

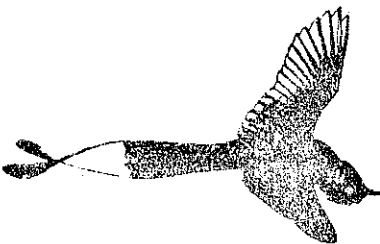
Envis Centre
December 1986
Bangalore



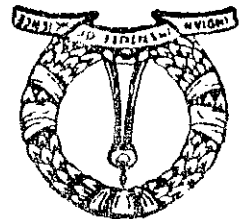
PRELIMINARY REPORT

Nilgiri Biosphere Reserve Information System

REFERENCE
ONLY



INDIAN INSTITUTE OF SCIENCE
Centre for Ecological Sciences



CENTRE FOR
ECOLOGICAL SCIENCES

301131 M 86 (CES)
CES 4166

identification of relevant research papers from scientific and unpublished books, reports, and papers; (2) Scanning and being collected at three levels: (1) Photocopying of published administration, vegetation, fauna, people, etc. Information is area, geology and soils, hydrology, climate, forest Biosphere Reserve. It will include the general history of the various subjects which have a bearing on the environment of the Under the programme, information is being collected on

Biosphere Reserve will also enrich the database.

researchers in the Biosphere Reserve. Future studies in the on different aspects under one roof to be available to all and conservation. The Information System will provide basic data in the available information, and in planning for further research is available emerges. This will be helpful in identifying lacunae needed to be brought together, so that an overall picture of what Biosphere Reserve area. It was felt that all such information times in studying and reporting various aspects related to the zations and private individuals have been involved at different Different government departments, non-governmental organi-

Biosphere Reserve.

baseline data for future research activities and management of the nment of India. The major objective of this project is to provide assistance from the Department of Environment and Forests, Government of India. The major objective of this project is to provide Ecological Sciences, Indian Institute of Science, Bangalore, with Reserve Information System that is being set up at the Centre for This preliminary report deals with the Nilgiri Biosphere

1.0 INTRODUCTION

15. Indian Space Research Organization
14. Cardamum Board
13. Coffee board
12. Department of Tribal development and Social Welfare
11. Survey of India
10. Karnataka State Land Use Board
9. Karnataka Public Works Department
8. Karnataka State Irrigation Department
7. Karnataka Electricity Board
6. Karnataka Power Corporation
5. National Bureau of Soil Survey and Land Use Planning
4. Bureau of Economics and Statistics
3. Bureau of Geology and Mines.
2. Geological Survey of India
1. Office of the Chief Conservator of Forests

Bangalore

KARNATAKA

LIST OF AGENCIES FROM WHICH DATA IS BEING COLLECTED FOR
NILGIRI BIOSPHERE RESERVE AREA

For this purpose, various governmental and non-governmental agencies/organizations are being visited in the states of Kerala, Karnataka and Tamil Nadu. A list of such agencies/organizations is given below. We gratefully acknowledge the assistance rendered by these agencies, who have willingly cooperated in providing the necessary information.

2. Tamil Nadu State Archives

1. Office of the Chief Conservator of Forests

MADRAS

TAMIL NADU

4. Vivekananda Girijana Kalyan Kendra, B.R.T. Hills

3. Divisional Forest Office, Chamarajanagar

2. Divisional Forest Office, Humsur

1. Office of the Conservator of Forests, Mercara

OTHER PLACES

6. Palace Library, Mysore

5. Divisional Forest Office, Mysore Division

4. Anthropological Survey of India

3. Office of the Conservator of Forests

2. Library, Oriental research Institute

1. University Library, Mysore University

MYSORE

26. Indian Meteorology Department

25. Central Ground Water Board

24. MYRADA

23. Forest Survey of India

22. Institute for Social and Economic Change

21. Karnataka State Archives

20. Institute of World Culture

19. Mythic Society

18. University Library, UAS, Bangalore

17. University Library, Bangalore University

16. State Secretariat Library

3. District Forest Office, South Division
2. District Forest Office, North Division
1. Office of the Conservator of Forests

GOVT

9. Office of Forest Soil And Vegetation Survey
8. Bharathiar University
7. International Institute of Ayurveda
6. District Forest Office
5. University Library, T.N. All
4. Forest Resources Survey Division
3. State Forestry Training College
2. Office of the Conservator of Forests, Coimbatore
1. Botanical Survey of India

COIMBATORE

16. Madras Institute of Developmental Studies, University of Madras
15. Geological Survey of India
14. State Geology Branch of Industries Department
13. Centre for Water Resources
12. Institute of Remote Sensing, Anna University
11. Meteorological Department
10. I. N. Department of Tribal Development and Social Welfare
9. T. N. State Land Use Board
8. T. N. Public Works Department
7. T. N. Irrigation Department
6. T. N. Electricity Board
5. Bureau of Economics and Statistics
4. Connemara Library
3. Adyar Library

14. Prakkriti Samrakshana Samiti

13. Kerala Sasthra Sahitya Parishat

12. Centre for Earth Sciences

11. Centre for Development Studies

10. Rubber Board

Welfare

9. Kerala State Department of Tribal Development and Social

8. Kerala State Land Use Board

7. State PWD Office

6. Kerala Irrigation Department

5. Kerala State Electricity Board

4. Bureau of Economic and Statistics

3. Kerala State Archives

2. Secretariat Library

1. Chief Conservator of Forests

TRIVANDRUM

KERALA

2. District Forest Office, Sathyamangalam

1. District Forest Office, Erode

OTHER PLACES

10. United planters association of South India

9. Tamilnadu tea Development Corporation

8. Tribal Research Institute of Tamil University

7. Central Water and Soil Conservation and Training Institute

6. Nilgiri Wild life and Environmental Association

5. Planters Association of Tamilnadu, Coonoor

4. Wild Life Warden, Mudumalai and Nilgiri Tahr Sanctuary

A versatile Computer software package namely DBASE III will be used for classification and retrieval of stored information. A tentative format in which information will be classified is shown for Talamalai range of Sathyamangalam Forest Division and is provided elsewhere. The information once ready will be available both for taluk and the forest range to represent the basic revenue and forest division units respectively.

1. French Institute, Pondichery
2. Indian Institute of Tropical Meteorology, Pune
3. Central Water and Power Corporation, New Delhi
4. Indian Meteorological Department, New Delhi
5. National Remote Sensing Agency, Hyderabad

OTHER SITES

1. Kerala Forest Research Institute, Peechi
2. Kerala Agricultural University, Trichur
3. District Forest Office, Palghat
4. Special Divisional Forest Office, Palghat
5. Special Divisional Forest Office, Nilambur
6. District Forest Office, Wyanad

OTHER PLACES

1. Zoological Survey of India
2. Tribal Research Institute
3. Central Water Resources Development and Management Centre
4. Conservator of Forests, North Circle
5. Conservator of Forests, Special Circle

CALICUT

In addition each of the books/papers/reports collected is being catalogued with an abstract and keywords for convenient access to information on various aspects. When the information system is complete we would be able to provide a bibliographic list on such things as:

1. The Todas of Nilgiris
2. History of the working of the forests of Nilambur
3. Floristics of Bandipur etc., based on certain keywords.

We would also be able to provide for instance:

1. Rainfall statistics at different places for Nilgiri South region
2. Agricultural production in Gundlupet Taluk
3. Extraction of bamboo for Satyamangalam division

A bibliographic list and an author index is provided along with this report.

INFORMATION OUTPUT FOR TALAMALAI RANGE

NILGIRI BIOSPHERE RESERVE

I. LOCATION

State: Tamil Nadu
 District: Periyar
 Taluk: Sathyamangalam
 Division: Sathyamangalam
 Range: Talamalai
 Forest circle: Coimbatore

Altitude
 Minimum: 250 m
 Maximum: 1411 m

Latitude: 11 29'N to 11 48'N

Longitude: 76 48'E to 77 13'E

II GEOLOGY AND SOILS

a) Rocks:

Rock types: Location

Pyroxene-granulites
 Granite-gneiss
 Limestone

b) Mineral deposits:

Mineral: Location

Iron
 Copper
 Dodda Kumbhe valley
 Rajanagar

c) Soils:

Soil types: Location Area

Alluvial
 Red
 Black
 Skeletal
 Colluvial

III CLIMATE:

a) Mean monthly rainfall in mm

January to June

Location	Jan.	Feb.	Mar.	Apr.	May	June
Chikkahalli	17.14	13.49	2.66	42.43	51.43	25.25
Jivgahalli	11.96	6.35	0.28	65.98	47.00	20.00
Talavadi	9.16	0.00	14.33	89.53	110.01	85.50
Hasanur	3.06	7.81	18.69	66.99	117.78	50.14

July to December

Location	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.	Total
Chikkahalli	30.82	33.96	69.58	142.98	78.32	32.97	604.29
Jivgahalli	51.24	40.31	100.58	211.98	100.28	29.27	699.30
Talavadi	81.96	18.58	135.10	119.85	95.00	20.78	801.80
Hasanur	65.76	77.14	102.59	178.89	114.53	30.20	934.72

b) Mean monthly temperatures (C)

1) Mean minimum:

Location	J	F	M	A	M	J	J	A	S	O	N	D
Not collected												

ii) Mean maximum:

Location	J	F	M	A	M	J	J	A	S	O	N	D
Not collected												

c) Other parameters such as relative humidity, wind speed, radiation, evapotranspiration, etc. are to be recorded from a few reliable stations.

Halikerai, Almalaligudi tank, Jalimadam Madeswaran Koli Kuttai,

Area under	Sq. Km.
1) Forests	398.50
Reserve forest	2.79
Revenue forest	---
Private forest	---
2) Settlements	28.06
3) Cultivation	22.76
4) Cultivable waste	2.20
5) Barren or uncultivable	2.80
6) Water bodies	---
Streams/Rivers	---
Lakes/Reservoirs	---
Wells/Tanks	---

V. LAND USE:

5) Quality of water	PH, cations, anions etc.
Year of construction	Area irrigated
Depth in diff. months/year	Power generated
Water spread	Capacity

IV. HYDROLOGY

1. Streams/Rivers: Jogatti, Balapadugan halla	Flow in diff. months/year
2. Lakes:	Depth of water table in different months/ year
3. Ground water:	Depth
	Water spread
	Water spread
	Depth in diff. months/year
	Year
	d. Reservoirs:
	Water spread
	Depth in diff. months/year
	Not available

Todamalai, Madappa, Well in Doddacombi Halla, Jirahalli Kerala; Tekkaral Kerala, Marapara Kerala, Yerrakuttai tank, Aathigudi Kerala, Tippam Kerala, Mogara Kerala, Lokala Kerala, Gudi Kerala, Chathra Kerala, Karadiguddi tank, Bomman Kuttai tank, Tippam Kuttai tank.

7) Human habitation in forest land

Sq. km

Village (Only tribal settlements)

Town

0.3

8) Forests:

1) List of reserve forests

Area	Area under NBR (sq. km)
a) Talamalai R F	533.50
b) Extension R F	12.40
c) Akkujoral R F	3.83
d) Akkujoral Extn. R F	1.58
	<u>551.31</u>
	545.90

2) List of revenue forests

3) List of private forests

4) List of other forests

Area of Rf/range under:

Core zone

Manipulation forestry zone

Manipulation tourism zone

Restoration zone

WORKING OF FORESTS:

1) Timber extraction: Selection/clear felling

Locality	Species	Area (ha)	No. of trees	Quantity (tons)	Value (Rs.)
Talamalai	Sandal	66.89	13781	13781	63.06
Chikkalili	Sandal	38.68	11341	11341	9.00
Neithal- puram	Sandal	37.66	23241	23241	55.98

2) Fuel wood extraction (1976-77 to 1980-81):

Locality	Species	Area (ha)	Quantity (tons)	Value (Rs.)
Bennari West		200.32		
Kumbarakundi		123.78		

h) Other items

Sapindus emarginatus fruit	18443
Zizyphus mauritiana fruit	4856
Solanum trilobatum fruit	544
Ferronia elephantum fruit	1426
Acacia concinna fruit	---
Pongamia seeds	---
Madhuca indica seeds	265
Acacia pennata fruit	2500
Mangifera indica fruit	2550
Forest grass	79855
	11978

5) No. of grazing permits issued/Year:

Cow	182-83, 83-84	9508	10270
Sheep	182-83, 83-84	5722	7152
Cattle	182-83, 83-84	1233	1345

6) Legal provision and privileges

Being prepared

*

1:50000 scale maps of forest ranges showing R.F.s, plantations, roads, tanks, dams, etc. are being collected.

VEGETATION TYPES

Area under

Sq. km

1) Wet evergreen forest	---
2) Montane shola grasslands	---
3) Semi evergreen forest	---
4) Moist deciduous forest	---
5) Dry deciduous forest	467
6) Dry thorn forest	90
7) Grasslands	6
9) Plantations	22.2
Eucalyptus	---
Bamboo	---
Miscellaneous	13.5

VII. LIST OF PLANTATIONS

Locality (1)	Year (2)	Species (3)	Area (ha.) (4)	Extraction (5)
1) Hasannur	1953	Euc. citradora	4.0	
2) Hasannur	1953	"	6.0	
3) Hasannur	1954	"	4.0	
4) Bennari	1955	Acacia arabica	20.0	
5) Bennari	1957	Kolukkattai grass	20.2	
6) Basuvapalayam	1958	"	121.4	
7) Bennari	1959	"	121.4	
8) Bennari	1959	Azadirachta indica,		
		Tamarindus indica,		
9) Bennari	1960	Pongamia glabra	40.0	
10) Pungar	1961	"	20.0	
11) Pungar	1962	"	12.1	
12) Bennari	1963	"	20.0	
13) Kothamangalam	1954	"	20.0	
14) Pungar	1958	Alimthus excelsa	12.0	
15) Kothamangalam	1959	"	12.0	
16) Bennari	1960	"	12.0	
17) Bennari	1961	"	20.0	
18) Chikkalli	1959	Misc. species	12.0	
19) Pungar	1961	"	12.0	
20) Pungar	1961	"	20.0	
21) Bimakkahalli	1961	Kusum	7.0	
22) Bennari	1962	Sesbania aculeata	2.0	
23) Bennari	1962	Avai	2.4	
24) Mavanatham	1963	Santalum album	4.0	
25) Mavanatham	1964	" and Euc. hybrid	4.0	
26) Mavanatham	1965	"	4.0	
27) Basuvapalayam	1963	Cassia chameia,	3.6	
		Euc. hybrid		
28) Mavanatham	1966	Santalum album	6.8	
29) Kothamangalam	1966	Euc. hybrid	13.4	
30) Mavanatham	1967	" and Santalum	2.4	
31) Dhimbam	1968	album	17.4	
32) Dhimbam	1969	"	13.2	
33) Chikkalli	1969	"	20.5	
34) Bejalatti	1970	"	11.5	
35) Bejalatti	1971	"	15.8	
36) Bejalatti	1972	"	10.2	
37) Bejalatti	1973	Euc. hybrid	9.2	
38) Bejalatti	1974	"	9.3	
39) Sujjalkuttai	1970	Acacia arabica,		
		Acacia planifrons,		
		Acacia ferruginea	20.2	
40) Sujjalkuttai	1971	"	19.8	
41) Sujjalkuttai	1972	"	19.8	
42) Sujjalkuttai	1973	"	19.8	
43) Sujjalkuttai	1974	"	19.8	

A checklist is being prepared

1) Checklist of plants:

VIII. FLORA

44)	Sujalkuttai	1974	"	37.5
45)	Sujalkuttai	1975	"	65.5
46)	Bennari	1975	"	36.0
47)	Bennari	1976	"	30.5
48)	Kavilipalayam	1963	Acacia arabica;	
			Azadirachta indica;	
			Euc. hybrid	50.5
49)	Kavilipalayam	1964	"	30.5
50)	Elathu	1963	"	20.1
51)	Naluru	1964	Acacia arabica	14.6
52)	Nagamalai-			
	karadu	1973	Acacia arabica;	
			Velrue varuni	20.0
53)	Pungampalli	1965	Acacia arabica;	
			Dalbergia sissoo	22.0
54)	Vedagiri-			
	karadu	1974	Prosopis spicigera;	
			Acacia leucophloea;	
			Acacia plantifrons	20.0
55)	Kavilipalayam	1974	Acacia arabica;	
			Acacia plantifrons	40.0
56)	Bhavanisagar	1971	Bambusa; Dalbergia	9.8 km
			sissoo	
57)	Bhavanisagar	1972	"	10.0 km
58)	Bhavanisagar	1965	"	60.4
59)	Bhavanisagar	1972	Misc. species	15.4
60)	Bhavanisagar	1972	"	19.8
61)	Bhavanisagar	1972	"	21.4
62)	Bhavanisagar	1974	"	12.5
63)	Jeerahalli	1978	Santalum album	1.0
64)	Jeerahalli	1979	"	2.0
65)	Jeerahalli	1980	"	2.0
66)	Gettavadi	1980	Tamarindus indica	5.0
67)	Gettavadi	1981	"	5.0
68)	Sathy (road)	1979	Delonix regia	6.0 km
69)	Sathy (road)	1980	"	6.0 km
70)	Bennari (road)	1981	"	7.2 km
71)	Chikkalli	1981	Euc. hybrid	
			Acacia plantifrons	21.5
72)	Naluru	1981	Acacia arabica	17.4
73)	Pungampalli	1981		20.5

(1) (2) (3) (4) (5)

REFERENCE
ONLY

2) Forest resource survey enumeration of tree density:

Species

Abundance in girth classes

(1) 31-60 cm
(2) 61-90 cm
(3) 91-120 cm
(4) 121-150 cm
(5) 151+ cm

1.	Acacia	4518	517	819	438	723
2.	Acacia sundra	5164	6818	1019	100	100
3.	Adina cordifolia	1437	1540	1032	425	214
4.	Alanthus					
5.	malabarica	14207	2018	300	97	100
6.	Albizia amara	31291	15748	5133	1364	159
7.	Albizia lebeck	1036	98	294	100	300
8.	Albizia					
9.	odoratissima	5785	1988	1478	1120	564
10.	latifolia	149077	423693	87034	13523	2148
11.	monophylla	69980	5284	570	287	
12.	Azadirachta					
13.	indica	12485	4474	4519	2233	2110
14.	Bombax					
15.	Bauhinia racemosa	55471	12531	2488	200	
16.	malabarium	456	556	100		
17.	Boswellia serrata	25840	20890	13855	3258	1200
18.	Camptium					
19.	diccum	246271	71455	11567	1216	116
20.	Cassia congesta	3937	100			
21.	Cassia					
22.	fistula	4016	346	100	100	
23.	coriacea	34584	5144	1127	100	
24.	Casuarina					
25.	Casuarina					
26.	Chloroxylon					
27.	swietenia	136095	23517	5354	868	200
28.	Dalbergia					
29.	latifolia	3900	1200	300		200
30.	Phyllanthus					
31.	amblica	260107	23442	1810	200	
32.	Erythroxylon					
33.	monogynum	137711	9551	246		
34.	Eu					
35.	Jambolan	12734	9765	4270	2554	1071
36.	elephantum	14664	6421	2103	668	100
37.	Givotia					
38.	rottiliformis	3534	3500	2140	953	100
39.	Grewia					
40.	tiliaefolia	24784	11383	3267	500	
41.	Gyrocarpus					
42.	Jacquin	11036	7971	4198	2050	200
43.	Hardwickia binata	44478	24880	14126	9485	5131
44.	Mangifera indica	119	119	119	200	
45.	Pongamia glabra	7308	3348	3024	432	216

1. Checklist of mammals with abundance rating
Being prepared
2. Checklist of birds
Being prepared
3. Checklists of reptiles, amphibians, fishes
Being prepared
4. Checklist of invertebrates
Being prepared

IX. FAUNA

	(1)	(2)	(3)	(4)	(5)	(6)
30. Pterocarpus	188401	104974	42264	18239	16462	
31. Sapindus	19873	6058	2036	347	131	
32. Schleicheria	146	670	--	--	--	
33. Semecarpus	16900	5464	2612	300	--	
34. Stereospermum	693	609	200	516	100	
35. Stereospermum	2000	1068	800	100	--	
36. Tamarindus indica	2209	1773	1259	285	576	
37. Tectona grandis	29384	22816	10516	3534	2500	
38. Terminalia arjuna	10023	3614	957	100	--	
39. Terminalia	341	269	498	100	219	
40. Terminalia	204036	84596	22408	4431	1100	
41. Terminalia	1114	100	100	--	--	
42. Vitex altissima	13067	4513	1546	400	200	
43. Wrightia	5107	2613	803	--	--	
44. Zizyphus	13363	2173	264	--	--	
45. mauritiana						

A comprehensive bibliography is being prepared for each range.

Village	Crop	Area (ha.)	Yield (qts)
Iggalur	Ragi	426.5	5300
	Jowar	31.0	400
	Paddy	4.5	80
Netthalapuram	Ragi	120.0	1500
	Ragi	102.0	1300
Mudianur	Paddy	4.0	70
Doddapuram	Ragi	244.0	3000

List of estates and area under different crops:

Estates
Coffee
Tea

Area
Nil
Nil

Area under different crops (1981):

Net area sown:
Net area irrigated:
Area irrigated by tanks:
Area irrigated by canals:
Area irrigated by wells:
Area irrigated by others:

Net area sown:

Net area irrigated:

Area irrigated by tanks:

Area irrigated by canals:

Area irrigated by wells:

Area irrigated by others:

XI. AGRICULTURE:

Taluk

Area

Name of village/ town	Total pop.	Total workers	Cultivators	Agricultural labourers
Talamalai	2944	807	16	512
Netthalapuram	886	273	20	166
Iggalur	2149	671	17	404
			2	234
			3	61
			2	215
				10

X. HUMAN SETTLEMENTS:

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