	1.00	0.30	30	97.40	6.5%	7.89	7.18	21.59
12	Garuga pinnata	38	0.03	4	4	1.00	0.40	40	114.92	8.70	10.53	8.48	27.71
				46	38				1355.66	100.01	99.98	100.00	299.99

Maturity index = 31.67 **Continuum index = 1592**

Table 91. Loc 91. Koonankadu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Grewia tiliifolia	38	0.03	7	5	1.40	0.70	50	114.92	12.28	11.63	10.16	34.07
2	Butea superba	28	0.02	5	5	1.00	0.50	50	62.45	8.77	11.63	5.52	25.92
3	Bombax malabaricum	40	0.03	3	3	1.00	0.30	30	127.42	5.26	6.98	11.27	23.51
4	Xylia Xylocarpa	45	0.03	9	1	1.50	0.90	60	161.43	15.79	13.95	14.27	44.01
5	Helectres isora	10	0.03	14	7	1.00	1.40	70	7.94	24.56	16.28	0.70	41.54
6	Wrightia tinctoria	18	0.05	2	2	1.00	0.20	20	25.87	3.51	4.65	2.29	10.45
7	Terminalia crenulata	45	0.03	3	3	1.00	0.30	30	161.43	5.26	6.98	14.27	26.51
8	Sterculia urens	50	0.05	2	2	1.00	0.20	20	198.95	13.51	4.65	17.59	25.75
9	Lagerstroemia microcarpa	50	0.02	9	7	1.29	0.90	70	198.95	15.79	16.28	17.59	49.60
10	Careya arborea	30	0.03	3	3	1.00	0.30	30	71.75	5.26	6.98	6.34	18.58
				57	43				1131.11	99.99	100.01	100.00	300.00

Maturity index = 43.00 Continuum index = 1963

Table 92. L o c 92. Pokkamparutha

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Terminalia bellirica	70	0.02	11	8	1.38	1.10	80	390.36	18.03	16.67	29.56	64.26
2	Grewia tiliifolia	38	0.02	5	5	1.00	0.50	50	114.92	8.20	10.42	8.70	27.32
3	Tectona grandis	45	0.02	5	5	1.00	0.50	50	161.43	8.20	10.42	12.23	30.87
4	Dillenia pentagyna	50	0.03	4	4	1.00	0.40	40	198.95	6.56	8.33	15.07	29.96
5	Dalbergia latifolia	40	0.03	3	3	1.00	0.30	30	127.42	4.92	6.25	9.65	20.82
6	Xylia xylocarpa	45	0.02	12	8	1.50	1.20	80	161.43	19.67	16.67	12.23	48.57
7	Butea superba	20	0.03	4	4	1.00	0.40	40	31.75	6.56	8.33	2.40	17.29
8	Bombax malabaricum	35	0.08	4	4	1.00	0.40	40	97.40	6.51	8.33	7.38	23.27
9	Limonia acihissima	20	0.05	2	2	1.00	0.20	20	31.75	3.28	4.17	2.40	6.85
10	Zizyphus xylopyrus	0.8	0.04	11	5	2.20	1.10	50	5.07	18.03	10.42	0.38	28.83
				61	48				1320.48	100.01	100.01	100.00	300.02

Maturity index = 48.00 **Continuum index = 1704**

Table. 93. L o c 93. Mankunnu

Sl. NO.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Grewia tiliifolia	35	0.02	6	5	1.20	0.60	50	97.40	15.79	14.29	10.54	40.62
2	Careya arborea	30	0.03	3	3	1.00	0.30	30	71.75	7.89	8.57	7.77	24.23
3	Lagerstroemia microcarpa	30	0.02	5	6	1.00	0.50	50	71.75	13.16	14.29	7.77	35.22
4	Wrightia tinctoria	25	0.03	3	3	1.00	0.30	30	49.74	7.89	8.87	5.38	21.84
5	Holarrhena antidysenterica	15	0.03	3	3	1.00	0.30	30	17.93	7.89	8.57	1.94	18.40
6	Dillenia pentagyna	45	0.03	4	4	1.00	0.40	40	161.43	10.53	11.43	17.47	39.43
7	Cordia dicthotoma	40	0.05	2	2	1.00	0.20	20	127.42	5.26	5.71	13.79	24.76
8	Bombax malabaricum	40	0.02	6	5	1.20	0.60	50	127.42	15.79	14.29	13.79	43.87
9	Terminalia bellirica	50	0.02	6	5	1.20	0.60	50	198.95	15.79	14.29	21.54	51.62
				38	35				923.79	99.99	100.01	99.99	299.99

Maturity index = 38.89 Continuum index = 1973

Table. 94. Loc 94. Ayyappan nada

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Grewia tiliifolia	55	0.03	7	5	1.40	0.70	50	240.96	10.29	10.42	12.08	32.79
2	Terminalia crenulata	50	0.02	5	5	1.00	0.50	50	198.95	7.35	10.42	9.97	27.74
3	Dillenia pentagyna	50	0.01	7	7	1.00	0.70	70	198.95	30.29	14.58	9.97	34.89
4	Tectona grandis	45	0.02	7	6	1.17	0.70	60	161.43	10.29	12.50	8.09	30.88
5	Bombax malabaricum	40	0.05	2	2	1.00	0.20	20	127.42	2.94	4.12	6.39	13.50
6	Helicteres isora	15	0.03	21	8	2.63	2.10	80	17.93	30.88	16.67	0.90	48.45
7	Holigarna arnottiana	82	0.03	4	4	1.00	0.40	40	535.56	5.88	8.33	26.85	41.06
8	Garuga pinnata	48	0.05	2	2	1.00	0.20	20	183.28	2.94	4.12	9.19	16.30
9	Lannea coromandelica	38	0.05	2	2	1.00	0.20	20	114.92	2.94	4.17	5.76	12.87
10	Xylia xylocarpa	52	0.02	11	7	1.00	0.20	20	215.28	16.18	14.58	10.79	41.55
				68	48				1994.68	100.00	100.01	100.00	300.01

Maturity index = 48.00 Continuum index = 2005

Table. 95. Loc.95. Thonikkal kadu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	50	0.02	8	7	1.14	0.80	70	198.95	12 90	15.56	13.00	41.46
2	Tectona grandis	48	0.02	5	5	1.00	0.50	50	183.28	8.06	11.11	11.98	31.15
3	Terminalia crenulata	55	0.03	4	4	1.00	0.40	40	240.96	6.45	8.89	15.75	31.09
4	Meyna laxiflora	35	0.02	7	6	1.17	0.70	60	97.40	11.29	13.33	6.37	30.99
5	Acacia intsia	18	0.08	3	2	1 50	0.30	20	25.87	4.84	4.44	1.69	10.97
6	Securinega virosa	15	0.08	3	2	1.50	0.30	20	17.93	4.84	4.44	1.17	10.45
7	Xylia xylocarpa	38	0.02	5	5	1.00	0.50	50	114.92	8.06	11.11	7.51	26.68
8	Wrightia tinctoria	35	0.04	4	3	1.33	0.40	30	97 40	6.45	6.67	6.37	19.49
9	Helicteres isora	15	0.05	18	6	3.00	1.80	60	17.93	29.03	13.33	1.17	43.53
10	Macaranga peltata	65	0.05	2	2	1.00	0.20	20	336.36	3.23	4.44	21.99	29.66
11	Bombax malabaricum	50	0.03	3	3	1.00	0.30	30	198.95	4.84	6.67	13.00	24.51
				62	45				1529.95	99.99	99.99	100.00	299.98

Maturity index = 40.91 **Continuum index = 2155**

Table 96. Loc.96. Thonikkal nirappu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	40	0.02	10	7	1.43	1.00	73	127.42	11.63	9.33	5.18	26.14
2	Haldina cordifoiia	60	0.03	3	3	1.50	0.30	30	286 37	3.49	4.00	11.65	19.14
3	Lagerstroemia inicrocarpa	50	0.02	5	5	1.00	0.50	50	198.95	5.81	6.67	8.09	20.57
4	Erythrina stricta	40	0.05	2	2	1.00	0.20	20	127.42	2.33	2.67	5.18	10.18
5	Zizyphus xylopyrus	18	0.02	9	7	1.29	0.90	70	25.87	10.47	9.33	1.05	20.85
6	Cassia fistula	25	0.10	1	1	1.00	0.10	10	49.74	1.16	1.33	2.02	4.51
7	Bridelia squamosa	35	0 10	1	1	1.00	0.10	10	97.40	1.16	1.33	3.96	6.45
8	Bombax malabaricuin	35	0.20	2	1	2.00	0.20	10	97.40	2.33	1.33	3.96	7.62
9	Grewia tiliifolia	40	0.02	8	7	1.14	0.80	70	127.42	9.30	9.33	5.18	23.81
10	Holarrhena antidysenterica	15	0.03	4	4	1.00	0.40	40	17 93	4.65	5.33	0.73	10.71
11	Limonia acidissima	20	0.03	3	3	1.00	0.30	30	31.75	3.49	4.00	1 29	8.78
12	Bambusa sp.	15	0.10	1	1	1.00	0.10	10	17.93	1.16	**1.33**	**0.73**	8.22
13	Grewia tillifolia	35	0.02	8	7	1.14	0.80	70	97.40	9 30	9.33	3.96	22.59
14	Wrightia tinctoria	15	0.03	5	4	1.25	0.50	40	17.93	5.81	5.33	0.73	11.87
15	Meyna laxiflora	15	0.03	3	3	1.00	0.30	30	17.93	3.49	4.00	0.73	8.22
16	Butea superba	18	0.02	6	5	1.20	0.60	50	25.87	6.98	6.67	1.05	14.70
17	Lannea coromandelica	28	0.02	7	6	1.17	0.70	60	62-45	8.14	8.00	2.54	18.68
18	Macaranga peltata	40	0.03	3	3	1.00	0.30	30	127.42	3.49	4.00	5.18	12.67
19	Trewia nudiflora	55	0.05	2	2	1.00	0.20	20	240 96	2.33	2.67	9.80	14.80
20	Ficus religiosa	65	0.10	1	1	1.00	0.10	10	336.36	1.16	1.33	13.68	16.10
21	Careya arborea	40	0.10	1	1	1.00	0.10	10	137.42	1.16	1.33	5.18	7 67
22	Sterculia urens	5G	0.10	1	1	1.00	0.10	10	198.95	1.16	1.33	8.09	10.58
				86	75				2458 29	100.00	99.97	99.96	299.93

Maturity index = **33.64** Continuum index = 2075

Table 97. Loc 97. Uravampadam east

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	50	0.02	8	7	1.14	0.80	70	198.95	20.51	21.21	27.64	69.36
2	Terminalia crenulata	50	0.01	7	7	1.00	0.70	70	198.95	17.55	21.21	27.64	66.80
3	Bombax malabaricum	45	0.03	3	8	1.00	0.30	30	161.43	7.69	9.09	22.43	39.21
4	Butea superba	28	0.03	3	3	1.00	0.30	30	62.45	7.69	9.09	8.68	25.46
5	Erythrina stricta	30	0.10	1	1	1.00	0.10	10	71.75	2.56	3.03	9.97	15.56
6	Mitragyna parvifolia	10	0 03	8	5	1.60	0.80	50	7.94	20.51	15.15	1.10	36.76
7	Zizyphus xylopyrus	15	0 02	9	7	1.29	0.90	70	17.93	23.08	21.21	2.49	46.78
				39	33				719.70	99.99	99.99	99.95	299.93

Maturity index = 47.14 Continuum index = 2136

Table. 98. Loc 98. Melechira

1	Terminalia bellirica	55	0.02	9	7	1.29	0.90	70	240.96	17.31	16.67	29.37	63.35
2	Terminalia crenulata	48	0.02	6	6	1.00	0.60	60	183.28	11.54	14.29	22.34	48.17
3	Tectona grandis	45	0.01	8	8	1.00	0.80	80	161.43	15.38	19.05	19.68	54.11
4	Bombax malabaricum	40	0.03	4	4	1.00	0.40	40	127.42	7.69	9.52	15.53	32.74
5	Helicteres isora	10	0.02	14	8	1.75	1.40	80	7.94	26.92	19.05	0.97	46.94
6	Acacia intsia	15	0.06	5	8	1.67	0.50	30	17.93	9.62	7.14	2.19	18.95
7	Wrightia tinctoria	20	0.03	4	4	1.00	0.40	40	31.75	7.69	9.52	3.87	21.08
8	Meyna laxiflora	25	0.05	2	2	1.00	0.20	20	49.74	3.85	4.76	6.06	14.67
				52	42				820.45	100.00	100.00	100.00	300.00

Maturity index = 52.50 Continuum index = 1940

Table 99. Loc 99. Pazhavellachal

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	50	0.02	12	8	1.50	1.20	80	198.95	13.04	10.67	14.94	38.65
2	Lagerstroemia microcarpa	40	0.02	7	6	1.17	0.70	60	127.42	7.61	8.00	9.57	25.18
3	Terminalia crenulata	45	0.02	10	7	1.43	1.00	70	161.43	10.87	9.33	12.13	32.33
4	Dalbergia latifolia	35	0.05	2	2	1.00	0.20	20	97.40	2.17	2.67	7.32	12.16
5	Careya arborea	30	0.05	2	2	1.00	0.20	20	71.75	2.17	2.67	5.39	10.23
6	Grewia tiliifolia	30	C.03	4	4	1.00	0.40	40	71.75	4.35	5.33	5.39	15.07
7	Holarrhena antidysenterica	15	0.03	3	3	1.00	0.30	30	17.93	3.26	4.00	1.35	8.61
8	Wrightia tinctoria	20	0.03	9	6	1.50	0.90	60	31.75	9.78	8.00	2.38	62.10
Y	Xylia xylocarpa	38	0.02	8	7	1.14	0.80	70	114.92	8.70	9.33	8.63	26.66
10	Albizia procera	40	0.02	5	5	1.00	0.50	50	127.42	5.43	6.67	9.57	21.67
11	Lannea coromandelica	35	0.03	7	5	1.40	0.70	50	97.40	7.61	6.67	7.32	21.60
12	Tectona grandis	45	0.02	11	8	138	1.10	80	161.43	11.96	10.67	12 13	34.76
13	Zizyphus xylopyrus	15	0.03	4	4	1.00	0.40	40	17.93	4.35	5.33	1.35	11.03
14	Zizyphus sp.	10	0.05	2	2	1.00	0.20	20	7.94	2.17	2.67	0.60	5.44
15	Butea superba	18	0.02	6	6	1.00	0.60	60	25.87	6.52	8.00	1.94	16.46
				92	75				1331.29	99.99	100.01	100.01	300.01

Maturity index = 50.00 Continuum index = 2065

Table 100. Loc.100. Kathikadappanchal

Sl. No.	Name of species	Av.Gth.	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Bambusa sp.	20	0.03	3	3	1.00	0.30	30	31.75	3.61	4.05	1.40	9.06
2	Strychonus nux-vomica	38	0 03	3	3	1.00	0.30	30	114.92	3.61	4.05	5.06	12.72
3	Dillenia pentagyna	35	0.02	10	7	143	1.00	70	97.40	12.05	9.46	4.29	25.80
4	Cinnamomum verum	25	0.10	1	1	1.00	0.10	10	49.74	1.20	1.35	2.19	4.74
5	Zizyphus xylopyrus	15	0.02	6	5	1.20	0.60	50	17.93	7.23	6.76	0.79	14.78
6	Terminalia crenulata	45	0.02	10	8	1.25	1.00	80	161.43	12.05	10.81	7.10	29.96
7	Hydnocarpus pentandra	40	0.03	3	3	1.00	0.30	30	127.42	3.61	4.05	5.61	13.27
8	Lagerstroemia microcarpa	45	0.01	7	7	1.00	0.70	70	161.43	8.43	9.46	7.10	24.99
9	Cycas sp.	33	0.10	1	1	1.00	0.10	10	97.40	1.20	1.35	4.29	6.84
10	Cassia fistula	30	0.05	2	2	1.00	0.20	20	71.75	2.41	2.70	3.16	8.27
11	Macaranga peltata	55	0.05	2	2	1.00	0.20	20	240.96	2.41	2.70	10.60	15.71
12	Butea superba	25	0.02	7	6	1.17	0.70	60	49.74	8 43	8.11	2.19	18.73
13	Acacia intsia	15	0.01	9	8	1.13	0.90	80	17.93	10.84	10.81	0.79	22.44
14	Albizia procera	40	0.03	3	3	1.00	0.30	30	127.42	3.61	4.05	5 61	13.27
15	Emblica officinalis	48	0.02	7	6	1.17	0.70	60	183.28	8.43	8.11	8.07	24.61
16	Wrightia tinctoria	38	0.03	3	3	1.00	0.30	30	114.92	3.61	4.05	5.06	12.72
17	Cordia dichotoma	30	0.10	1	1	1.00	0.10	10	71.75	1.20	1.35	3.16	5.71
18	Sterculia urens	60	0.03	3	3	1.00	0.30	30	198 95	3.61	4.05	8.75	16.41
19	Ficus hispida	65	0.05	2	2	1.00	0.20	20	336.36	2.41	2.70	14.80	19.91
				83	74				2276.48	99.95	89.97	100.02	299.94

Maturity index = 38.95 Continuum index = 1524

Table 101. Loc.101. Inchapara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Bambusa sp.	10	0.05	2	2	1.00	0.02	20	7.94	6.67	7.14	1.18	14.99
2	Lagerstroemia microcarpa	35	0.05	2	2	1.00	0.20	20	97.40	6.67	7.14	14.48	28.29
3	Strychonus nux-vomica	30	0.10	1	1	1.00	0.10	10	71.75	3.33	3.57	10.67	17.57
4	Clerodendrum inerme	25	0 05	2	2	1.00	0.20	20	49.74	6.67	7.14	7.40	21.21
5	Securinega virosa	10	0.03	5	4	1.25	0.50	40	7.94	16.67	14.29	1.18	32.14
6	Aporusa lindleyana	20	0.03	5	4	1.95	0.50	40	31.75	16.67	14.29	4.72	35.68
7	Dillenia pentagyna	35	0.05	2	2	1.00	0.20	20	97.40	6.67	7.14	14.48	28.29
8	Xylia xylocarpa	35	0.03	4	4	1.00	0.40	40	67.40	13.33	14.29	14.48	42.10
9	Wrightia tiactoria	20	0.03	8	3	1.00	0.30	30	31.75	10.00	10.71	4.72	25.43
10	Acacia intsia	15	0.05	2	2	1.00	0.20	20	17.93	6.67	7.14	2.67	16.48
11	Terminalia bellirica	45	0.05	2	2	1.00	0.20	20	161.43	6.67	7.14	24.01	37.82
				30	26				672.43	100.02	99.99	99.99	300.00

Maturity index = 25.45

Continuum index = 1664

Table. 102. Loc.102. Ponmudi (Lower slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Cassia fistula	35	0.03	4	4	1.00	0.40	40	97.40	8.70	9.76	6.40	24.86
2	Dalbergia latifolia	48	0.03	3	3	1.00	0.30	30	188.28	6.52	7.32	12.04	26.88
3	Tectona grandis	45	0.01	7	7	1.00	0.70	70	161.43	15.22	17.07	10.61	42.90
4	Xylia xylocarpa	40	0.02	10	7	1.43	1.00	70	127.42	21.74	17.07	8.37	47.18
5	Lannea coromandelica	40	0.03	3	3	1.00	0.30	30	127.42	6.52	7.32	8.37	22.21
6	Emblica officinalis	38	0.05	2	2	1.00	0.20	20	114.92	4.35	4.88	7.55	16.78
7	Gmelina arborea	50	0.10	1	1	1.00	0.10	10	198.92	2.17	2.44	13.07	17.68
8	Cordia dichotoma	36	0.05	2	2	1.00	0.20	20	103.09	4.35	4.88	6.77	18.00
9	Wrightia tinctoria	30	0.03	5	4	1.25	0.50	40	71.75	10.87	9.76	4.71	25.34
10	Holigarna arnottiana	60	0.05	2	2	1.00	0.20	20	286.37	4.35	4.88	18.82	28.05
11	Bambusa sp.	25	0.02	7	6	1.17	0.70	60	49.74	15.22	14.63	3.27	33.11
				46	41				1521.77	100.01	100.01	99.98	300.00

Maturity index = 37.27 Continuum index = 1595

Table. 103. Loc.103. Vazhukkumpara

Sl. No.	Name of species	Av.Gth.	AbtF	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	40	0.10	1	1	1.00	0.10	10	127.42	2.70	3.13	8.71	14.54
2	Terminalia crenulata	40	C.03	5	4	1.25	0.50	40	127.42	13.51	12.50	8.71	34.72
3	Wrightia tinctoria	30	0.03	3	3	1.00	0.30	30	71.75	8.11	9.38	4.90	22.39
4	Holarrhena antidysenterica	15	0.23	9	6	1.50	0.90	60	17.93	24.32	18.75	1.23	44.30
5	Lagerstroemia microcarpa	35	0.05	2	2	1.00	0.20	20	97.40	8.41	6.25	6.66	18 32
6	Xylia xylocarpa	35	0.03	3	3	1.00	0.30	30	97.30	8.11	9.38	6.66	24.15
7	Butea superba	20	0.Q5	2	2	1.00	0 20	20	31.75	5.41	6.25	2.17	13.83
8	Zizyphus xylopyrus	15	0.20	2	2	2.00	0.20	10	17.93	5.41	3 13	1.23	9.77
9	Acacia intsia	15	0.05	2	2	1 00	0.20	20	17.93	5.41	6.25	1.23	12.89
10	Dillenia pentagyna	45	0.03	4	4	1.00	0.40	40	161.43	10.81	12.50	11.04	34.35
11	Bombax insigne	30	0.05	2	2	1.00	0.20	20	71.75	5.41	6.25	4.90	16.56
12	Trewia nudiflora	65	0.10	1	1	1.00	0.00	10	336.36	2.70	3.13	22.99	28.82
13	Terminalia bellirica	60	0.10	1	1	1.00	0.00	10	286.37	2 70	3 13	19.58	25.41
				37	32				1462.84	100 01	100.03	100.01	300.05

Maturity index = 24.62 **Continuum index = 1836**

Table 104. Loc.104. Vaniyampara

Sl. No	Name of species	Av.Gth.	Ab/F	No.Sps.	QtdOcc.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Terminalia crenulata	40	0.03	4	4	1.00	0.40	40	127.42	9.52	10.00	11.30	30.82
2	Grewia tiliifolia	38	0.03	4	4	1.00	0.40	40	114.92	9.52	10.00	10.19	29.71
3	Xylia xylocarpa	30	0.02	6	5	1.20	0.60	50	71.75	14.29	12.50	6.36	33.15
4	Tectona grandis	35	0.02	5	5	1.00	0.50	50	97.40	11.90	12.50	8.64	30.04
5	Butea superba	20	0.05	2	2	1.00	0.20	20	31.75	4.76	5.00	2.82	12.58
6	Acacia intsia	10	0.05	3	2	1.00	0.20	20	7.94	4.76	5.00	0.70	10.46
7	Lagerstroemia microcarpa	40	0.03	5	4	1.25	0.50	40	127.42	11.90	10.00	11.30	83.20
8	Bombax insigne	30	0.03	3	3	1.00	0.30	30	71.75	7.14	7.50	6.36	21.00
9	Wrightia tinctoria	25	0.03	4	4	1.00	0.40	40	49.71	9.52	10.00	4.41	23.93
10	Haldina cordifolia	45	0.10	1	1	1.00	0.10	10	161.43	2.38	2.50	14.31	19.19
11	Careya arborea	30	0.05	2	2	1.00	0.20	20	71.75	4.76	5.00	6 36	16.12
12	Sterculia urens	38	0.10	1	1	100	0.10	10	114.92	2.38	2.50	10.19	15.07
13	Bambusa sp.	10	0.05	2	2	1.00	0.20	20	7.94	4.76	5.00	0.70	10.46
14	Mitragyna parvifolia	30	0.10	1	1	1.00	0.10	10	71.75	2.38	2.50	6.36	11.23
				42	40				1127.88	99.97	100.00	100.00	299.97

Maturity index = 28.57 Continuum index = 2124

Table 105 Loc.105. Pattikadu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	35	0.04	6	4	1.50	0.60	40	97.40	13.95	11.19	11.75	36.81
2	Careya arborea	20	0.02	6	6	1.00	0.60	60	31.75	13.95	16.67	3.83	34.45
3	Terminalia crenulata	50	0.03	3	3	1.00	0.30	30	198.95	6.98	8.33	23.99	39.30
4	Grewia tiliifolia	40	0 03	5	4	1.25	0.50	40	127.42	11.63	11.11	15.37	38.11
5	Wrightia tinctoria	30	0.03	3	3	1.00	0.30	30	71.75	6.98	8.33	8.65	23.96
6	Holarrhena antidysenterica	15	0.03	8	5	1.60	0.80	50	17.93	18.60	13.89	2.16	34.65
7	Bombax malabaricum	38	0.03	5	4	1.25	0.50	40	114.92	11.63	11.11	13.36	36.60
8	Macaranga peltata	35	0.03	3	3	1.00	0.30	30	97.40	6.98	8.33	11.75	27.06
9	Sterculia urens	30	0.03	4	4	1.00	0.40	40	71.75	9.30	11.11	8.65	29.06
				43	36				829.27	100.00	99.99	100.01	300.00

Maturity index -- 40.00

Continuum index= 1713

TabIe. 106. Loc.106. Peechi

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.0cc Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	40	0.03	4	4	1.00	0.40	40	127.42	12.50	12.90	12.58	37.98
2	Grewia tiliifolia	40	0.03	3	3	1.00	0.30	30	127.42	9.38	9.68	12.58	31.64
3	Lagerstroemia microcarpa	45	0.03	3	3	1.00	0.80	30	161.43	9.38	9.68	15.94	35.00
4	Terminalia crenulata	40	0.02	6	5	1.20	0.60	50	127.42	18.75	16.13	12.58	47.46
5	Terminalia bellirica	35	0.05	2	2	100	0.20	20	97.40	6.25	6.45	9 62	22.32
6	Bombax malabaricum	30	0.03	3	3	1.50	0.30	30	71.75	9.38	9.68	7.08	26.14
7	Eucalyptus sp.	20	0.10	1	1	1.00	0.10	10	31.75	3.13	3.23	3.13	9.49
8	Buka superba	15	0.03	3	3	1.33	0.30	30	17.93	9.38	9 68	1.77	20.83
9	Zizyphus xylopyrus	10	0.03	8	3	1.00	0.30	30	7.94	9.38	9.68	0.78	19.84
10	Sterculia urens	38	0.05	2	2	1.00	0.20	20	114.92	6.25	6.45	11.35	24.05
1I	Haldina cordifolia	40	0.05	2	2	1.00	0.20	20	127.42	6.25	6.45	12.58	25.28
				32	31				1012.80	100.03	100.01	99.99	300.03

Maturity index = 28.18 Continuum index = 1787

Table 107. L o c .107. Thakaramkunnu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Sterculia urens	40	0.03	4	4	1.00	0.40	43	127.42	8.33	8.70	5.03	22.06
2	Tectona grandis	40	0.02	6	6	1.00	0.60	60	127.42	12.50	13.04	5.03	30.57
3	Dalbergia latifolia	30	0.10	1	1	1.00	0.10	10	71.75	2.08	2.17	2.83	7.08
4	Bombax malabaricum	30	0.05	2	2	1.00	0.20	20	71 75	4.17	4.35	2.83	11.35
5	Dillenia pentagyna	40	0.05	2	2	1.00	0.20	20	127.42	4.17	4.35	5.03	13.55
6	Haldina cordifolia	65	0.02	6	5	1.20	0.60	50	336.36	12.50	10.87	13.29	36.66
7	Garuga pinnata	35	0.05	2	2	1.00	0.20	20	97.40	4.17	4.35	3.85	12.37
8	Limonia acidissima	20	0.20	2	1	2.00	0.20	10	31.75	4.12	2.17	1.25	7.59
9	Mitragyna parvifolia	30	0.10	1	1	1.00	0.10	10	71.75	2.08	2.17	2.83	7.08
10	Xylia xylocarpa	40	0.10	1	1	1.00	0.10	10	127.42	2.08	2.17	5.03	9.28
11	Macaranga peltata	55	0.10	1	1	1.00	0.10	10	240.96	2.08	2.17	9 52	13.77
12	Mimusops elengi	30	0.10	1	1	1.00	0.10	10	71.75	2.08	2.17	2.83	7.08
13	Emblica officinalis	30	0.03	4	4	1.00	0.03	40	71.75	8.33	8.70	2.83	19.86
14	Schleichera oleosa	40	0.03	3	3	1.00	0.03	30	127.42	6.25	6.52	5.03	17.80
15	Terminalia crenulata	40	0.05	2	2	1.00	0.05	20	127.42	4.17	4.35	5.03	13.55
16	Alstonia scholaris	30	0.10	1	1	1.00	0.10	10	71.75	2.08	2.17	2.83	7.08
17	Albizia procera	35	0.10	1	1	1.00	0.10	10	97.40	2.08	2.17	3.85	8.10
18	Ficus hispida	25	0.10	1	1	1.00	0.10	10	49.74	2.08	2.17	1.96	6.21
19	Celastrus paniculatus	30	0.03	3	3	1.00	0.30	30	71.75	6.25	6.52	2.83	15.60
20	Bridelia squamosa	35	0.05	2	2	1.00	0.20	20	97.40	4.17	4.35	3.85	12.37
21	Terminalia bellirica	50	0.10	1	1	1.00	0.10	10	198.95	2.08	2.17	7.86	12.11
22	Lannea coromandelica	38	0.10	1	1	1.00	0.10	10	114.92	2.08	2.17	4.54	8.79
				48	46				2531.65	99.98	99.97	99.96	299.91

Maturity index = 20.91 **Continuum index = 1340**

Table 108. Loc.108. Pothuchalu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	40	0.03	4	4	1.00	0.40	40	121.42	16 00	16.67	10.66	43.33
2	Dillenia pentagyna	40	0.02	5	5	1.00	0.50	50	127.42	20.00	20.83	10.66	51.49
3	Cinnamomum verum	25	0.05	2	2	1.00	0.20	20	49.74	8.00	8.33	4.16	20.49
4	Careya arborea	30	0.05	2	2	1.00	0.20	20	71.75	8.00	8.33	6.00	22 33
5	Trewia nudiflora	60	0.10	1	1	1.00	0.10	10	286.37	4.00	4.17	23.95	32 12
6	Tetrameles nudiflora	55	0 10	1	1	1.00	0.10	10	240.96	4 00	4.17	90.15	28.32
7	Calamus sp.	10	0.08	3	2	1.50	0.30	20	7.94	12.00	8.33	0.66	20 99
8	Cycas sp.	35	0.10	1	1	1.00	0.10	10	97.40	4.00	4.17	8.15	16.32
9	Grewia tiliifolia	38	0.03	4	4	1.00	0.40	40	114.92	16.00	16.67	9.61	42.28
10	Strychonus nux-vomica	30	0.05	2	2	1.00	0.20	20	71.75	8.00	8.33	6.00	22.33
				25	24				1195.67	100.00	100.00	100.00	300.00

Maturity index = 24.00 Continuum index = 1525

Table 109. L o c .109. Kathikadappanchalu

Sl. No.	Name of species	Av.Gtb.	Ab/F	No.Sps	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Terminalia crenulata	40	0.10	1	1	1.00	0.10	10	127.42	4.76	5.00	8.36	18.12
2	Xylia xylocarpa	38	0.03	4	4	1.00	0.40	40	114.92	19.05	20.GO	7.54	46.59
3	Terminalia bellirica	35	0.05	2	2	1.00	0.20	20	97.40	9.52	10.00	6.39	25.91
4	Tetrameles nudiflora	80	0.10	1	1	1.00	0.10	10	509.65	4.76	5.00	33.45	43.21
5	Grewia tiliifolia	36	0.03	3	3	1.00	0.30	30	97.40	14.29	15.00	6.39	35.68
6'	Zizyphus xylopyrus	10	0.10	1	1	1.00	0.10	10	7.94	4.76	5.00	0.52	10.28
7	Acacia intsia	10	0.05	2	2	1.00	0.20	20	7.94	9.52	10.00	0.52	20.04
8	Bombax malabaricum	35	0.04	4	3	1.33	0.40	30	97.40	19.05	15.00	6.39	40.44
9	Cordia dichotoma	25	0.10	1	1	1.00	0.10	10	49.74	4.76	*5.00*	3.26	13.02
10	Ficus benghalensis	60	0.10	1	1	1.00	0.10	10	286.37	4.76	5 00	18.80	28.56
11	Sterculia urens	40	0.10	1	1	1.00	0.10	10	127.42	4.76	5.00	8.36	18.12
				21	20				1533.60	99.99	100.00	99.98	299.97

Maturity index = 18.18 Continuum index = 1867

Table. 110. L o c .110. Ilenjipara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	45	0.40	4	4	1.00	0.40	40	161.43	14.81	14.81	13.68	43.30
2	Terminalia crenulata	55	0.10	1	1	1.00	0.10	10	240.96	3.70	3.70	20.42	27.82
3	Xylia xylocarpa	35	0.60	6	6	10..	0.60	60	97.40	22.22	22.22	8.26	52.70
4	Dillenia pentagyna	35	0 50	5	5	1.00	0.50	50	97.40	18.52	18.52	8.26	45.30
5	Lagerstroemia microcarpa	40	0.20	2	2	1.00	0.20	20	127.42	7.41	7.41	10.80	25.62
6	Zizyphus xylopyrus	15	0.20	2	2	1.00	0.20	20	17.93	7.41	7.41	1.52	16.34
7	Sterculia urens	38	0.10	1	1	1.00	0.10	10	114.92	3.70	3.70	9.74	17.14
8	Strychonus nux-vomica	30	0.10	1	1	1.00	0.10	10	71.75	3.70	3.70	6.08	13.48
9	Butea superba	20	0.20	2	2	1.00	0.20	20	31.75	7.41	7.41	2.69	17.51
10	Dalbergia latifolia	30	0.10	1	1	1.00	0.10	10	71.75	3.70	3.70	6.08	13.48
11	Albizia odorattissima	35	0 10	1	1	1.00	0.10	10	97.40	3.70	3.70	8.26	15.66
12	Mallotus philippensis	25	0 LO	1	1	1.00	0.10	10	49.74	3.70	3.70	4.22	11.62
				27	27				1179.85	99.98	99.98	100.01	299.97

Maturity index = 22.50 Continuum index = 1659

Table. 111. Loc.111. Andilpara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Bambusa sp.	10	0.10	1	1	1.00	0.10	10	7.94	3.57	3.85	0.99	8.41
2	Butea superba	15	0.10	1	1	1.00	0.10	10	17.93	3.57	3.85	2.24	9.66
3	Grewia tiliifolia	30	0.03	1	4	1.00	0.40	40	71.75	14.29	15.38	8.97	38.64
4	Dillenia pentagyna	40	0.02	5	5	1.00	0.50	50	127.42	17.86	19.23	15.93	53.02
5	Tectona grandis	45	0.03	4	4	1.00	0.40	40	161.43	14.29	15.38	20.18	49.85
6	Lagerstroemia microcarpa	40	0.05	2	2	1.00	0 20	20	127.42	7.14	7.69	15.93	30.76
7	Xylia xylocarpa	38	0.03	5	4	1.52	0.50	40	114.92	17.86	15.38	14.37	47.61
8	Wrightia tinctoria	30	0.05	2	2	1.00	0.20	20	71.75	7.14	7.69	8.97	23.80
9	Acacia intsia	15	0.10	1	1	1.00	0.10	10	17.93	3.57	3.85	2.24	9.66
10	Cinnamomum verum	25	0.10	1	1	1.00	0.10	10	49.74	3.57	3.85	6.22	13.64
11	Aporusa lindleyana	20	0.20	2	1	2.00	0.20	10	31.75	7.14	3.85	3.97	14.96
				28	26				799.98	100 .00	100.00	100.01	300.01

Maturity index -- 23.64 **Continuum index = 1994**

Table. 112. L o c .112. Ninoukuzhi

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	35	0.03	3	3	1.00	0.30	30	97.40	12.00	12.50	10.69	35.19
2	Xylia xylocarpa	30	0.02	5	5	1.00	0.50	50	71.75	20.00	20.83	7.88	48.71
3	Grewia tiliifolia	30	0.03	3	3	1.00	0.30	30	71.75	12.00	12.50	7.88	32.38
4	Lagerstroemia microcarpa	40	0.10	1	1	1.00	0.10	10	127.42	4.00	4.17	13.99	22.16
5	Erythrina stricta	38	0.10	1	1	1.00	0.10	10	114.92	4.00	4.17	12.61	20.78
6	Bombax malabaricum	30	0.05	2	2	1.00	0.20	20	71.75	8.00	8.33	7.88	24.21
7	Zizyphus xylopyrus	10	0.08	3	2	1.50	0.30	20	7.94	12.00	8.33	0.87	21.22
8	Butea superba	15	0.05	2	2	1.00	0.20	20	17.93	8.00	8.33	1.97	18.30
9	Terminalia crenulata	50	0.10	1	1	1.00	0.10	10	198.95	4.00	4.17	21.84	30.01
10	Meyna laxiflora	25	0.10	1	1	1.00	0.10	10	49.74	4.00	4.17	5.46	13.63
I1	Cordia dichotoma	20	0.10	1	1	1.00	0.10	10	31.75	4.00	4.17	3.49	11.66
12	Careya arborea	20	0.30	1	1	1.00	0.10	10	31.75	4.00	4.17	3.49	11.66
13	Acacia intsia	15	0.10	1	1	1.00	0.10	10	17.93	4.00	4.17	1.97	10.14
				25	24				910.98	100.00	100.01	100.02	300.03

Maturity index = 18.46 Continuum index = 1522

Table 113 Loc.113. Channakadu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Terminalia crenulata	45	0.05	2	2	1.00	0.20	20	161.43	5.56	7.41	19.25	32.22
2	Terminalia bellirica	40	0.10	1	1	1.00	0.10	10	127.42	2.78	3.70	15.20	21.68
3	Lagerstroemia microcarpa	38	0.10	4	2	2.00	0.40	20	114.92	11.11	7.41	13.23	31.75
4	Tectona grandis	30	0.03	3	3	1.00	0.30	30	71.75	8.33	11.11	8.56	28.00
5	Bambusasp.	15	0.10	1	1	1.00	0.10	10	17.93	2.78	3.70	2.14	8.62
6	Ficus hispida	15	0.10	1	1	1.00	0.10	10	17.93	2.78	3.70	2.14	8.62
7	Sterculia urens	28	0.08	3	2	1.50	0.30	20	62.45	8.53	7.41	7.45	23.19
8	Bombax malabaricum	30	0.05	2	2	1.00	0.20	20	71.75	5.56	7.41	8.56	21.58
9	Wrightia tinctoria	20	0.03	3	3	1.00	0.30	30	31.75	8.33	11.11	3.79	23.23
10	Holarrhena antidysenterica	10	0.04	9	5	1.80	0.90	50	7.94	25.00	18.52	0.95	44.47
11	Butea superba	20	0.10	1	1	1.00	0.10	10	31.75	2.78	3.70	3.79	10.27
12	Cordia dichotoma	25	0.10	1	1	1.00	0.10	10	49.74	2.78	3.70	5.93	12.45
13	Xylia xylocarpa	30	0.06	5	3	1.67	0.50	30	71.75	13.89	11 11	8.56	33.56
				36	27				838.51	100.01	99.99	99.99	299.99

Maturity index = 20.77 Continuum index = 1627

Table. 114. L o c .114. Machad (Akamala side)

Sl. No.	Name of species	Av.Gth,	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	45	0.05	2	2	1.00	0.20	20	161.43	10.00	11.11	14.78	35.89
2	Bombax insigne	40	0.03	3	3	1.00	0.30	30	127.42	15.00	16.67	11.66	43.33
3	Dalbergia latifolia	38	0.10	1	1	1.00	0.10	10	114.92	5.00	5.56	10.52	21.08
4	Bridelia squamosa	35	0.05	2	2	1.00	0.20	20	97.40	10.00	11.11	8.92	30.03
5	Garuga pinnata	30	0.03	5	4	1.25	0.50	40	71.75	25.00	22.22	6.57	53.79
6	Lannea coromandelica	30	0.10	1	1	1.00	0.10	10	71.75	5.00	5.56	6.57	17.13
7	Emblica officinalis	25	0.10	1	1	1.00	0.10	10	49.74	5.00	5.56	4.5s	15.11
8	Terminalia bellirica	50	0.10	1	1	1.00	0.10	10	198.95	5.00	5.56	18.21	28.77
9	Dillenia pentagyna	40	0.08	3	2	1.50	0.30	20	127.42	15.00	11.11	11.66	37.7:
10	Gmelina arborea	30	0.10	1	1	1.00	0.10	10	71.75	5.00	5.56	6.57	17.13
				20	18				1092.53	100.00	100.02	100.01	300.03

Maturity index = 18.00 Continuum index = 1653

Table 115. L o c .I 15. Bharanipacha (top)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Bridelia squamosa	35	0.03	3	3	1.00	0.30	30	97.40	8.82	9.68	9.15	27.65
2	Terminalia bellirica	60	0.10	1	1	1.00	0.10	10	286.37	2.94	3.23	26.91	33.08
3	Cochlospermum sp.	SO	0.03	4	4	1.00	0.40	40	198.95	11.76	12.90	18.69	43.35
4	Careya arborea	40	0.03	5	4	1.25	0.50	40	127.42	14.71	12.90	11.97	39.58
5	Sterculia urens	43	0.02	6	6	1.00	0.60	60	127.42	17.65	19.35	11.97	48.97
6	Wrightia tinctoria	20	0.05	2	2	1.00	0.20	20	31.75	5.88	6.45	9.98	15.31
7	Grewia tiliifolia	35	0.04	4	3	1.33	0.40	30	97.40	11.76	9.68	9.15	30.59
8	Bombax malabaricum	30	0.03	3	3	1.00	0.30	30	71.75	8.82	9.68	6.74	25.24
9	Holarrhena antidysenterica	15	0.08	3	2	1.50	0.30	20	17.93	8.82	6.45	1.68	16.95
10	Acacia intsia	10	0.03	3	3	1.00	0.30	30	7.94	8.82	9.68	0.75	19.25
				34	31				1064.33	99.98	100.00	99.99	298.97

Maturity index = 31.00 Continuum index = 2006

Table. 116. Loc.116. Illikazha (top)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Grewia tiliifolia	35	0.02	6	6	1.00	0.60	60	97.40	15.79	16.22	8.98	40.99
2	Tectona grandis	35	0.02	7	6	1.17	0.70	60	97.40	18.42	16.22	8.98	43.62
3	Terminalia crenulata	38	0.03	3	3	1.00	0.30	30	114.92	7.89	8.11	10.60	26.60
4	Artocarpus hirsutus	45	0 10	1	1	1.00	0.10	10	161.43	2.63	2.70	14.89	20.22
5	Lagerstroemia microcarpa	40	0.03	3	3	1.00	0.30	30	127.42	7.89	8.11	11.75	27.75
6	Bombax malabaricum	30	0.05	2	2	1.00	0.20	20	71.75	5.26	5.41	6.62	17.29
7	Zizyphus xylopyrus	15	0.03	4	4	1.00	0.40	40	17.93	10.53	10.81	1.65	22.99
8	Xylia xylocarpa	30	0.03	4	4	1.00	0.40	40	71.75	10.53	10.81	6.62	27.96
9	Cordia dichotoma	25	0.05	2	2	1.00	0.20	20	49.74	5.26	5.41	4.59	15.26
10	Steriospermum colais	35	0.05	2	2	1.00	0.20	20	97.40	5.26	5.41	8.98	19.65
11	Wrightia tinctoria	30	0 05	2	2	1.00	0.20	20	71.75	5.26	5.41	6.62	17.29
12	Holarrhena antidysenterica	10	0.10	1	1	1.00	0.10	10	7.94	2.63	2.70	0.73	6.06
13	Albizia procera	35	0 10	1	1	1.00	0.10	10	97.40	2.63	2.70	8.98	14.31
				38	37				1084.23	99.98	100.02	99.99	299.99

Maturity index = 28.46 Continuum index = 1774

Table 117. Loc. 117. Mula

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Tectona grandis	40	0.02	5	5	1.00	0.50	50	117.42	19.23	19.23	8.10	46.56
2	Xylia xylocarpa	40	0.03	3	3	1.00	0.30	30	127.42	11.54	11.54	8.10	31.18
3	Lagerstroemia microcarpa	35	0.03	3	3	1.00	0.30	30	97.40	11.54	11.54	6.19	29.27
4	Emblica officinalis	30	0.10	1	1	1.00	0.10	10	71 75	3.85	3.85	4.56	12.26
5	Terminalia bellirica	60	0.03	3	3	1.00	0.30	30	286.37	11.54	11.54	18.19	41.27
6	Haldina cordifolia	50	0.10	1	1	1.00	0.10	10	198.95	3.85	3.85	12.64	20.34
7	Zizyphus xylopyrus	10	0.05	2	2	1.00	0.20	20	17.93	7.69	7.69	1.14	16.52
8	Butea superba	20	0.10	1	1	1.03	0.10	10	31.75	3.85	3.85	2.02	9.72
9	Terminalia crenulata	40	0.10	1	1	1.06	0.10	10	127.42	3.85	3.85	8.10	15.80
10	Bombax malabaricum	30	0.20	2	2	1.00	0.20	20	71.75	7.69	7.69	4.56	19.94
11	Trewia nudiflora	60	0.10	1	1	1.00	0.10	10	286.37	3.85	3.85	10 19	25.89
12	Bambusa sp.	10	0.10	1	1	1.00	0.10	10	7.94	3.85	3.85	0.60	8.20
13	Sterculia urens	30	0.10	1	I	1.00	0.10	10	71.75	3.85	3.85	4.56	12.25
14	Careya arborea	25	0.10	1	1	1.00	0.10	10	49.74	3.85	3.85	3.16	10.86
				26	26				1573.96	100.03	100.03	100.01	300.07

Maturity index = 18.57 Continuum index = 1631

Table. 118. L o c .118. Kavalapara (top)

Sl. No.	Name of Species	Av.Gtb.	Ab/F	No.Sps	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	45	0.03	4	4	1.00	0.40	40	161.43	13.79	13.79	11.37	38.95
2	Tectona grandis	40	0.10	1	1	1.00	0.10	10	127.42	3.45	3.45	8.98	15.88
3	Terminakia crenulata	50	0.03	3	3	1.00	0.30	30	198.95	10.34	10.34	14.02	34.70
4	Grewia tiliifolia	38	0.05	2	2	1.00	0.20	20	114.92	6.90	6.90	8.10	21.90
5	Lagerstroemia microcarpa	40	0.05	2	2	1.00	0.20	20	127.42	6.90	6.90	8.98	22.79
6	Acacia intsia	10	0.03	4	4	1.00	0.40	40	7.94	13.79	13.79	0.56	28.14
7	Emblica officinalis	30	0.05	2	2	1.00	0.20	20	71.75	6.90	6.90	5.06	18.86
8	Bombax malabaricum	30	0.05	2	2	1.00	0.20	20	71.75	6.90	6.90	5.06	18.86
3	Gmelina arborea	28	0.10	1	1	1.00	0.10	10	62.45	3.45	3.45	4.40	11.30
10	Schleicheta oleosa	35	0.05	2	2	1.00	0.20	20	97.40	6.90	6.90	6.86	20.66
11	Mallotus philippensis	20	0.10	1	1	1.00	0.10	10	31.75	3.45	3.45	3.50	9.40
12	Mimusops elengi	25	0.10	1	1	1.00	0.10	10	49.74	3.45	3.45	3.50	10.40
13	Mangifera indica	35	0.10	1	1	1.00	0.10	10	97.40	3.45	3.45	6.86	13.76
14	Haldina cordifolia	50	0.03	3	3	1.00	0.30	30	198.95	10.34	10.34	14.02	34.70
				29	29				1419.27	100.01	100.01	100.01	300.03

Maturity index = 20.71 Continuum index = 1774

Table 119. Loc.119. Pazhavellachal Nirappu

Sl. No.	Name of species	Av.Gth.	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Grewia tiliifolia	30	0.03	4	4	1.00	0.40	40	71.75	11.11	11.76	7.05	29.92
2	Terminalia crenulata	50	0.04	4	3	1.33	0.40	30	198.95	11.11	8.82	19.54	39.41
3	Piliostigma malabaricum	20	0.05	2	2	1.00	0.20	23	31.75	5.56	5.88	3.12	14.56
4	Tectona grandis	25	0.02	6	5	1.00	0.50	50	49.74	13.89	14.71	4.88	33.48
5	Gmelina arborea	28	0.10	1	1	1.00	0.10	10	62.45	2.78	2.94	6.13	11.85
6	Cordia dichotoma	20	0.10	1	1	1.00	0.10	10	31.25	2.78	2.94	3.12	8.84
7	Zizyphus xylopyrus	15	0.05	2	2	1.00	0.20	20	17.93	5.56	5.88	1.76	13.20
8	Ficus hispida	30	0.10	1	1	1.00	0.10	10	71.75	2.78	2.94	7.05	12.77
9	Xylia xylocarpa	35	0.05	4	4	1.00	3.40	40	97.40	11.11	11.76	9.56	32.43
10	Lagerstroemia microcarpa	30	0.05	2	2	1.00	0.20	20	71.75	5.56	5.88	7.05	18.49
11	Careya arborea	28	0.10	1	1	1.00	0.10	10	62.45	2.78	2.94	6.13	11.85
12	Dillenia pentagyna	35	0.03	5	4	1.25	0.50	40	97.40	13.89	11.76	9.56	35.21
13	Lannea coromandelica	30	0.05	2	2	1.00	0.20	20	71.75	5.86	5.88	7.05	18.49
14	Mallotus philippensis	20	0.10	1	1	1.00	0.10	10	3l.75	2.78	2 94	3.12	8.84
15	Mitragyna parvifolia	25	0.10	1	1	1.00	0.10	10	49.74	2.78	2.94	4.88	10.60
				36	34				1018.31	100.03	99.97	100.00	300.00

Maturity index = 22.67 Continuum index = 1763

Table 120. Loc.120. Pattilamtharisu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	45	0.02	13	8	1.63	1.30	80	161.43	16.46	12.31	4.55	33.33
2	Bombax malabaricum	40	0.03	3	3	1.00	0.30	30	127.42	3.80	4.62	3.59	12.01
3	Dillenia pentagyna	50	0.02	10	8	1.25	1.00	80	198.95	12.66	12.31	5.61	30.58
4	Acacia iatsia	20	0.05	2	2	1.00	0.20	20	31.75	2.53	3.08	0.89	6.50
5	Butea superba	20	0.08	3	2	1.50	0.30	20	31.75	3.80	3.08	0.89	7.77
6	Albizia procera	60	0.05	2	2	1.00	0.20	20	136.37	2.53	3.08	8.07	13.69
7	Grewia tiliifolia	55	0.02	11	7	1.57	1.10	70	240.96	13.92	10.77	6.79	31.48
8	Terminalia crenulata	55	0.02	6	5	1.20	0.60	50	240.96	7.59	7.69	6.79	22.07
9	Bridelia squamosa	40	0.03	4	4	1.00	0.40	40	127.42	5.06	6.15	3.59	14.80
10	Lannea coromandelica	38	0.02	6	6	1.00	0.60	60	114.92	7.59	9.23	3.24	20.06
11	Dalbergia latifolia	45	0.05	2	2	1.00	0.20	20	161.43	2.53	3.08	4.55	10.16
12	Mitragyna parvifolia	45	0.03	3	3	1.00	0.30	30	161.43	3.80	4.62	4.55	12 97
13	Lagerstroemia microcarpa	55	c.02	6	5	1.20	0.60	50	240.96	7.59	7.69	6.79	22.07
14	Piliostigma malabaricum	30	0.03	3	3	1.00	0.30	30	71.75	3.80	4.62	2.02	10.44
15	Careya arborea	30	0.10	1	1	1.00	0.10	10	71.75	1.27	1.54	2.02	4.83
16	Terminalia bellirica	105	0.10	1	1	1.00	0.10	10	877.82	1.27	1.54	24.73	27.54
17	Emblica officinalis	45	0.05	2	2	1.00	0.20	20	161.43	2.58	3.08	4.55	10 16
18	Macaranga peltata	55	0.10	1	1	1.00	0.10	10	240.96	1.27	1.54	6.79	9.60
				79	65				3549.46	100.00	100.02	100.01	300.03

Maturity index = 36.11 Continuum index==1551

Table. 121. L o c .121. Ponmudi (Mid slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dalbergia latifolia	48	0.10	1	1	1.00	0.10	10	183.28	2.33	2.56	4.59	9.48
2	Erythrina stricta	46	0.05	a	2	1.00	0.20	20	168.24	4.65	5.13	4.23	14.00
3	Terminalia crenulata	50	0.05	2	2	1.00	0.20	20	198.95	4.65	6.13	4.99	14.77
4	Wrightia tinctoria	38	0.04	4	3	1.33	0.40	30	114.92	9.30	7.69	2.88	19.87
5	Gmelina arborea	60	0.10	1	1	1.00	0.10	10	286.37	2.33	2.56	7.18	12.07
6	Sterculia urens	65	0.05	2	2	1.00	0.20	20	336.36	4.65	5.13	8.43	18.21
7	Albizia odorattissima	65	0.10	1	1	1.00	0.10	10	336.36	2.33	2.56	8.43	13.32
8	Emblica officinalis	40	0.10	1	1	1.00	0.10	10	127.42	2.33	2.56	3.19	8.08
9	Ficus benghalensis	110	0.10	1	1	1.00	0.10	10	963.82	2.33	2.56	24.16	29.05
10	Lagerstroemia microcarpa	60	0.02	5	5	1.00	0.50	50	286.37	11.63	12.82	7.18	31.63
11	Zizyphus xylopyrus	20	0.03	5	4	1.25	0.50	40	31.75	11.63	10.26	0.80	22.69
12	Bridelia squamosa	38	0.05	2	2	1.00	0.20	20	114.92	4.65	5.13	7.67	19.78
13	Schleichera oleosa	62	0.08	3	2	1.50	0.30	20	305.90	6.98	5.13	2.88	12.26
14	Dillenia pentagyna	58	0.02	5	5	1.00	0.50	40	268.09	11.63	12.82	6.72	31.17
15	Bambusa sp.	25	0.03	3	3	1.00	0.30	30	49.74	6.98	7.69	1.25	15.92
16	Holarrhena antidysenterica	15	0.04	4	3	1.33	0.40	30	17.93	9.30	7.69	0.45	17.44
17	Macaranga peltata	50	0.10	1	1	1.00	0.10	10	198 95	2.33	2.56	4.99	9.88
				43	39				3989.37	100.03	99.98	100.01	300.02

Maturity index = 22.94 Continuum index = 1853

Table. 122. L o c .122. Ponmudi (Upper slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Grewia tiliifolia	45	0.03	7	5	1.40	0.20	50	161.43	9.09	8.20	6.80	24.09
2	Lagerstroemiamicrocarpa	40	0.02	6	6	1.90	0.60	60	127.42	7.79	9.84	5.36	22.99
3	Dillenia pentagyna	40	0.02	7	6	1.17	0.70	60	127.42	9.09	9.84	5.36	24.29
4	Tectona grandis	50	0.03	4	4	1.00	0.40	40	198.95	5.19	6.56	8.37	20.12
5	Terminalia bellirica	80	0.03	4	4	1.00	0.40	40	509.65	5.19	6.56	21.45	33.20
6	Macaranga peltata	38	0.05	2	2	1.00	0.20	20	114.92	2.60	3.28	4.84	10.72
7	Mimusops elengi	35	0.05	2	2	1.00	0.20	20	47.40	2.60	3.28	4.10	9.98
8	Cassia fistula	35	0.10	1	1	1.00	0.10	10	97.40	130	1.64	4.10	7.04
9	Calamus sp.	20	0.20	7	6	1.17	0.70	60	31.75	9.09	9.84	1.34	20.27
10	Myristica dactyloides	50	0.03	3	3	1.00	0.30	30	198.95	3.90	4.92	8.37	17.19
11	Carissa congesta	25	0.03	3	3	1.00	0.30	30	49.74	3.90	4.92	2.09	10.91
12	Cinnamomum verum	35	0.03	4	4	1.00	0.40	40	97.40	5.19	6.56	4.10	15.85
13	Dendrocalamus strictus	15	0.04	15	6	2.50	1.50	60	17.93	19.48	9.84	0.75	30.07
14	Limonia acidissima	25	0.03	3	3	1.00	0.30	30	49.74	3 90	4.92	2.09	10.91
15	Emblica officinalis	40	0.05	2	2	1.00	0.20	20	127.42	2.60	3.28	5.36	11.24
16	Sterculia urens	65	0.10	1	1	1.00	0.10	10	336.36	1.30	1.64	14.16	17.10
17	Zizyphus xylopyrus	20	0.07	6	3	2.00	0.60	30	31.75	7.79	4.92	1.34	14.05
				52	18				2325.63	100.00	100.04	99.98	300.02

Maturity index = 35.88 Continuum index = 1484

Table. 123. L o c .123. Karadipara (Peechi side)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Tectona grandis	40	0.02	5	5	1.00	0.50	50	127.42	15.15	15.63	11.31	42.09
2	Bridelia squamosa	30	0.05	3	3	1.00	0.20	20	71.75	6.06	6.25	6.37	18.68
3	Dalbergia latifolia	35	0.10	1	1	1.00	0.10	10	97.40	3.03	3.13	8.65	14.81
4	Haldina cordifolia	50	0.05	2	2	1.00	0.20	20	198.95	6.06	6.25	17.66	29.97
5	Wrightia tinctoria	20	0.03	3	3	1.00	0.30	30	31.75	9.09	9.38	2.82	21.29
6	Limonia acidissima	15	0.13	1	1	1.00	0.10	10	17.93	3.03	3.13	1.69	7.75
7	Terminalia crenulata	45	0.03	4	4	1.00	0.40	40	161.43	2.12	2.50	14.33	38.95
8	Bambusa sp.	10	0.10	1	1	1.00	0.10	10	7.94	3.03	3.13	0.70	6.86
9	Butea superba	15	0.05	2	2	1.00	0.20	20	17.93	6.06	6.25	1.59	13.90
10	Xylia xylocarpa	30	0.40	4	3	1.33	0.40	30	71.75	12.12	9.38	6.37	27.87
11	Lagerstroemia microcarpa	35	0.10	1	1	1.00	0.10	10	97.40	3.03	3 13	8.65	14.81
12	Grewia tiliifolia	35	0.02	5	5	1.00	0.50	50	97.40	15.15	15.63	8.65	39.43
13	Macaranga peltata	40	0.05	2	2	1.00	0.20	20	127.42	6.06	6.25	11.31	23.62
				33	32				1126.47	99.99	100.04	100.00	300.03

Maturity index = 24.62 Continuum index = 1753

Table. 124. Loc.124. Vattayi

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Bridelia squamosa	30	0.02	6	6	1.00	0.60	60	71.75	10.71	11.54	3.44	25.69
2	Terminalia crenulata	35	0.05	2	2	1.00	0.20	20	97.40	3.57	3.86	4.67	12.09
3	Tectona grandis	30	0.02	7	6	1.17	0.70	60	71.75	12.50	11.54	3.44	27.48
4	Albizia procera	30	0.03	4	4	1.00	0.40	40	71.75	7.14	7.69	3.44	18.52
5	Grewia tiliifolia	35	0.02	8	6	1.33	0.80	60	97.40	14.29	11.64	4.67	30.21
6	Gmelina arborea	25	0.03	4	4	1.00	0.40	40	49.74	7.14	7.69	2.38	17.72
7	Xylia xylocarpa	35	0.02	7	6	1.17	0.70	60	97.40	12.50	11.54	4.67	28.01
8	Macaranga peltata	40	0.10	1	1	1.00	0.10	10	127.42	1.79	1.92	2.38	9.87
3	Dalbergia latifolia	30	0.10	1	1	1.00	0.10	10	71.75	1.79	1.92	4.67	7.15
10	Cordia dichotoma	28	0.10	1	1	1.00	0.10	10	62.45	1.79	1.92	6.10	6.70
11	Schleichera oleosa	30	0.10	1	1	1.00	0.10	10	71.75	1.79	1.92	3.44	7.15
12	Artocarpus hirsutus	60	0.03	4	4	1.00	0.40	40	256.37	7.14	7.69	13.72	28.55
13	Lagerstroemia nzicrocarpa	35	0.05	2	2	1.00	0.20	20	97.40	3.57	3.85	4.67	12.09
14	Dillenia pentagyna	40	0.10	1	1	1.00	0.10	10	127.42	1.79	1.92	6.10	9.81
15	Cycas sp.	30	0.10	1	1	1.00	0.10	10	71.75	1.79	1.92	3.44	7.15
16	Bombax malabaricum	30	0.10	1	1	1.00	0.10	10	71.75	1.79	1.92	3.44	7.15
17	Steriospermum colais	38	0.10	1	1	1.00	0.10	10	114.92	1.79	1.92	5.50	9.21
18	Terminalia bellirica	55	0.05	2	2	1.00	0.20	20	240.96	3.57	3.85	11.54	18.96
19	Vitex altissima	38	0.10	1	1	1.00	0.10	10	114.92	1.79	1.92	5.50	9.21
20	Mitragyna parvifolia	30	0.10	1	1	1.00	0.10	10	71.75	1.79	1.92	3.44	7.15
				56	52				2087.80	100.03	99.98	100.03	300.04

Maturity index = 27.00 Continuum index = 1927

Table 125. Loc.125. Karadikoompu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	43	0.02	9	7	1.29	0.90	70	183.27	10.71	10.14	9.15	30.00
2	Dalbergia latifolia	35	0.03	4	4	1.00	0.40	40	97.40	4.76	5.80	4.86	15.42
3	Terminalia crenulata	40	0.02	2	6	1.17	0.70	60	127.42	8.33	8.70	6.36	23.39
4	Xylia xylocarpa	50	0.02	13	9	1.44	1.30	90	198.95	15.48	13.04	9.93	38.45
5	Lagerstroemia microcarpa	65	0.02	5	5	1.00	0.50	50	336 36	5.95	7.25	16.68	29.88
6	Sterculia urens	60	0.05	2	2	1.00	0.20	20	286.37	2.38	2.90	14.29	19.57
7	Bombax malabaricurn	45	0.03	3	3	1.00	0.33	30	161.43	3.57	4.35	8.06	15.98
8	Butea superba	20	0.02	6	5	1.20	0.60	50	31.75	7.14	7.25	1.59	15.98
9	Albizia procera	60	0.02	5	5	1.00	0.50	50	286.37	5.95	7.25	14.29	27.49
10	Wrightia tinctoria	38	0.02	11	8	1.38	1.10	80	114.92	13.10	11.59	5.74	30.43
11	Acacia intsia	15	0.08	3	2	1.50	0.30	25	17.93	3.57	2.90	0.89	7.36
12	Cinnamomum verum	32	0.05	2	2	1.00	G.20	20	81.67	2.38	2.90	4.08	9.36
13	Calamus sp.	20	0.02	8	6	1.33	0.80	60	31.75	9 52	8.70	1.59	19.81
14	Aporusa lindleyana	25	0.02	6	5	1.20	0.60	50	49.74	7.14	7.25	2.49	16.88
				84	69				2005.33	99.98	100.02	100.00	300.00

Maturity index = 49.29 Continuum index = 1862

Table. 126. Loc. 126. Varikulam

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	40	0.02	5	5	1.00	0.50	50	127.42	16.67	17.24	8.52	42.43
2	Terminalia crenulata	40	0.05	2	2	1.00	0.20	20	127.42	6.67	6.90	8.52	22.00
3	Grewia tiliifolia	30	0.03	3	3	1.00	0.30	30	71.75	10.00	10.34	4.80	25.14
4	Lagerstroemia microcarpa	88	0.10	1	1	1.00	0.10	10	114.92	3.33	3.45	7.68	14.46
5	Haldina cordifolia	50	0.10	1	1	1.00	0.10	10	198.95	8.33	3.45	13.30	20.08
6	Mimusops elengi	30	0.10	1	1	1.00	0.10	10	71.75	3.33	3.45	4.80	11.58
7	Ficus benghalensis	55	0.13	1	1	1.00	0.10	10	240.96	3.33	3.45	16.11	22.89
8	Alstonia scholaris	40	0.10	1	1	1.00	0.10	10	127.42	3.33	3.45	8 52	15.30
9	Erythrina stricta	35	0.08	4	4	1.00	0.40	40	97.40	13.33	13.79	6.51	33.63
10	Bridelia squamosa	30	0.20	2	1	2.00	0.20	10	71.75	6.67	3.45	4.80	14.92
11	Bambusa sp.	15	0.10	1	1	1.00	0.10	10	17.93	3.33	3.45	1.20	7.98
12	Buchanania lanzan	25	0.10	1	1	1.00	0.10	10	49.74	3.33	3.45	3.33	10.11
13	Calamus sp.	10	0.10	1	1	1.00	0.10	10	7.94	3.33	3.45	0 53	7.31
14	Mallotus philippensis	15	0.10	1	1	1.00	0.10	10	17.93	3.33	3.45	1.20	7.98
15	Strychonus nux-vomica	30	0.10	1	1	1.00	0.10	10	71.75	3.33	3.45	4.80	11.58
16	Gardenia turgida	15	0.10	1	1	1.00	0.10	10	17.93	3.33	3.45	1.20	7.98
17	Lannea coromandelica	28	0.03	3	3	1.00	0.30	30	62.45	10.00	10.34	4.18	24.52
				30	29				1495.41	99.97	100.01	100.00	299.98

Maturity index = 17.06 Continuum index = 1318

Table 127. Loc.127. Kuthiran

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	M
1	Xylia xylocarpa	30	0.02	6	5	1.20	0.60	50	71.75	15.00	12.82	6.94	34.76
2	Tectona grandis	35	0.03	4	4	1.00	0.40	40	97.40	10.00	10.26	9.42	29.68
3	Strychonus nux-vomica	30	0.05	2	2	1 00	0.20	20	71.75	5.00	5.13	6.94	17.07
4	Terminalia crenulata	38	0.02	5	5	1.00	0.50	50	114.92	12.50	12.82	11.11	36.43
5	Grewia tiliifolia	30	0.03	4	4	1.00	0.40	40	71.75	10.00	10.26	6.94	27.20
6	Albizia procera	30	0.03	3	3	1.00	0.30	30	71.75	7.50	7.69	8.94	22.13
7	Lagerstroemia microcarpa	35	0.03	3	3	1.00	0.30	30	97.40	7.50	7.69	9.42	24.61
8	Butea superba	15	0.05	2	2	1.00	0.20	20	17.93	5.00	5.13	1.73	11.86
9	Sterculia urens	25	0.10	1	1	1.00	0.10	10	49.74	2.50	2.56	4.81	9.87
10	Cordia dichotoma	20	0.10	1	1	1.00	0.10	10	31.75	2.50	2.56	3.07	8.13
11	Careya arborea	30	0.05	2	2	1.00	0.20	20	71.75	5.00	5.13	6.94	17.07
12	Lannea coromandelica	35	0.03	3	3	1.00	0.30	30	97.40	7.50	7.69	9.42	24 61
13	Bombax malabaricum	30	0.05	2	2	1.00	0.20	20	71.75	5.00	5.13	6.94	17.07
14	Dalbergia latifolia	35	0.05	2	2	1.00	0.20	20	97.40	5.00	5.13	9.42	19.55
				40	39				1034.44	100.00	100.00	100.04	300.04

Maturity index = 27.86 Continuum index= 1835

Table. 128. L o c .128. Variyathukadu

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	55	0.02	10	7	1.43	1.00	70	240.96	15 38	13.46	7.38	36.22
2	Grewia tiliifolia	50	0.02	4	7	1.29	0.90	70	198.65	13.85	13.46	6.09	33.40
3	Lannea coromandelica	40	0.02	5	5	1.00	0 50	50	127.42	7.69	9.62	3.96	21.21
4	Terminalia crenulata	38	0.03	4	4	1.00	0.40	40	183.28	6.65	7.69	5.61	19.45
5	Acacia intsia	15	0.04	6	4	1.50	0.60	40	17.93	9.23	7.69	0.55	17.47
6	Dalbergia latifolia	48	0.10	1	1	1.00	0.10	10	183.23	1.54	1.92	5.61	9.02
7	Xylia xylocarpa	55	0.02	13	8	1.63	1.30	80	240.96	20.00	15.38	7.38	42.76
8	Dillenia pentagyna	60	0.02	6	5	1.20	0.60	50	286.37	9.23	9.62	8.77	47.62
9	Butea superba	20	0.05	2	2	1.00	0.20	20	31.75	3.08	3.85	0.97	7.90
10	Lagerstroemia microcarpa	80	0.03	4	4	1.00	0 40	40	509.65	6.15	7.69	15.60	29.44
11	Emblica officinalis	44	0.03	3	3	1.60	0.30	30	154.30	4.62	5.77	4.72	15.11
12	Tetrameles nudiflora	110	0.10	1	1	1.00	0.10	10	963.82	1.54	1.98	29.51	32.97
13	Zizyphus xylopyrus	40	0.10	1	1	1.00	0.10	10	127.42	1.54	1.92	3.90	7.36
				65	52				3266.09	100.00	99.99	99.99	299.98

Maturity index = 40.00 Continuum index = 1767

Table. 129. L o c .129. Maniyankinar

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	40	0.02	11	8	1.38	1.10	80	127.42	14.67	12 50	10.33	37.50
2	Xylia xylocarpa	30	0.02	5	5	1.90	0.50	50	71.75	6.67	7.81	5.82	20.30
3	Wrightia tinctoria	20	0.03	5	4	1.25	0.50	40	31.75	6.67	6.25	2.57	15.49
4	Zizyphus xylopyrus	15	0.03	8	5	1.60	0.80	50	114.92	10.67	7.81	1.45	19.93
5	Lannea coromandelica	30	0.02	5	5	1.00	0.50	50	198.95	6.67	7.81	5.82	20.30
6	Tectona grandis	80	0.02	5	5	1.00	0.50	50	71.75	6.67	7.81	5.82	20.30
7	Limonia acidissima	20	0.34	6	4	1.50	0.60	40	240.96	8.00	6.25	2.57	16.82
8	Tetrameles nudiflora	45	0.03	3	3	1.00	0.30	30	127.42	4.00	4.69	13.08	21.77
9	Macaranga peltata	40	0.10	1	1	1.00	0.10	10	97.40	1.33	1.56	10.33	13.22
10	Sterculia urens	30	0.05	2	2	2.00	0.20	20	71.75	2.67	3.13	5.82	11.62
11	Schleichera oleosa	35	0.05	2	2	1.00	0.20	20	17.93	2.67	3.13	7.89	13.69
12	Lagerstroemia microcarpa	35	0.03	4	4	1.00	0.40	40	49.74	5.33	6.25	7.89	19.47
13	Morinda tinctoria	38	0.03	5	4	1.25	0.50	40	7.94	6.67	6.25	9.81	22.23
14	Sterculia urens	30	0.03	4	4	1.00	0.40	40	17.93	5.33	6.25	5.82	17.40
15	Meyna laxiflora	25	0.03	5	4	1.25	0.50	40	71.75	6.67	2.25	4.03	16.95
16	Holarrhena antidysenterica	15	0.03	4	4	1.00	0.40	40	17.93	5.33	6.25	1.45	13.03
				75	64				1233.84	100.02	100.00	100.00	300.02

Maturity index = 40.00 Continuum index = 1001

Table 130. Loc.130. Poovanchira Malayan colony

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	30	0.02	10	7	1.43	1.00	70	71.75	34.48	30.43	20.46	85.37
2	Lagerstroemia microcarpa	30	0.03	5	4	1.25	0.50	40	71.75	17 24	17.39	20.46	55.09
3	Lannea coromandelica	30	0.03	4	4	1.00	0.40	40	71.75	13.79	17.38	20.46	51.64
4	Acacia intsia	10	0.03	7	5	1.40	0.70	50	7.94	24.14	21.74	2.38	48.14
5	Terminalia crenulata	4G	0 03	3	3	1.00	0.30	30	127.42	10.34	13.04	36.34	59.72
				29	23				350.61	99.99	99.99	99.98	299.96

Maturity index = 46.00 Continuum index = 1243

Table 131. Loc.131. Kuzhiyodu top

1	Bombax malabaricum	65	0.03	8	5	1.10	0.80	50	336 36	22.86	19.23	10.92	52.51
2	Sterculia urens	60	0.02	8	6	1.33	0.80	60	286.37	22.86	23.08	9.30	55.24
3	Tetrameles nudiflora	I10	0.03	3	3	1.00	0.30	30	963.82	8.57	11.54	31.30	51.41
4	Garuga pinnata	55	0.05	2	2	1.00	0.20	20	240.n6	5.71	7 69	7.83	21.23
5	Terminalia crenulata	98	0.04	4	3	1.33	0.40	30	644 8C	11.43	11.54	20.94	43.48
6	Tectona grandis	80	0.03	5	4	1.25	0.50	40	509.65	14.29	15.38	16 55	46.22
7	Wrightia tinctoria	35	0.06	5	3	1.67	0.50	30	97.40	14.29	11.54	3.16	28 99
				35	26				3G79.36	100.01	100.00	100.00	300.01

Maturity index = 37.14 Continuum index = 2463

Table. 132 L o c .132. Machad Akamala (Upper slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	45	0.02	14	8	1.75	0.80	80	161.43	31.11	23.53	11.00	65.64
2	Gardenia turgida	20	0.10	1	1	1.00	0.10	10	31.75	2 22	2.94	2.16	7.32
3	Dillenia pentagyna	80	0.02	8	6	1.33	0.60	60	509.65	17.78	17.65	34.74	70.17
4	Terminalia crenulata	65	0.03	3	3	1.00	0.30	30	336.36	6 67	8.82	22.92	38.41
5	Acacia intsia	15	0.08	3	2	1.50	0.20	20	17.93	6.67	5.88	1.22	13.77
6	Careya arborea	35	0.10	1	1	1.00	0.10	10	97.40	2.22	2.94	6.64	11.80
7	Grewia tiliifolia	55	0.02	10	8	1.25	0.80	80	240.96	22.22	23.55	16.42	62.19
8	Wrightia tinctoria	30	0.02	5	5	100	0.50	50	71.75	11.11	14.71	4.89	30.71
				45	34				1467.23	100.00	100.02	99.99	300.01

Maturity index = 42.50 Continuum index = 2380

Table. 133. L o c .133 Machad Akamala (Mid slope)

1	Emblica officinalis	65	0.10	1	1	1.00	0.10	10	336.36	1.92	2.78	10.38	15.08
2	Limonia acidissima	20	0.20	2	1	2.00	0.20	10	31.75	3.85	2.78	0.98	7.61
3	Sterculia urens	95	0.10	1	1	1.00	0.10	10	718.81	1.92	2.78	22.18	26.88
4	Xylia xylocarpa	50	0.03	14	7	2.00	1.40	70	198.95	26.92	19.44	6.14	52.50
5	Dillenia pentagyna	65	0.02	6	5	1.20	0.60	50	336.36	11.54	13.89	10.38	35 81
6	Lagerstroemia microcarpa	70	0.04	9	5	1.80	0.90	50	390.33	17.31	13.89	12.05	43.25
7	Terminalia bellirica	120	0.02	6	5	1.20	0.60	50	1146.70	11.54	13.89	35.38	60.81
8	Gardenia turgida	20	0.05	2	3	1.00	0.20	20	31.75	3.85	5.55	0.98	10.38
9	Zizyphus xylopyrus	15	0.03	3	3	1.00	0.30	30	17.93	5 77	8.33	0.55	14.65
10	Butea superba	23	0.02	8	6	1.33	0.80	60	31.75	15.38	16.67	0.98	33.03
				52	36				3240.72	100.00	100.00	100.00	300.00

Maturity index = 36.00 Continuum index = 2077

Table 134. Loc.134. Akamala (Lower slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	DilIenia pentagyna	65	0.02	7	6	1.17	0.70	60	336.36	7.69	10.00	12.41	31.10
2	Acacia intsia	15	0.02	7	6	1.17	0.70	60	17.93	7.69	10.00	0.66	18.35
3	Bridelia squamosa	46	0.05	2	2	1.00	0.20	20	127.42	2.20	3.33	4.70	10.23
4	Xylia xylocarpa	55	0.02	15	9	1.67	1.50	90	240.96	16.48	15.00	8.89	40.37
5	Lagerstroemia microcapa	65	0.02	9	7	1.29	0.90	70	336.36	9.89	11.67	12.41	33.97
6	Helectres isora	15	0.30	22	8	2.75	2.20	80	17 93	24.18	1.3.33	0.66	38.17
7	Wrightia tinctoria	25	0.02	6	5	1.20	0.60	50	49.74	6.59	8.33	1.83	16.72
8	Holarrhena antidysenterica	20	0.03	4	4	1.00	0.40	40	31.75	4.40	6.67	1.17	12.24
9	Sterculia urens	95	0.10	1	1	1.00	0.10	10	718.81	1.10	1.67	26.51	29.28
10	Grewia tiliifolia	65	0.02	14	8	1.75	1.40	80	336.36	15.38	13.33	12.41	41.15
11	Lannea coromandelica	45	0.05	2	2	1.00	0.20	20	161.43	3.20	3.33	5.95	11.18
12	Bombax malabaricum	65	0.05	2	2	1.00	0.20	20	336.36	2 20	3.33	12.41	17.94
				91	60				2711.41	100.00	Q9.99	100.01	300.00

Maturity index = 50.00 **Continuum index = 2115**

Table 135. Loc. 135. Karineelivellam (Upper slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Polyalthia fragrans	45	0.02	7	6	1.17	0.70	60	161.43	6.36	8.22	3.81	18.39
2	Terminalia bellirica	110	0.05	2	2	1.00	0.20	20	963.82	1.82	2.74	22.78	27.34
3	Aporusa lindleyana	30	0.02	11	8	1.38	1.10	80	71.75	10.00	10.96	1.70	22.66
4	Myristica dactyloides	100	0.03	7	5	1.40	0.70	50	795.83	6.36	6.85	18.81	32.02
5	Calamus sp.	20	0.03	21	9	2.33	2.10	90	31.75	19.09	12.33	0.75	32.17
6	Holigarna arnottiana	110	0.02	8	7	1.14	0.80	70	963.82	7.27	9.59	22.78	39.64
7	Gardenia turgida	25	0.04	4	3	1.33	0.40	30	49.74	3.64	4.11	1.18	8.93
8	Hopea parviflora	65	0.02	8	7	1.44	0.80	70	336.36	7.27	9.59	7.95	24.81
9	Syzygium cumini	45	0.03	3	3	1.00	0.30	30	161.43	2.73	4.11	3.81	10.65
10	Palaquium ellipticum	65	0.01	13	9	1.14	1.30	90	336 36	11.82	12.33	7.95	32.10
11	Zizyphus xylopyrus	10	0.04	18	7	2.57	1.80	70	7.94	16.36	9.59	0.19	26.14
12	Garcinia malabarica	48	0.03	5	4	1.25	0.50	40	183.28	4.55	5.48	4.33	14.36
13	Hydnocarpus pentandra	46	0.03	3	3	1.00	0.30	30	168.24	2.73	4.11	3.98	10.82
				110	73				4231.70	100.00	100.00	100.02	300.02

Maturity index = 56.15 Continuum index=2047

Table 136.. Loc.136. Karineelivellam (Lower slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Polyalthia fragrans	65	0.02	7	6	1.17	0.70	60	336.36	10.45	13.95	17.00	41.40
2	Hopea parviflora	80	0.03	9	6	1.50	0.90	60	509.65	13.43	13.95	25.76	53.14
3	Garcinia malabarica	38	0.03	3	3	1.00	0.30	30	114.92	4.48	6.98	5.81	17.27
4	Myristica dactyloides	85	0.03	8	3	1.00	0.30	30	576.66	4.48	6.98	29.14	40.60
5	Palaquium ellipticum	58	0.03	7	5	1.45	0.70	50	268.09	10.45	11.63	13.55	35.63
6	Zizyphus xylopyrus	10	0.04	20	7	2.86	2.00	70	7.94	29.85	16.28	0 40	46.53
3	Calamus sp.	15	0.02	13	8	1.63	1.30	80	17.93	19.40	18.60	0.91	38.91
8	Aporusa lindleyana	25	0.03	3	3	1.00	0.30	30	49.74	4.48	6.98	2.51	13.97
9	Hydnocarpus pentandra	35	0.05	2	2	1.00	0.20	20	97.40	2.99	4.65	4.92	12.56
				67	43				1978.69	100.01	100.00	100.00	300.01

Maturity index = 47.78 Continuum index = 21 13

Table. 137. L o c .137. Vattuli (top)

Sl. No,	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	75	0.02	16	9	1.78	1.60	90	447.64	21.33	16.07	10.43	47.83
2	Tectona grandis	65	0.03	9	6	1.50	0.90	60	336.36	12.00	10 71	7.84	30.55
3	AIbizia procera	60	0.05	2	2	1.00	0.20	20	286.37	2.67	3.57	6.68	12.92
4	Dalbergia latifolia	58	0.10	1	1	1.00	0.10	10	268.09	1.33	1.79	6.25	9.37
5	Pterocarpus marsupium	50	0 10	I	1	1.00	0.10	10	198.95	1.33	1.79	4.64	7.76
6	Lannea coromandelica	48	0.02	6	5	1.20	0.60	50	183.28	8.00	8.93	4.27	21.20
7	Lagerstroemia microcarpa	105	0.02	11	8	1.38	1.10	80	877.82	14.67	14.29	20.46	49.42
8	Piliostigma malabaricum	35	0.05	2	2	1.00	0.20	20	97.40	2.67	3.67	2.27	8.51
9	Bombax insigne	45	0.05	2	2	1.00	0.20	20	161.43	2.67	3.57	3.76	10.00
10	Xylia xylocarpa	50	c.02	10	7	1.43	1.00	70	198.95	13 33	12.60	4.64	30.47
11	Terminalia crenulata	56	0.03	4	4	1.00	0.40	40	249.85	5.33	7.14	5.82	18.29
12	Artocarpus hirsutus	85	0.05	2	2	1.00	0.20	20	575.66	2.67	3.57	13.42	19.66
13	Wrightia tinctoria	30	0.03	7	5	1.40	0.70	50	71.75	9.33	8.93	1.67	19.93
14	Sterculia urens	65	0.05	2	2	1.00	0.20	20	336 36	2.67	3.57	7.84	14.08
				75	56				4289.91	100.00	100.00	99.99	299.99

Maturity index = 40.00 **Continuum index = 1867**

Table. 138. L o c .138. Vattuli (Upper slope)

Sl. No	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	50	0.03	11	6	1.83	1.10	60	198.95	13.58	10.17	4.57	28.32
2	Dillenia pentagyna	85	0.02	11	7	1.57	1.10	70	575.66	13.58	11.86	13.21	32.65
3	Holarrhena antidysenterica	15	0.05	2	a	1.00	0.20	20	17.93	2.41	3.39	0.41	6.27
4	Terminalia crenulata	65	0.04	4	3	1.33	0.40	30	336.36	4.94	5.08	7.72	17.74
5	Xylia xylocarpa	48	0.02	10	7	1.43	1.00	70	183.28	12.36	11.86	4.21	28.42
6	Terminalia bellirica	65	0.03	3	3	1.00	0.30	30	336.36	3.70	6.08	7.72	16.50
7	Mallotus philippensis	35	0.10	1	1	1.00	0.10	10	97.40	1.23	1.69	2.24	5.16
8	Acacia intsia	15	0.08	3	2	1.50	0.80	20	17.93	3.70	3.39	0.41	7.50
9	Lagerstroemia microcarpa	98	0.03	4	4	1.00	0.40	40	766.12	4.94	6.78	17.56	29.28
10	Meyna laxiflora	28	0.03	3	2	1.50	0.30	20	62.45	3.70	3.39	1.43	8.52
11	Gardenia turgida	25	0.03	4	4	1.00	C.40	40	49.74	4.94	6.78	1.14	12.86
12	Lannea coromandelica	41	0.03	10	6	1.67	1.00	60	133.89	12.35	10.17	3.07	25.59
13	Morinda tinctoria	25	0.10	1	1	1.00	0.10	10	49.74	1.23	1.69	1.14	4.06
14	Ficus hispida	110	0.05	2	2	1.00	0.20	20	963.82	2.47	3.39	22.12	27.98
15	Steriospermum colais	65	0.10	1	1	1.00	0.10	10	336.36	1.23	1.69	7.72	10.64
16	Cassia fistula	38	0.10	1	1	1.00	0.10	10	114.92	1.23	1.69	2.64	5.56
17	Zizyphus xylopyrus	16	0.03	8	6	1.60	0.80	50	20.41	9.88	8.47	0.47	18.82
18	Bombax malabaricum	35	0.05	2	2	1.00	0.20	20	97.40	2.47	3.39	2.24	8.10
				81	59				4357.69	99.99	99.99	100.02	300.00

Maturity index = 32.78 Continuum index = 1937

Table. 139. Loc.139. Vattuli (Mid slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Ficus religiosa	115	0.03	5	4	1.25	0.50	40	1052.72	4.50	5.48	26.69	36.67
2	Trewia nudiflora	45	0.03	3	3	1.00	0.30	30	161.43	2.70	4.11	4.09	10.90
3	Terminalia crenulata	62	0.03	3	3	1.00	0.30	30	305.90	2.70	4.11	7.76	14.57
4	Bombax malabaricum	48	0.03	5	4	1.26	0.50	40	183.28	4.50	5.48	4.65	14.63
5	Lagerstroemia microcarpa	50	0.04	7	4	1.75	0.70	40	198.95	6.31	5.48	5.04	16.53
6	Dillenia pentagyna	60	0.02	14	8	1.75	1.40	80	286.37	12.61	10.96	7.26	30.83
7	Tectona grandis	45	0.05	2	2	1.00	0.20	20	161.43	1.80	2.74	4.09	8.63
8	Xylia xylocarpa	45	0.02	9	7	1.29	0.90	70	161.43	8.11	9.59	4.09	21.79
9	Zizyphus xylopyrus	15	0.02	8	4	4.00	0.80	20	17.93	7.21	2.74	0.45	10.40
10	Acacia intsia	15	0.08	3	2	1.50	0.30	20	17.93	2.70	2.74	0.45	5.89
11	Lannea coromandelica	38	0.02	12	7	1.71	1.20	70	114.92	10.81	9.59	2.91	23.31
12	Dalbergia latifolia	38	0.02	10	8	1.25	1.00	80	114.92	9.00	10.96	2.91	22.87
13	Gardenia turgida	20	0.03	3	3	1.00	0.30	30	31.75	2.70	4.11	0.81	7.62
14	Meyna laxiflora	25	0.04	6	4	1.50	0.60	40	49.75	5.41	6.48	1.26	12.15
15	Clerodendron inerme	20	0.10	1	1	1.00	0.10	10	31.75	0.90	1.37	0.81	3.08
16	Holarrhena antidysenterica	15	0.04	15	6	2.50	1.50	60	17.93	13.51	8.22	0.45	22.18
17	Termilalia bellirica	110	0.03	4	4	1.00	0.40	40	963.82	3.60	5.48	24.44	33.52
18	Mallotus philippensis	30	0.10	1	1	1.00	0.10	10	71.75	0.90	1.37	1.82	4.09
				111	73				3943.95	99.99	99.99	99.99	299.97

Maturity index = 40.56 Continuum index = 2000

Table. 140. L o c .140. Thunjathepacha

Sl. No.	Name of species	Av:Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Polyalthia fragrans	35	0.03	8	5	1.60	0.80	50	97.40	13.11	11.36	5.58	27.05
2	Calamus sp.	L5	0.03	16	7	2.29	1.60	70	17.93	26.23	15.91	0.47	42.61
3	Myristica dactyloides	105	0.03	3	3	1.00	0.30	30	887.82	4 92	6.82	23.22	34.96
4	Mallotus philippensis	30	5.05	2	2	1.00	0.20	20	72.75	3.28	4.55	1.90	9.73
5	Hydnocarpus pentandra	38	0.02	5	5	1.00	0.50	50	114.92	8.20	11.38	3.04	22.60
6	Palaquium ellipticum	68	0.02	6	5	1.20	0.60	50	368.29	9.84	11.36	9.74	30.94
7	Randia dumetorum	25	Q.03	3	3	1.00	0.30	30	49.74	4.92	6.82	1.32	13.06
8	Xylia xylocarpa	65	0.03	7	5	1.40	0.70	50	336.36	11.48	11.36	8.90	31.74
9	Dillenia pentagyna	60	0.03	3	3	1 00	0.30	30	236.37	4.92	6.82	7.57	19.31
10	Ficus benghalensis	115	0.10	1	1	3.00	0.10	10	1052.71	1.64	2.27	27.85	31.76
11	Sterculia urens	39	0 10	1	1	1.00	0.10	10	121.08	1.64	2.27	3.20	7.11
12	Baccaurea courtallensis	35	0.32	2	1	2.00	0.20	10	97.40	3.28	2.27	2.58	8.13
13	Sterculia guttata	45	0.10	3	1	1.00	0.10	10	161.43	1.64	2.27	4.27	8.20
14	Spondius mangifera	40	0.08	3	2	1.00	0.30	20	127.42	4.92	4.55	3.37	12.84
				61	44				3780.63	100.02	99.99	100.01	300.02

Maturity index = 31.43 Continuum isdex = 1716

Table. 141. Loc.141. Mundichiparutha

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	45	0.02	8	6	1.33	0.80	60	161.43	15.69	15.38	13.29	44.36
2	Dillenia pentagyna	50	0.03	9	6	1.50	0.90	60	198.95	17.65	15.88	16.38	49.41
3	Terminalia crenulata	50	0.03	3	3	1.00	0.30	30	198.95	5.88	7.69	16.38	29.95
4	Lannea coromandelica	35	0.03	5	4	1.25	0.50	40	97.40	9.80	10.26	8.02	28.08
5	Grewia tiliifolia	45	0.02	11	7	1.57	1.10	70	161.43	21.57	17.95	13.29	52.81
6	Pterocarpus marsupium	40	0.03	3	3	1.00	0.30	30	161.43	5.88	7.69	13.29	26.86
7	Gardenia turgida	30	0.05	2	2	1.00	0.20	20	127.42	3.92	5.13	10.49	19.54
8	Meyna laxiflora	28	0.20	2	1	2 .00	0.20	10	71.75	3.92	2.56	5.91	12.39
9	Acacia intsia	15	0.03	3	2	1.50	0.30	20	17.93	5.88	5.13	1.48	12.39
10	Butea superba	15	0.02	5	5	1.00	0.50	50	17.93	9.80	12.82	1.48	24.10
				51	39				1214.62	99.99	99.99	100.01	299.99

Maturity index = 39.00 Continuum index = 1977

Table. 142. Loc.142 Mundichiparutha (Mid slope)

1	Xylia xylocarpa	65	0.04	16	6	3.67	1.60	60	336.36	26.67	14.29	15.50	56.46
2	Dillenia pentagyna	48	0.02	9	7	1.20	0.90	70	183.28	15.00	16.67	8.45	40.12
3	Gardenia turgida	25	0.10	1	1	1.00	0.10	10	49.74	1.67	2.38	2.29	6.34
4	Acacia intsia	20	0.05	2	2	1.00	0.20	20	31.75	3.33	4.76	1.46	9.55
5	Terminalia crenulata	85	0.02	9	7	1.29	0.90	70	575.66	15.00	16.67	26.53	58.25
6	Terminalia bellirica	80	0.03	4	4	1.00	0.40	40	509.65	6.67	9.52	23.49	39.68
7	Lannea coromandelica	40	0.04	4	3	1.33	0.40	30	127.42	6.67	7.14	5.87	19.68
8	Pterocarpus marsupium	8	0.02	10	7	1.43	100	70	183.28	16.67	16.67	8.45	41.79
9	Emblica officinalis	42	0.03	3	3	1.00	0.30	30	140.55	5 00	7.14	6.48	18.62
10	Meyna laxiflora	20	0.50	2	2	1.00	0.20	20	31.75	3.33	4.76	1.46	9.55
				60	42				2169.44	100.01	100.00	99.98	299.99

Maturity index = 42.00 Continuum index = 2182

Table 143. L o c .143. Kadakandamchal pacha

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Vitex altissima	65	0.03	3	3	1.00	0.30	30	336.36	3.85	5.56	13.45	23.76
2	Aporusa lindleyana	3 2	0.06	5	3	1.67	0.50	30	81.67	6.41	5.56	3.48	15.45
3	Myristica dactyloides	80	0.02	5	5	1.00	0.50	50	509.65	6.41	9.26	21.73	37.40
4	Palaquium ellipticum	60	0.04	6	4	1.50	0.60	40	286.37	7.69	7.41	12.21	27.31
5	Polyalthia fragrans	62	0.03	7	5	1.40	0.70	50	305.90	8.97	9.26	13.05	31.28
6	Limonia acidissima	18	0.03	4	4	1.00	0.40	40	25.87	5.13	7.41	1.10	13.64
7	Glycosmis pentaphylla	10	0.03	4	3	1.00	0.40	30	7.94	6.13	7.41	0.34	12.88
8	Garcinia malabarica	30	0.03	4	4	1.33	0.40	43	71.75	5.13	5.56	3.06	13.75
9	Diospyros buxifolia	40	0.04	6	4	1.50	0.60	40	127.42	7.69	7.41	5.43	20.53
10	Holigarna arnottiana	45	0.02	9	7	1.29	0.90	70	161.43	11.54	12.96	6.88	31.38
11	Mallotus phillippensis	28	0.03	4	4	1.00	0.40	40	62.45	5.43	7.41	2.66	15.20
12	Calamus sp.	20	0.05	19	6	1.17	1.90	60	31.75	24.36	11.11	1.35	36.82
13	Sterculia urens	65	0.05	2	2	1.00	0.20	20	336 36	2.56	3.70	14.35	20.61
				78	54				2344.92	100.00	100.02	99.99	300.01

Maturity index = 41.54 Continuum index= 1996

Table 144. Loc.144. Kadakandamchal top

Sl. No.	Name of species	Av.Gth.	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Polyalthia fragrans	65	0.02	8	7	1.14	0.80	70	336.36	14.81	15.22	12.78	42.81
2	Myristica dactyloides	15	0.02	5	5	1.00	0.50	50	286.37	9.26	10.87	1.0.88	31.01
3	Garcinia malabarica	42	0.05	2	2	1.00	0.20	20	198.95	3.70	4.35	7.56	15.61
4	Ficus hispida	55	0.10	1	1	1.00	0.10	10	644.80	1.85	2.17	24.50	28.52
5	Calamus sp.	65	0.02	12	7	1.71	1.20	70	31.75	24.22	15.22	1.21	38.65
6	Aporusa lindleyana	15	0.03	3	3	1.00	0.30	30	49.74	5.56	6.52	1.89	13.97
7	Palaquium ellipticum	25	0.01	7	7	1.00	0.70	70	127.42	12.96	15.22	4.84	33.02
8	Schleichera oleosa	22	0.05	2	2	1.00	0.20	20	305.90	3.70	4.35	11.62	19.67
9	Holigarna arnottiana	95	G.03	5	4	1.25	0.50	40	336.36	9.26	8.70	16.78	30.74
10	Hopea parviflora	65	0.03	4	4	1.00	0.40	40	114.92	7.41	8.70	4.37	20.48
11	Randia dumetorum	45	0.10	1	1	1.00	0.10	10	71.75	1.85	2.17	2.73	6.75
12	Diospyros buxifolia	65	0.04	4	3	1.33	0.40	30	127.42	7.41	6.52	4.84	18.77
				54	64				2631.74	99.99	100.01	100.00	300.00

Maturity index = 38.33 Continuum index = 1796

Table 145. L o c .145. Kompara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Dillenia pentagyna	65	0.03	9	6	1.50	0.90	60	336.36	21.95	18.18	17.27	57.40
2	Lagerstroemia microcarpa	60	0.02	6	5	1.20	0.60	50	286.27	14.63	15.15	14.71	44.49
3	Piliostigma malabaricum	38	0.05	2	2	1.00	0.20	20	114.92	4.88	6.06	5.90	16.84
4	Terminalia crenulata	55	0.02	8	6	1.33	0.80	60	240.96	19.51	18.18	12.37	50.06
5	Mitragyna parvifolia	60	0.03	3	3	1.00	0.30	30	286.37	7.32	9.09	14.71	31.13
6	Macaranga peltata	65	0.03	3	3	1.00	0.30	30	236.36	7.32	9.09	17.27	33.68
7	Bombax malabaricum	50	0.03	7	5	1.40	0.70	50	198.95	17.07	15.15	10.22	42.44
8	Bambusa sp.	25	0.05	2	2	1.00	0.20	20	49.74	4.88	6.06	2.55	13.49
9	Garuga pinnata	35	0.10	1	1	1.00	0.10	10	97.40	2.44	3.03	5.00	10.47
				41	33				1947.43	100.00	99.99	100.00	299.99

Maturity index = 36.67 Continuum index = 2014

Table. 146. L o c .146. Vellarikulam pacha (Upper slope)

1	Polyalthia fragrans	45	0.03	3	3	1.00	0.30	30	161.43	7.32	9.38	6 22	22.92
2	Myristica dactyloides	60	0.05	2	2	1.00	0.20	20	286.37	4.88	6.25	11.03	22.16
3	Dipterocarpus indicus	110	0.05	2	2	1.00	0.20	20	963.82	4 88	6.25	37.13	48.26
4	Calamus sp.	20	5.03	14	7	2.00	1.40	70	31.75	34.15	21.88	1.22	57.24
5	Palaquium ellipticum	60	0 .02	7	6	1.17	0.70	60	286.37	17.07	18.75	11.03	46.85
6	Schleichera oleosa	65	0.04	4	3	1.33	0.40	30	336.36	9.76	9.38	12.96	32.10
7	Hydnocarpus pentandra	40	0.03	3	3	1.00	0.30	30	127.42	7.32	9.38	4.91	21.61
8	Cinnamomum verum	45	0.03	4	4	1.00	0.40	40	161.43	7.32	12.50	6.22	28.48
9	Vateria indica	55	0.05	2	2	1.00	0.20	20	240.96	9.76	6.25	9.28	20.41
				41	32				2595.91	100.02	100.01	100.00	300.03

Maturity index = 35.56 Continuum index = 1586

Table. 147. Loc.147. Veliarikulampacha (Mid dope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Caiamus sp.	20	0.02	11	8	1.38	1.10	80	31.76	32.43	26.67	1.12	59.22
2	Polyaltbia fragrans	60	0.03	3	3	1.00	0.30	30	286.37	81.57	10.00	10.08	28.65
3	Vateria indica	60	0.05	a	2	1.00	0.20	20	286.37	5.71	6.67	10.08	22.46
4	Diospyros buxifolia	45	0.02	6	5	1.20	0.60	50	161.43	17.44	16.67	5.68	39.49
5	Myristica dactyioides	55	0.02	5	5	1.00	0.50	50	240.96	14.29	16.67	8.48	39.44
6	Artocarpus hirsutus	105	0.10	1	1	1.00	0.10	10	877.82	2.86	3.33	80.89	37.08
7	Palaquinm ellipticum	80	0.02	6	5	1.20	0.60	50	509.65	17.14	16.67	17.93	51.74
8	Hopea parviflora	75	9.10	1	1	1.00	8.10	10	447.64	2.86	3.33	15.75	21.89
				35	30				2841.99	100.00	100.01	100.01	300.02

Maturity index = 37.50 Continuum index = 1701

Table. 148. **L o c .148. Kozhivettukunnuu(Mid slope)**

Sl. No.	Name of species	Av.Gth.	Ab/F	No Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	**Terminalia crenulata**	45	*0.03*	4	4	1.00	0.40	40	161.43	8.00	9.76	4.41	22.17
2	**Xylia xylocarpa**	55	0.02	9	7	1.29	0.90	70	240.96	18.00	17.07	6.58	41.65
3	**Grewia tiliifolia**	50	**0.03**	5	4	1.25	0.50	40	198.95	10.00	9.76	5.43	25.19
4	**Tetrameles nudiflora**	115	0.05	2	2	1.00	0.20	20	1052.72	4.00	4.88	28.74	37.62
5	**Lannea coromandelica**	40	0.05	2	2	1.00	0.20	*20*	127.42	4.00	4.88	3.48	12.36
6	**Bambusa sp.**	25	0.06	5	3	1.67	0.50	30	49.74	10.00	7.32	1.36	18.68
7	**Dilienia pentagyna**	88	*0.02*	7	6	1.17	0.70	60	616.32	14.00	14.63	16.83	45.46
8	**Spondius mangifera**	46	0.05	2	2	1.00	0.20	20	168.24	4.00	4.88	4.59	13.47
9	**Acacia intsia**	15	0.05	a	2	**1.00**	0.20	20	17.93	4.00	4.88	0.49	9.37
10	**Lagerstroemia microcarpa**	90	0.03	8	5	1.60	0.80	50	644.80	16.00	12.20	17.61	45.81
11	**Careya arborea**	35	0.03	3	3	1.00	0.30	30	97.40	6.00	7.32	2.66	15.98
12	**Macaranga peltata**	60	0.10	1	1	1.00	0.10	10	286.37	2.00	2.44	7.82	12.26
				50	41				3662.28	100.00	100.00	100.00	300.00

Maturity index = 34.17 **Continuum index = 1952**

Table **149.** Loc.**149.** Olumpar

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	48	0.02	8	6	1.33	0.80	60	183.28	10.96	10.17	7.52	28.65
2	Dillenia pentagyna	40	0.02	5	5	1.00	0.50	50	127.42	6.85	8.47	5.22	20.54
3	Tectona grandis	40	0.03	4	4	1.00	0.40	40	127.42	5.48	6.78	5.22	17.48
4	Meyna laxiflora	35	0.08	3	2	1.50	0.30	20	97.40	4.11	3.39	3.99	11.49
5	Gardenia turgida	30	0.10	1	1	1.00	0.10	10	7175	1.37	1.69	3.94	6.00
6	Terminalia crenulata	60	0.02	6	5	1.20	0.60	50	286.37	8.22	8.47	11.74	28.43
7	Lagerstroemia microcarpa	48	0.02	8	6	1.33	0.80	60	183.37	10.96	10.17	7.52	28.65
8	Holarhena antidysenterica	15	0.04	9	5	1.80	0.90	50	17.93	12.33	8.47	0.74	24.54
9	Wrightia tinctoria	30	0.02	8	7	1.14	0.80	70	71.75	10.96	11.86	5.94	25.76
10	Sterculia urens	85	0.10	1	1	1.00	0.10	10	575.66	1.37	1.69	23.60	26.66
11	Bombax malabaricum	55	0.03	3	3	1.00	0.30	30	240.96	4.11	5.08	9.88	19.07
12	Emblica officinalis	50	0.03	4	4	1.00	0.40	40	198.95	5.48	6.78	8.16	20.42
13	Garuga pinnata	40	0.03	4	4	1.00	0.40	40	127.42	5.48	6.78	5.22	17.48
14	Limonia acidissima	20	0.04	7	4	1.75	0.70	40	31 75	9.59	6.78	1.30	17.67
15	Piliostigma malabaricum	35	0.05	2	2	1.00	0.20	20	97.40	2.74	3.39	3.93	10.12
				73	59				2438.83	100.01	100.00	99.98	299.99

Maturity index = 39.33 Continuum index = 2401

Table 150. Loc. 150. Murikkinthandu

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.0cc.	Ab	D	%F	BA	RD	RF	RBA	IVI
I	Mitragyna parvifolia	60	0.05	2	2	1.00	0.20	20	286.37	2.25	2.90	13.04	18.19
2	Grewia tiliifolia	48	0.02	5	5	1.00	0.50	50	183.28	5.62	7.25	8.35	21.22
3	Tectona grandis	45	0.02	10	7	1.43	1.00	70	161.43	11.24	10.10	7.35	28.73
4	Terminalia crenulata	48	0.02	6	6	1.00	0.60	60	183.28	6.74	8.70	8.35	23.79
5	Bomax malabaricum	35	0.03	3	3	1.00	0.30	30	97.40	3.37	4.35	4.44	12.16
6	Lagerstroemia mictocarpa	50	0.03	9	6	1.50	0.90	60	198.95	10.11	8.70	9.06	27.87
7	Meyna laxiflora	30	0.02	6	5	1.20	0.60	50	71.75	6.74	7.25	3.27	17.26
8	Albizia procera	65	0.03	3	3	1.00	0.30	30	336.36	3.37	4.35	15.32	28.04
9	Acacia intsia	20	0.04	7	4	1.75	0.70	40	31.75	7.87	5.80	1.45	15.12
10	Zizyphus xylopyrus	15	0.03	9	6	1.50	0.90	60	17.93	10.11	8.70	0.82	19.63
11	Xylia xylocarpa	50	0.02	8	6	1.33	0.80	60	198.95	8.99	8.70	9.06	26.76
12	Garuga pinnata	40	0.03	4	4	1.00	0.40	40	127.42	4.49	5.80	5.80	16.09
13	Cassia fistula	35	0.10	1	1	1.00	0.10	10	97.40	1.12	1.45	4.44	7.01
14	Lannea coromandelica	38	0.05	2	2	1.00	0.20	20	114.92	2.25	2.90	5.23	10.38
15	Wrightia tinctoria	28	0.02	8	6	1.33	0.80	60	62.45	8.39	8.70	2.84	10.53
16	Holarrhena antidysenterica	18	0.05	6	3	1.50	0.60	30	25.87	6.74	4.35	1.18	12.27
				89	67				2195.51	100.00	100.00	100.00	300.06

Maturity index = 43.13 Continuum index– 2176

Table. 151. Loc. 151. Kallipara (Upper slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Qcc.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	50	0.05	2	2	1.00	0.20	23	198.95	3.77	4.65	11.21	19.63
2	Xylia xylocarpa	43	0.02	8	6	1.33	0.80	60	183.28	15.09	13.95	10.33	39.37
3	Terminalia crenulata	55	0 03	4	4	1.00	0.40	40	240.96	7.55	9.30	13.57	30.42
4	Terminalia bellirica	60	0.05	2	2	1.00	0.20	20	286.87	3.77	4.65	16.13	24.55
5	Dillenia pentagyna	40	0.02	12	8	1.25	1.20	80	127.42	18.87	18.60	7.18	44.65
6	Albizia procera	60	0.05	2	2	1.00	0.20	20	286.37	3.77	4.65	16.13	24.55
7	Butea superba	25	0.04	4	3	1.33	0.40	30	49.74	7.55	6.98	2.80	17.33
8	Garuga pinnata	40	0.04	7	4	1 7 5	0.70	40	127.42	13.21	9.30	7.18	29.69
9	Bambusa sp.	25	0.03	7	5	1.40	0.70	50	49.74	13.21	11.63	2.80	27.64
10	Piliostigma malabaricum	35	0.02	5	5	1.00	0.50	50	97.40	9.43	11.63	5.49	26.55
11	Bombax insigne	40	0.05	2	2	1.00	0.20	20	114.92	3.77	4.65	7.18	15.60
				53	43				1775.07	99.99	99.99	100.00	29978

Maturity index = 39.09 **Continuum index = 1469**

Table 152. L o c .152 Kallipara (Mid slope)

1	Tectona grandis	55	0.03	4	4	1.00	0.40	40	161.43	8.89	10.81	10.00	29.70
2	Lagerstroemia microcarpa	4G	0.03	4	4	1.00	0.40	40	127.42	8.89	10.81	7.89	27.59
3	Dalbergia latifolia	40	0.05	2	2	1.00	0.20	20	127.42	4.44	5.41	7.89	17.74
4	Acacia intsia	20	0.04	4	3	1.33	0.40	30	31.75	8.89	8.11	1.97	18.97
5	Sterculia urens	82	0.05	2	2	1.00	0.20	20	535.86	4.44	5.41	33.17	43 02
6	Dillenia pentagyna	48	0.02	9	7	1.29	0.99	70	183.28	20.20	18.92	11.35	50.27
7	Spondias mangifera	40	0.05	2	2	1.00	0.20	20	127.42	4.44	5.41	7.89	17.74
8	Butea superba	25	0.02	6	5	1.20	0. 60	50	49.74	13.33	13.51	3.08	29.92
9	Xylia xylocarpa	50	0.03	9	6	1.50	0.90	60	198.95	20 00	16.22	12.32	48.54
10	Bambusa sp.	30	0.08	3	2	1.50	0.30	20	71.75	6.67	5.41	4.44	16.52
				45	37				1614.72	99.99	100.02	100.00	300.01

Maturity index = 37.00 **Continuum index = 1856**

Table. 153. L o c .153. Uravampadom

Sl. No	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	55	0.02	13	8	1.63	1.30	80	240.96	10.08	8.42	4.43	22.93
2	Terminalia bellirica	60	0.02	7	6	1.17	0.70	60	286.37	5.43	6.32	5.27	17.02
3	Terminalia crenulata	65	0.02	5	5	1.00	0.50	50	336.36	3.88	5.26	6.19	15.33
4	Meyna laxiflora	30	0.08	3	2	1.50	0.30	20	71.75	2.33	2.11	1.32	5.76
5	Acacia intsia	20	0.04	4	3	1.33	0.40	30	31.75	3.10	3.16	3.58	6.84
6	Victex altissima	30	0.10	1	1	1.00	0.10	10	71.75	0.76	1.05	1.32	3.15
7	Macaranga peltata	60	0.03	5	4	1.25	0.50	40	286.37	3.88	4.21	5.27	13.36
8	Schleichera oleosa	60	0.06	5	3	1.67	0.53	30	286.37	3.88	3.16	5.27	12.31
3	Celastrus paniculata	15	0.05	13	5	2.60	1.30	50	17.93	10.08	5.26	0.33	15.67
10	Gardenia turgida	25	0.03	4	4	1.00	0.40	40	19.74	3.10	4.21	0.92	8.23
11	Ficus hispida	110	0.03	3	3	1.00	0.30	30	963.82	2.33	3.16	17.74	23.23
12	Dillenia pentagyna	60	0.03	11	6	1.83	1.10	60	286.37	8.53	1.05	5.27	20.12
13	Emblica officinalis	40	0.03	3	3	1.00	0.30	30	127.42	2.33	5.26	2.35	7.84
14	Garuga pinnata	38	0.10	1	1	1.00	0 10	10	114.92	0.78	7.37	2.11	3.94
15	Lannea coromandelica	40	0.02	6	5	1.20	0.60	50	127.42	4.65	8.42	2.35	12.26
16	Lagerstroemia microcarpa	55	0.02	11	7	1.57	1.10	70	240.96	8.53	5.26	4.43	20.33
17	Xylia xylocarpa	50	0.02	11	8	1.38	1.10	80	198.95	8.53	5.26	3.66	20.61'
18	Wrightia tinctoria	35	0.02	6	5	i.20	0.60	50	97.40	4.65	2.11	1.79	11.70
19	Holarrhena antidysenterica	15	0.02	6	5	1.20	0.60	50	17.93	4.65	1.05	0.33	10.24
20	Tetrameles nudiflora	105	0.05	2	2	100	0.20	20	877.82	1.55	2.11	16.16	19.82
21	Steriospermum colais	80	6.10	1	1	1.00	0.10	10	509.65	0.78	1.05	9.38	11.21
22	Zizyphus xylopyrus	20	2.05	2	2	1.00	0.20	20	31.75	1.55	2.11	0.58	4.24
23	Bambusa sp.	28	6.03	4	4	4.00	0.40	40	62.45	3.10	4.21	1.15	8.46
24	Mallotus philippensis	35	5.05	2	2	1.00'	0.20	20	97.40	1.55	2.11	1.79	5.49
				129	95				5433.61	100.02	100.01	99.99	300.02

Maturity index = 40.42 **Continuum index = 1812**

Table 154. Loc.154 Mampara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Zizyphus xylopyrus	25	0.02	8	6	1.33	0.30	60	48.74	7.14	7.89	1.44	16.47
2	Helectres isora	15	0.04	26	8	3.25	2.60	80	17.93	23.21	10.53	0.52	34.26
3	Xylia xylocarpa	55	0.02	7	6	1.17	0.70	60	240.96	6.25	6.89	6.99	21.13
4	Lagerstroemia microcarpa	80	0.02	6	6	1.00	0.60	60	509.65	5.36	7.89	14.79	28.04
5	Dillenia pentagyna	65	0.02	11	8	1.38	1.10	80	336.36	9.82	10.53	9.76	30.11
6	Celastrus paniculata	20	0.06	5	3	1.67	0.50	30	31.75	4.46	3.35	0.92	9.33
7	Careya arborea	25	0.10	1	1	1.00	0.10	10	49.74	0.89	1.32	1.44	3.65
8	Grewia tiliifolia	35	0.03	13	7	1.86	1.30	70	97.40	11.61:	9.21	2.83	23.65
9	Terminalia bellirica	a5	0.02	8	6	1.33	0.80	60	575.66	7.14	7.89	16.71	31.74
10	Terminalia crenulata	80	0.05	2	2	1.00	0.20	20	509.65	1.79	2.63	14.79	19.21
11	Dalbergia latifolia	25	0.05	2	‘2	1.00	0.20	2 0	49.74	1.79	2.63	1.44	5.86
12	Macaranga peltata	55	0.03	3	3	1.00	0.30	30	240.96	2.68	3.95	6.99	13.62
13	Sterculia urens	65	0.03	3	3	1.00	0.30	30	336.36	2.68	3.95	9.76	16.39
14	Tectona grandis	50	*0.02*	7	6	1.17	0.70	60	198.95	6.25	7.89	5.77	19.91
15	Butea superba	35	0.03	3	3	1.00	0.30	30	97.40	2.68	3.95	2.83	9.46
16	Acacia intsia	20	0.02	6	5	1.20	0.60	50	31.75	5.36	8.58	0.92	12.86
17	Bambusa sp.	30	0.10	1	1	1.00	0.10	10	71.75	0.89	1.32	2.08	4.29
				112	76				3445.75	100.00	100.00	99.98	290.98

Maturity index = 44.71 **Continuum index= 2020**

Table 155. Loc.155. Olakara

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Diospyros microphylla	45	0.02	8	6	1.33	0.80	60	161.43	10.53	10.17	6.79	24.W
2	Dillenia pentagyna	45	0.02	7	6	1.17	0.70	60	161.43	9.21	09.17	6.79	26.17
3	Butea superba	20	0.03	3	3	1.00	0.30	30	31.75	3.95	5.08	1.34	1 037
4	Grewia tiliifolia	35	0.02	6	5	1.20	0.60	50	97 40	7.89	8.47	4.10	20.46
5	Xylia xylocarpa	38	0.03	14	7	2.00	1.40	70	114.92	18.42	11.86	4.83	35.11
6	Dalbergia volubilis	20	0.03	3	3	1.00	0.30	30	31.75	3.95	5.08	1.34	10.37
7	Dalbergia latifolia	55	0.05	2	2	1.00	0.20	20	240.96	2.63	3.39	10.14	16.16
8	Bridelia squamosa	40	0.03	4	4	1.00	0.40	40	127.96	5.26	6.78	5.36	17.40
9	Acacia intsia	20	0.10	4	2	2.00	0.40	20	31.75	5.26	3.39	1.34	9.99
10	Terminalia crenulata	60	0.02	7	6	1.17	0.70	60	286.37	9.21	10.17	12.05	31.43
11	Gmelina arborea	65	0.05	2	2	1.00	0.20	20	336.35	2.63	3.39	14.15	20.17
12	Macaranga peltata	60	0.05	2	2	1.00	0.20	20	286.37	2.63	3.39	12.05	18.07
13	Celastrus paniculata	15	0.05	6	4	1.50	0.60	40	17.93	7.89	6.78	0.75	15.42
14	Sterculia urens	58	0.05	2	2	1.00	0.20	20	268.09	2.63	3.39	11.28	17.30
15	Tectona grandis	48	0.02	6	5	1.20	0.60	50	183.28	7.89	8.47	7.71	24.07
				73	59				2377.21	99.98	99.98	100.02	299.98

Miturity index = 39.33 Continnum index = 1398

Table. 156. L o c .156. Olakara (Mid slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	48	0.02	13	9	1.44	1.30	90	183.28	20.31	17.31	48.97	46.59
2	Grewia tiliifolia	40	0.02	6	5	1.20	0.60	50	127.42	9.38	9.62	6.23	25.23
3	Terminalia crenulata	45	0.03	4	4	1.00	0.40	40	161.43	6.25	7.69	7.90	21.84
4	Lagerstroemia microcarpa	50	0.02	8	6	1.33	0.80	60	198.95	12.50	11.54	9.75	33.77
5	Dillenia pentagyna	48	0 02	5	5	1.00	0.50	50	183.28	7.81	9.62	8.97	26.40
6	Xylia xylocarpa	50	0.02	10	7	1.43	1.00	70	198.95	15.63	13.46	9.73	38.82
7	Acacia intsia	20	0.05	2	2	1.00	0.20	20	31.75	3.13	3.85	1.55	8.53
8	Butea superba	20	0.03	5	4	1.25	0.50	40	31.75	7.81	7.69	1.55	17.05
9	Tetrameles nudiflora	65	0.10	1	1	1.00	0.10	10	336.36	1.56	1.92	16.46	10.94
10	Sterculia urens	60	0.10	1	1	1.00	0.10	10	286.37	1.56	1.92	14.01	17.49
11	Celastrus paniculata	15	0.02	6	5	1.20	0.60	50	17.93	9.38	9.62	0.88	19.88
12	Albizia procera	60	0.03	3	3	1.00	0.30	30	286.37	4.69	5.77	14.01	24.47
				64	b2				2043.84	100.01	100.01	99.99	300.01

Maturity index = 43.33 Continuum index = 1688

Table. 157. L o c .157. Pothuchady

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	45	0.03	9	6	1.50	0.90	60	161.43	13.64	12.24	9.36	35.24
2	Terminalia crenulata	45	0.02	6	6	1.00	0.60	60	16l.43	9.09	12.24	9.36	39.69
3	Xylia xylocarpa	40	0.03	13	7	1.86	1.30	70	127.42	19.70	14.29	7.39	41.38
4	Grewia tiliifoiia	48	0.02	7	6	1.17	0.70	60	183.28	10.61	12.24	10.63	33.48
5	Lagerstroemia microcarpa	60	0.03	10	6	1.67	1.00	60	286.37	15.15	12.24	16.60	33.99
6	Butea superba	15	0.05	2	2	1.00	0.20	20	17.93	3.03	4.08	1.04	8.15
7	Holarrhena antidysenterica	15	0.02	7	6	1.17	0.70	60	17.93	10.61	12.24	1.04	23.89
8	Tetrameles nudiflora	85	0.10	1	1	1.00	0.10	10	585.66	1.52	2.04	33.38	36.94
9	Acacia intsia	20	0.04	4	3	1.33	0.40	30	31.75	6.06	6.12	1.84	14.02
10	Dillenia pentagyna	45	0.02	7	6	1.17	0.70	60	161.43	10.61	12.24	9.36	32.21
				66	49				1724.63	100.02	99.97	100.00	299.99

Maturity index = 49.00 Continuum index = 2086

Table 158. Loc.158. Uppingal

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Xylia xylocarpa	55	0.02	12	8	1.50	1.20	80	240.96	19.35	17.02	17.81	54.13
2	Wrightia tinctoria	30	0.03	3	3	1.07	0.34)	30	71.75	4.84	6.38	5.30	16.52
3	Dillenia pentagyna	50	0.02	6	5	1.20	0.60	50	198.95	4.68	10.64	14.69	35.01
4	Lagerstroemia microcarpa	60	0.04	6	4	1.50	0.60	40	286.37	9.68	8.51	21.16	39.35
5	Terminalia crenulata	60	0.03	4	4	1.00	0.40	40	286.37	6.45	8.51	21.16	36.12
6	Grewia tiliifolia	40	0.03	10	6	1.67	1.00	60	161.43	16.13	12.77	11.93	40.83
7	Acacia intsia	20	0.03	5	4	1.25	0.50	40	31.75	8.06	8.51	2.35	18.92
8	Zizyphus xylopyrus	13	0.03	5	4	1.25	0.50	40	25.87	8.06	8.51	1.91	18.48
9	Butea superba	20	0.03	4	4	1.00	0.40	40	31.75	6.45	8.51	2.35	17.31
10	Holarrhena antidysenterica	15	0.03	7	5	1.40	0.70	50	17.93	11.29	10.64	1.33	23.25
				62	47				1353.08	99.99	100.00	99.99	299.98

Maturity index = 47.00 Continuum index = 1427

Table. 159. L o c .159. Kuthirakottukayam (Upper slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Lagerstroemia microcarpa	65	0.03	9	6	1.50	0.90	63	336.36	18.75	15.0	10.64	44.39
2	Wrightia tinctoria	35	0.03	4	4	1.00	0.40	40	97.40	8.33	10.0	3.08	21.41
3	Xylia xylocarpa	50	0.03	4	4	1.00	0.40	40	198.95	8.33	10.0	6 30	24.63
4	Piliostigma malabaricum	45	0.03	4	4	1.00	0.40	40	161.43	8.33	10.00	5.11	23.44
5	Dillenia pentagyna	55	0.02	9	7	1.29	0.90	70	240.96	18.75	17.50	7.63	43.88
6	Sterculia urens	65	0.03	3	3	1.00	0.30	30	336.36	6.25	7.50	10.64	24.39
7	Bambusa sp.	28	0.10	1	1	1.00	0.10	10	62.45	2.08	2.50	1.98	6.56
8	Acacia intsia	20	0.10	4	2	2 00	0.40	20	31.75	8.33	5.00	1.00	14.38
9	TerminaIia crenulata	85	0.03	4	4	1.00	0.40	40	575.66	8.33	10.00	18.22	36.55
10	Grewia tiliifolia	55	0.03	5	4	1.25	0.50	40	240.96	10.42	10.00	7.63	28.05
11	Melia composita	105	0.10	1	1	1.00	0.10	10	877.82	2.08	2.50	27.78	32.36
				48	40				3160.10	99.98	100.00	100.01	299.99

Maturity index = 36.36 Continuum index = 2050

Table. 160. L o c .160. Kuthirakottukayam (Lower slope)

Sl. No	Name of species	Av.Gth.	Ab/F	No.Sps	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	50	0.03	9	6	1.50	0.90	60	198.95	15.25	12.77	10.03	38.05
2	Xylia xylocarpa	48	0.02	7	6	1.17	0.70	60	183.25	11.86	12.77	9.24	33.87
3	Haldina cordifolia	68	0.03	3	3	1.00	0.30	30	363.29	5.08	6.38	18.56	30.02
4	Acacia intsia	15	0.13	5	2	2.50	0.50	20	17.93	8.47	4.26	0.90	13.63
5	Dillenia pentagyna	48	0.02	11	7	1.57	1.10	70	183.28	18.64	14.89	9.24	42.77
6	Wrightia tinctoria	30	0.03	3	3	1.00	0.30	30	71.75	5.08	6.38	3.62	15.08
7	Lagerstroemia microcarpa	60	0.02	5	5	1.00	0.50	50	286.37	8.47	10.64	14.43	33.54
8	Garuga pinnata	40	0.03	3	3	1.00	0.33	30	127.42	5.08	6.38	6.42	17.88
9	AIbizia procera	62	0.02	5	5	1.00	0.50	50	305.90	8.47	10.64	15.42	34.53
10	Butea superba	18	0.04	4	3	1.33	0.40	30	25.87	6.78	6.38	1.30	14.46
11	Terminalia crenulata	52	0.03	4	4	1.00	0.40	40	125.28	6.78	8.51	10.85	26.14
				59	47				1984.29	99.96	100.00	100.01	299.97

Maturity index = 44.55 Continuum index = 1874

Table. 161. L o c .161. Vengapara (top)

1	Cinnamomum verum	38	0.02	6	5	1.20	0.00	50	114.92	13.33	14.29	5.85	33.47
2	Aporusa lindleyana	28	0.03	5	4	1.25	0.50	40	62.45	11.11	11.43	3.18	25.72
3	Myristica dactyloides	60	0 .02	9	7	1.29	0.90	70	286.37	20.00	20.00	14.57	54.57
4	Polyalthia fragrans	55	0.02	6	6	1.00	0.60	60	240.96	13.33	17.14	12.26	42.73
5	Holigarna arnottiana	95	0.03	5	4	1.25	0.50	40	718.81	11.11	11.43	36.58	59.12
6	Palaquium ellipticum	80	0.03	3	3	1.00	0.30	30	509.65	6.67	8.57	25.94	41.18
7	Calamus sp.	20	0.03	11	6	1.83	1.10	60	31.75	24.44	17.14	1.62	43.20
				45	35				1964.91	99.99	100.00	100.00	299.99

Maturity index = 50.00 Continuum index = 2025

Table. **162,** Loc. **162** Vengapara (Mid slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Myristica dactyloides	48	0.02	6	5	1.20	0.60	50	183.28	14.29	15.63	7.59	37.51
2	Holigarna arnottiana	50	0.02	5	5	1.00	0.50	50	198.95	11.90	15.63	8.23	35.76
3	Calamus sp.	20	0.03	16	8	2.00	1.60	80	31.75	38.10	25.00	1.31	64.41
4	Palaquium elliptiacum	50	0.04	4	3	1.33	0.40	30	198.95	9.52	9.38	8.23	27.13
5	Vatteria indica	115	0.03	3	3	1.00	0.30	30	1052.72	7.14	9.38	43.57	60 09
6	Cullunia exelsa	80	0.03	4	4	1.00	0.40	40	509.65	9.52	12.50	21.09	43.11
7	Polyathia fragrans	55	0.03	4	4	1.00	0.40	40	204.96	9.52	12.50	9.97	31.99
				42	32				2416.26	99.99	100.02	99.99	300.00

Maturity index = **45.71** Continuum index = **1625**

Table 163. Loc.**163.** Vengapara (Lower slope)

1	Cinaamomum verum	50	0.03	7	5	1.40	0.70	50	198.95	17.50	15.15	19.73	52.38
2	PaIaquium ellipticum	50	0.01	7	7	1.00	0.70	70	198.95	17.50	21.21	19.73	58.44
3	Polyathia fragrans	48	0.03	5	4	1.25	0.50	40	183.28	12.50	12.12	18.18	42.80
4	Holigarana arnottiana	60	0.02	6	6	1.00	0.60	60	286.37	15.10	18.18	28.40	61.58
5	Calamus sp.	18	0.02	12	8	1.50	1.20	80	25.87	20.00	24.24	2.57	56.81
6	Myristica dactyloides	38	0.03	13	3	1.00	1.30	30	114.92	7.60	9.09	11.40	27.99
				40	33				1008.34	100.00	99.99	100.01	300.00

Maturity index = **55.00** Continuum index= **2481**

Table 164. Loc. 164. Marottichal (Mid slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No. Sps.	Qtd. Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	50	0.03	3	3	1.00	0.30	30	198.35	7.14	8.57	7.58	23.29
2	Terminalia crenulata	65	0.05	2	2	1.00	0.20	20	336.36	4.76	5.71	12.82	23.29
3	Grewia tiliifolia	48	0.03	4	4	1.00	0.40	40	183.28	9.52	11.43	6.99	27.94
4	Celastrus paniculata	15	0.05	2	2	1.00	0.20	20	17.93	4.76	5.71	0.68	11.15
5	Dalbergia latifolia	48	0.05	2	2	1.00	0.20	20	183.28	4.76	5.71	6.99	17.47
6	Xylia xylocarpa	39	0.03	10	6	1.67	1.00	60	121.08	23.81	17.14	4.62	45.56
7	Lagerstroemia microcarpa	50	0.03	4	3	1.00	0.40	40	198.95	9.52	11.43	7.58	28.53
8	Lannea coromandelica	40	0.05	2	a	1.00	0.20	20	127.42	4.76	5.71	4.86	15.33
9	Butea superba	16	0.06	5	3	1.67	0.50	30	20.41	11.90	8.57	0.78	21.25
10	Terminalia bellirica	105	0.05	2	2	1.00	0.20	20	877.82	4.76	5.71	33.46	43.93
11	Albizia procera	60	0.05	2	2	1.00	0.20	20	286.37	4.76	5.71	10.92	21.39
12	Careya arborea	30	0.04	4	3	1.33	0.40	30	71.75	9.52	8.57	2.73	20.82
				42	35				2623.59	99.97	99.97	100.01	299.96

Maturity index = 29.17 Continuum index = 1541

Table 165. Loc.165. Marottichal (Lower slope)

Sl. No.	Name of species	Av.Gth.	Ab/F	No.Sps.	Qtd.Occ.	Ab	D	%F	BA	RD	RF	RBA	IVI
1	Tectona grandis	55	0.02	8	6	1.33	0.80	60	240.96	18.60	17.14	8.79	44.53
2	Xylia xylocarpa	50	0.02	6	5	1.20	0.60	50	198.95	13.95	14.29	7.29	35.49
3	Grewia tiliifolia	40	0.03	4	4	1.00	0.40	40	127.42	9.30	11.43	4.65	26.38
4	Lagerstroemia microcarpa	55	0.04	7	4	1.75	0.70	40	240.96	16.28	11.43	8.79	36.50
5	Acacia intsia	18	0.05	2	2	2.00	0.20	20	25 87	4.65	5.71	0.94	11.30
6	Lannea cotomandelica	33	0.10	1	1	1.00	0.10	10	114.92	2.33	2.86	4.10	9.38
7	Bambusa sp.	26	0.03	4	4	1.00	0.40	40	53.82	9.30	11.43	1.96	22.69
8	Butea superba	20	0.03	3	2	1.50	0.30	20	31.75	6.98	5.71	1.96	13.85
9	Terminalia crenulata	85	0.02	6	5	1.20	0.60	50	575.66	13.95	14.29	20.99	49.23
10	Terminalia bellirica	100	0.10	1	1	1.00	0.10	10	796.83	2.33	2.86	29.02	34.21
11	Sterculia guttate	65	0.10	1	1	1.00	0.10	10	336.36	2.33	2.86	12.26	17.45
				43	35				2742.50	100.00	100.01	100.00	300.01

Maturity index = 31.82 Continuum index = 1852

Table **166.** Species associations in Trichur Forest Division

Sl.No.	Locality	Route No.	Locality No.	Type of Association
1	Akamala (lower slope)	26	134	Xylia-Grewia-Dillenia/Acacia
2	Anakuzhi	10	75	Xylia-Mitragyna-Grewia/Lagerstroemia
3	Andilpara	23	111	Dillenia-Xylia-Tectona/Grewia
4	Asurankundu	6	45	Terminalia-Xylia-Butea
5	Asurankundu south	6	49	Dillenia-Xylia-Grewia
6	Atakodu	8	67	Tectona-Dillenia-Zizyphus
7	Ayinipilavu thadam	12	89	Xylia-Dillenia-Terminalia/Bombax
8	Ayyappan nada	13	94	Dillenia-Xylia-Tectona
9	Ayyathakadu	3	30	Boinbax-Tectona-Limonia
10	Bharanipacha top	26	115	Sterculia-Careya-Cochlospermum
11	Chakiyara	2	14	Tectona-Erythrina-Acacia
12	Chakkamtharissu	8	68	Xylia-Tectona-Dillenia
13	Chakkamtharissu kulampu	8	71	Dillenia-Tectona-Lannea/Zizyphus
14	Chakkuttiparutha	10	80	Terminalia-Lannea-Xylia
15	Channakadu	24	113	Holarrhena- Xylia-Tectona/Wrightia
16	Cheppilakodu	1	1	Mitragyna-Dillenia-Terminalia
17	Chettichiparutha	5	42	Zizyphus-Wrightia-Tectona/Terminalia
18	Garabha	12	87	Tectona-Acacia-Mitragyna
19	Garabhakundu	12	85	Terminalia-Grewia-Bombax
20	Ilenjipara	22	110	Xylia-Dillenia-Tectona
21	Illichattom	1	2	Grewia-Wrightia-Albizia
22	Illikazha	5	33	Grewia-Wrightia-Terminalia/Xylia
23	Illikazha top	31	116	Tectona-Grewia-Xylia/ Zizyphus
24	Ilechetty	3	29	Bombax-Butea-Tectona/Bambusa
25	Inchapara,	15	101	Xylia-Fluggea-Wrightia
26	Kadakandamchalu	5	35	Grewia-Wrightia-Xylia
27	Kadakandamchalu top	60	144	Palaquium-Calamus-Polyalthia
28	Kadakandamchalu pacha	60	143	Holigarna-Calamus-Polyalthia
29	Kadakandamchalu slope	5	36	Grewia-Cycas-Xylia/Acacia
30	Kadampankundu north	7	59	Xylia-Lagerstroemia-Dillenia
31	Kallipara (mid slope)	60	152	Dillenia-Xylia-Butea
32	Kallipara (upper slope)	60	151	Dillenia-Xylia-Bambusa/Piliostigma
33	Kanjithadam slope	5	38	Grewia-Acacia-Xylia/Bombax
34	Kanjithadam top	5	40	Wrightia-Mitragyna-Xylia/Grewia
35	Kanjithadam west	5	39	Piliostigma-Xylia-Strychonus

Table 166 (contd.)

1	2	3	4	5
36	Kappi	2	23	Tectona-Grewia-Lagerstroemia
37	Kappi slope	2	22	Grewia-Sterculia-Acacia
38	Karadikoompu	45	125	Wrightia-Tectona-Terminalia
39	Karadipara (Vazhani range)	1	5	Zizyphus-Haldina-Hopea
40	Karadipara (Peechi range)	43	123	Tectona-Grewia-Terminalia
41	Karineelivellam (lower slope)	60	136	Calamus-Zizyphus-Polyalthia
42	Karineelivellam (upper slope)	60	135	Palaquium-Calamus-Holigarna
43	Kathikadappan chalu	22	109	Xylia-Grewia-Bombax
44	Kathikadappanchalu 'slope	15	100	Terminalia-Acacia-Dillenia
45	Kavalapara top	34	118	Dillenia-Acacia-Terminalia
46	Kozhivettukunnu (mid slope)	60	148	Xylia-Dillenia-Lagerstroemia
47	Kidaram	5	33	Mitragyna-Xylia-Wrightia
48	Kidaram pop	5	41	Bombax-Tectona-Terminalia
49	Kodikuthy east	1	8	Palaquium-pterocarpus
50	Kodikuthy	2	24	Bambusa-Grewia-Xylia
51	Kodikuthy slope	1	9	Terminalia-Tectona-Wrightia
52	Kodikuthy south east	2	26	Bombax-Dendrocalamus-Wrightia
53	Kodikuthy west	2	28	Dillenia-Lagerstroemia-Zizyphus
54	Kodivalapu	10	74	Dillenia-Terminalia-Bombax
55	Kompara	60	145	Dillenia-Terminalia-Bombax/ Lagerstroemia
56	Koonankadu	13	91	Lagerstroemia-Xylia-Grewia/Butea
57	Kurangadikunnu	12	90	Terminalia-Mitragyna-Garuga
58	Kurinjinampu	7	58	Xylia-Terminalia-Bombax/
59	Kuthiran	49	127	Xylia-Terminalia-Tectona/Grewia
60	Kuthirakkottukayam (lower slope)	60	160	Dillenia-Tectona-Xylia/Tgrminalia
61	Kuthirakkottukayam (upper slope)	60	159	Dillenia-Lagerstroemia-Xylia/Terminalia
62	Kuzhiyodu	1	10	Jatropha-Bombax-Tectona/Dillenia
63	Kuzhiyodu top	60	131	Sterculia-Bombax-Tectona
64	Machad (Akamala side)	60	114	Garuga-Bombax Tectona
65	Machad (Akamala side, mid slope)	60	133	Xylia-Butea-Terminalia/Lagerstroemia
66	Machad (Akamala, upper slope)	60	132	Grewia-Xylia-Dillenia
67	Malapara	10	76	Grewia-Xylia-Dillenia
68	Mampara	60	154	Dillenia-Grewia-Tectona
69	Manivankinar	60	129	Dillenia-Xylia-Lannea/Zizyphus

Table 166 (contd.)

1	2	3	4	5
70	Mankunnu	13	93	Bambax-Terminalia-Grewia/ Lagerstroemia
71	Mannathipara	6	47	Grewia-Terminalia-Lagerstroemia
72	Mannathipara west	6	46	Dillenia-Xylia-Wrightia
73	Marottichal (mid slope)	60	164	Xylia-Grewia-Lagerstroemia
74	Marottichal (lower slope)	60	165	Tectona-Xylia-Terminalia
75	Mattinmukal	8	69	Lagerstroemia-Xylia-Terrninalia/ Wrightia
76	Mekkulammukku	10	82	Terminalia-Dillenia/Bombax
77	Melechira	14	98	Tectona-Helictres-Terminalia
78	Mele-illichattom	1	3	Zizyphus-Grewia-Bombax
79	Melillam	10	81	Grewia-Xylia-Terminalia/Lagerstroemia
80	Moochikunnu	7	53	Bombax-Lagerstroemia-Tectona
81	Mootharukundu	8	70	Lannea-Tectona-Lagerstroemia
82	Mula	32	117	Tectona-Xylia-Terminalia/Lagerstroemia
83	Mulamkundu	2	21	Dillenia-Terminalia-Schleichera/ Erythrina
84	Mulamkundu north	6	48	Xylia Grewia-Lagerstroemia/Dillenia
85	Mulamthandu	2	17	Xylia-Dillenia-Terminalia
86	Mundichiparutha	60	141	Grewia-Xylia-Dillenia
87	Mundichiparutha (mid slope)	60	142	Dillenia-Terminalia-Pterocarpus
88	Murikkinthandu	60	150	Tectona-Terminalia-Lagerstroemia/Xylia
89	Nayadikulampu	2	16	Acacia-Haldina-Xylia
90	Nayadikulampu east	6	50	Tectona-Trewia-Wrightia
91	Nayadikulampu south	6	52	Terminalia-Tectona-Xylia
92	Nayadikulampu west	6	51	Grewia-Tectona-Dillenia
93	Nayadimukku	12	88	Tectona-Terminalia-Dillenia/ Lagerstroemia
94	Nilayerumpu	2	13	Bombax-Xylia-Tectona/Grewia
95	Ninnukuzhi	24	112	Xylia-Tectona-Grewia
96	Oda	2	25	Dendrocalamus–Dillenia-Lagerstroemia
97	Olakara	60	155	Xylia-Terminalia-Dillenia/Diospyros
98	Olakara (mid slope)	60	156	Tectona-Lagerstroemia-Xylia
99	Olumpara	60	149	Wrightia-Lagerstroemia-Xylia
100	Pathrakallu	9	72	Xylia-Dillenia-Terminalia
101	Pattanikadu	2	11	Bambusa-Zizyphus-Lagerstroemia
102	Pattanikadu (Vazhani side)	2	12	Bambusa-Bombax-Wrightia
103	Pattikadu	17	105	Careya-Holarrhena-Xylia/Bombax

Table 166 (contd.)

1	2	3	4	5
104	Pattilamtharisu	39	120	Xylia-Dillenia-Grewia
105	Pazhavellachal	15	99	Tectona-Dillenia-Terminalia
106	Pazhavellachal nirappu	37	119	Tectona-Xylia-Grewia
107	Peechi	17	106	Terminalia-Xylia-Grewia/Lagerstroemia
108	Perinchira	5	44	Bombax-Grewia-Xylia
109	Perinchira slope	5	31	Xylia-Bombax-Cycas
110	Pokkamparutha	13	92	Terminalia-Xylia-Grewia/Tectona
111	Ponmudi (lower slope)	15	102	Tectona–Xylia-Bambusa
112	Ponmudi (mid slope)	40	121	Dillenia-Lagerstroemia-Zizyphus
113	Ponmudi (upper slope)	40	122	Dillenia-Lagerstroemia-Calamus
114	Poolemvellam	10	77	Xylia-Erythrina-Mitragyna
115	Pothuchalu	22	108	Dillenia-Grewia-Xylia
116	Poovanchira	11	83	Grewia-Tectona-Terminalia
117	Poovanchira (Malayan colony)	60	130	Dillenia-Acacia-Lagerstroemia
118	Pothuchady	60	157	Xylia-Tectona-Terminalia/Grewia
119	Pullamkandam	12	86	Xylia-Dillenia-Grewia
120	Pulparutha	5	43	Bombax–Flacourtia-Careya
121	Thakaramkunnu	21	107	Tectona–Haldina-Emblica/Sterculia
122	Thalamuriyankulampu	7	64	Tectona-Terminalia-Wrightia
123	Thalamuriyankulampu chola	7	63	Dillenia-Tectona-Grewia
124	Thalamuriyankulampu east	7	62	Lannea-Tectona-Wrightia
125	Thalamuriyankulampu slope	7	60	Xylia-Grewia-Tectona
126	Thalamuriyankulampu south	7	61	Tectona-Terminalia-Xylia/Acacia
127	Thalavanathandu	1	7	Flacourtia-Wrightia-Lagerstroemia/ Terminalia
128	Thalavanathandu east	2	20	Calamus-Hydnocarpus-Strychonus
129	Thalavanathandu west	2	27	Calamus-Limonia-Dendrocalamus
130	Theerthakundu	7	66	Tectona–Xylia-Dillenia
131	Theerthamukku	7	65	Tectona-Xylia-Dillenia/Grewia
132	Thonikkal kadu	14	95	Dillenia-Meyna-Tectona/Xylia
133	Thonikkal nirappu	14	96	Tectona-Grewia-Zizyphus
134	Thunjathe pacha	60	140	Calamus-Palaquium-Hydnocarpus
135	Ungungan chola	5	37	Xylia-Mitragyna-Wrightia
136	Uppingal	60	158	Xylia-Grewia-Dillenia
137	Uravampadom	60	153	Tectona-Xylia-Lagerstroemia
138	Uravampadom east	14	97	Tectona-Terminalia-Zizyphus
139	Vadanchira	2	19	Terminalia-Calamus-Lagerstroemia

Table 166 (contd.)

1	2	3	4	5
140	Vadanchira slope	2	18	Xylia-Bombax-Zizyphus
141	Vaniyampara	17	104	Tectona-Xylia-Terminalia/Grewia
142	Varikulam	47	126	Tectona-Erythrina-Grewia/Lannea
143	Variyahukadu	57	128	Xylia-Tectona-Grewia
144	Vattachattom	10	79	Dillenia-Terminalia- Limonia/Lannea
145	Vattachattom climb	10	78	Mitragyna-Holarrhena-Helectres
146	Vattayi	46	124	Tectona-Xylia-Grewia/Bridelia
I47	Vattooli top	60	137	Dillenia-Xylia-Tectona
148	Vattooli (upper slope)	60	138	Dillenia-Tectona-Xylia
149	Vattooli (mid slope)	60	139	Dillenia-Dal bergia-Lannea
150	Vazhukkumpara	17	103	Holarrhena-Terminalia-Dillenia
151	Velankodukunnu	9	73	Dillenia-Xylia-Lagerstroemia
152	Vellacheeni	1	6	Dillenia-Terminalia-Limonia
153	Vellani	11	84	Lagerstoemia-Tectona-Terminalia
154	Vellapara (Vazhani side)	5	54	Tectona-Bombax-Dillenia/Lannea
155	Vellapara east	7	55	Terminalia-Haldina-Acacia
156	Vellapara north	7	57	Xylia-Grewia-Schleicheral Bridelia
157	Vellapara south	7	56	Macaranga-Lannea-Grewia
158	Vellapara (Vattooli bt.)	7	4	Grewia-Holigarna-Terminalia
159	Vellapara (Vazhani bt.)	1	34	Wrightia-Tectona-Xylia/Bombax
160	Vellarikulampacha (mid slope)	60	147	Calamus-Myristica-Palaquium
161	Vellarikulampacha (upper slope)	60	146	Calamus-Palaquium-Cinnamomum
162	Veluthodathupara	2	15	Bambusa-Wrightia-Zizyphus
163	Vengapara top	60	161	Myristica-Polyalthia-Calamus
164	Vengapara (lower slope)	60	163	Calamus-Palaquium-Holigarna
165	Vengapara (mid slope)	60	162	Calamus-Myristica-Holigarna

Similarity Index Values (IS)

Dissimilarity Index Values (ID)

Stand No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
1		50·00	33·33	26·67	36·36	38·46	38·46	66·67	55·56	38·10	55·56	60·00	25·53	30·00	60·00	44·44	43·48	41·67	52·63	47·62	33·33	37·50	48·00	43·48	55·56	46·15	66·67	10·00	52·63	40·00
2	50·00		27·27	31·58	38·46	46·67	46·67	36·36	36·36	54·55	54·55	66·67	28·57	58·33	50·00	63·64	44·44	57·14	52·17	56·00	44·45	27·78	48·28	44·44	54·55	53·33	63·64	27·59	34·78	33·33
3	66·67	72·73		11·76	33·33	42·86	42·86	40·00	40·00	17·39	40·00	27·27	21·05	09·09	27·27	20·00	48·00	23·08	19·05	43·48	40·00	42·86	51·85	32·00	40·00	42·86	50·00	51·85	38·10	36·36
4	73·33	68·42	88·24		38·10	24·00	16·00	11·76	11·76	50·00	47·06	31·58	37·50	42·11	21·05	47·06	54·55	43·48	44·44	40·00	23·53	32·26	25·00	27·27	35·29	16·00	23·53	16·67	44·44	21·05
5	63·64	61·54	66·67	61·90		43·75	43·75	41·67	41·67	51·85	41·67	46·15	34·78	38·46	41·67	41·38	40·00	40·00	44·44	50·00	36·84	38·71	41·38	41·67	43·75	43·75	41·67	25·81	40·00	46·15
6	61·54	53·33	57·14	76·00	56·25		66·67	50·00	57·14	38·71	28·57	53·33	29·63	53·33	40·00	42·86	54·55	64·71	48·28	51·61	35·71	71·43	45·71	30·30	50·00	44·44	50·00	34·29	41·38	40·00
7	61·54	53·33	57·14	84·00	56·25	33·33		50·00	57·14	45·16	28·57	53·33	29·63	53·33	40·00	42·86	54·55	58·82	48·28	51·61	35·71	61·90	51·43	30·00	50·00	44·44	50·00	28·57	41·38	40·00
8	33·33	63·64	60·00	88·24	58·33	50·00	50·00		80·00	26·09	40·00	72·73	21·05	27·27	54·55	50·00	40·00	46·15	47·62	60·87	40·00	41·18	44·44	48·00	60·00	50·00	60·00	14·81	47·62	36·36
9	44·44	63·64	60·00	88·24	58·33	42·86	42·86	20·00		34·78	20·00	54·55	21·05	36·36	45·45	40·00	48·00	38·46	47·62	52·17	30·00	47·06	37·04	32·00	40·00	50·00	40·00	22·22	38·10	36·36
10	61·90	45·45	82·61	50·00	48·15	61·29	54·84	73·91	65·22		43·48	48·00	27·27	48·00	32·00	34·78	42·86	48·28	50·00	53·85	52·17	32·43	46·67	42·86	43·48	45·16	43·48	33·33	58·33	48·00
11	44·44	45·45	60·00	52·94	58·33	71·43	71·43	60·00	80·00	56·52		63·64	31·58	45·45	45·45	50·00	48·00	46·15	47·62	52·17	40·00	23·53	59·26	40·00	50·00	50·00	60·00	22·22	47·62	54·55
12	40·00	33·33	72·73	68·42	53·85	46·67	46·67	27·27	45·45	52·00	36·36		28·57	58·33	50·00	72·73	51·85	64·29	78·26	72·00	45·45	44·44	55·17	51·85	63·64	53·33	63·64	20·69	60·87	50·00
13	76·47	71·43	78·95	62·50	65·22	70·37	70·37	78·95	78·95	72·73	68·42	71·43		28·57	47·62	42·11	50·00	40·00	40·00	27·27	31·58	36·36	38·46	25·00	31·58	51·85	31·58	23·08	40·00	19·05
14	70·00	41·67	90·91	57·89	61·54	46·67	46·67	72·73	63·64	52·00	54·55	41·67	71·43		33·33	36·36	44·44	57·14	52·17	48·00	27·27	44·44	41·38	22·22	45·45	40·00	45·45	20·69	43·48	41·67
15	40·00	50·00	72·73	78·95	58·33	60·00	60·00	45·45	54·55	68·00	54·55	50·00	52·38	66·67		45·45	29·63	42·86	43·48	64·00	54·55	50·00	55·17	44·44	63·64	60·00	54·55	27·59	43·48	50·00
16	55·56	36·36	80·00	52·94	58·62	57·14	57·14	50·00	60·00	65·22	50·00	27·27	57·89	63·64	54·55		48·00	53·85	57·14	60·87	30·00	35·29	44·44	40·00	50·00	42·86	40·00	22·22	47·62	45·45
17	56·52	55·56	52·00	45·45	60·00	45·45	45·45	60·00	52·00	57·14	52·00	48·15	50·00	55·56	70·37	52·00		51·85	53·85	50·00	40·00	56·41	37·50	33·33	48·00	42·42	48·00	51·50	53·85	29·63
18	58·33	42·86	76·92	56·52	60·00	35·29	41·18	58·35	61·54	51·72	53·85	35·71	60·00	42·86	57·14	46·15	41·94		51·85	55·17	30·77	55·00	42·42	25·81	53·85	52·94	61·54	30·30	59·26	50·00
19	47·37	47·83	80·95	55·56	55·56	51·72	51·72	52·38	52·38	50·00	52·38	21·74	60·00	47·83	56·52	42·86	46·15	48·15		50·00	28·57	45·71	35·71	46·15	47·62	41·38	47·62	21·43	54·55	26·09
20	52·38	44·00	56·52	60·00	50·00	48·39	48·39	39·13	47·83	46·15	47·83	28·00	72·73	52·00	36·00	39·13	50·00	44·83	50·00		60·87	48·65	60·00	57·14	78·26	70·79	60·87	33·33	58·33	64·00
21	66·67	55·55	60·00	76·47	63·16	64·29	64·29	60·00	70·00	47·83	60·00	54·55	68·42	72·73	45·45	70·00	60·00	69·23	71·43	39·13		35·29	66·67	56·00	60·00	42·86	50·00	29·63	44·44	45·45
22	62·50	72·22	57·14	67·74	61·29	28·57	38·10	58·82	52·94	67·57	76·47	55·56	63·64	55·56	50·00	64·71	43·59	45·00	54·29	51·35	64·71		53·66	35·90	52·94	42·86	47·06	34·15	45·71	38·39
23	52·00	51·72	48·15	75·00	58·62	54·29	48·57	55·56	62·96	53·33	40·71	44·83	61·54	58·62	44·83	55·56	62·50	57·58	64·29	40·00	33·33	46·34		62·50	59·26	62·86	59·26	50·06	50·00	68·97
24	56·52	55·56	68·00	72·73	58·33	69·70	69·70	52·00	68·00	57·14	60·00	48·15	75·00	77·78	55·56	60·00	66·67	74·19	53·85	42·86	44·00	64·10	37·50		56·00	54·55	48·00	31·25	46·15	51·85
25	44·44	45·45	60·00	64·71	56·25	50·00	50·00	40·00	60·00	56·52	50·00	36·36	68·42	54·55	36·36	50·00	52·00	46·15	52·38	21·74	40·00	47·66	40·74	44·00		50·00	80·00	29·63	66·67	54·55
26	53·85	46·67	57·14	84·00	56·25	55·56	55·56	50·00	50·00	54·84	50·00	46·67	48·15	60·00	40·00	57·14	57·58	47·06	58·62	29·21	57·14	57·14	37·14	45·45	50·00		50·00	28·57	42·28	60·00
27	33·33	36·36	50·00	76·47	58·33	50·00	50·00	40·00	60·00	56·52	40·00	36·36	68·42	54·55	45·45	60·00	52·00	38·46	52·38	39·13	50·00	52·94	40·74	50·00	20·00	50·00		29·63	66·67	45·45
28	84·00	72·41	48·15	83·33	74·19	65·71	71·43	85·19	77·78	66·67	77·78	79·31	76·92	79·31	72·41	77·78	48·50	69·70	78·57	66·67	70·37	65·85	49·94	66·75	70·87	71·43	70·37		21·43	27·59
29	47·37	65·22	61·90	55·56	60·00	58·62	58·62	52·38	61·90	41·67	52·38	39·13	60·00	56·52	15·89	52·38	46·15	40·74	45·45	41·67	55·56	54·29	50·00	53·55	33·33	57·92	33·33	78·57		52·17
30	60·00	66·67	63·64	78·95	53·85	60·00	60·00	63·64	63·64	52·00	45·45	50·00	80·95	58·33	50·00	54·55	70·37	50·00	73·91	36·00	54·55	61·61	31·03	48·15	45·45	40·00	54·55	72·41	47·83	

Table. 168. Similarity and dissimilarity index values of Trichur forest division.

Table 167. List of localities selected for similarity index studies and their assigned stand numbers

Stand No.		*Locality*
1	-	Machad/Akamala (upper slope)
2	-	Machad /Akamala (lower slope)
3	-	Machad/Akamala (mid slope)
4	-	Kuzhiyodu top
5	-	Vattooli top
6	-	Vattooli (upper slope)
7	-	Vattooli (mid slope)
8	-	Mundichiparutha (upper slope)
9	-	Mundichiparutha (mid slope)
10	-	Karadikoompu
11	-	Koonankadu
12	-	Pullamkandam
13	-	Kompara
14	-	Kozhivettukunnu/VelIani (upper slope)
15	-	Kozhivettukunnu (mid slope)
16	-	Ayyappankadu
17	-	Olumpara
18	-	Murikkinthandu
19	-	Thonikkalkadu
20	-	Variyathukadu
21	-	Kallipara (mid slope)
22	-	Uravampadam
23	-	Mampara
24	-	Olakara (mid slope)
25	-	Pothuchady
26	-	Pattilamtharissu
27	-	Uppinkal
28	-	Ponmudi (upper slope)
29	-	Kuthirakkottukayam (lower slope)
30	-	Marottichal (mid slope)

Table **169.** Number and percentage of similarity index classes of Trichur Forest Division

IS Class	I (0 - 20)	I1 (21 - 40)	I11 (41 - 60)	IV (61 - 80)	V (81 - 100)
No.	14	152	234	36	0
%	3.2	34.7	53.8	8.3	0

Total number of combinations = **435.**

Table **170** List of species selected for association studies in the moist deciduous forests of Trichur Forest Division.

1 Acacia instia W.& A.
2 Albizia odorattisima Benth.
3 Bambusa arundinacea Willd.
4 Bombax malabaricum Dc.
5 Boswellia serrata Roxb.
a Bridelia squamosa Gehram.
7 Butea superba Roxb.
8 Careya arborea Roxb.
9 Cassia fistula L.
10 Cordia dichotoma Forster f.
11 Dalbergia latifolia Roxb.
12 Dillenia pentagyna Roxb.
13 Emblica officinalis Gaertn.
14 Erythrina stricta Roxb.
15 Ficus benghalensis L.
16 Ficus hispida L. f.
17 Gardenia turgida Roxb.
18 Garuga pinnata Roxb.
19 Gmelina arborea Roxb.
20 Grewia tiliifolia Vahl
21 Haldina cordifolia Hk. f.
22 Holarrhena antidvsenterica Wall
23 Lagerstroemia microcarpa Wt.
24 Lannea coromandelica Merr.
25 Limonia acidissima W. & A.
26 Macaranga peltata M. Arg.
27 Melia composita Willd.
28 Meyna laxiflora Robyns.
29 Mitragyna parvifolia Korth
30 Morinda tinctoria Roxb.
31 Piliostigma malabaricum
32 Pterocarpus marsupium Roxb.
33 Randia dumetorum Lam.
34 Schleichera oleosa Oken
35 Spondias mangifera Kurz
36 Sterculia urens Roxb.
37 Stereospermum colais Mabberley
38 Tectona grandis L. f.
39 Terminalia bellirica Roxb.
40 Terminalia crenulata Rottb.
41 Tetrameles nudiflora R. Br.
42 Trewia nudiflora L.
43 Wrightia tinctoria R. Br.
44 Xylia xylocarpa Taub.
45 Zizyphus xylopyrus Willd.

Table 171. Species association and Chi-Square values of Trichur Forest Division.

Correlation Coefficient Values

Chi-Square Values

Species No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
1		.802	.906	.042	.347	.092	.077	.535	.553	.409	.092	.363	.013	.568	.060	.006	.236	1.911	.253	.060	2.697	3.753
2	—.700		2.930	1.753	.131	1.510	.217	.091	.298	.757	1.510	0.000	.012	.001	3.869	2.288	1.054	.001	9.291	2 869	.051	.240
3	—.378	.455		.146	.338	.412	.002	.005	.001	4.690	.412	.264	3.856	.248	1.542	.771	.219	.248	2.776	1.542	1.280	.103
4	—.530	—.884	—.994		.108	.188	.064	.049	.030	.017	.188	.025	.171	.052	1.002	.434	.070	1.396	.052	1.002	5.294	.024
5	.855	—.703	.977	.245		.011	.004	.001	.582	.180	.011	.276	.897	.407	.187	.713	.078	.003	7.306	.181	3.675	.876
6	.970	—.987	—.612	—.268	—.043		1.057	.020	1.257	2.230	3.843	.260	.109	.304	8.512	5.416	2.903	.304	.304	8.572	.902	.001
7	.659	—.867	.735	.992	—.880	—.932		0.00	.142	.475	1.057	1.310	.363	.018	2.933	1.071	.701	.018	.018	2.933	.455	.585
8	.958	.834	.782	.336	—.881	.950	.718		.020	.213	.020	3.095	5.237	.019	.158	.007	.099	.019	668	.158	3.799	2.594
9	—.147	—.498	.577	.932	—.190	—.964	.544	—.988		.598	1.257	.009	.172	.003	3.349	1.945	.856	.003	.003	3.349	.918	.455
10	.190	—.849	—.308	.376	.854	—.997	—.685	.565	—.771		2.280	.041	1.053	.059	5.434	3.326	1.660	.059	.059	5.434	.120	.118
11	.970	—.987	.264	—.268	—.043	—.938	.932	.950	—.964	—.997		.260	.109	.304	8.572	5.416	2.903	304	.304	8.572	.011	8.733
12	1.900	—.589	1.000	—.093	—.975	—.409	.047	—.992	.827	.200	—.409		.007	.129	1.183	.545	.115	1.842	.408	1.182	1.142	.527
13	.981	.962	.854	—.186	—.482	.932	—.995	—.167	.701	.933	.790	—.995		2.563	.698	1.733	.038	.012	.019	.347	.012	.203
14	—.669	.583	.775	—.960	—.918	—.478	.321	.873	.756	.107	—.478	—.968	—.161		1.289	.611	.144	.185	2.112	1.289	.842	.013
15	.345	—.939	—.984	—.900	—.940	—.756	—.980	—.044	—.963	—.866	—.756	—.941	.982	—.958		11.714	6.688	1.289	1.289	18.002	.089	.256
16	.910	.997	—.839	—.613	.530	—.868	—.994	—.954	—1.000	—.961	—.868	—.710	—.427	—.834	—.675		4.160	.611	.611	11.714	.300	.036
17	.484	—.933	—.353	—.308	—.997	—.978	—.823	—.978	—.882	.600	.218	—.095	—.228	—.180	—.819	—.924		5.192	.144	6.689	13.97	1.300
18	.573	.583	.775	.724	—.868	—.478	—.882	—.617	.756.	.107	—.478	—.220	.694	—.984	—.958	—.834	—.826		.353	1.289	2.037	1.397
19	.892	.789	—.890	—.960	—.224	—.478	.882	.266	.756	.107	—.564	.362	.918	—.709	.888	—.755	—.180	.513		1 289	2.037	.013
20	—.247	—.939	—.984	—.900	—.125	—.756	—.980	.810	—.963	—.869	—.756	—.941	—.459	—.958	—.568	—.675	—.819	—.958	—.958		.089	.256
21	.078	—.018	—.839	—.583	.991	—.849	—.856	—1.000	.512	—.434	—.812	—.531	—.932	.191	.853	—.311	—.736	—.633	—.633	.733		.599
22	—.983	—.220	—.489	.810	—.147	—.558	—.176	.192	.164	.967	.425	—.628	.100	.615	—287	.348	.018	.668	.615	—.287	970	
23	.826	.942	.936	—.866	—.767	—.072	—.486	.998	—.856	—.632	—.072	—.930	.139	—.654	.339	—.842	.997	.691	—.968	.339	—.625	—.393
24	—.700	—.626	.384	.811	—.984	—.987	—.367	.025	—.498	—.849	.934	.668	—.644	—.604	—.939	—.997	—.933	—.805	—.604	—.939	.704	—.990
25	—.999	.668	.666	.317	—.564	—.409	.586	.495	.037	—.737	—.092	.196	.717	—.912	—.941	—.710	—.469	—.968	.362	.607	—.531	—.628
26	—.993	—.571	.160	—.721	.559	—.999	—.530	—.839	—.641	—.915	—.999	.458	—.063	—.990	—.908	—.985	—.970	.364	—.990	—.908	—.954	.787
27	.135	1.000	—.886	.493	.089	—.420	.856	.262	.965	.784	—.420	—.418	—.616	.994	—.733	.987	—.978	.994	.994	— 733	—.835	.696
28	.442	—.367	.735	.992	.209	—.932	—.076	.013	.544	—.685	—.932	.047	—.946	.321	—.980	—.994	—.823	.882	—.415	—.980	.984	—.176
29	.345	—.939	—.984	—.900	—.125	—.756	—.980	—.044	—.963	—.869	—.756	—.941	.598	—.958	—.568	—.675	—.819	— 958	— 958	—.568	.766	—.287
30	— 727	—.443	—.550	.980	—.649	.231	—.723	—.952	—.442	.448	1.000	—.461	—.972	.239	.194	.815	.805	.632	.411	.194	—.163	.989
31	—.830	.789	—.890	—.327	.645	—.478	.321	—.617	.766	.107	—.478	—.968	867	—.984	—.958	—.755	—.180	.513	175	—.958	—.633	.949
32	.869	—.233	.855	.991	—.783	—.891	.119	—.234	—.054	—.592	—.891	.989	—.114	.755	—.991	.689	—.755	.406	.962	—.991	.092	—.483
33	.970	—.987	—.612	—.268	—.941	.392	—.932	.950	—.964	—.997	—.938	—.409	.166	—.478	—.756	—.868	—.978	—.478	—.478	—.756	—.984	—.870
34	—.526	—.849	—.090	.647	.854	—.997	—.685	.772	—.771	—.965	—.997	.200	—.760	—.487	—.869	.961	.600	—.487	—.487	—.869	—.434	.986
35	.345	—.939	—.984	—.900	—.125	—.756	—.980	—.044	.994	—.869	—.756	—.941	.982	—.958	—.568	—.675	—.819	—.958	—.958	—.568	—.584	—.287
36	.920	.976	—.079	—.917	—.948	.013	.346	—.759	1.000	—.671	.013	.959	—.918	.755	—.795	—.403	.381	—.542	.755	—.795	—.778	.875
37	345	—.939	—.984	—.900	—.125	—.756	—.980	—.044	—.963	—.869	—.756	—.941	.598	—.958	—.568	—.675	—.819	—.958	—.958	—.568	.766	—.287
38	—.947	.968	—.819	.603	.367	.791	—.914	.978	—.924	.327	—.529	—.765	—.788	.983	.510	—.113	—.823	.446	.446	.510	.000	—.600
39	—.871	.641	— 987	995	—.710	.705	—.927	—.534	—.555	.992	—.776	—.960	—.652	—.527	—.367	.248	.398	—.467	—.748	—.367	—.665	.493
40	—.754	—.689	—.636	.379	—.957	.835	—.944	—.629	.620	.710	—.456	—.235	—.452	.757	.558	.749	.871	.976	.757	.936	.852	.725
41	.659	.970	.735	.599	—.525	—.982	—.038	—.718	.544	—.655	.061	.934	.856	.882	—.980	—.994	—.993	.882	.321	—.980	—.617	—.997
42	.910	—.997	—.962	—.613	—.982	—.868	—.994	—.998	—1.000	—.961	—.868	—.567	—.905	—.755	—.675	—.789	—.924	—.755	—.755	—.675	—.347	—.728
43	—.403	—.998	—.998	—.134	.898	.644	.992	.653	.085	—.518	.664	—.510	—.822	—.030	.699	.996	—.536	—.030	.154	.699	.047	—.877
44	—.584	.835	—.974	.962	—504	—.071	.680	—.976	.702	— 643	—.914	.526	—.987	.733	—.178	.934	—.976	.733	—.984	—.986	—.966	1.000
45	.622	—.703	.434	.245	.340	.908	—.525	—.168	—.190	.854	—.941	—.564	—.823	— 868	—.125	—.122	.948	.645	.998	—.125	.991	.677

Table 171 (Contd.)

Chi-Square Values

Correlation Coefficient Values

Species No.	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45
1	.070	.802	.001	.046	.055	.077	.060	.729	.016	.168	.092	.182	.060	.002	.060	.470	.607	.001	.077	.006	2.54	3.176	.069
2	.225	.407	0.000	.553	.076	.217	3.869	.673	9.291	.155	1.510	.757	3.369	.047	3.869	.016	.231	.145	.217	2.288	1.188	2.687	.131
3	.012	.014	.293	.046	.003	.002	1.542	.023	2 776	.014	.412	.109	1 542	.024	1.542	2 979	1.325	.658	.002	.771	.370	.000	.023
4	.330	.007	4.064	2.292	.095	.064	1.002	.415	9.530	.106	.188	3.047	1.002	1.047	1.002	.058	.004	.025	5 149	.435	4.492	.001	.108
5	.761	.130	.023	.302	.881	13.932	.187	.007	1.774	.891	1·772	.180	.187	.299	.187	1.225	.010	.036	.739	.013	.000	5.533	.612
6	.005	1.510	.260	1.839	.060	1.057	8.572	1.207	.304	.896	3.843	2.280	8.572	.092	8.572	5.353	.000	4 361	1.057	5.416	.213	3.685	.011
7	.139	.217	.031	.328	.202	.089	2.933	2.375	.018	.052	1.057	.475	2.933	.150	2 933	1.565	.068	.260	.089	1 672	.295	1 052	.733
8	.530	493	.054	.232	.767	0.000	.158	1.838	.019	.017	.019	.213	.158	.021	.158	.029	.218	323	0 000	.007	.209	3 645	.895
9	.442	.298	.009	.423	.134	.142	3.349	.001	.003	.094	1·257	.598	3.347	.094	3.349	1 159	.161	4 627	142	1 945	.154	.012	.582
10	.014	.757	.041	.967	.003	.475	5.434	.325	.059	.377	2.280	1.253	5.434	0 000	5.434	1.722	.091	.398	475	3.325	.666	.003	.179
11	.006	1.510	6.638	1.839	.061	1.057	8.572	.058	.303	.896	3.842	2.280	8.572	.092	8.572	.031	0.000	0 000	1.057	5 415	.213	.017	1.772
12	0.000	0.000	.469	.007	2.196	1 310	1.183	.642	.129	.062	.259	.041	1.182	.005	1.183	007	.013	.040	081	545	.034	1.155	023
13	.008	.012	.007	.054	.772	.002	.365	3.672	6 641	2.332	1.797	.396	.692	.015	.347	2 298	.319	.156	.474	1.027	7.275	570	.141
14	2.896	2.369	.129	.016	.010	.018	1 289	.869	.185	.043	.304	.059	1.289	0.000	.129	1 662	.896	1.952	.018	611	.100	.007	.007
15	.173	3.869	1.183	4.539	.629	2.933	18.002	.091	1.289	2.594	8.572	5.434	18.002	.732	18.002	.063	.299	.131	2.933	11.714	.011	.205	.189
16	.682	2.288	.545	2.732	.217	1.672	11.714	.001	.611	5.445	5.415	3.325	11.714	.275	11.714	.379	.053	2.741	1.671	7.512	.050	.723	11.748
17	.186	1.054	4.800	1.311	.006	.701	6.689	.177	.144	.577	2.903	1.660	6.688	.018	6.688	3.076	.025	.117	.701	4.160	.189	.240	.073
18	.044	.001	.129	.017	.010	.018	1.289	4.957	.353	1.181	.304	.059	1.289	.774	1.289	.066	10.013	.376	.018	.611	.100	.007	1.774
19	.499	2.369	.408	.016	.010	1.486	1.289	.133	6.136	.043	.304	.059	1.289	0.000	1.289	.066	.043	.020	.018	.611	2.222	.007	.003
20	.173	3.869	1.182	4.539	.629	2.933	1.800	.091	1.289	2.594	8.572	5.434	18.000	.732	18.000	.063	.299	.131	2.933	11.714	.011	.204	.187
21	2.830	.051	1.141	.001	0.000	0.000	.088	1.165	2.037	.756	.902	.120	1.410	2,025	.088	.016	5.638	.456	1.819	.448	.219	10.580	.924
22	4.687	2.420	.527	.217	1.425	.585	.256	1.720	.369	.721	.215	.118	.256	2.918	256	298	.026	.001	.036	036	633	.016	2 032
23		6.051	.967	3.112	6.388	.139	.178	.019	.499	3.159	.921	.926	.173	.020	.173	.295	2.012	.753	.890	.144	2.498	2.456	.286
24	.862		0.000	.553	.075	.217	3.869	.673	.001	.155	1.510	.757	3.869	.046	3.869	1.942	2.720	.130	.217	2.288	2.265	2 686	.131
25	.088	.998		.007	.030	.031	1.182	1.192	.129	.062	.260	.041	1.183	.005	1.183	4.390	2.417	.084	1.309	.545	.151	.732	.276
26	.979	-.744	.458		030	.323	4.539	,099	.017	.245	1.833	.967	4.539	.013	4.539	.018	,178	.008	,323	2.732	.922	1.099	.302
27	—.998	.969	.948	.944		8 539	.629	1.052	.905	.277	.060	.003	.629	1.632	.629	10.302	1.260	.351	.202	.217	1·554	.039	·132
28	—.486	—.367	.586	—.530	—.695		2.933	.029	.018	.052	1 057	.475	2.933	.150	2.933	.012	.068	.024	.089	1.672	.053	.880	.731
29	.339	—.939	—.941	908	—.908	—.980		.091	1.289	2.594	8.572	5.434	18.002	.732	18.002	1.573	.298	.131	2.933	11.714	.010	.205	6.035
30	—.098	—.443	—.857	—.910	.428	—.027	.193		.131	.265	1.207	.325	.091	2 338	.091	.026	.320	.611	.029	0.000	.010	.745	.007
31	—.368	—.805	—.664	—.990	—.763	.321	—.958	.441		.043	.304	.059	1.289	0.000	1.289	8.045	·283	1.952	·018	.611	.073	.008	2.082
32	.902	—.233	.989	—.415	.056	.119	—.991	—.996	.962		.896	.377	2.594	.214	2.594	1.993	4.009	2.310	.052	1.449	.465	.001	.001
33	.977	—.987	.987	—.999	.148	— 932	—.756	.079	—.478	—.891		2 280	8.572	.092	8.572	.032	0.001	1.098	1.057	5.415	.213	3.685	.011
34	.790	—.849	—.737	—.915	—.298	—.685	—.869	.448	.107	—.502	—.997		5.434	0.000	5·340	.191	.908	.398	.475	3.325	.032	.002	.179
35	.999	—.939	—.941	—.908	—.733	—.980	—.568	.193	—.958	—.991	—.756	—.869		.732	18·002	.063	.299	.131	2.933	11.714	.011	.204	.187
36	—.961	.976	—.516	.869	— 778	.947	—.795	—.033	.755	.836	.013	.671	— 795		.732	.005	1.011	1.497	.150	.275	0.000	.984	1.542
37	999	—.939	.607	—.908	—.908	—.980	.656	.194	—.958	—.991	—.756	— 869	—.568	—.765		.1573	7.313	.130	2.933	11.714	.010	.204	.186
38	—.326	.206	—.364	—.986	—.872	.702	—.843	0.000	.362	—.385	—.529	0.000	.877	.999	—.843		.003	1.711	.634	.379	4.917	.209	.003
39	.900	—.919	—.503	.735	—.911	—.927	.830	—.848	1.000	.262	—.776	.937	—.367	—.560	.723	961		7 048	.514	.052	1 252	.026	9.641
40	.907	.611	—.350	—.582	—.852	—.571	.558	—.935	.757	—.123	.957	.710	.558	—.931	.558	.922	—.825		.260	.208	.679	1.449	.023
41	—.325	—.367	.047	—.530	.551	—.033	—.960	.972	.882	—.606	—.932	—.125	—.980	.846	—.980	—.366	.015	—.944		1.671	1.018	5.053	.734
42	—.836	—.997	—.710	—.985	—.293	—.994	—.675	—.711	—.755	—.981	.103	—.961	—.675	.947	—.675	.113	.248	—.680	—.994		.050	.109	.013
43	.453	—.601	.359	—.893	.994	—.086	.699	.998	—.212	.725	.687	—.996	.699	.966	.699	—.273	—.591	—.950	.830	.619		3.236	.608
44	—.610	.835	.550	.928	—.043	—.290	—.986	.832	—.954	.999	—.071	.940	—.178	.022	—.178	—.118	—.980	—.567	—.728	.976	—.613		.109
45	—.493	—.703	—.975	.559	—.237	—.525	—.734	—.649	—.124	—.415	.908	.854	—.125	—.989	.940	—.569	—.988	—.094	—.525	.530	.932	.523	

Table 172. Moist deciduous species with negetive associations in Trichur Forest Division.

Sps. No.	Name	Combination species No.
1	Acacia intsia	2-4,9,14,20,22,24-26,30,34,38.40,43,44.
2	Haldina cordifolia	1,2,4-79-12,15-17 20-22,24,26,28-30,32-35,37,40, 42,43.
3	Albizia odoratissima	1,3,4,6,10,15-17,19-22,27,29-31,33-40,42~44.
4	Bambusa arundinacea	1-4,6,11-17,19-21,23,26,29,31,33,35-37,42,43.
5	Bombax malabaricum	2,5-9,11-14,18-20.22-25 ,29,30,32,33.35-37,39-42,44.
6	Boswellia serrata	2-7,9-12,14-29,31,32,34,35,37,41,42,44.
7	Bridelia squamosa	2,5-7,10-11,13,15-17,20-24-26,28-30,33-35,37-42,45.
8	Butea superba	5,6,8,9,13,15,18,21,26,29-32,35-37,39-42,44,45.
9	Careya arborea	1,2,5,6,8-l1,15-17,20,23,24,26,29,30,32,33,34, 37-39,42,45.
10	Cassia fistula	2,3,6,7,9-11,13.15,16,20,21,23-26,28,29,32-37,41-44.
11	Cordia dichotoma	2,4-7,9-12,14-16,18-21,23,25-29,31-35,37-40,42,44,45.
12	Dalbergia latifolia	2,4-6,8,11-18,20-23,27,29-31,33,38,37-40,42,43,45.
13	Dillenia pentagyna	4,5,7,8,10,12- 14,16,17,20,21,24,26-28,30,32,34, 36,38-40,42-45.
14	Emblica officinalis	1,4-6.11-20,23-26,29,31,33-35,37,42,43,45.
15	Erythrina stricta	2-4,6-18,20,32.24-20,31-37,39,41,42,44,45.
16	Ficus benghalensis	2-4,6,7,9-21,23-26 28,29,31,33-38,40-42,45.
17	Ficus hispida	2-4,6,7,9,12-21,24-29,31-33,35,37,38,41-44.
18	Gardenia turgida	5,6,8,11,12.14-18,20,21,24,25,29,33-37,39,42,43.
19	Garuga pinnata	3-6,11,14,16,17,19,21,23,24,26,28,.29,33-3S, 37,39,42,44.
20	Gmelina arborea	1-7,9-20,22,24,26-29,31-37,39,41 42,44,45.
21	Grewia tiliifolia	2-4,6-8,10-14,16-19,21,23,25-27,30,31,33-36, 39,41,42,44.
22	Holarrhena antidysenterica	1-3,5-7,12,15,20,22-25,28,29,32,33,35,37,38,41-43.
23	Lagerstroemia microcarpa	4-7,9-14,16,19,21-23,27,28,30,31,36,38,41,42,45.
24	Limonia acidissima	1,2,5-7,9-10,13-20,22,24,26,28-35,37,39,41-43,45.
25	Macaranga peltata	1,5,6, 10,11,14-2O,22,24,25,29-31,34-36,38-40 ,42,45
26	Melia composita	1,2,4,6-11,13-17,19-21,24-26,28-35,37,38,40-43~
27	Meyna laxiflora	3,6,11-13,15-17,20,21,23,27-29,31,34-40~42~44~45.
28	Mitragyna parvifolia	2,6,7,10,11,13,15-17,19,20,22-24,26-30,33-35,37·
29	Morinda	2-12,14-20,22,24-29,31-36,38,44 ,42,44,45
30	Lannea coromandelica	1-3,5,7-9,12,13,21,23-26,28,80,32,36,39,40,42,45.

Table 172 (contd.)

sps.	Name	Combination species No.
31	Piliostigma malabaricum	1,3,4,6,8,11,12,14-17,20,21,23-27,29,3l,33,35,37, 42-46.
32	Pterocarpus marsupium	2,5,6,8-11,13,15,17,20,22,24,26,29,30,32-35,3~, 38,40,41,42.45.
33	Randia dumetorum	2-5,7,9-12,14-2 2,24,26,28,29,31-35,37-39,41,44.
34	Schleichera oleosa	1-3,6,7 ,9-11,13-16,18-2l,24-29,32-35.37,41-43.
35	Spondias sp.	2-8, 10-12, l4-22,24-29,31-37,39 ,41.42,44,45.
36	Sterculia urens	3-5,8,10,13,15,16,18,20,21,23,25,27,29,30,35-37, 39,40,45.
37	Stereospermum colais	2-12,14-20,22,24,26-29,31-38,41,42,44.
38	Tectona grandis	1,3,7,9,11-13,16 , 17, 22,23,25-27,29,32,33,37.38, 41,43-45
39	Terminalia bellirica	1,3,5,7-9,11-13, 15,18-21,24,25,27,28,30,33,35,36, 39,40,43,44,45.
40	Terminalia crenulata	1-3, 5, 7, 8, 11-13, 16,25-28,30-32,36,39-45.
41	Tetrameles nudiflora	5-8-10, 139,15-17,20-24,26,28,29,32-35,37,38, 40-42,44.45.
42	Trewia nudiflora	2-32,34,35,37,40-42.
43	Wrightia tinctoria	1-4, 10,12-14,17 18,22,24,28,31,34.38-40,43,44.
44	Xylia xylocarpa	1,3,5,6,8,10,11,13, 15,17,19-21,23,27-29,31, 33,35,37-44.
45	Zizyphus xylopyrus	2,7-9,11-16.20,23-25,27-32,35,36,38-41,45.

Table 173. Percentage value of positive and negetive combinations of moist deciduous species of Trichur Forest Division.

No	Species	+ve%	-ve%
1	Acacia intsia	59	41
2	Haldina cordifolia	34	66
3	Albizia odoratissima	41	59
4	Bambusa arundinacea	48	52
5	Bombax malabaricum	36	64
6	Boswellia serrata	25	75
7	Bridelia squamosa	36	64
8	Butea superba	50	50
9	Careya arborea	45	55
10	Cassia fistula	39	61
11	Cordia dichotoma	25	75
12	Dalbergia latifolia	34	66
13	Dillenia pentagyna	41	59
14	Emblica officinalis	41	59
15	Erythrina stricta	20	80
16	Ficus benghalensis	23	77
17	Ficus hispida	30	70
18	Gardenia turgida	50	50
19	Garuga pinnata	50	50
20	Gmelina arborea	18	82
21	Grewia tiliifolia	34	66
22	Holarrhena antidysenterica	50	50
23	Lagerstroemia microcarpa	45	55
24	Limonia acidissima	45	55
25	Macaranga peltata	30	70
26	Melia composita	27	73
27	Meyna laxiflora	45	55
28	Mitragyna parvifolia	34	66
29	Morinda tinctoria	20	80
30	Lannea coromandelica	52	48
31	Piliostigma malabaricum	41	59
32	Pterocarpus marsupium	43	57
33	Randia dumetorum	30	70

Table **173** (contd.)

No.	Species	+ve%	— ve%
34	Schleichera oleosa	**34**	**66**
35	Spondias sp.	**18**	**82**
36	Sterculia urens	**52**	**48**
37	Stereospermum colais	**23**	**77**
38	Tectona grandis	**50**	**50**
39	Terminalia bellirica	**41**	**59**
40	Terminalia crenulata	**45**	**55**
41	Tetrameles nudiflora	**39**	**61**
42	Trewia nudiflora	**18**	**82**
43	Wrightia tinctoria	**57**	**43**
44	Xylia xylocarpa	**39**	**61**
45	Zizyphus xylopyrus	**31**	**59**

APPENDIX 1. Route charts followed in the study

Route No. 1

Wadakkanchery — Akamala — Cheppilakodu — Illichattom-Mele-Illichattom-Vellapara-Karadipara — Vellacheeni — Thalavanathandu — Kodikuthy east — Kodikuthy slope Kuzhiyodu — Akamala.

Route No. 2

Akamala — Pattanikadu — Pattanikadu climb — Nilayerumpu — Chakkiyara — Veluthodathupara — Nayadikulampu — Mulamthandu — Vadanchira slope-Vadanchira-Talavanathandu east — Mulamkundu — Kappi slope — Kappi — Kodikuthy south-east — Oda — Kodikuthy east — Talavanathandu west — Kodikuthy west — Kuzhiyodu — Akamala

Route No. 3

Akamala churam- Arissery-Elechety-Ayyathakadu-Melempattumukku-Kalariparampn — Konathukunnu — Kaithakottuchira — Kumaranallur — Ottupara — Trichur.

RouteNo. 4

Akamala— Illichattom — Vellapara — Vellacheeni — Kodikuthy — Kuzhiyodu -Akamala

Route No. 5

Vazhani — Perinchira — Illikazha — Kidaram — Vellapara-Kadakandamchalu - Kadakandamchalu slope — Ungunganchola — Kanjithadam climb — Kanjithadam west — Kanjithadam top — Kidaram — Chettichiparutha — Pulparutha — Perinchira slope — Kakkinikadu teak plantation — Vazhani.

Route No. 6

Wadakkanchery — Palathadam teak plantation — Asurankundu dam — Asurankundu east — Mannathipara west — Mannathipara — Mulamkundu north — Asurankundu south, — Nayadikulampu — Nayadikulampu east — Nayadikulampu west — Nayadikulampu south — Palathadam teak plantation — Wadakkanchery

RouteNo. 7

Wadakkanchery — Kurumala — Thottekodu poolakunnu — Moochikunnu — Vellapara — Vellapara east — Vellapara south — Vellapara north-Thalamuriyankulampu west (kurinjnampu) — Kadambankunnu north — Thalamuriyankulampu slope — Thalamuriyankulampu south -Thalamuriyankulampu east-Thalamuriyankulampu chola — Thalmuriyankulampu — Theerthamukku — Theerthakundu — Mal1issery;- Vattoli — **Wadakkanchery.**

Route No. 8

Chelakod — Kayampoovam — Pulakodukulampu-Atakod-Chakkamtharissu — Vellapara rubber plantation — Vellarkulam — Mattintemukal- Mootharukundu — Chakkamtarissukulampu — Vellarikulam — Kayampoovam

Route No. 9

Elnad — Elnad eucalyptus plantation — Elnad (thenvathil) — Velankodukunnu Pathra-kallu east — Ampakad — Elnad.

Route No. 10

Vazhani — Kodivalappu — Anakuzhi — Malappara — Pattanikadu — Poolemvellam — Vattachattom climb — Vattachattom — Chakkuttiparutha — Melillam — Mekkulam mukku — Vazhani

Route No. 11

Vazhani – Mekkulam — Melillam-Chakkutty – Vattachattom-Odakundu-Poovanchira — Vellani — Chirakkakode — Peechi

Route No. 12

Vazhani — Garbhakundu — Mekkulammukku — Melillam — Pullamkandom — Garba — Nayadimukku — Ayinipilavu thadam — Kurangadikunnu — Perinchira — Vazhani.

Route No. 13

Vazhani — Koonankadu — Vellappara — Pokkamparutha — Mankunnu — Ayyappankunnu Ayinipilavu thadam — Ungunganchola — Kurangadi — Malappara — Kadakandamchalu — Perinchira — Vazhani

Route No. 14

Chuvannamaonu — Thonikal — Thoni kalnirappu-Oravampadom-Melechira — Chuvanna-mannu

Route No. 15

Vellanikode — Marottichal — Pazhavellamchalu — Kathikadappanchalu — Valiyapara — Inchappara — Nattukallu — Vandiyirangi — Ponmudi — Peechi

Route No. 16

Marottichal — Valloor — Odichira — Valiyapara — Pazavellamchalu — Marottichal

Route No. 17

Peechi — Mayiladumpara – Thonikal — Vazhukkumpara — Vaniyarnpara — Pattikad

Route No. 18

Mannamangalam — Marottichal — Koovappara — Inchappara — Valiyapara — Marottichal

Route No. 19

Vilangannur — Thamaravilachal- Kulathanampara — Vengapara — Thathikadappan — Koovappara chalu — Koovapparathandu — Koovappara — Vallikunnu — Nattukallu — Valloor — Vellanikode — Marottichal-Mannamangalam-Vellakkarithadam-Vilangannur

Route No. 20

Marotticha1 — Cheerakundu — Olakkayamkettu — Pothur — Marottikuzhi — Muthupara — Muthuparakundu — Pothur east — Valloorthandu — Valloor — Marottichal

Route No 21

Chelakodu — Vettilakunnu — Kattalathu — Meduku — Kavalappara rubber estate — Kuyilodu — Thakaramkunnu — Mayiladumkunnu — Cheriyaparutha — Chelakodu

RouteNo. 22

Marottichal — Cheerakundu — Pothurmudi — Pothurchalu — Kathikadappan chalu — Padichalu -- Ilenjipara south — Ilenjipara — Vengapara west — Vengapara — Pothemven-theku — Mannamangalam — Marottichal

Route No. 23

Vilangannur — Vellakarithadam — Andilpara — Kulathanampara-Pannivaram-Thamara-vilachal- Thekkekulam — Vilangaonur.

Route No. 24

Peechi — Chempoothara — Thalikodu - Kompara-Ninnukuzhi-Channakkadu-Kurangan-para — Pattikadn

Route No. 25

Peechi — Chempoothara — Thalikodu — Ninnukuzhi-Channakadu — Vellani — Pattathi-para — Pattikadu

Route No. 26

Wadakkanchery — Churam — Bharanipacha climb — Bharanipacha nirappu — Akamala teak plantation — Wadakkanchery

Route No. 27

Wadakkanchery — Akamala — Kuzhiyodu climb-Kuzhiyodu nirappu - Ungunganchola — Vazhanikettu — Vazbani

Route No. 28

Palappilly — Echipara — Nattukallu — Ponmudi — Echippara

Route No. 29

Chelakara — Kurumala — Thalamuriyankulampu nirappu — Ungunganchola — Vazhani-kettu — Vazhani

Route No. 30

Peechi — Cheriyamadu — Mampara — Vandiyirangi — Ponmudi — Pandavara- Pothiyadi — Kanparipan — Vengapara — Chathupara -Karadipara-Vellimangalam — Layinthadam Kallickanpara — Vilakkettupara — Koovapara — Kuthirakkottukayam — Cheenippallam-

Athiranpara --Kanjirakkutty — Kalluchal — Kakkathuruthi — Pothundi — Koorkapara — Thekkekulam — Peechi

Route No. 31

Vazhani-Podivalappu- Chakkerimattam — Malampathy - Malapparamukku — lllikazha -Koonangad-Anakuzhy -Ungunganc hola—Ungungancholamukku—Vazhani

Route No. 32

Peechi — Pattikad — Vellani — Mula — Vazhani

RouteNo. 33

Pothuchady — Olakara — Mampara — Mamparakuthu — Kuthirakkottukayam south — Peechi — Munipara — Changaramkundu — Paingottupadam — Olakara

Route No. 34

Peechi — Marottichal — Kavalapara climb — Kavalappara mid slope -Kavalappara top— Mannamangalam — Peechi

Route No. 35

Chimmini Dam — Muthalakoopu — Kallichira — Chimmini dam

Route No. 36

Chimmini — Virakuthodu — Muthalkoopu — Chimmini

Route No. 37

Marottichal-Cheerakundu-Kallannirappu-Olakkayam-Pazavellamcha~ climb-Pazha-vellamchal nirappu-Kathikadapan-Valiyapara-Koovapara-Anakallu-Inchapara

Route No. 38

Marotticha1 — Pothur — Manjilamkutty — Maruthadu — Punnakkanpara — Punnakkan-parathadam

Route No. 39

Pothuchady — Maniyankandu — Pattilamtharissu — Chullikavu climb — Chullikavu — Pathipara — Olakara - Puliparampu - Kunnil estate

Route No. 40

Peechi — Palakuzhy estate — Ponmudi climb — Ponmudi

Route No. 41

Pothuchady - Maniyankanadu-Pattilamtharissu - Chullikavu-Olakara-Pathrakandam — Valkulampu — Kannachiparutha

Route No. 42

Olakara - Chullikavu — Nendumada — Alagani — Kozhukuthy — Mampara — Valiy-mattungal- Cheriamattungal - Vandiniranganpara — Pandanpara — Pandanpara top -

Varayanpara - Pothiyadi - Olakara

Route No. 43

Peechi — Pothundy — Palakunnu — Pothundippara — Kakkathuruthy — Karadipara — Kalluchal — Kuthirakkottukayam top — Chathupara — Chiramadu — Pandanpara — Vandiyirangi — Peechi

Route No. 44

Akamala — Thoomapara — Thotti — Vellacheeni - Kodichira climb — Kodichiranirapu — Karadipara — Kakkinikadu — Kappi — Mullanmada — Vazhani

Route No. 45

Kundukadu-Kattilapoovam -Karadikoompu- Melillam — Kulathassery — Vengilakundu — Pazhayannurpadom — Vazhani

Route No. 46

Kundukadu — Parampayi — Vattayi — Thaliyampara — Kuadukadu

Route No. 47

Kundukadu — Kattilapoovam — Kachithodu — Ninnukuzhy — Varikulam — Kundukadu

Route No. 48

Kundukadu — Kattilapoovam — Karadikoompu — Poovanchira — Mattungalkoothu — Kalapara — Pullukulam — Pattikadu

Route No. 49

Poovanchira — Olumpara — Chadachikundu — Chadachikundu top- Mangalamkundu — Kuthiran — Pattikadu — Peechi

Route No. 50

Poovanchira — Olumpara — Chakkolatharisu — Mundiyapadam — Vellani — Mattungal-koothu — Poovanchira

Route No. 51

Vilangannur — Thekkekulam — Thamaravilachal — Kalluchal — Kuthirakkottukayam — Uzhinjilpara — Mampara — Olakara -Thottimada — Pothuchady — Peechi.

Route No. 52

Peechi — Ponnurkara — Chembankandam — Chullikavu -Chullikavuchal-Punnanirapu -Peechi.

Route No. 53

Peechi — Ponnurkara — Chembankandom — Puthenkadu — Bharatha — Marottichal.

Route No. 54

Peechi — Chempoothara — Ninnukuzhi — Kompara top — Talikodu — Valayanchira — Mudikodu - Peechi

Route No. 55

Peechi — Vazhani — Ungunganchola — Machadmala — Akamala — Thonnurkara — Kurumala — Chelakara - Peechi

Route No. 56

Peechi — Chelakara — Kurumala — Thalamuriyankulampu - Elanad

Route No. 57

Peechi — Chuvannamannu — Poovanchira — Variyathukadu - Kuthiran

Route No. 58

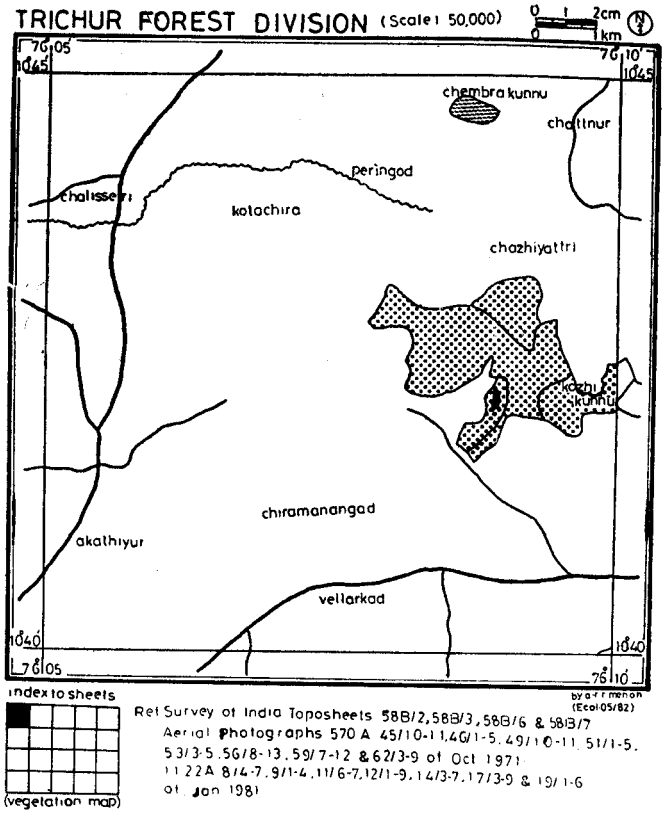
Peechi — Vaniyampara — Moodal climb — Moodal top - Peechi

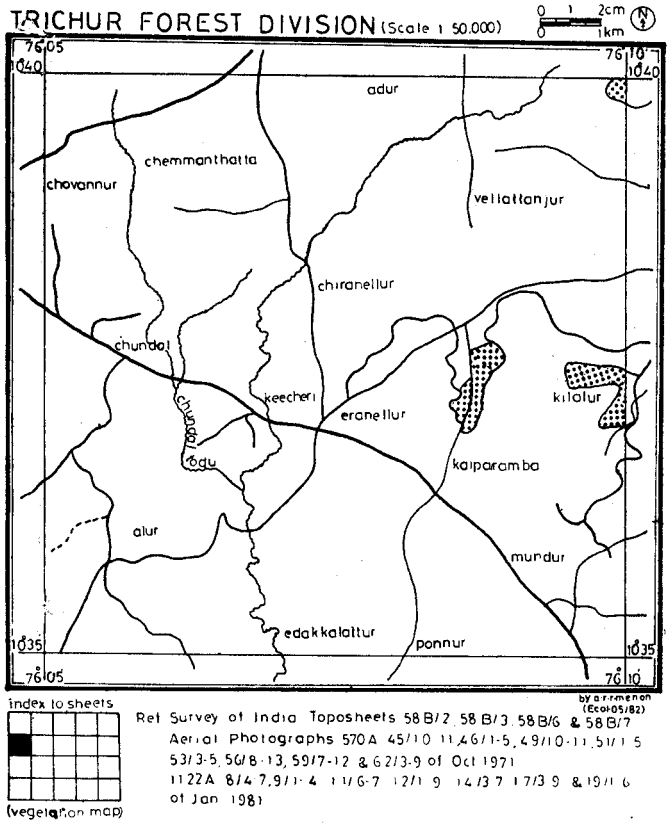
Route No. 59

Peechi — Kuthirakkottukayam — Karadipara — Chathupara-Vengapara-Pazhavellacha 1 — Vellakarithadam — Mannamangalam - Marottichal

Route No. 60

Peechi — Marottichal — Kavalapara — Onnampara — Randampara — Moonnampara — Mannamangalam — Chennaipara — Vellakarithadam — Vilangannur - Peechi





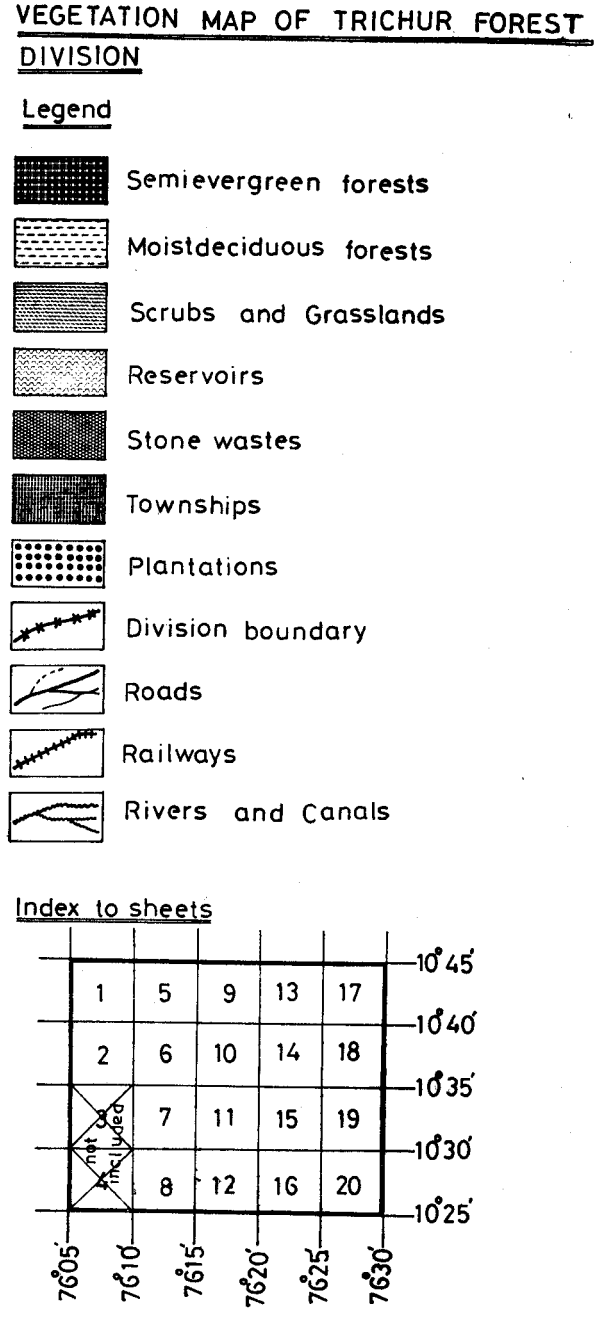
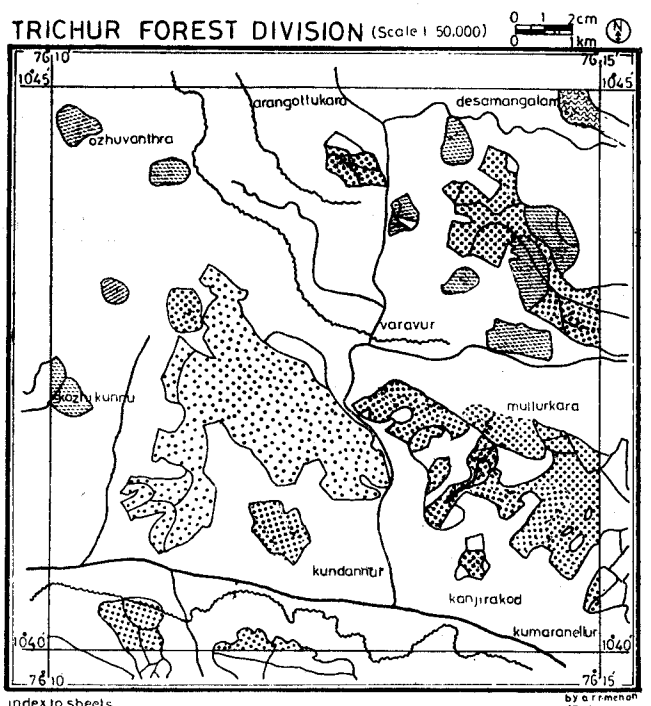
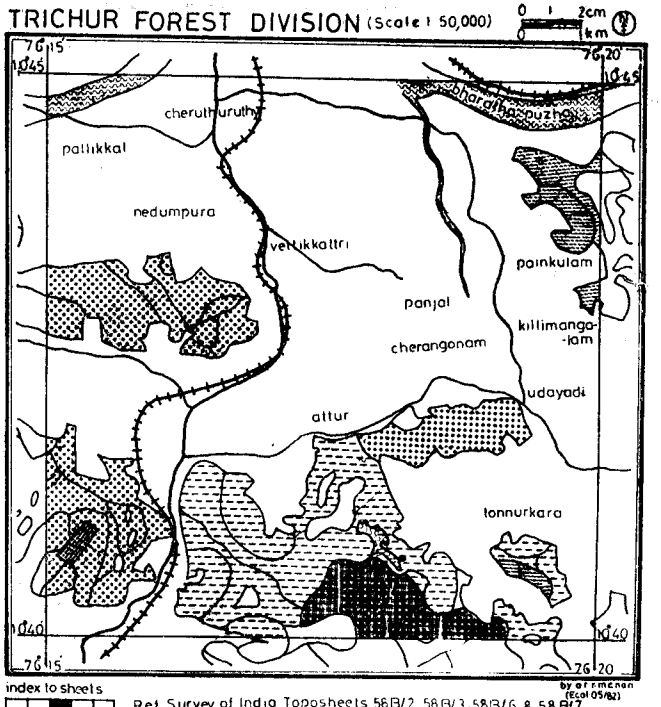
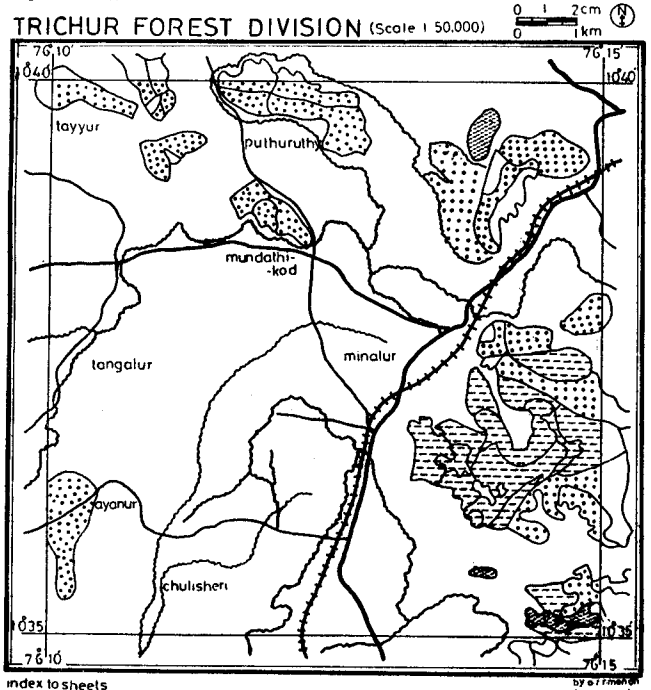


Fig. 1. Vegetation map of Trichur Forest Division (between 10° 35'-10° 45' N. lat. and 76° 05'-76° 10'E. long.).







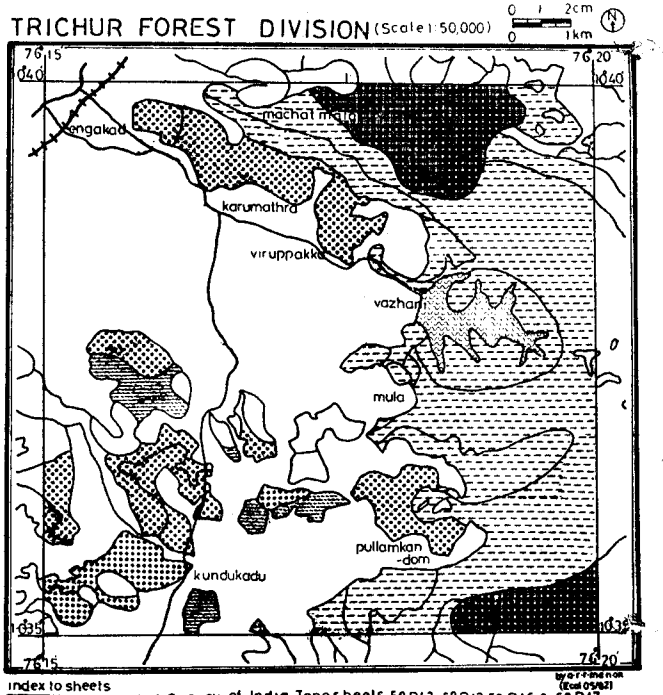
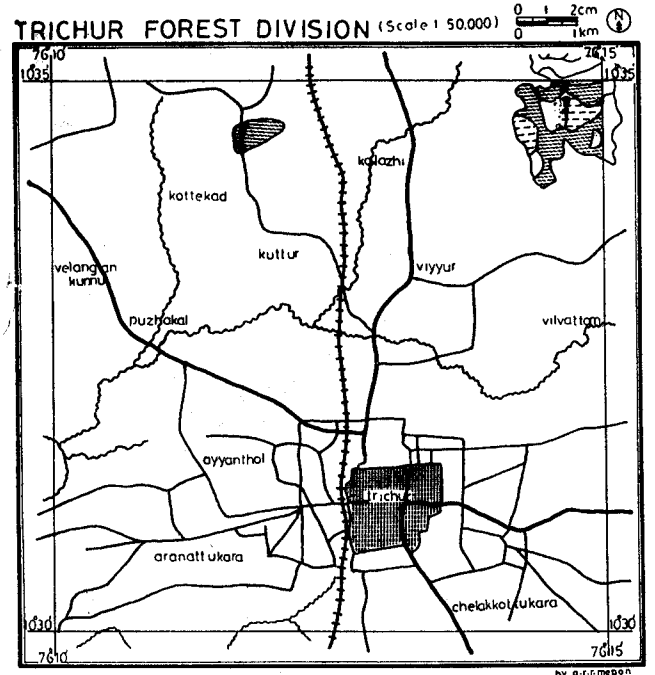
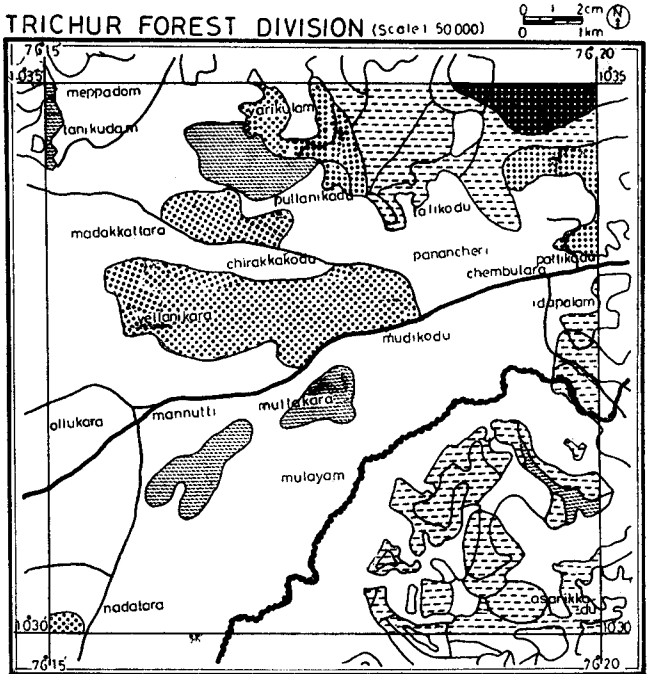
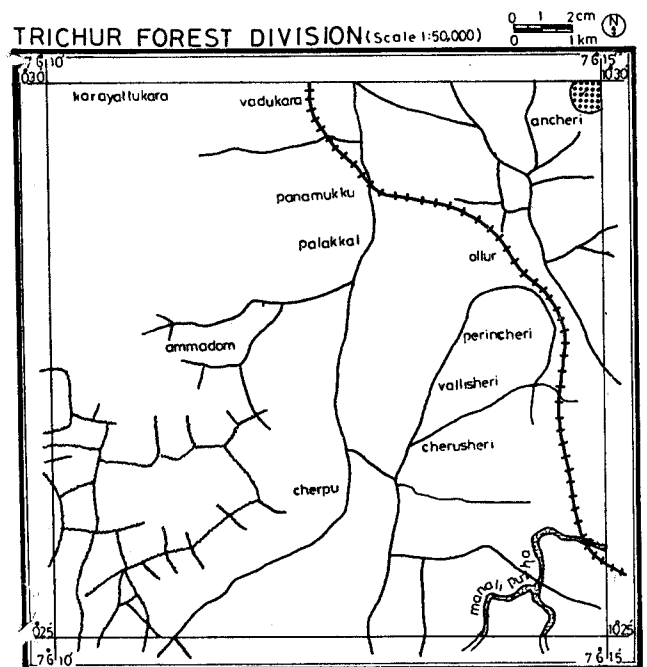


Fig. 2. Vegetation map of Trichur Forest Division (between 10° 35'-10° 45' N. lat. and 76° 10'-76° 20' E long.).







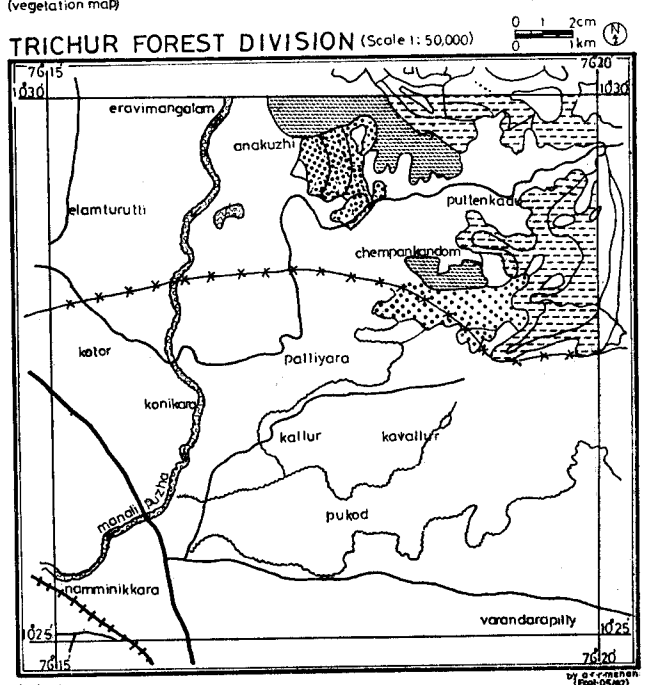


Fig. 3. Vegetation map of Trichur Forest Division (between 10°25'-10°35' N. lat. and 76° 10'-76°20' E. long.).

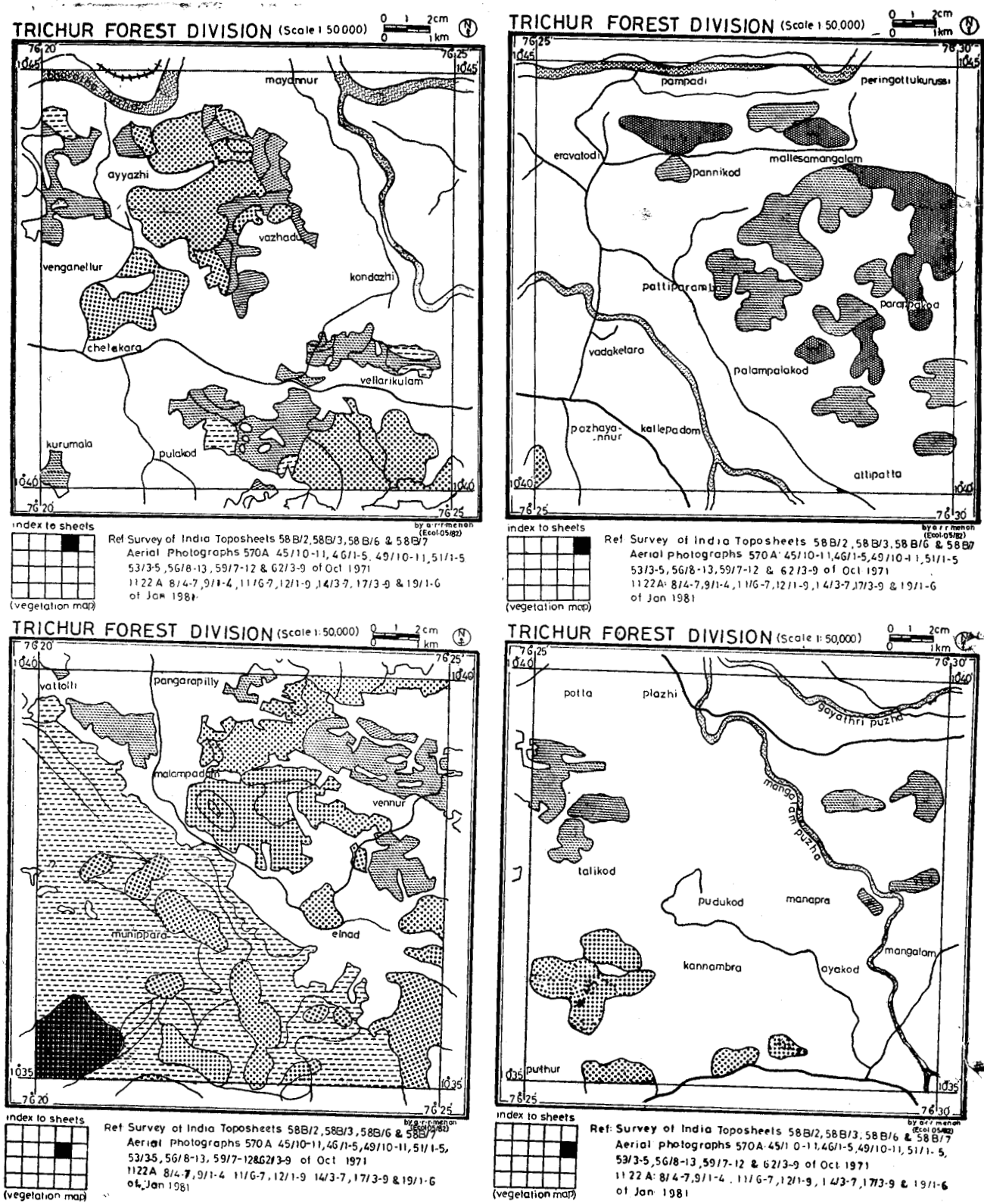


Fig. 4. Vegetation map of Trichur Forest Division (between 10°35'-10°45 N. lat. and 76°20'-76°30' E. long).

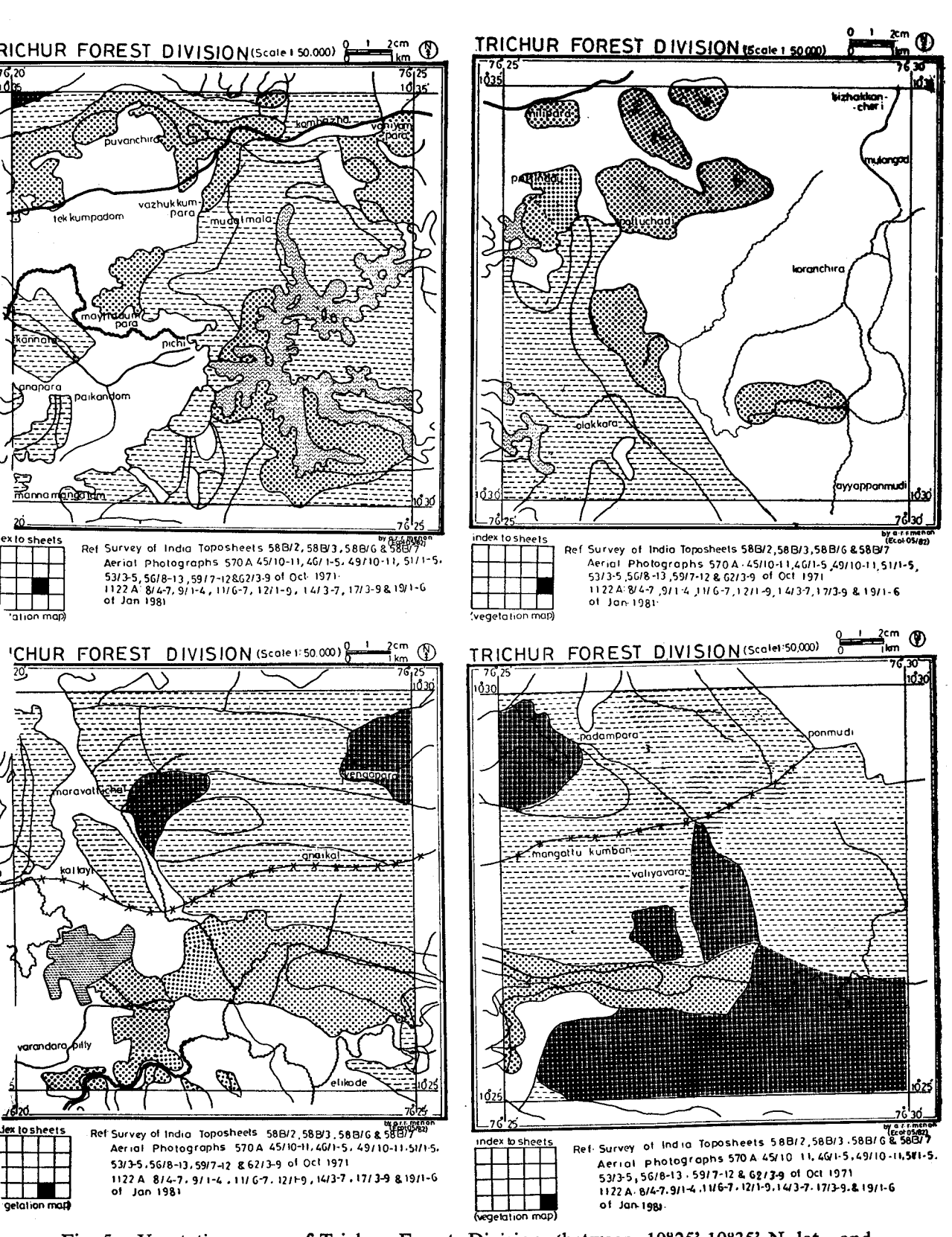


Fig. 5. Vegetation map of Trichur Forest Division (between 10°25'-10°35' N. lat. and 76°20'-76°30' E. long.).

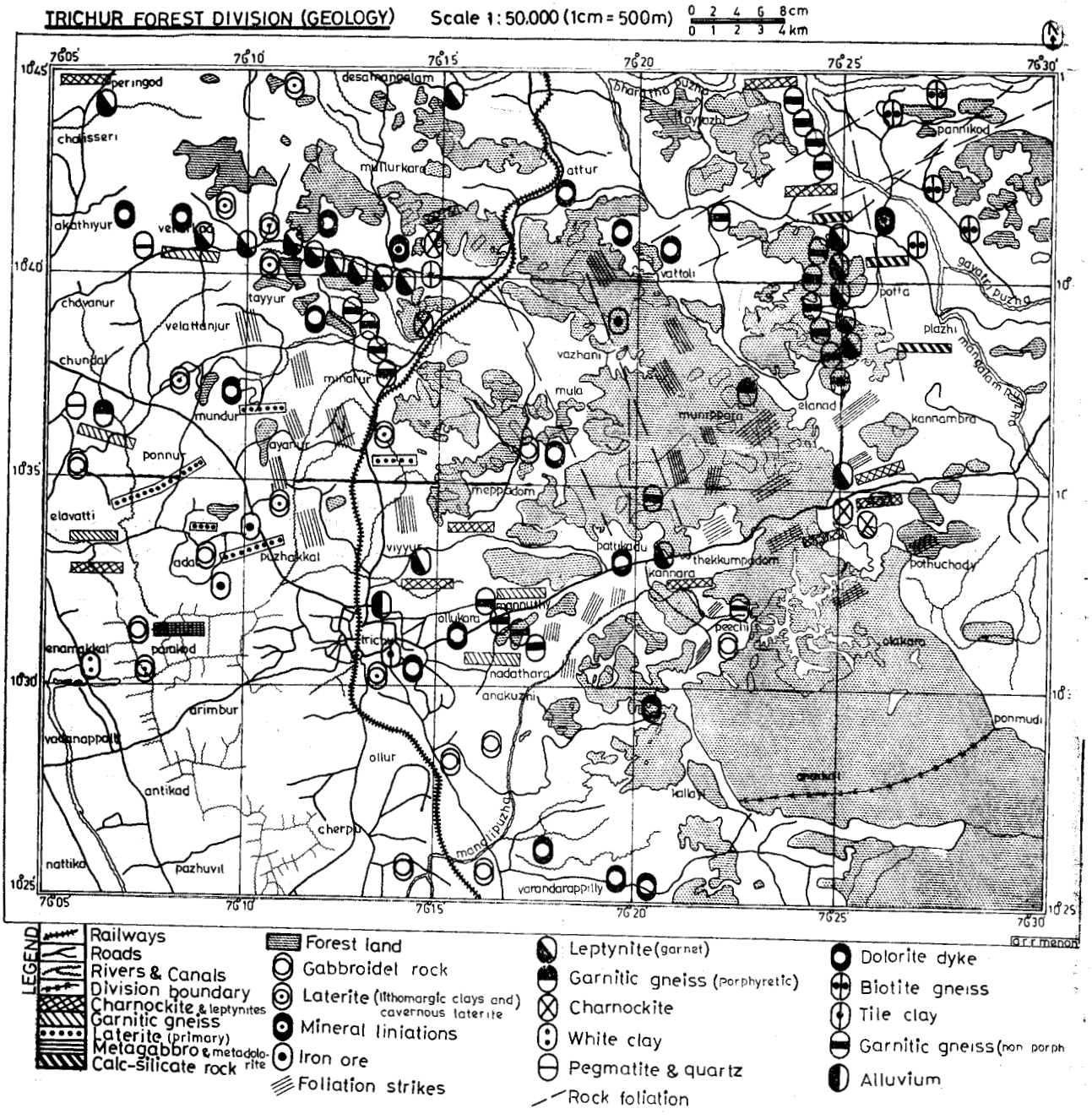


Fig. 6. Geological Map of Trichur Forest Division.