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WILD EDIBLE FRUITS OF SITHIMANI HILL, BAGALKOT DISTRICT OF KARNATAKA, INDIA

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Abstract

An ethno botanical study of wild edible fruit species survey of Sithimani hill near Bagalkot district of Karnataka conducted during March 2018 to June 2022. The purpose of this survey was to document the wild edible fruit species. There are about 40 species of angiosperms belonging to 33 genera and 21 families of wild edible fruit plant species were documented.

Keywords: Wild edible fruits, Sithimani hill, Bagalkot, Karnataka

INTRODUCTION

Information of wild edible fruit plant species is declining drastically day by day. The wild edible fruit play an important role in traditional lifestyles, nutrition and medicine to local people. The main aim of this study is to find out the wild edible fruits of Sithimani hill as it is rich in forest wealth and also no studies on this aspect have been recorded. If information is not collected it may be lost in near future. In Ramayana Seeta matha spent time in this hill i.e. Seethimani hill, Lava and Kusha ponds which are believed to never dry up and always have water in them. Old lady Shabari fed wild edible sweet Zizyphus fruit to Rama near to this hill. Zizyphus is xerophytic and most dominant plant in this region. The present study was initiated with an aim to identify wild fruit species in Sithimani hill near Alamatti, Bagalkote district of Karnataka

MATERIAL AND METHODS

Ethnobotanical Data collection

Ethno wild fruits plant species survey conducted on March 2018 to June 2022. For this, frequent field trips were conducted. Data and information recorded in the standard questionnaire. Prior Informed Consent (PIC).

Vocher specimen collection and identification

Collected data and information include, scientific name, family, vernacular name, time of availability, edible part, habit and mode of consumption. Ethno wild edible plant species were photographed in the field. Plant specimens were identified consulting with experts, by referring Flora of Gulbarga District (11), three volumes of the Flora of Presidency of Madras(5). The voucher specimens were stored at the herbarium centre, Department of post graduate studies and Research in Botany, Karnataka State Akkamahadevi Women's university, Vijayapur.

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Study Area





Fig.1: Map and temple of the Sithimani hill

RESULT AND DISCUSSION

In the present account, there are about 40 species of angiosperms belonging to 33 genera and 21 families of wild edible fruit species were reported. Among the wild edible fruit species habit wise the herbs are (27.3%), climbers are (20%), shrubs are (17.5%) and trees are (35%). The predominant family Fabaceae with 6 species, Cucurbitaceae and Ramnaceae with 5 species, Solanaceae with 3 species, Malvaceae, Chenopodiaceae and Rutaceae with 2 species and remaining have the one species. Data obtained from the survey is compiled in Table 1. All plant species scientific name, family, vernacular name, time of availability, habit and mode of consumption are provided. Most dominant wild fruit of this area is Zizyphus, 26 wild edible plants documented by Hakki Pikki Tribes of Angadihalli, Hassan District⁽³⁾, 66 Wild edible plants and ayurvedic formulation documented in Hassan District, Karnataka⁽⁴⁾,7 wild edible plants nutritional analysis has done⁽⁵⁾. Selected 24 wild edible vegetables documented by Hyderabad-Karnataka region of Karnataka (8), 105 Wild edible plants documented in old Mysore district(8). 93 wild edible plants documented among two communities in Malia Madashwar⁽⁹⁾.64 Wild edible plants documented by kokni tribe of nasik district. 24 Ethno botanical survey of commercial wild edible plants survey has done in Bidar⁽¹²⁾ 70 Wild edible plant species in Alamatti Hill range area has studied ⁽¹⁾ but still no research has reported in Sithimani hill.

Table 1: Wild edible fruit plant species of Seethimani hill, Bagalkot dist. Karnataka

	1 word 2					
S.No	Scientific name	Family	Local/ Vern	Time of	Habit	Mode of consumption
			name	availability		
1.	Abelmoschus ficulneus	Malvaceae	Kadu bende	September to	Herb	Fruit eaten as raw or used as
	(L,)Wt.			December		curry
2.	Atylosia scarabaeoides	Fabaceae	Kaadu thogari	September to	Herb	Seeds eaten raw
	(L)			January		
3.	Basella alba L.	Chenopodiaceae	Bili Basale	Throughout	Climber	Ripened fruits are eaten
				the year		
4.	Basella rubra	Chenopodiaceae	Kari basale	Throughout	Climber	Ripened fruits are eaten
				the year		
5.	Capparis decidua	Capparadaceae	Nematyan kanthi	October to	Shrub	Fruits used in preparation of
	(Forsk.)Edgew			January		pickles



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6.	Capsicum annuum L	Solanaceae	Lavanga menasinakaayi	August to September	Herb	Fruits used to prepare chilli powder
7.	Carissa carandas	Apocynaceae	Kavali kaayi	August to	Shrub	Raw fruits are eaten with salt.
8.	Coccinia grandis	Cucurbitaceae	Thondekaayi	September to	Climber	Ripen fruits also eaten Fruit used to prepare curry
9.	(Rottler) Cucumis callosus.	Cucurbitaceae	Udda	December September to	Climber	Fruit used to prepare curry and
9.	Rottler		Mekkekaayi	December		pickle
10.	Cucumis melo	Cucurbitaceae	Gunda Mekkekaayi	September to December	Climber	Fruit used to prepare curry and pickled
11.	Feronia elephantum Lam.	Rutaceae	Balloolkaayi	November to March	Tree	Fruit pulp mixed with Jaggary and eaten
12.	Ficus glomerota Roxb	Moraceae	atthikaayi	January	Tree	Fruit is edible
13.	Grewia tenax	Malvaceae	Kavali kaayi	May to September	Shrub	Unripe fruit is sour in taste, ripe fruit is sweet delicious. Fruit contains alkaloid
14.	Lantana camera	Verbenaceae	Chaduranga	Throughout	Shrub	Fruits are edible
45	M'	Constant	D-11-	the year	Classila	P
15. 16.	Mimosops elangi Momordica cymbalaria	Sapotaceae Cucurbitaceae	Bakula Karchikaayi	May to August October to	Shrub Climber	Fruits are edible Fruit fried and used as curry
10.	Fenzl.ex	Jucui Ditaceae	ixai ciiixaayi	January	GIIIIDEI	Trute frica and used as curry
17.	Moringa oleifera	Moringaceae	Nugge kaayi	January to April	Tree	Fruit used to prepare curry
18.	Mukia maderaspatana(L.)	Cucurbitaceae	Gubbe savathe	June to September	Climber	Raw fruits are edible
19.	Opuntia dillenii(Ker- Gawler)Haw	Cactaceae	Rotagalli	February to April	Shrub	Fruits are edible
	Passiflora edulis	Passifloraceae	Rasna fruit	February to April	Climber	Passion fruit is used to make fruit juice and is commonly eaten as a whole fruit.
20.	Phoenix sylvestris(L.)Roxb	Araceae	Ichchal gida	Throughout the year	Tree	Fruits are edible and stem latex is used to drink
21.	Pedalium murex	Pedaliaceae	Kaadu ellu	June to October	Herb	Seeds are edible
22.	Pithaclobium delces	Mimosaceae	Ilachi kaayi	November to January	Tree	Fruits are edible
23.	Phaseolus trilobus auct	Fabaceae	Kadu hesaru	June to November	Herb	Raw seeds are edible
24.	Phyllanthus acidus (L.)Skeels	Euphorbiaceae	Nelli kaayi	June to November	Herb	Fruits are edible
25.	Rhynchosia minima(L.)Dt	Fabaceae	Kadu huruli	September to December	Herb	Seeds are eaten raw or cooked used like curry
26.	Salvodora persica L.,Sp	Salvodoraceae	Devvinagida/ Miswak	June to October	Tree	Fruits are edible
27.	Sesamum prostratum Retz	Pedallaceae	Kadu ellu	September December	Shrub	Seeds are edible
28.	Solanum nigrum L.	Solanaceae	Kachi kaayi	September January	Herb	Fruit cooked and used as a curry
29.	Solanum torvum Burm	Solanaceae	Kaadu Badane	September to December	Herb	Fruit used to prepare as a curry
30.	Syzygium cumini	Myrtaceae	Nerale hannu	June to September	Tree	Fruit is edible
31.	Tamarindus indica	Fabaceae	Hunase gida	December to March	Tree	1.Younger leaves and flowers used as raw 2.Seeds are fried and eaten 3.Pulp eaten raw or used in curry
32.	Teramnus labialis	Fabaceae	Kaadu uddu	August to November	Herb	Seeds eaten raw
33.	Terminalia catapa	Combretaceae	Kadu Badami	May to September	Tree	Fruit are edible
34.	Vinga frutescens	Fabaceae	Kadu hesaru	September to	Herb	Seeds used as raw
					· · · · · · · · · · · · · · · · · · ·	

				December		
35.	Zizyphus rugosa Lam	Ramnaceae	Barekaayi	November to	Tree	Fruits are edible
				January		
36.	Zizyphus . xylopyrus	Ramnaceae	Barekaayi	November to	Tree	Fruits are edible
	Will			January		
37.	Zizyphus jujuba	Ramnaceae	Barekaayi	November to	Tree	Fruits are edible
				January		
38.	Zizyphus nummularia	Ramnaceae	Barekaayi	November to	Tree	Fruits are edible
	W&A			January		
39.	Zizyphus oenoplia Mill	Ramnaceae	Barekaayi	November to	Tree	Fruits are edible
				January		

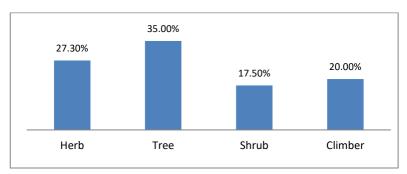


Fig-2 Wild edible fruit species Habitwise

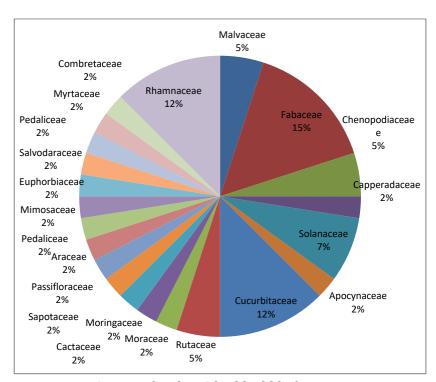


Fig 3.Major families Of wild edible fruit species

Fig 2.Wild Edible Fruit species of Seethimani Hill, Alamatti, Bagalkote, Karnataka, India





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CONCLUSIONS

Ethno wild edible fruit plants species survey conducted on March 2018 to November 2020 in Alamatti hill range area, Vijayapur district. The main purpose of this survey was to document the wild edible plant species. There are about 40 species of angiosperms belonging to 33 genera and 21 families were reported found to be used. Scientific name, family, vernacular name, time of availability, habit and mode of consumption are provided. The study suggests that the present information on wild edible fruit species of Seethimani, near Alamatti hill range area of Bagalkote district may be used for phytochemical and pharmacological research in future for the development of new sources.

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