

Full Length Article

Vascular Plant Diversity in the Tribal Homegardens of Kanyakumari Wildlife Sanctuary, Southern Western Ghats

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ABSTRACT

We investigated the vascular plant species composition of homegardens maintained by the *Kani* tribe of Kanyakumari wildlife sanctuary and encountered 368 plants belonging to 290 genera and 98 families, which included 118 tree species, 71 shrub species, 129 herb species, 45 climber and 5 twiners. The study reveals that these gardens provide medicine, timber, fuelwood and edibles for household consumption as well as for sale. We conclude that these homestead agroforestry system serve as habitat for many economically important plant species, harbour rich biodiversity and mimic the natural forests both in structural composition as well as ecological and economic functions.

Key words: Homegardens, *Kani* tribe, Kanyakumari wildlife sanctuary, Western Ghats.

INTRODUCTION

Homegardens are traditional agroforestry systems characterized by the complexity of their structure and multiple functions. Homegardens can be defined as 'land use system involving deliberate management of multipurpose trees and shrubs in intimate association with annual and perennial agricultural crops and invariably livestock within the compounds of individual houses, the whole tree-crop animal unit being intensively managed by family labour' (Fernandes and Nair, 1986).

Gardening is the resource management activities employed by the people of Kanyakumari district who are well acquainted with the importance of the plants growing in their surroundings (Kingston *et al.*, 2006; Arul and Kingston, 2009; Geetha, 2011; Paul and Jeeva, 2013). Past studies of this area provides basic information on the floristic elements, other than homegardens (Jeeva *et al.*, 2005a,b; Jeeva *et al.*, 2006; Prakash *et al.*, 2006; Sukumaran and Jeeva, 2008; Sukumaran *et al.*, 2008; Sukumaran and

Jeeva, 2011, 2012; Brintha, 2012; Brintha *et al.*, 2012; Arul *et al.*, 2013; Domettilla *et al.*, 2013a,b). Keeping the above facts in view, the present work intends to study the tribal homegardens of Kanyakumari wildlife sanctuary, southern Western Ghats.

MATERIALS AND METHODS

Systematic surveys of vascular plants were conducted in the tribal homegardens situated in the tribal settlement of Mothiramalai, Mudavanpottai and Mangamalai of Kanyakumari wildlife sanctuary during the period of January 2010 to December 2012. The collected plant specimens were dried, processed, mounted, identified with the help of regional floras (Gamble and Fischer, 1921-1935; Matthew, 1991; Nair and Henry, 1983; Henry *et al.*, 1987; Henry *et al.*, 1989), confirmed using the collections lodged in Department of Botany, Scott Christian College, Nagercoil, Tamilnadu, India.

RESULTS AND DISCUSSION

Taxonomically, total of 368 plant species belonging to 290 genera and 98 families were inventoried from the tribal homegardens of Kanyakumari district (Table 1). Among them, 118 species (32.1%) were trees, 71 (19.3%) shrubs, 129(35.1%) herbs, 45 (12.2%) climbers and 5 (1.4%) twiners (Figure 1). Familywise distribution shows that, Fabaceae and Euphorbiaceae were the dominant and codominant families with 37 and 24 species each followed by Malvaceae and Lamiaceae (16 species each), Asteraceae (15 species),

Apocynaceae (13 species), Poaceae and Solanaceae (12 species each), Acanthaceae (11 species), Cucurbitaceae, Rubiaceae, and Moraceae (8 species each), Arecaceae, Dioscoreaceae, Rutaceae and Zingiberaceae (7 species each), Araceae, Combretaceae and Convolvulaceae (6 species each) are widely distributed in the homegardens (Table 2). Of the 368 plant species 92 families were Angiosperms, 2 families were Gymnosperms (Cycadaceae, Gnetaceae) and four families were Pteridophytes (Dennstaedtiaceae) Thelypteridaceae, Polypteridaceae, Adiantaceae).

Figure 1. Habitwise distribution of plant species in the study area

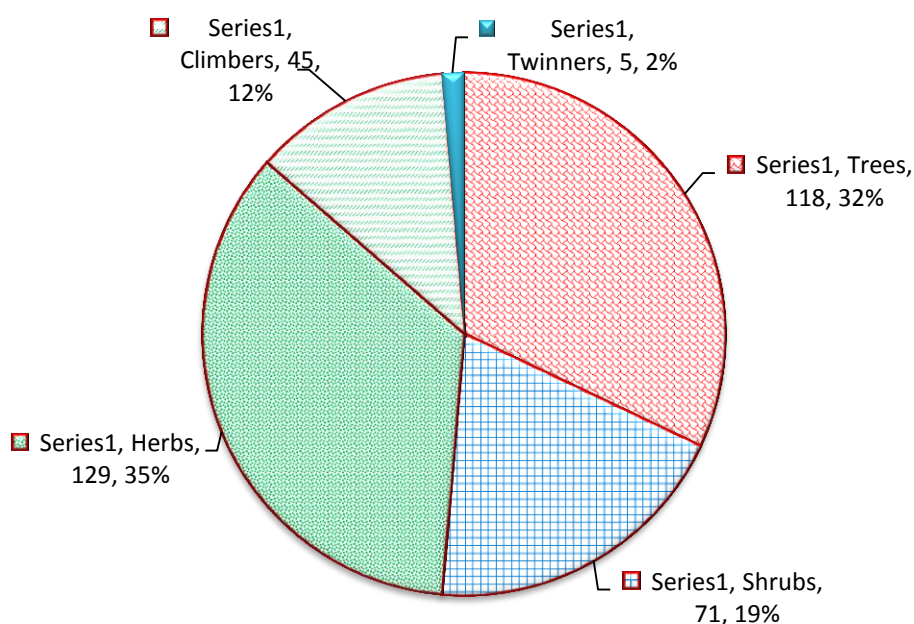
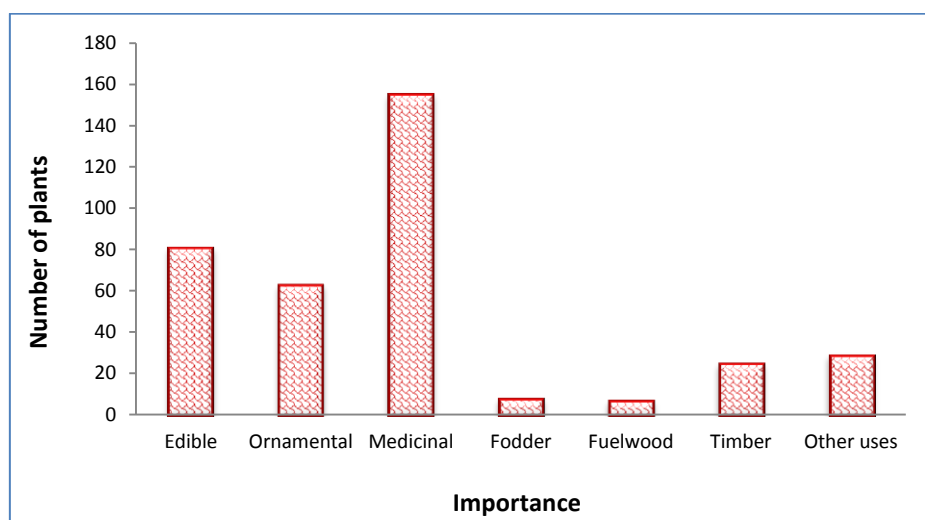


Figure 2. Economic importance of plants species of the study area.



The majority of the plant resemble in the homegardens are terrestrial 98.91%, epiphyte 0.54% and lithophyte 0.27%. The dominant trees in terms of species richness in the homegardens are *Alstonia scholaris*, *Anacardium occidentale*, *Annona squamosa*, *Areca catechu*, *Borassus flabellifer*, *Ceiba pentandra*, *Cocos nucifera*, *Hevea brasiliensis*, *Mangifera indica* and *Phyllanthus emblica*, etc. The shrub layer of the homegarden consists of *Jatropha curcas*, *Senna tora*, *Clerodendrum paniculatum*, etc. Common herbaceous species in the homegardens are *Biophytum sensitivum*, *Cyperus rotundus*, *Ananas comosus*, *Elephantopus scaber*, etc.

Majority of the plants recorded in the homegardens are economically important. Among the 368 species recorded 86 species (23.36%) were fruit producing, 64 species were ornamentals (17.39%), 160 species were medicinal (43.47%), 12 species were fodder (3.26%), 13 species were fuel wood (3.53%), 37 species were timber (10.65%) and 43 species (11.68%) have been used for other purposes such as Shade, gum, religious, oil, dye, rubber, etc. (Figure 2).

The most availability of edible fruit trees are *Anacardium occidentale*, *Annona squamosa*, *Artocarpus heterophyllus*, *Artocarpus hirsutus*, *Carica papaya*, *Cocos nucifera*, *Psidium guajava*, etc. The most important vegetable species grown in the homegardens are *Abelmoschus esculentus*, *Cucumis sativus*, *Curcuma longa*, *Momordica charantia*, *Solanum melongena* etc. The spinach includes *Basella alba*, *Cnidoscolus aconitifolius*, *Portulaca oleracea* and *Sauropus androgynus*. The tuber yielding species include *Amorphophallus paeoniifolius*, *Benincasa hispida*, *Colocasia esculenta*, *Dioscorea alata*, *Ipomoea batatas*, *Manihot esculenta*, *Maranta arundinacea*, *Solanum tuberosum*. The species yields condiments are *Cinnamomum perrottetii*, *C. travancoricum*, *Murraya koenigii*, *Piper longum*, *Piper nigrum*. Some important fodder species in the study area are *Brachiaria ramosa*, *Commelina benghalensis*, *Heteropogon contortus*, *Themeda triandra*, *Gliricidia sepium*, *Gmelina arborea*, etc.

Ornamental plants are plants that are grown for decorative purposes in homegardens. These plants are mostly grown in front of the house and found throughout the garden. The main uses of ornamental plants are throughout the home to beautify the surroundings. Ornamental plants constitute 17.39% of the plants recorded

from the homegardens. The common ornamental plants grown in homegardens are *Caladium bicolor*, *Catharanthus roseus*, *Crossandra infundibuliformis*, *Heliconia chartacea*, *Impatiens balsamina*, *Ixora coccinea*, *Jasminum grandiflorum*, *Lantana camara*, *Rosa alba*, *Tagetes erecta*, etc.

Presence of large number of medicinal plants in the homgarden showed that medicinal plants still play an important role in healing of peoples ailments. Most medicinal plants were collected from the wild and domesticated in the homegardens. Leaves form the major source of medicine, followed by roots, flowers and fruits. Latex and bark from the root and stem is also used. The fruits of *Aegle marmelos* were recommended for consumption by these knowledgeable people largely during summer, as they considered that it regulates the body temperature and keeps the body cool. The seeds of *Tamarindus indica* were used for ethno- veterinary purposes. *Citrus* fruits were used to cure stomach disorders including making juice and pickle. *Ocimum sanctum* was considered a holy plant and was also used to cure cough and cold.

The tribal people using the timber for making agricultural implements and house construction. The most important timber species are *Artocarpus heterophyllus*, *Artocarpus hirsutus*, *Mangifera indica*, *Anogeissus latifolia*, *Artocarpus lakoocha*, *Breonia chinensis*, etc. They are also collecting the dead branches and leaves for fuelwood purposes. The common fuelwood species are *Tamarindus indica*, *Macaranga peltata*, *Artocarpus heterophyllus*, *Acacia nilotica*, *Aporosa cardiosperma*, *Eurya japonica*, *Ficus dalhousiae*, *Ochreinauclea missionis*, *Falcataria moluccana*, *Melia azedarach* and *Hevea brasiliensis* were used to fuel wood plants.

About 11.68% of the plants in the home garden are used for miscellaneous purposes. It includes plants providing oil, gum, latex and other such products. Since the homegardens have trees with broad leaves, these gardens are also used by the tribal people as a resting place during the daytime. Some of the shade providing species is *Mangifera indica*, *Calophyllum inophyllum* and *Tectona grandis*.

Oil is a significant product in the life of the tribal people. Few of the oil yielding plants are *Azadirachta indica*, *Calophyllum inophyllum*, *Cocos nucifera*, *Ricinus communis* and *Sesamum indicum*. Further, Gum

producing plants such as *Macaranga peltata*, *Acacia nilotica*, *Crotalaria retusa*, *Pterocarpus marsupium* are also found in the home gardens. In addition, the leaves of some plants are used for religious purposes. *Aegle marmelos*, *Azadirachta indica*, *Mangifera indica*, *Musa paradisiaca* are found to be used in various religious ceremonies.

They use *Bambusa arundinacea* in a variety of ways. It is used in the construction of the house as well as the cattle and fowl shed. Also, different types of ladders, mats, baskets, measuring vessels, water containers etc., were made. Rubber (*Hevea braziliensis*) and Ilavam (*Ceiba pentandra*) are cultivated as plantation crops on a smaller scale by some tribal peoples. Latex of rubber and fruits of

Ilavu (*Ceiba pentandra*) are collected and sold in the market. The fruit of Areca catechu is used as a masticator, while the leaves and trunk are used for fencing, as broom and also as fuel for cooking.

The high percentage of useful plant species in tribal homegardens of Kanyakumari district reflects the fact that tribals actively retain or introduce useful plant species into the homegardens. The presence of economically important plants in the homegardens helps their basic needs for food, health, energy and housing. Tynsong and Tiwari (2010) also found that agroforests in Meghalaya supply important forest products like fruit, fuelwood, timber, and bamboo to meet household demands.

Table 1. Plant taxa collected from the tribal homegardens of Kanyakumari wildlife sanctuary.

Sl. No.	Botanical Name	Family Name	Vernacular Name	Habit
1	<i>Abelmoschus esculentus</i> (L.) Moench	Malvaceae	Vendai	Herb
2	<i>Abrus precatorius</i> L.	Fabaceae	Kunnimuthu	Herb
3	<i>Abutilon indicum</i> (L.) Sweet	Malvaceae	Thuthi	Shrub
4	<i>Acacia canescens</i> (Britton & Killip) Garcia-Barr.	Fabaceae	Kareenchai	Tree
5	<i>Acacia nilotica</i> (L.) Delile	Fabaceae	Vel maram	Tree
6	<i>Acalypha indica</i> L.	Euphorbiaceae	Kuppamani	Herb
7	<i>Achyranthes aspera</i> L.	Amaranthaceae	Naiuruvi	Herb
8	<i>Acorus calamus</i> L.	Acoraceae	Vasampu	Herb
9	<i>Adenia hondala</i> (Gaertn.) W.J.de Wilde	Passifloraceae	Pal mithappan	Climber
10	<i>Adhatoda vasica</i> Nees	Acanthaceae	Siru adathoda	Shrub
11	<i>Aegle marmelos</i> (L.) Correa	Rutaceae	Vilvum	Tree
12	<i>Ageratum conyzoides</i> (L.) L.	Asteraceae	Vanthan	Herb
13	<i>Ageratum houstonianum</i> Mill.	Asteraceae	Karu vanthan	Herb
14	<i>Alangium salviifolium</i> (L.f.)Wangerin	Cornaceae	Velithondi	Tree
15	<i>Albizia julibrissin</i> Durazz.	Fabaceae	Silk tree	Tree
16	<i>Albizia odoratissima</i> (L.f.) Benth.	Fabaceae	Chalavakai	Tree
17	<i>Allium cepa</i> L.	Amaryllidaceae	Venkayam or ully	Herb
18	<i>Alocasia macrorrhizos</i> (L.) G. Don	Araceae	Maran chambu	Herb
19	<i>Alpinia calcarata</i> (Haw.) Roscoe	Zingiberaceae	Sittarasa	Herb
20	<i>Alstonia scholaris</i> (L.) R.Br.	Apocynaceae	Mukkam palai	Tree
21	<i>Alstonia venenata</i> R.Br.	Apocynaceae	Anali	Shrub
22	<i>Alternanthera sessilis</i> (L.) R. Br. ex DC.	Amaranthaceae	Ponnankanni keerai	Herb
23	<i>Amaranthus spinosus</i> L.	Amaranthaceae	Mul keerai	Herb
24	<i>Amaranthus viridis</i> L.	Amaranthaceae	Kuppa keerai	Herb
25	<i>Amorphophallus paeoniifolius</i> (Dennst.)Nicolson	Araceae	Chani	Herb
26	<i>Ampelocissus indica</i> (L.) Planch.	Vitaceae	Sunnambu valli kody	Climber
27	<i>Anacardium occidentale</i> L.	Anacardiaceae	Kollavu	Tree
28	<i>Anamirta cocculus</i> (L.) Wight & Arn.	Menispermaceae	Kaklic kody	Climber
29	<i>Ananas comosus</i> (L.) Merr.	Bromeliaceae	Annasy palam	Herb
30	<i>Andrographis paniculata</i> (Burm.f.) Nees	Acanthaceae	Kirisathu	Herb
31	<i>Annona muricata</i> L.	Annonaceae	Chema munthiry	Tree
32	<i>Annona squamosa</i> L.	Annonaceae	Munthiri	Tree
33	<i>Anogeissus latifolia</i> (Roxb. ex DC.) Wall. ex	Combretaceae	Vetkaly	Tree

	Bedd.			
34	<i>Apluda mutica</i> L.	Poaceae	Mulamchadi pul	Herb
35	<i>Aporosa cardiosperma</i> (Gaertn.) Merr.	Euphorbiaceae	Vitty	Herb
36	<i>Areca catechu</i> L.	Areceae	Kamugu	Tree
37	<i>Arenga wightii</i> Griff.	Areceae	Ala thenku	Tree
38	<i>Aristida adscensionis</i> L.	Poaceae	Moonchattai	Herb
39	<i>Aristolochia bracteolata</i> Lam.	Aristolochiaceae	Aduthinapalai	Shrub
40	<i>Aristolochia indica</i> L.	Aristolochiaceae	Garuda kody	Creeper
41	<i>Aristolochia tagala</i> Cham.	Aristolochiaceae	Kozi kuduvai	Climber
42	<i>Artocarpus altilis</i> (Parkinson ex F.A.Zorn) Fosberg	Moraceae	Kari pala	Tree
43	<i>Artocarpus heterophyllus</i> Lam.	Moraceae	Pala	Tree
44	<i>Artocarpus hirsutus</i> Lam.	Moraceae	Ayeni	Tree
45	<i>Artocarpus lakoocha</i> Roxb.	Moraceae	Kattu pala	Tree
46	<i>Asparagus racemosus</i> Willd.	Asparagaceae	Sathavalli	Climber
47	<i>Averrhoa bilimbi</i> L.	Oxalidaceae	Pulichikai	Tree
48	<i>Azadirachta indica</i> A.Juss.	Meliaceae	Veppa maram	Tree
49	<i>Azima tetraacantha</i> Lam.	Salvadoraceae	Esanku	Shrub
50	<i>Baccaurea courtallensis</i> (Wight) Mull. Arg.	Phyllanthaceae	Mootu palam	Tree
51	<i>Bambusa bambos</i> (L.) Voss	Poaceae	Mul moonkil	Tree
52	<i>Basella alba</i> L.	Basellaceae	Kody keerai	Herb
53	<i>Bauhinia tomentosa</i> L.	Fabaceae	Manjal mantharai	Shrub
54	<i>Begonia malabarica</i> Lam.	Begoniaceae	Narayana sanchevy	Herb
55	<i>Benincasa hispida</i> (Thunb.) Cogn.	Cucurbitaceae	Kumbalam	Climber
56	<i>Bidens pilosa</i> L.	Asteraceae	Ottu mullu	Herb
57	<i>Biophytum sensitivum</i> (L.) DC.	Oxalidaceae	Manivatty pacha	Herb
58	<i>Blepharis maderaspatensis</i> (L.) B.Heyne ex Roth	Acanthaceae	Muriporunthy	Herb
59	<i>Bombax ceiba</i> L.	Malvaceae	Panchy	Tree
60	<i>Borassus flabellifer</i> L.	Areceae	Panai	Tree
61	<i>Bougainvillea spectabilis</i> Willd.	Nyctaginaceae	Paper plant	Shrub
62	<i>Brachiaria ramosa</i> (L.) Stapf	Poaceae	Pulicham pul	Herb
63	<i>Brassica juncea</i> (L.) Czern.	Brassicaceae	Kattu kaduku	Herb
64	<i>Breonia chinensis</i> (Lam.) Capuron	Rubiaceae	Kadampu	Tree
65	<i>Breynia vitis-idaea</i> (Burm.f.) C.E.C.Fisch.	Euphorbiaceae	Pavalapoolathy	Shrub
66	<i>Bridelia retusa</i> (L.) A. Juss.	Euphorbiaceae	Mulvenkai	Tree
67	<i>Bryophyllum pinnatum</i> (Lam.) Oken	Crassulaceae	Chodakku	Herb
68	<i>Caesalpinia sappan</i> L.	Fabaceae	Chapponku	Tree
69	<i>Cajanus cajan</i> (L.) Millsp.	Fabaceae	Kattu thuvarai	Shrub
70	<i>Caladium bicolor</i> (Aiton) Vent.	Araceae	Alagu chambu	Herb
71	<i>Calophyllum inophyllum</i> L.	Calophyllaceae	Punnai	Tree
72	<i>Camellia sinensis</i> (L.) Kuntze	Theaceae	Tea plant	Tree
73	<i>Canna indica</i> L.	Cannaceae	Vaza chedy	Herb
74	<i>Capsicum annum</i> L.	Solanaceae	Milagu	Herb
75	<i>Cardiospermum halicacabum</i> L.	Sapindaceae	Uzhija	Climber
76	<i>Careya arborea</i> Roxb.	Lecythidaceae	Kumil	Tree
77	<i>Carica papaya</i> L.	Caricaceae	Pappali	Tree
78	<i>Caryota urens</i> L.	Areceae	Ulatthy	Tree
79	<i>Cassia fistula</i> L.	Caesalpiniaceae	Sara Konnai	Shrub
80	<i>Casuarina equisetifolia</i> L.	Casuarinaceae	Chavukka maram	Tree
81	<i>Catharanthus roseus</i> (L.) G.Don	Apocynaceae	Nithiya kalyani	Shrub
82	<i>Ceiba pentandra</i> (L.) Gaertn.	Malvaceae	Ilavu	Tree
83	<i>Celosia argentea</i> L.	Amaranthaceae	Kozhi poo	Herb
84	<i>Centella asiatica</i> (L.) Urb.	Apiaceae	Kudankal	Herb
85	<i>Chromolaena odorata</i> (L.) R.M.King & H.Rob.	Costaceae	Anapoochadi	Herb
86	<i>Cynodon dactylon</i> (L.) Pers.	Poaceae	Arukampullu	Herb
87	<i>Cicer arietinum</i> L.	Fabaceae	Kondai kadalai	Herb
88	<i>Cinnamomum perrottetii</i> Meisn.	Lauraceae	Vayana	Tree

89	<i>Cinnamomum travancoricum</i> Gamble	Lauraceae	Thirali	Tree
90	<i>Cinnamomum verum</i> J.Presl	Lauraceae	Karuva	Tree
91	<i>Cissampelos pareira</i> L.	Menispermaceae	Malathanky	Climber
92	<i>Cissus quadrangularis</i> L.	Vitaceae	Perandai kody	Climber
93	<i>Citrus aurantiifolia</i> (christm.) Swingle	Rutaceae	Naranthy	Tree
94	<i>Citrus limon</i> (L.) Burm.f.	Rutaceae	Elumicchai	Tree
95	<i>Citrus reticulata</i> Blanco	Rutaceae	Oranchu maram	Tree
96	<i>Cleome viscosa</i> L.	Cleomaceae	Naikaduku	Herb
97	<i>Clerodendrum chinense</i> (Osbeck) Mabb.	Lamiaceae	Sendu mullai	Shrub
98	<i>Clerodendrum infortunatum</i> L.	Lamiaceae	Krishna kiredam	Shrub
99	<i>Clerodendrum paniculatum</i> L.	Lamiaceae	Paruvilai	Shrub
100	<i>Clitoria ternatea</i> L.	Fabaceae	Shangu pushpam	Climber
101	<i>Cnidioscolus aconitifolius</i> (Mill.) I.M.Johnst.	Euphorbiaceae	Suger keerai	Shrub
102	<i>Cocos nucifera</i> L.	Arecaceae	Thennai	Tree
103	<i>Codariocalyx motorius</i> (Houtt.) H. Ohashi	Fabaceae	Thozhukanny	Shrub
104	<i>Codiaeum variegatum</i> (L.) Rumph. ex A.Juss	Euphorbiaceae	Crotans	Shrub
105	<i>Coffea arabica</i> L.	Rubiaceae	Kappy	Shrub
106	<i>Colocasia esculenta</i> (L.) Schott	Araceae	Champu	Herb
107	<i>Commelina benghalensis</i> L.	Commelinaceae	Valapachai	Herb
108	<i>Cordia dichotoma</i> G. Forst.	Boraginaceae	Viriyan	Herb
109	<i>Coriandrum sativum</i> L.	Apiaceae	Erasa thalai	Herb
110	<i>Coscinium fenestratum</i> (Goetgh.) Colebr.	Menispermaceae	Mara manchal	Herb
111	<i>Cheilocostus speciosus</i> (J.Konig) C. Specht	Costaceae	Kattu kostam	Herb
112	<i>Crassocephalum crepidioides</i> (Benth.) S. Moore	Asteraceae	Manipuri	Herb
113	<i>Crinum viviparum</i> (Lam.) R. Ansari & V.J.Nair	Amaryllidaceae	Visha narainy	Herb
114	<i>Crocus sativus</i> L.	Iridaceae	Kunkuma chedy	Herb
115	<i>Crossandra infundibuliformis</i> (L.) Nees	Acanthaceae	Kanakamparam	Herb
116	<i>Crotalaria pallida</i> Aiton	Fabaceae	Kilukiluppai	Herb
117	<i>Cucumis sativus</i> L.	Cucurbitaceae	Vallarikkay	Climber
118	<i>Cucurbita maxima</i> Duchesne	Cucurbitaceae	Poosany kody	Climber
119	<i>Curculigo orchioides</i> Gaertn.	Hypoxidaceae	Nila panai	Herb
120	<i>Curcuma amada</i> Roxb.	Zingiberaceae	Manga inchi	Herb
121	<i>Curcuma aromatica</i> Salisb.	Zingiberaceae	Kasthuri manchal	Herb
122	<i>Curcuma longa</i> L.	Zingiberaceae	Manjal	Herb
123	<i>Cycas circinalis</i> L.	Cycadaceae	Chala	Tree
124	<i>Cymbopogon citratus</i> (DC.) Stapf	Poaceae	Vattu pul	Herb
125	<i>Cymbopogon winterianus</i> Jowitt ex Bor	Poaceae	Enna tharuvai	Herb
126	<i>Cyperus rotundus</i> L.	Cyperaceae	Korai pul	Herb
127	<i>Dahlia pinnata</i> Cav.	Asteraceae	Dalika	Herb
128	<i>Dalbergia sissoo</i> DC.	Fabaceae	Yette	Tree
129	<i>Datura metel</i> L.	Solanaceae	Ummathai	Shrub
130	<i>Delonix elata</i> (L.) Gamble	Fabaceae	Vathamudakky	Tree
131	<i>Delonix regia</i> (Hook.) Raf.	Fabaceae	Kattu thee maram	Tree
132	<i>Desmodium gangeticum</i> (L.) DC	Fabaceae	Oralai	Herb
133	<i>Desmodium triflorum</i> (L.) DC.	Fabaceae	Pana pul	Herb
134	<i>Dillenia pentagyna</i> Roxb.	Dilleniaceae	Nathekku	Tree
135	<i>Dioscorea alata</i> L.	Dioscoreaceae	Kachi kilanku	Climber
136	<i>Dioscorea bulbifera</i> L.	Dioscoreaceae	Kattu thampai	Climber
137	<i>Dioscorea esculenta</i> (Lour.) Burkill	Dioscoreaceae	Siru kizhangu	Climber
138	<i>Dioscorea hispida</i> Dennst.	Dioscoreaceae	Kavala kody	Climber
139	<i>Dioscorea pentaphylla</i> L.	Dioscoreaceae	Noorakody	Climber
140	<i>Dioscorea tomentosa</i> J.Konig ex Spreng.	Dioscoreaceae	Noolic kilanku	Climber
141	<i>Diplocyclos palmatus</i> (L.) C.Jeffrey	Cucurbitaceae	Ivirali	Climber
142	<i>Duranta erecta</i> L.	Verbenaceae	Chedy thiradchai	Shrub
143	<i>Ecbolium viride</i> (Forssk.) Alston	Acanthaceae	Neelampari chedy	Shrub
144	<i>Eclipta prostrata</i> (L.) L.	Asteraceae	Karisalan kanny	Herb
145	<i>Elaeis guineensis</i> Jacq.	Arecaceae	Enna pannai	Tree

146	<i>Elaeocarpus serratus</i> L.	Elaeocarpaceae	Karai	Tree
147	<i>Elephantopus scaber</i> L.	Asteraceae	Anachavudady	Herb
148	<i>Emilia sonchifolia</i> (L.) DC. ex DC.	Asteraceae	Kuchari poo	Herb
149	<i>Episcia cupreata</i> (Hook.) Hanst.	Gesneriaceae	Flame violet	Herb
150	<i>Erythrina stricta</i> Roxb.	Fabaceae	Murukku	Tree
151	<i>Erythrina suberosa</i> Roxb.	Fabaceae	Mull murukku	Tree
152	<i>Eucalyptus globulus</i> Labill.	Myrtaceae	YuKKaly maram	Tree
153	<i>Euphorbia hirta</i> L.	Euphorbiaceae	Amman pacharicy	Herb
154	<i>Euphorbia nerifolia</i> L.	Euphorbiaceae	Sathura kalli	Shrub
155	<i>Euphorbia nivulia</i> Buch.-Ham.	Euphorbiaceae	Mantha kally	Shrub
156	<i>Euphorbia thymifolia</i> L.	Euphorbiaceae	Chithira paladai	Herb
157	<i>Euphorbia tithymaloides</i> L.	Euphorbiaceae	Kannady kally	Shrub
158	<i>Eurya japonica</i> Thunb.	Pentaphylacaceae	Eluvai	Shrub
159	<i>Falcataria moluccana</i> (Miq.) Barneby & J.W.Grimes	Fabaceae	Alpeesia	Tree
160	<i>Ficus benghalensis</i> L.	Moraceae	Alla maram	Tree
161	<i>Ficus dalhousiae</i> Miq.	Moraceae	Kall all	Tree
162	<i>Flacourtia indica</i> (Burm.f.)Merr.	Salicaceae	Kodikarai	Tree
163	<i>Garcinia gummi-gutta</i> (L.) Roxb.	Clusiaceae	Kodam puli	Tree
164	<i>Getonia floribunda</i> Roxb.	Combretaceae	Pullani kody	Climber
165	<i>Gliricidia sepium</i> (Jacq.) Walp.	Fabaceae	Vely konnai	Tree
166	<i>Gloriosa superba</i> L.	Colchicaceae	Kalapai kilanku	Herb
167	<i>Glycosmis pentaphylla</i> (Retz.) DC.	Rutaceae	Konchy	Shrub
168	<i>Glycyrrhiza glabra</i> L.	Fabaceae	Atimadhuram	Herb
169	<i>Gmelina arborea</i> Roxb.	Lamiaceae	Kumil	Tree
170	<i>Gnetum ula</i> Brongn.	Gnetaceae	Oda valli	Climber
171	<i>Gossypium arboreum</i> L.	Malvaceae	Paruthy	Shrub
172	<i>Grewia hirsuta</i> Vahl	Malvaceae	Tavuttai	Tree
173	<i>Grewia tiliifolia</i> Vahl	Malvaceae	Unnu maram	Tree
174	<i>Heliconia chartacea</i> Lane ex Barreiros	Heliconiaceae	Vazai chedy	Herb
175	<i>Helicteres isora</i> L.	Malvaceae	Valampuri edempuri	Shrub
176	<i>Hemidesmus indicus</i> (L.) R.Br. ex Schult.	Apocynaceae	Nannari	Herb
177	<i>Hemionitis arifolia</i> (Burm.f.)T.Moore	Adiantaceae	Naikathu	Herb
178	<i>Heteropogon contortus</i> (L.) P. Beauv.ex Roem.& Schult.	Poaceae	Kuthirai vall pul	Herb
179	<i>Hevea brasiliensis</i> (Willd. ex A.Juss.) Mull. Arg.	Euphorbiaceae	Rubber	Tree
180	<i>Hibiscus lampas</i> Cav.	Malvaceae	Kattu paruthy	Shrub
181	<i>Hibiscus rosa-sinensis</i> L.	Malvaceae	Chemparuthy	Shrub
182	<i>Hibiscus surattensis</i> L.	Malvaceae	Mul uruki	Shrub
183	<i>Hippeastrum puniceum</i> (Lam.) Voss	Amaryllidaceae	Vrishakarni	Herb
184	<i>Holigarna arnottiana</i> Hook.f.	Anacardiaceae	Charu	Tree
185	<i>Holostemma ada-kodien</i> Schult.	Apocynaceae	Adakodien	Climber
186	<i>Hopea parviflora</i> Bedd.	Dipterocarpaceae	Konku	Tree
187	<i>Hymenodictyon orixense</i> (Roxb.) Mabb.	Rubiaceae	Vetkadampu	Tree
188	<i>Hyptis suaveolens</i> (L.) Poit.	Lamiaceae	Narichipacha	Herb
189	<i>Ichnocarpus frutescens</i> (L.) W.T.Aiton	Apocynaceae	Palvalic kody	Climber
190	<i>Impatiens balsamina</i> L.	Balsaminaceae	Balsam	Herb
191	<i>Imperata cylindrica</i> (L.) Raeusch.	Poaceae	Thirpa pul	Herb
192	<i>Indigofera tinctoria</i> L.	Fabaceae	Neelavary	Shrub
193	<i>Ipomoea batatas</i> (L.) Lam.	Convolvulaceae	Cheeny kilangu	Climber
194	<i>Ipomoea mauritiana</i> Jacq.	Convolvulaceae	Pavana kody	Twiner
195	<i>Ipomoea obscura</i> (L.) Ker Gawl.	Convolvulaceae	Mithappan kody	Twiner
196	<i>Ipomoea quamoclit</i> L.	Convolvulaceae	Kural vacha kody	Twiner
197	<i>Ipomoea rubriflora</i> O'Donell	Convolvulaceae	Mul urinchi	climber
198	<i>Ixora coccinea</i> L.	Rubiaceae	Thetti	Shrub
199	<i>Ixora finlaysoniana</i> Wall. ex G. Don	Rubiaceae	Wellai tetti	Tree
200	<i>Jasminum abyssinicum</i> Hochst. ex DC.	Oleaceae	Kattu mullai	Shrub
201	<i>Jasminum auriculatum</i> Vahl	Oleaceae	Mullai	Shrub

202	<i>Jasminum grandiflorum</i> L.	Oleaceae	Pitchi	Shrub
203	<i>Jasminum multiflorum</i> (Burm.f.) Andrews	Oleaceae	Sathura mullai	Climber
204	<i>Jasminum sambac</i> (L.) Sol.	Oleaceae	Kundu malli	Shrub
205	<i>Jatropha curcas</i> L.	Euphorbiaceae	Kuluvetty	Shrub
206	<i>Justicia adhatoda</i> L.	Acanthaceae	Adhathoda	Shrub
207	<i>Justicia procumbens</i> Blume	Acanthaceae	Ody madakky	Herb
208	<i>Kaempferia galanga</i> L.	Zingiberaceae	Kacholam	Herb
209	<i>Lagerstroemia speciosa</i> (L.) Pers.	Lythraceae	Ven thakku	Tree
210	<i>Lansea coromandelica</i> (Houtt.)Merr.	Anacardiaceae	Uthy maram	Tree
211	<i>Lantana camara</i> L.	Verbenaceae	Poochatty	Shrub
212	<i>Launaea procumbens</i> (Roxb.) Ramayya & Rajagopol	Asteraceae	Eluthani pacha	Herb
213	<i>Lawsonia inermis</i> L.	Lythraceae	Mailangy	Tree
214	<i>Leea indica</i> (Burm.f.) Merr.	Vitaceae	Otta nali	Shrub
215	<i>Leptochloa uniflora</i> Hochst.ex A.Rich.	Poaceae	Payri pul	Herb
216	<i>Leucas aspera</i> (Willd.) Link	Lamiaceae	Thumbai	Herb
217	<i>Leucas biflora</i> (Vahl) R. Br. ex Sm.	Lamiaceae	Vattaporuvalan	Herb
218	<i>Lobelia siphilitica</i> L.	Campanulaceae	Upperichedi	Herb
219	<i>Lophopetalum wightianum</i> Arn.	Celastraceae	Venkottai	Tree
220	<i>Lycopersicon esculentum</i> Mill	Solanaceae	Nattu thakkali	Herb
221	<i>Macaranga peltata</i> (Roxb.) Mull.Arg.	Euphorbiaceae	Vatta kanny	Tree
222	<i>Magnolia champaca</i> (L.) Baill. Ex Pierre	Magnoliaceae	Chempakam	Tree
223	<i>Magnolia nilagirica</i> (Zenker) Figlar	Magnoliaceae	Kattu chempakam	Tree
224	<i>Mallotus philippensis</i> (Lam.) Mull. Arg.	Euphorbiaceae	Chenkalai	Tree
225	<i>Malus domestica</i> Borkh.	Rosaceae	Apple maram	Tree
226	<i>Mangifera indica</i> L.	Anacardiaceae	Mavu	Tree
227	<i>Manihot esculenta</i> Crantz	Euphorbiaceae	Maracheeni	Shrub
228	<i>Manilkara zapota</i> (L.) P. Royen	Sapotaceae	Sappota	Tree
229	<i>Maranta arundinacea</i> L.	Marantaceae	Kuva cheeny	Herb
230	<i>Marsdenia sylvestris</i> (Retz.) P.I.Forst.	Apocynaceae	Chakkara kolli	Herb
231	<i>Melia azedarach</i> L.	Meliaceae	Malavempu	Tree
232	<i>Merremia tridentata</i> (L.) Hallier f.	Convolvulaceae	Konda valathy kody	Herb
233	<i>Microlepia strigosa</i> (Thunb.) C.Presl	Dennstaedtiaceae	Kattu poondu	Herb
234	<i>Microstachys chamaelea</i> (L.) Mull.Arg.	Euphorbiaceae	Nila amanakku	Herb
235	<i>Mimosa pudica</i> L.	Fabaceae	Thottavady	Herb
236	<i>Mimosa strigillosa</i> Torr.& A.Gray	Fabaceae	Mullila thottavadi	Herb
237	<i>Mirabilis jalapa</i> L.	Nyctaginaceae	Anthimantharai	Herb
238	<i>Momordica charantia</i> L.	Cucurbitaceae	Pavai kai	Climber
239	<i>Moringa concanensis</i> Nimmo ex Dalzell & A.Gibson	Moringaceae	Mala murunkai	Tree
240	<i>Moringa oleifera</i> Lam.	Moringaceae	Murungai	Tree
241	<i>Morus alba</i> L.	Moraceae	Mulberry	Tree
242	<i>Mukia maderaspatana</i> (L.) M.Roem.	Cucurbitaceae	Mosumosukai	Climber
243	<i>Murraya koenigii</i> (L.)Spreng.	Rutaceae	Karivapilai	Tree
244	<i>Musa paradisiaca</i> L.	Musaceae	Vazhai	Tree
245	<i>Mussaenda frondosa</i> L.	Rubiaceae	Vellaimadhanthai	Shrub
246	<i>Naravelia zeylanica</i> (L.) DC.	Ranunculaceae	Mookarupan kody	Climber
247	<i>Naregamia alata</i> Wight & Arn.	Meliaceae	Nila naraham	Shrub
248	<i>Ochlandra travancorica</i> (Bedd.) Gamble	Poaceae	Eethal	Shrub
249	<i>Ochreinauclea missionis</i> (Wall. ex G. Don) Ridsdale	Rubiaceae	Attu venjii	Tree
250	<i>Ocimum basilicum</i> L.	Lamiaceae	Thirunuthu pachady	Herb
251	<i>Ocimum tenuiflorum</i> L.	Lamiaceae	Thulasy	Shrub
252	<i>Orthosiphon aristatus</i> (Blume) Miq.	Lamiaceae	Poonai meesai	Herb
253	<i>Osbeckia aspera</i> Bl.	Melastomataceae	Kattu kadalai	Shrub
254	<i>Pachystachys lutea</i> Nees	Acanthaceae	Yellow Lollipop plant	Shrub
255	<i>pachystachys spicata</i> (Ruiz & Pav.) Wassh.	Acanthaceae	Red lollipop plant	Shrub
256	<i>Pandanus amaryllifolius</i> Roxb.	Pandanaceae	Ramba	Herb

257	<i>Pandanus odorifer</i> (Forssk.) Kuntze	Pandanaceae	Thalai pachilai	Shrub
258	<i>Parthenium hysterophorus</i> L.	Asteraceae	Seruppadithazhai	Herb
259	<i>Passiflora foetida</i> L.	Passifloraceae	Chokkam parantha kody	Climber
260	<i>Peperomia pellucida</i> (L.) Kunth	Piperaceae	Thirumani	Herb
261	<i>Pergularia daemia</i> (Forssk.) Chiov.	Apocynaceae	Cheenthal kody	Twiner
262	<i>Persea macrantha</i> (Nees) Kosterm.	Lauraceae	Kola mavu	Tree
263	<i>Phegopteris hexagonoptera</i> (Michx.) Fee	Thelypteridaceae	Kinnattu poondu	Herb
264	<i>Phoenix loureiroi</i> Kunth	Arecaceae	Eenthy	Shrub
265	<i>Phyllanthus acidus</i> (L.) Skeels	Phyllanthaceae	Pulichhi nelli	Tree
266	<i>Phyllanthus amarus</i> Schumach. & Thonn.	Phyllanthaceae	Keelkai nelli	Herb
267	<i>Phyllanthus emblica</i> L.	Phyllanthaceae	Nelli	Tree
268	<i>Physalis angulata</i> L.	Solanaceae	Pattanum thooky	Herb
269	<i>Piper betle</i> L.	Piperaceae	Vethylai kody	Climber
270	<i>Piper longum</i> L.	Piperaceae	Thipili	Climber
271	<i>Piper mullesua</i> Buch.-Ham. ex D.Don	Piperaceae	Kattu nallamilagu	Climber
272	<i>Piper nigrum</i> L.	Piperaceae	Nalla milagu	Climber
273	<i>Plectranthus amboinicus</i> (Lour.) Spreng.	Lamiaceae	Navara pachilai	Herb
274	<i>Plumbago zeylanica</i> L.	Plumbaginaceae	Koduveli	Shrub
275	<i>Poeciloneuron indicum</i> Bedd.	Clusiaceae	Vallavu	Tree
276	<i>Polyalthia cerasoides</i> (Roxb.) Benth. & Hook.f. ex Bedd.	Annonaceae	Nedu narai	Tree
277	<i>Polyalthia longifolia</i> (Sonn.) Thwaites	Annonaceae	Arana maram	Tree
278	<i>polygala arvensis</i> Willd.	Polygalaceae	Seriyar nankai	Herb
279	<i>Polypodium glycyrrhiza</i> D.C.Eaton	Polypodiaceae	Chala pattu	Herb
280	<i>Pongamia pinnata</i> (L.) Pierre	Fabaceae	Punku	Tree
281	<i>Portulaca oleracea</i> L.	Portulacaceae	Eela keerai	Herb
282	<i>Pothos thomsonianus</i> Schott	Araceae	Maravalli	Climber
283	<i>Pouteria campechiana</i> (Kunth) Baehni	Sapotaceae	Egg fruit	Tree
284	<i>Proiphys amboinensis</i> (L.) Herb.	Amaryllidaceae	Cardwell lily	Herb
285	<i>Prunus amygdalus</i> Stokes	Rosaceae	Badam	Tree
286	<i>Pseudarthria viscida</i> (L.) Wight & Arn.	Fabaceae	Moovilai	Shrub
287	<i>Psidium guajava</i> L.	Myrtaceae	Pera,Koya	Tree
288	<i>Psydrax dicoccos</i> Gaertn.	Rubiaceae	Irumparuthan	Shrub
289	<i>Pterocarpus marsupium</i> Roxb.	Fabaceae	Venkai	Tree
290	<i>Pueraria phaseoloides</i> (Roxb.) Benth.	Fabaceae	Kichilic kody	Climber
291	<i>Punica granatum</i> L.	Lythraceae	Madulam	Shrub
292	<i>Putranjiva roxburghii</i> Wall.	Putranjivaceae	Karuppala	Tree
293	<i>Rauvolfia serpentina</i> (L.) Benth. ex Kurz	Apocynaceae	Aval podi	Herb
294	<i>Rhinacanthus nasutus</i> (L.) Kurz	Acanthaceae	Nagamalli	Shrub
295	<i>Ricinus communis</i> L.	Euphorbiaceae	Amanakku	Shrub
296	<i>Rivina humilis</i> L.	Phytolaccaceae	kutty thakkali	Herb
297	<i>Rosa alba</i> L.	Rosaceae	Roja	Shrub
298	<i>Ruellia tuberosa</i> L.	Acanthaceae	Vedikai	Herb
299	<i>Russelia equisetiformis</i> Schlttdl. & Cham.	Plantaginaceae	Mail konnai	Shrub
300	<i>Sansevieria trifasciata</i> Prain	Asparagaceae	Naga pacha	Herb
301	<i>Santalum album</i> L.	Santalaceae	Chanthanam	Tree
302	<i>Sapindus laurifolia</i> Vahl	Sapindaceae	Soppu kai maram	Tree
303	<i>Saraca asoca</i> (Roxb.) Willd.	Caesalpiniaceae	Ashoka	Tree
304	<i>Sauropus androgynus</i> (L.) Merr.	Phyllanthaceae	Veli keerai	Shrub
305	<i>Scadoxus multiflorus</i> (Martyn) Raf.	Amaryllidaceae	May flower	Herb
306	<i>Scleria lithosperma</i> (L.) Sw.	Cyperaceae	Katty pul	Herb
307	<i>Scoparia dulcis</i> L.	Plantaginaceae	Chakkara vembu	Herb
308	<i>Senna alata</i> (L.) Roxb.	Caesalpiniaceae	Seemai agathy	Shrub
309	<i>Senna auriculata</i> (L.) Roxb.	Caesalpiniaceae	Aavaaram poo	Shrub
310	<i>Senna occidentalis</i> (L.) Link	Caesalpiniaceae	Anathavarai	Herb
311	<i>Senna tora</i> (L.) Roxb.	Caesalpiniaceae	Thavarai	Shrub
312	<i>Sesamum indicum</i> L.	Pedaliaceae	Ellu	Herb
313	<i>Sesbania grandiflora</i> (L.) Pers.	Fabaceae	Agathi	Tree

314	<i>Sida cordata</i> (Burm.f.) Borss. Waalk	Malvaceae	Neer urinchi	Herb
315	<i>Sida rhombifolia</i> L.	Malvaceae	Kurunthotty	Shrub
316	<i>Sida spinosa</i> L.	Malvaceae	Anakurunthotti	Herb
317	<i>Smilax bracteata</i> C.Presl	Smilacaceae	Karivilangic kody	climber
318	<i>Smilax zeylanica</i> L.	Smilacaceae	Kattu kody	Climber
319	<i>Solanum americanum</i> Mill.	Solanaceae	Mana thakkali	Herb
320	<i>Solanum anguivi</i> Lam.	Solanaceae	Cheru sunda	Herb
321	<i>Solanum dulcamara</i> L.	Solanaceae	Pulu sundai	Herb
322	<i>Solanum lycopersicum</i> Lam.	Solanaceae	Thukkali	Herb
323	<i>Solanum melongena</i> L.	Solanaceae	Katharika	Herb
324	<i>Solanum rudepannum</i> Dunal	Solanaceae	Sundai kai	Shrub
325	<i>Solanum tuberosum</i> L.	Solanaceae	Urulai kilanku	Herb
326	<i>Solanum virginianum</i> L.	Solanaceae	Kandan katrikai	Herb
327	<i>Solidago canadensis</i> L.	Asteraceae	Agasthiyer sanjeeve	Herb
328	<i>Sphagneticola trilobata</i> (L.) Pruski	Asteraceae	Mookuthy poo	Herb
329	<i>Stachytarpheta jamaicensis</i> (L.) Vahl	Verbenaceae	Thiruvai nakku	Shrub
330	<i>Sterculia guttata</i> Roxb.	Sterculiaceae	Thondy	Tree
331	<i>Stereospermum chelonoides</i> (L.f.) DC.	Bignoniaceae	Pathyri	Tree
332	<i>Strychnos nux-vomica</i> L.	Loganiaceae	Eety	Tree
333	<i>Synedrella nodiflora</i> (L.) Gaertn.	Asteraceae	Kalapacha	Herb
334	<i>Syzygium aromaticum</i> (L.) Merr. & L.M. Perry	Myrtaceae	Kirampoo	Tree
335	<i>Syzygium cumini</i> (L.) Skeels	Myrtaceae	Naval	Tree
336	<i>Syzygium jambos</i> (L.) Alston	Myrtaceae	Jampai	Tree
337	<i>Tabernaemontana dichotoma</i> Roxb. ex Wall.	Apocynaceae	Kundala palai	Shrub
338	<i>Tabernaemontana divaricata</i> (L.) R.Br.ex Roem. & Schult.	Apocynaceae	Nanthiyar vattam	Shrub
339	<i>Tadehagi triquetrum</i> (L.) H.Ohashi	Fabaceae	Vetta chulavy	Shrub
340	<i>Tagetes erecta</i> L.	Asteraceae	Javanthy	Herb
341	<i>Tamarindus indica</i> L.	Caesalpiniaceae	Puli	Tree
342	<i>Tectona grandis</i> L.f.	Lamiaceae	Thekku	Tree
343	<i>Terminalia alata</i> Wall.	Combretaceae	Karu maruthu	Tree
344	<i>Terminalia bellirica</i> (Gaertn.) Roxb.	Combretaceae	Thani	Tree
345	<i>Terminalia crenulata</i> Roth	Combretaceae	Thempavu	Tree
346	<i>Terminalia paniculata</i> Roth	Combretaceae	Maruthu	Tree
347	<i>Themeda triandra</i> Forssk.	Poaceae	Tharuva pul	Herb
348	<i>Theobroma cacao</i> L.	Malvaceae	koko	Tree
349	<i>Thespesia populnea</i> (L.) Sol. ex Correa	Malvaceae	Poovarasu	Tree
350	<i>Thottea siliquosa</i> (Lam.) Ding Hou	Aristolochiaceae	Kuravan kanda mulikai	Shrub
351	<i>Tinospora cordifolia</i> (Willd.) Miers	Menispermaceae	Amirthavalliac kody	Climber
352	<i>Toona ciliata</i> M.Roem.	Meliaceae	Madhagiri vembu	Tree
353	<i>Tragia involucrata</i> L.	Euphorbiaceae	Choriyananku kody	Twiner
354	<i>Trichopus zeylanicus</i> Gaertn.	Dioscoreaceae	Arochia pacha	Herb
355	<i>Trichosanthes cucumerina</i> L.	Cucurbitaceae	Pudalan kai	Climber
356	<i>Trichosanthes lobata</i> Roxb.	Cucurbitaceae	Kattu pudalai	Climber
357	<i>Tridax procumbens</i> (L.) L.	Asteraceae	Muriyam pachalai	Herb
358	<i>Tylophora indica</i> (Burm.f.) Merr.	Apocynaceae	Nancharuthan kody	Twiner
359	<i>Vigna mungo</i> (L.) Hepper	Fabaceae	Payaru	Twiner
360	<i>Vitex agnus-castus</i> L.	Lamiaceae	Neela notchy	Tree
361	<i>Vitex altissima</i> L.f.	Lamiaceae	Maila maram	Tree
362	<i>Vitex leucoxydon</i> L.f.	Lamiaceae	Neer notchy	Shrub
363	<i>Vitex negundo</i> L.	Lamiaceae	Nochi	Tree
364	<i>Wrightia tinctoria</i> R.Br.	Apocynaceae	Veppalai	Tree
365	<i>Zanthoxylum rhetsa</i> DC.	Rutaceae	Kattu murukku	Tree
366	<i>Zingiber officinale</i> Roscoe	Zingiberaceae	Inchi	Herb
367	<i>Zingiber zerumbet</i> (L.) Roscoe ex Sm.	Zingiberaceae	Chanthy	Herb
368	<i>Ziziphus oenopolia</i> (L.) Mill.	Rhamnaceae	Thodaly	Climber

Table 2. Distribution of plant families in the study area

Sr. No	Family Name	Genus	Species	Sr. No	Family Name	Genus	Species
1	Fabaceae	29	37	49	Adiantaceae	1	1
2	Euphorbiaceae	18	24	50	Balsaminaceae	1	1
3	Malvaceae	11	16	51	Basellaceae	1	1
4	Lamiaceae	9	16	52	Bignoniaceae	1	1
5	Asteraceae	14	15	53	Boraginaceae	1	1
6	Apocynaceae	11	13	54	Brassicaceae	1	1
7	Poaceae	11	12	55	Begoniaceae	1	1
8	Solanaceae	5	12	56	Bromeliaceae	1	1
9	Acanthaceae	9	11	57	Campanulaceae	1	1
10	Cucurbitaceae	7	8	58	Cannaceae	1	1
11	Rubiaceae	7	8	59	Caricaceae	1	1
12	Moraceae	4	8	60	Casuarinaceae	1	1
13	Arecaceae	7	7	61	Celastraceae	1	1
14	Dioscoreaceae	2	7	62	Cleomaceae	1	1
15	Rutaceae	5	7	63	Colchicaceae	1	1
16	Zingiberaceae	4	7	64	Commelinaceae	1	1
17	Araceae	6	6	65	Cornaceae	1	1
18	Combretaceae	3	6	66	Costaceae	1	1
19	Convolvulaceae	2	6	67	Crassulaceae	1	1
20	Amaranthaceae	4	5	68	Cycadaceae	1	1
21	Amaryllidaceae	5	5	70	Dennstaedtiaceae	1	1
22	Oleaceae	5	5	71	Dilleniaceae	1	1
23	Myrtaceae	3	5	72	Dipterocarpaceae	1	1
24	Piperaceae	2	5	73	Elaeocarpaceae	1	1
25	Anacardiaceae	4	4	74	Gesneriaceae	1	1
26	Meliaceae	4	4	75	Gnetaceae	1	1
27	Menispermaceae	4	4	76	Hypoxidaceae	1	1
28	Annonaceae	2	4	77	Iridaceae	1	1
29	Aristolochiaceae	2	4	78	Lecythidaceae	1	1
30	Lauraceae	2	4	79	Loganiaceae	1	1
31	Caesalpiniaceae	3	3	80	Marantaceae	1	1
32	Lythraceae	3	3	81	Melastomataceae	1	1
33	Rosaceae	3	3	83	Pedaliaceae	1	1
34	Verbenaceae	3	3	84	Pentaphragmaceae	1	1
35	Apiaceae	2	2	85	Phytolaccaceae	1	1
36	Asparagaceae	2	2	86	Plumbaginaceae	1	1
37	Clusiaceae	3	3	87	Polypodiaceae	1	1
38	Nyctaginaceae	2	2	88	Polygalaceae	1	1
39	Oxalidaceae	2	2	89	Portulacaceae	1	1
41	Passifloraceae	2	2	90	Putranjivaceae	1	1
42	Plantaginaceae	2	2	91	Ranunculaceae	1	1
43	Sapindaceae	2	2	92	Rhamnaceae	1	1
44	Sapotaceae	2	2	93	Salicaceae	1	1
45	Vitaceae	2	2	94	Salvadoraceae	1	1
46	Magnoliaceae	1	2	95	Santalaceae	1	1
47	Moringaceae	1	2	96	Sterculiaceae	1	1
48	Smilacaceae	1	2	97	Theaceae	1	1
				98	Thelypteridaceae	1	1

CONCLUSION

Homegardening is a stable and highly sustainable system among the tribals of Kanyakumari wildlife sancturay. Homegarden has been shown to be a source of additional income because the household can sell a portion of the garden's produce, also important in overcoming seasonal availability of foods and promoting household self-sufficiency. The results inferred that homegardens are rich in agrobiodiversity and are interesting for ethnobotanical research, and need to be considered for in situ conservation and development programmes.

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