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## Status of fodder resources in Satpura hills of Maharashtra, India

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#### Abstract

Satpura hills runs East-West side of the Nandurbar District. Nandurbar is a tribal district in the state of Maharashtra. More than 65% of the total population is tribal. Most of them inhabiting in the hilly areas of Satpura ranges. Apart from agriculture and forest resources, the tribals and rural people rare animals. The present communication deals with the information on fodder resources of plant species belonging to 31 angiospermic families.

**Keywords:** Ethnobotanical, fodder resources, tribals, Satpura hills, Nandurbar district

#### 1. Introduction

Nandurbar is the newly constituted district in the state of Maharashtra. It lies between 73<sup>0</sup>47' and 74<sup>0</sup>47' East longitude and 21<sup>0</sup>0' and 22<sup>0</sup>3' North latitude; Satpura hill ranges falls in the district from East to West. As much as 65% of the population of the district is tribal. The prominent tribes inhabiting these tropical dry deciduous forests are Bhil, Pawara, Konkani, Mawchi, Dhanka, Tadvi, etc. Apart from agriculture, rearing of animals is the main occupation in the district. Such domestic animals are fed upon the conventional plants. The present communication is an attempt to gather the information on such fodder resources from the area.

D'Souza M. (1992) <sup>[1]</sup>, Bhaskar, (1999) <sup>[2]</sup> and Patil and Bhaskar (2006) <sup>[3, 4]</sup> earlier documented ethno medicinally important plants of the area.

#### 2. Materials and methods

During the botanical excursions in various parts of the Satpura hills of Nandurbar district in the last more than decade. The information on the fodder plants was gathered from the tribals and rural people of the district. Observations were made in forest and near habitations and rural areas. The plants are collected, identified and pressed and documented as per the existing guidelines <sup>[5-7]</sup>.

#### 2.1 Systematic enumeration

The plant species used as fodder have been arranged alphabetically with their family name in parenthesis local name, status, parts used, animals fed in the Table – 1.

#### 3. Discussion

Rearing of the cattle except buffelos is the main occupation of the people in the Satpura hills. Hence the fodder is the main requirement through out the year for them. The scientific studies on ethnobotany explains that, 66 species belonging to 59 genera and 31 families of angiosperms were found in use as fodder for different domestic animals. mimosaceae is the largest family among dicotyledons with 8 taxa while, family papilionaceae was represented by 7 taxa. Among the total 66 species 21 species were trees, 24 were herbs followed by 10 species of shrubs and 11 climbers / lianas. It was observed that 7 taxa were found under cultivation/plantation. The fodder resources especially in summer are very less. So they use tree species during this period in this regards author recommends some species like *Butea monosperma*, *Acacia*, *Bauhinia*, *Cassia*, *Terminalia*, *Grewia*, *Hadwickia binata*, etc., should be planted to in this region to overcome this situation.

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**Table 1:** List of fodder resources from Satpura hills of Nandurbar district, Maharashtra, India

Sr. No.	Botanical name, (Family) Local name	Habit	Status	Part used	Animals fed
1.	<i>Acacia nilotica</i> (L.) Del. ssp. <i>indica</i> (Benth.) Brenan. (Mimosaceae), Babul	Trees	Wild	Leaves, Green pods	Goats
2.	<i>Acacia leucophloea</i> (Roxb.) Willd. (Mimosaceae) Hiwar	Trees	Wild	Leaves, Pods	Cattle, Goats
3.	<i>Acalypha malabarica</i> Muell. Arg. (Euphorbiaceae)	Herbs	Wild	Entire plant	Cows, Buffaloes
4	<i>Aeschynomene indica</i> L. (Papilionaceae)	Shrubs	Wild	Entire plant	Cows, Buffaloes
5	<i>Albizia lebbeck</i> (L.) Willd. (Mimosaceae) Shirish	Trees	Planted	Leaves	Cattle
6	<i>Albizia procera</i> Benth. (Mimosaceae) Patadi	Trees	Planted	Leaves	Cattle
7	<i>Alternanthera sessilis</i> (L.) R.Br. ex DC. (Amaranthaceae), Kanchari	Herbs	Wild	Entire plant	Cattle
8	<i>Alysicarpus rugosus</i> (Willd.) DC. (Papilionaceae)	Shrubs	Wild	Entire plant	Cattle
9	<i>Amaranthus viridis</i> L. (Amaranthaceae), Matla	Herbs	Wild	Entire plant	Cattle
10	<i>Aspidopterys cordata</i> (Heyne ex Wall.) A. Juss. (Malpighiaceae), Gathya	Climber	Wild	Entire plant	Cattle
11	<i>Asparagus racemosus</i> Willd. (Liliaceae), Shatavari	Climbers	Wild	Root tubers	Cattle
12	<i>Bambusa arundinacea</i> (Retz.) Willd. (Poaceae), Bamboo	Herbs	Wild	Leaves	Goats
13	<i>Bauhinia racemosa</i> Lamk. (Caesalpiniaceae), Apte	Trees	Wild	Leaves	Goats
14	<i>Careya arborea</i> Roxb. (Lecythidaceae), Kumbhai	Trees	Wild	Fruits	Cattle
15	<i>Cassia tora</i> Linn. (Caesalpiniaceae), Tarota	Herbs	Wild	Seeds	Bullocks
16	<i>Celosia argentea</i> L. (Amaranthaceae), Kirdu	Herbs	Wild	Leaves	Goats, Cattle
17	<i>Chlorophytum tuberosum</i> (Roxb.) Baker. (Liliaceae), Safed musali	Herbs	Wild	Leaves	Goats
18	<i>Clerodendrum multiflorum</i> (Burm.f.) O.Ktze. (Verbenaceae), Arni	Shrubs	Wild	Leaves	Goats
19	<i>Clitoria ternatea</i> L. (Papilionaceae), Gokarna	Climbers	Wild	Entire plant	Goats
20	<i>Cocculus hirsutus</i> (L.) Diels. (Menispermaceae), Vasan	Climbers	Wild	Entire plant	Goats
21	<i>Combretum album</i> G. Don. (Combretaceae), --	Shrubs	Wild	Leaves	Goats
22	<i>Commelina benghalensis</i> L. (Commelinaceae), Kena	Herbs	Wild	Entire plant	Cattle
23	<i>Commelina forsskalaei</i> Vahl. (Commelinaceae), Kenpat	Herbs	Wild	Entire plant	Cattle
24	<i>Corchorus olitorius</i> L. (Tiliaceae), Chunch	Herbs	Wild	Leaves	Goats
25	<i>Corchorus trilobularis</i> L. (Tiliaceae), Kadu chinch	Herbs	Wild	Entire plants	Goats
26	<i>Crotalaria filipes</i> Bth. (Papilionaceae), Phatfati	Herbs	Wild	Entire plant	Cattle
27	<i>Cucumis setosus</i> Cogn. (Cucurbitaceae), Mekho	Climbers	Wild	Entire plant	Cattle
28	<i>Cynodon dactylon</i> (L.) Pers. (Poaceae)	Herbs	Wild	Leaves	Cattle
29	<i>Dichrostachys cinerea</i> (L.) Wight & Arn. (Mimosaceae), Ellatur	Small Trees	Wild	Leaves	Goats
30	<i>Digerta muricata</i> (L.) Mart. (Amaranthaceae), Bokad bhaji	Herbs	Wild	Leaves	Cattle
31	<i>Dolichos lablab</i> L. (Papilionaceae), Vahl.	Climbers	Cultivated	Leaves	Goats, Cattle
32	<i>Eranthemum roseum</i> (Vahl.) R.Br. (Acanthaceae), Mor-tutlya	Shrubs	Wild	Roots	Cows, Buffaloes
33	<i>Euphorbia geniculata</i> Orteg. (Euphorbiaceae), Dudhi	Herbs	Wild	Leaves	Goats
34	<i>Euphorbia parviflora</i> L. (Euphorbiaceae), Dudhi	Herbs	Wild	Entire plant	Cattle
35	<i>Ficus amplissima</i> J.E.Sm. (Moraceae), Pipri	Trees	Wild	Leaves	Cattle
36	<i>Ficus arnottiana</i> (Miq.) Miq. (Moraceae), Khaunda	Trees	Wild	Leaves	Cattle
37	<i>Ficus religiosa</i> L. (Moraceae), Pimpal	Trees	Planted/ Wild	Leaves	Goats, Cattle
38	<i>Flacourtia indica</i> (Burm.f.) Merr. (Flacourtiaceae), Gargul	Trees	Wild	Leaves	Goats
39	<i>Gmelina arborea</i> Roxb. (Verbenaceae), Shivan	Trees	Wild	Leaves, Fruits	Goats, Cows, Buffaloes
40	<i>Grewia tiliaefolia</i> Vahl (Tiliaceae), Dhaman	Trees	Wild	Leaves	Goats
41	<i>Guizotia abyssinica</i> (L.f.) Cass. (Asteraceae), Khursani	Herbs	Cultivated	Seed-cake	Cattle
42	<i>Hardwickia binata</i> Roxb. (Caesalpiniaceae), Anjan	Trees	Wild	Leaves	Cows, Buffaloes
43	<i>Hemigraphis latebrosa</i> (Heyne ex Roth) Nees (Acanthaceae), Sarambal	Herbs	Wild	Leaves	Goats
44	<i>Hibiscus cannabinus</i> L. (Malvaceae), Ambadi	Shrubs	Cultivated	Seeds	Cows, Buffaloes
45	<i>Ipomoea nil</i> (L.) Roth. (Convolvulaceae), Nilvel	Climbers	Wild	Leaves	Goats
46	<i>Leucas cephalotes</i> (Koeing. ex Roth) Spreng. (Lamiaceae), Ghate gavat	Herbs	Wild	Leaves	Cows, Buffaloes
47	<i>Madhuca longifolia</i> (Koen.) Macbr. var. <i>latifolia</i> (Roxb.) Chevaliar. (Sapotaceae), Mahu	Trees	Wild	Seeds	Bullocks
48	<i>Maytenus rothiana</i> (Lawson.) Lobreau-Collen. (Celastraceae), Henkal	Shrubs	Wild	Leaves	Goats
49	<i>Mimosa hamata</i> Willd. (Mimosaceae), Arti	Shrubs	Wild	Leaves	Goats
50	<i>Mitragyna parvifolia</i> (Roxb.) Korth. (Rubiaceae), Kadmb	Trees	Wild	Leaves	Cattle
51	<i>Ougeinia oojeinensis</i> (Roxb.) Hochr. (Papilionaceae), Tinas	Trees	Wild	Leaves	Cattle
52	<i>Pergularia daemia</i> (Forsk.) Chiov. (Asclepiadaceae), Utaran	Climbers	Wild	Leaves	Goats

53	<i>Phyllanthus amarus</i> Schumach. (Euphorbiaceae), Dader	Herbs	Wild	Leaves	Cattle
54	<i>Physalis minima</i> L. (Solanaceae), Phugara	Herbs	Wild	Entire plant	Cattle
55	<i>Pithecellobium dulce</i> (Roxb.) Bth. (Mimosaceae), Vilayati Chinch	Trees	Wild	Fruits, Leaves	Goats
56	<i>Portulaca quadrifida</i> L. (Portulacaceae), Ghol	Herbs	Wild	Entire plant	Cattle
57	<i>Prosopis cineraria</i> (L.) Druce (Mimosaceae), Saundad	Trees	Wild	Leaves, Pods	Cattle
58	<i>Rivea hypocrateriformis</i> (Desv.) Choisy (Convolvulaceae), Fang	Climbers	Wild	Leaves	Cattle
59	<i>Sida mysorensis</i> Wight & Arn. (Malvaceae), Chiknya	Herbs	Wild	Entire plant	Goats, Sheep
60	<i>Sonchus oleraceus</i> L. (Asteraceae),--	Herbs	Wild	Entire plant	Cattle
61	<i>Sorghum bicolor</i> (L.) Moench. (Poaceae), Jawar	Shrubs	Cultivated	Entire plant	Cattle
62	<i>Terminalia chebula</i> Retz. (Combretaceae), Hirda	Trees	Wild	Leaves	Cattle
63	<i>Vigna radiata</i> (L.) Wilczek. (Papilionaceae), Udid	Climbers	Cultivated	Entire plant	Cattle
64	<i>Ziziphus mauritiana</i> Lam. (Rhamnaceae), Bor	Trees	Planted	Leaves	Goats
65	<i>Ziziphus xylopyra</i> (Retz.) Willd. (Rhamnaceae), Ghatbor	Shrubs	Wild	Leaves	Goats
66	<i>Ziziphus rugosa</i> Lamk. (Rhamnaceae), Toran	Lianas	Wild	Leaves	Goats

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