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# **Research Article**

# UTILIZATION OF WILD EDIBLE PLANTS BY PALIYAR'S TRIBE OF SADHURAGIRI HILLS, TAMIL NADU, INDIA

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#### **ABSTRACT**

An survey was carried out among the Paliyar tribals in Sadhuragiri hills in Western Ghats. The purpose of the study was to document the traditional wild edible plants used by Paliyar tribals. Tribals mostly eat fresh fruits and vegetables of leafy varieties, which grow in wild and depend on such natural products in addition to their food. The study identifies 110 wild edible plant species under 80 genera and 47 families. Edible fruits are 66 species in identified, leaves eaten raw, cooked vegetables and curries. Tubers of certain species are eaten curries. These wild edible plants are free from artificial chemicals and enriched with high nutrition.

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# INTRODUCTION

India is one of the second largest human populations in this planet 75% of the population is living in the rural areas. Most rural communities depend on the wild resources including wild edible plants to meet their food needs in periods of food crises, as well as for additional food supplements [1]. The diversity in wild plant species offers variety in family diet and contributes to household food security. Today, most human plant food is based on rather limited number of crops, but it is clear that in many parts of the world the use of wild plants is not negligible [2 and 3].

Wild plants have since ancient times, played a very important role in human life; they have been used for food, medicines, fiber and other purposes and also as fodder for domestic animals. In search for wild edible food plants many of which are potentially valuable for human being has been identified to maintain a balance between population growth and agricultural productivity, particularly in the developing countries [4 and 5]. There are at least 3000 edible plant species known to mankind, but just about 30 crops alone contribute to more than 90% of the world's calorie intake and only 120 crops are economically important at the national scale. This shows that several hundreds of species remain discarded or unnoticed at the hands

of various human societies. Among the edible plant diversity, many are nutritionally or otherwise important [6].

The scientific research conducted inside the forests reported, forest as a natural habitat of the wild edible plants such as cereals, fruits, tubers and vegetables. Wild edible plants play a very important role in the livelihoods of rural communities as being an integral part of the subsistence strategy of people in many developing countries. Locally available wild genetic resources can be used for new crop species development. In many parts of the world, wild plants are obtained from forests or wild areas are designated for extractive resources and managed by local communities. Food plants serves as alternatives to staple food during periods of food deficit and are the valuable supplements for a nutritional balanced diet one of the primary alternative source of income for many resource poor communities, and the source of species for domestication [7].

Wild edible plants are major source of food for tribal inhabitants in forests. Edible parts of wild plants such as fruits, flowers, leaves, tubers, inflorescence, roots, tubers, rhizome, *etc*. The nature's gift to mankind; these are not only delicious and refreshing but also the chief source of vitamins, minerals and proteins [8]. About 1,000 species of these plants provide sustenance to tribal inhabitants in India [9, 10 and 11].

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Similarly a number of such little known crops and edible species found in the wild are not getting recognition, though they play a crucial role in the food security of tribal and rural families. For instance, various wild species of *Dioscorea*, *Colocasia* and *Amaranthus* which are the source of vitamins and nutrients, supplement the food needs of a multitude of families who live near to forests [12].

These are also a good source of income for many poor communities in rural areas. A scientific investigation of wild edible vegetables is urgently needed to assess the potentiality which would be utilized at the time of food deficit or cultivated as a source of food material for an ever increasing population. Recent phytochemical investigations in fruits have attracted a great deal of attention, with mainly concentrations on their role in preventing diseases caused as a result of malnutrition. Though there are many wild fruits in this region, there is no proper collection, improvement and agro-techniques for these crops. Hence much emphasis should be given to exploration and collection, in situ or ex situ conservation, studying nutritional and anti-nutritional properties, product development and marketing [13].

Modern scientific researchers are also trying to value these traditional food items to fill the gaps between growing population and food production. These natural products are coming from wild sources and their herbal properties unknowingly flow in diverse ethnic preparations. Such preparation must be variable with the local availability plant resources, forest types, and geographical area and more specifically by different culture and tradition of ethnic groups [14, 15 and 16].

# **MATERIALS AND METHODS**

# Study area

Sadhuragiri hills are situated in Southern Western Ghats comes under Srivilliputhur Grizzled Squirrel Wildlife Sanctuary Srivilliputhur Taluk, Virudhunagar district of Tamil Nadu. Sadhuragiri is located at 1200 meters (3,937.0 ft) mountain in the part of Western Ghats of South India. It lies between 9°. 42′ - 9°.44″ West latitude and between 77°.37 - 77°. - 41″ East longitude and it has an elevation of 881 meters above sea level. Sadhuragiri is in an area with a Tropical evergreen forest, Semi evergreen forest and Mixed deciduous forest climate. Only Hindu Paliyar tribes residing in this area (Fig: 1a).

#### Methods

Several field trips were carried out in Sadhuragiri hills from July 2015 to September – 2016, Covering different seasons, in order to know the phenology of the plants and Intensive and extensive field survey was made in Sadhuragiri hills and villages in Virudhunagar district. The data were collected through repeated field visits and the careful interaction with the village people and Paliyar tribes. The collected specimens were identified taxonomically with the help of available Monographs, taxonomic revisions and floras and by using field keys [17, 18, 19 and 20]. The data including edible uses were collected through general conversations with the informants such as elder persons, village dwellers and tribal medicine men were contacted to collect data on uses of plants. Local names, plant parts used, method of utilization were gathered from them with regard to each plant. The information gathered from one

place was confirmed by different communities of village people, Paliyar tribals in different places of investigation. The collected plants specimen was deposited in the Department of Botany, National College (Autonomous), Tiruchirappalli, Tamil Nadu for future reference.

### Paliyar Tribals

The indigenous people of the study area are called Paliyar/Paliyan. They are found in the hilly regions of Madurai, Dindigul, Theni, Thirunelveli, and Virudhunagar districts. It is belived that Paliyar's are indigenous people of Palani hills (Situated near to Kodaikanal a famous tourist place). In the Palani hills they are found at an altitude of up to 2200m. Generally Paliyar's are illiterate and they speak Tamil (Mother tongue of Tamil Nadu). Paliyar's when compared to various tribal communities in Tamil Nadu constitute redelivery a small group.

Paliyar's can be grouped in to three categories based on their life styles, namely, Nomadic, Seminomadic and Settled Nomadic Paliyar don't built houses, they live temporarily in rock caves called "Pudai" semi nomadic Paliyar build temporary house and confine themselves to small territories most of their huts are dark with no window or any other opening to admit air. Setiled Paliyar are more less urbanized and live as agricultural laborers. Importance of traditional and folk medicine in the treatment of various human ailments is well recognized amongst these people (Fig. 1b) [21].



Fig 1a View of the study region



Fig 1b Author Interview with Paliyar's Tribes

### **RESULTS AND DISCUSSIONS**

Wild plants gathering and exploitation is a common activity of the indigenous people in Paliyar tribes possesses a very good knowledge on the wild edible plants around the Sadhuragiri hills.

Table 1 Wild Edible Plants utilized by the Paliyar's tribes in Sadhuragiri hills

S.No	Botanical Name	Family	Local Name	Habitat	Part used	Method of Consumption
1.	Aegle marmelos (L.) Corr.	Rutaceae	Vilvam	Tree	Fruits& Leaves	Edible fruits and leaves
2.	Alangium salvifolium L.	Alangiaceae	Alangi	Shrub	Fruits	raw eating. Edible fruits
3.	Allmania nudiflora (L.)	Amaranthaceae	Kumati	Herb	Leaves	Cooked vegetables
4.	R.Br.ex.Wight.  Alternanthera pungens H.B.K.	Amaranthaceae	Keerai Ottumul	Herb	Leaves	Cooked as vegetable
5.	Alternanthera sessilis (L.) R. Br. ex	Amaranthaceae	Ponnakanni	Herb	Leaves	Cooked as vegetable
6.	DC.		Sirukeerai			C
7.	Amaranthus graecizans L. Amaranthus spinosus L.	Amaranthaceae Amaranthaceae	Sırukeerai Mullukeerai	Herb Herb	Leaves Leaves	Cooked as vegetable Cooked as vegetable
8.	Amaranthus tricolor L.	Amaranthaceae	Keeracheadi	Shrub	Leaves & Stems	In curries
9. 10.	Amaranthus viridis L. Anacardium occidentale L.	Amaranthaceae Anacardiaceae	Pattikerae Mundhiri	Herb Tree	Leaves Fruits &Seeds	Cooked as vegetable Edible fruits and nuts
11.	Annona reticulata L.	Annonaceae	Kattuseetha	Tree	Fruits	Edible fruits
12.	Artcocarpus heterophyllus Lam.	Moraceae	Pala	Tree	Fruits	Edible fruits
13.	Artocarpus hirsutus Lam.	Moraceae	Aiyinipila	Tree	Fruits	Edible fruits
14.	Asparagus racemosus Willd.	Liliaceae	Thannirvittankizhangu	Shrub	Tuber	Raw and Boiled eating
15.	Atalantia monophylla (L.) Corrêa	Rutaceae	Kaattu Elumichai	Tree	Fruits	tuber. Juice and tea
16.	Atylosia scarabaeoides (L.) Benth.	Fabaceae	Kattuthuvarai	Climber	Seeds	Edible seeds
17.	Boerhavia diffusa L	Nyctaginaceae	Mukkurattai	Herb	Leaves	Cooked as vegetable
18.	Boerhavia erecta L.	Nyctaginaceae	Serandai	Herb	Leaves	Cooked as vegetable Edible flower and seeds
19.	Bombax ceiba L.	Bombacaceae	Ilavuvam	Tree	Flowers & Seeds	roasted
20.	Borassus flabellifer L.	Arecaceae	Panaimaram	Tree	Fruits & Seeds	edible fruits and seeds Cooked and edible oil
21.	Brassica juncea (L.) Czern.	Brasscicaceae	Kadugu	Herb	Seeds	yielding
22.	Canavalia gladiate (Jacq.) DC.	Fabaceae	Thambatti	Climber	Fruits	Cooked vegetables
23.	Canthium coromandelicum (Burm.f.) Alston	Rubiaceae	Bellakarai	Shrub	Fruits	Edible fruits
24.	Capparis zeylanica L.	Capparaceae	Thorattimullu	Shrub	Fruits	Edible fruits
25.	Capsicum annum L. Caralluma bicolor Ramach, S.	Solanaceae Asclepiadaceae	Kattumellakai	Herb	Fruits	Cooked vegetables Edible in raw shoot and
26.	Joseph, H. A. John & C. Sofiya	Asciepiadaceae	Kalmullaiyan	Herb	Shoots	cooked curries
27.	Cardiospermum halicacabum L.	Sapindaceae	Mudakathan	Climber	Leaves	Cooked as vegetable
28. 29.	Carissa carandas L. Carissa spinarum L.	Apocynaceae Apocynaceae	Kallakai Sirukallakai	Tree Shrub	Fruits Fruits	Edible fruits Edible fruits
30.	Celosia argentea L.	Amaranthaceae	Pannaekeera	Herb	Leaves	Cooked vegetables
31.	Cereus pterogonus Lem.	Cactaceae	Sathurakalli	Tree	Flowers	Raw eaten flower and
	. 0					cooking Young shoots raw eat and
32.	Cissus quadrangularis L.	Vitaceae	Pirandai	Climber	Shoots	cooked curries
33.	Coccinia grandis (L.) Voigt	Cucurbitaceae	Kovakai	Climber	Leaves& Fruits	Edible fruits and leaves cooked
34.	Colacasia esculenta (L.)Schott	Araceae	Semakeerai	Herb	Leaves	Cooked vegetables
35.	Commelina diffusa Burm.f.	Commelinaceae	Kayyankena	Herb	Leaves	Leafy vegetable
	Commelina benghalensis L. (V.		keerai Theankai			
36.	Kena, Kolar). Fam.	Commelinaceae	poondu	Herb	Leaves	Cooked vegetables
37.	Cordia sinensis Lam. Leaf & Fruit	Boraginaceae	Naruvihli Mullampanri	Shrub	Fruits	Edible fruits
38.	Cucumis dipsaceus Enherb.	Cucurbitaceae	vellari	Climber	Fruits	Edible fruits
39.	Curcuma angustifolia	Zingiberaceae	Kasturimanzal	Shrub	Rhizome	Young shoot edible and
40.	Roxb.  Decalepis hamiltonii Wight &Arn.	Asclepiadaceae	Magalia	Climber	Tuber	rhizome cocking purpose. Cooked eat tuber
41.	Digera muricata (L.) Mart.	Amaranthaceae	Theyyakeera	Herb	Leaves	Cooked vegetables
42.	Dioscorea oppositifolia L.	Dioscoreaceae	Pearuvalli	Climber	Tuber	Edible in boiled tuber
43.	Dioscorea tomentosa Koen. exspreng.	Dioscoreaceae	Kattathi	Climber	Tuber	Edible in boiled tuber
44.	Diospyros malabarica (Desr.)	Ebenaceae	Thumbai	Tree	Fruits	Edible fruits
45.	Kostel.  Diospyros montana Roxb.	Ebenaceae	Bankini	Tree	Leaves	leaf Curries
46.	Drypetes sepiaria (Wight &Arn.)	Euphorbiaceae	Thanuvam	Shrub	Fruits	Edible fruits
	Pax&K.Hoffm.	•				
47. 48.	Elaeagnus conferta Roxb. Erythroxylum monogynum Roxb.	Elaeagnaceae Erythroxylaceae	Kolaga Sembulichaan	Tree Shrub	Fruits Fruits	Edible fruits Edible fruits
49.	Ficus benghalensis L.	Moraceae	Aalm	Tree	Fruits	Edible fruits
50.	Ficus microcarpa L.f.	Moraceae	Kalthhi	Tree	Fruits	Edible fruits

51	Ficus racemosa L.	Moraceae	Arasu	Tree	Fruits	Edible fruits
52	Flueggea leucophyrus Willd.	Euphorbiaceae	Sollapalam	Shrub	Fruits	Edible fruits
53 54	Grewia hirsuta Vahl Grewia obtusa Wall. ex Dunn.	Tiliaceae Tiliaceae	Kallaipalam	Shrub Shrub	Fruits Fruits	Edible fruits
55	Grewia obiusa wan. ex Dunn. Grewia tiliifolia Vahl	Tiliaceae	Sollapalam Lumma	Shrub	Fruits	Edible fruits Edible fruits
56	Grewia villosa Willd.	Tiliaceae	Jenukallai	Shrub	Fruits	Edible fruits
57	Hemidesmus indicus (L.) R.Br. ex	Asclepiadaceae	Nannari	Climber	Tuber	Make a cooling juice
58	Schult. <i>Hibiscus lunarifolius</i> Willd.	Malvaceae	Kattuveandai	Shrub	Fruits	Cooked vegetables
59	Hybanthus enneaspermus L.f.)	Violaceae	Orithal			_
39	F.v.Muell	Violaceae	thamarai	Herb	Leaves	Cooked curries
60	Ipomoea staphylina Roem. &Schult.	Convolvulaceae	Unnagodi	Climber	Tuber	Cooked tuber
61	Jasminum auriculatum Vahl	Oleaceae	Kattumullai	Climber	Leaves	Cooked vegetables
62	Jasminum trichotomum B.Heyne ex Roth	Oleaceae	Malligai	Climber	Leaves	Cooked vegetables
63	Lantana camara L.	Verbenaceae	Unnichedi	Climber	Fruits	Edible fruits
64	Madhuca longifolia (J.König ex L.) J.F.Macbr.	Sapotaceae	Iluppae	Tree	Fruits	Edible fruits
65	Mangifera indica L.	Anacardiaceae	Manga	Tree	Fruits	Edible fruits
66	Miliusa tomentosa	Annonaceae	-	Tree	Fruits	Edible fruits
67	(Roxb.) Sinclair <i>Mimusops elengi</i> L.	Sapotaceae	Magizhamaram	Tree	Fruits	Edible fruits
68	Moringa concanensis Nimmo ex	Moringaeceae	Kattumurungai	Tree	Leaves&Fruits	Cooked leaf vegetables and
69	Dalz. & Gibson  Mucuna atropurpurea Dc.	Fabaceae	Thelluku	Climber	Seeds	fruit curries Roasted seeds
70	Mukia maderaspatana (L.)	Cucurbitaceae	Musumosaki	Climber	Fruits	Edible fruits
	M.Roemer.					
71 72	Murraya koenigii (L.) Spreng. Neonotonia wightii (W.A.) Lackey	Rutaceae Fabaceae	Kariveppilai Kattuthuvarai	Tree Climber	Leaves Seeds	Cooked curries Cooked foods
73	Opuntia monacantha (Willd.) Haw.	Cactaceae	Kattatnavarat Kalli	Shrub	Fruits	Edible fruits
74	Opuntia stricta (Haw.) Haw.	Cactaceae	Chappathikalli	Shrub	Fruits	Edible fruits
75	Oxalis corniculata L.	Oxalidaceae	Pulichera	Herb	Leaves	Cooked vegetables
76	Pachygone ovata (Poir.) Diels	Menispermaceae	Varinkodi	Climber	Fruits	Edible fruits
77	Passiflora edulis Sims.	Passifloraceae	Passion fruit	Climber	Fruits	Edible fruits
78	Passiflora foetida L.	Passifloraceae	Kurangupalam	Climber	Fruits	Edible fruits
79	Pavetta indica L.	Rubiaceae	Pavattai	Shrub	Fruits	Edible fruits
80	Phoenix loureiroi Kunth	Arecaceae	Eecham	Tree	Shoots& Fruits	Edible fruits and young
				Trac	Eruita	shoot boiled eating.
81	Phyllanthus emblica L	Euphorbiaceae	Nellie	Tree	Fruits	Edible fruits
81 82	Phyllanthus emblica L Phyllanthus indofischeri Bennet	Euphorbiaceae Euphorbiaceae	Nellie Nellie	Tree	Fruits	Edible fruits Edible fruits
81 82 83	Phyllanthus emblica L Phyllanthus indofischeri Bennet Phyllanthus reticulates Poir.	Euphorbiaceae Euphorbiaceae Euphorbiaceae	Nellie Nellie Poola	Tree Tree	Fruits Fruits	Edible fruits Edible fruits Edible fruits
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A total of 110 plant species from, 47 families and 80 genera have been recorded as wild edible plants in the study region (Table - 1), of which fruits recorded ranked first with 66 species, Green Leaves, Seeds, Tuber, Flowers and Shoots, rhizomesand shoots ranked next with 31 species, 8 species, 6 species, 3 species, 2 species, 1 species respectively (Fig: 2).

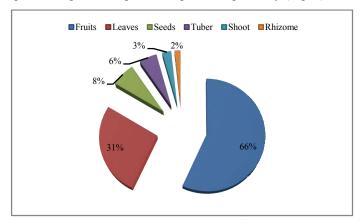
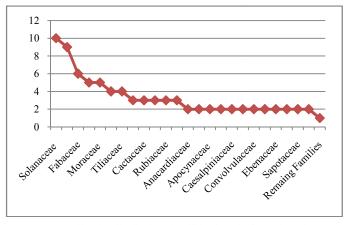


Fig 2 Parts wise edible plants distributed in the study region

Among the 47 families, the most utilized species belong to Solanaceae (10 species), Amaranthaceae (9 species), Fabaceae (6 species), Euphorbiaceae (5 species), Moraceae (5 species), Rhamnaceae (4 species), Tiliaceae (4 species), Asclepiadaceae (3 species), Cactaceae (3 species), Cucurbitaceae (3 species), Rubiaceae (3 species), Rutaceae (3 species), Anacardiaceae (2 species), Annonaceae (2 species), Apocynaceae (2 species), Arecaceae (2 Caesalpiniaceae (2 species), species), Commelinaceae (2 species), Convolvulaceae (2 species), Dioscoreaceae (2 species), Ebenaceae (2 species), Myrtaceae (2 species), Nyctaginaceae (2 species), Oleaceae (2 species), Passifloraceae (2species), Portulacaceae (2 Sapindaceae (2 species), Sapotaceae (2 species), Zingiberaceae (2species) and the remaining families were represented by one species each (Fig: 3),



 $Fig\ 3$  Family wise distributions in edible plants in the study region

The composition of edible plants under different categories of life forms indicates thatout of 110 species; trees (32 species), are predominant, followed by herbs (28 species)shrubs (27 species) and climber (22) (Fig:4).

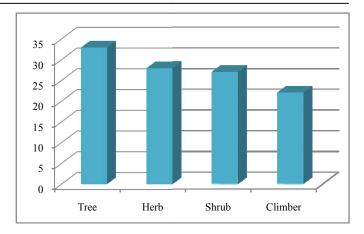


Fig 4 Habit wise distributed in the study region

From the survey, it was observed that the Paliyar inhabitants use the wild edible plants inraw or cooked form for maintaining their health, vitality and longevity. The different plant partsare consumed as a source of supplement of edible foods, As far as the edibility is concerned, the most frequently utilized plant part species are fresh fruits (66%), followed by leaves cooked vegetables (31%), foods (13%), curries (10%), raw eaten (8%), seeds roasted (6%), juice& herbal tea(2%) and edible oil (1%), according to their requirements and availability in nature (Fig: 5). Further, on theoccasions of festivals, worships, weddings and other religious rituals special dishes and special wild tuber food and vegetable curry, cooling juice & herbal tea are traditionally prepared from the local plants based resources.

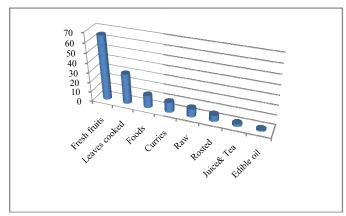


Fig 5 Mode of utilization by tribe's

Paliyar tribes of using 22 plant wild edible species as leafy vegetables [22]. These plants form an integral form of their food styles and this data is very helpful for the further studies in dietary diversification for augmenting food and nutrition security for ever increasing population of our country. It would also be necessary to undertake comparative study of plants and plant parts eaten by various tribals to bring out more useful information on the use of same plant by different tribal people [23].

Wild edible plants were gathered in the form of fruits, leaves, roots, tubers, flowers etc. These plants still share a good proportion of tribal dishes all over world [24, 25, 26 and 27]. Traditionally wild edible species have been meeting the protein, carbohydrates, fat, vitamin and mineral requirements of the local residents to a greater extent [28]. Fruits are mostly consumed raw and leafy vegetables are cooked, boiled or, fried,

species continue to be grown, managed, or collected, particularly in the rural areas of developing economies. Thus, these less-recognized plants contribute to the livelihood soft poor and to the agricultural biodiversity [6].

The food habits of the tribals are generally developed according to the availability of food and their nutritional value and hence the food supply is traditionally based on their own collection of food materials. Starvation among them due to seasonal scarcity of food is a regular phenomenon. Tribal's knowledge in Western Ghats use wild plants in their daily life. They identify these plants quickly by some character and the name to the plants based on these characters. The review of the literature indicates that the tribals have a sound knowledge on the edible plants in the vincity [29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45 and 46].

# **CONCLUSION**

Most of the wild edible plants may not be freely available in future due to overexploitation, habitat destruction, land-slides and invasion of exotic plant species. Therefore, efforts are being done to bring some of these valuable plant resources under cultivation in order to maintain their natural population and gene pool in the wild. These measures will definitely contribute in continuous supply of wild edibles to the local people and other forest based communities and also helps in their conservation. A drastic change in food styles and a decline in traditional knowledge among the local communities have been observed. Therefore, great efforts are required to document traditional knowledge among the local people so that these traditional knowledge can be preserved for the benefit of mankind in a holistic manner which will ultimately open new vistas in future.

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