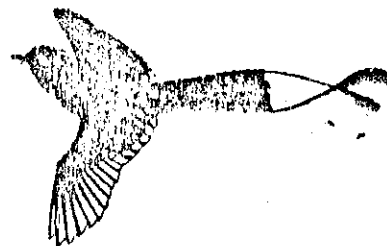


INDIAN INSTITUTE OF SCIENCE
Centre for Ecological Sciences



Nilgiri Biosphere Reserve Information System

PRELIMINARY REPORT

Envis Centre
December 1986
Bangalore

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1.0 INTRODUCTION

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

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

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 Information is being collected at three levels: 1) Photocopying of published and unpublished books, reports, and papers; 2) Scanning and identification of relevant research papers from scientific

journals;3) Collection of raw statistics of rainfall, land holdings, area and yield of different crops, human settlements, and working of forests for the period between 1976 and 1985.

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.

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

KARNATAKA

Bangalore

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

- 16.State Secretariat Library
- 17.University Library, Bangalore University
- 18.University Library, UAS,Bangalore
- 19.Mythic Society
- 20.Institute of World Culture
- 21.Karnataka State Archives
- 22.Institute for Social and Economic Change
- 23.Forest Survey of India
- 24.MYRADA
- 25.Central Ground Water Board
- 26.Indian Meteorology Department

MYSORE

- 1.University Library,Mysore University
- 2.Library, Oriental research Institute
- 3.Office of the Conservator of Forests
- 4.Anthropological Survey of India
- 5.Divisional Forest Office,Mysore Division
- 6.Palace Library,Mysore

OTHER PLACES

- 1.Office of the Conservator of Forests,Mercara
- 2.Divisional Forest Office,Hunsur
- 3.Divisional Forest Office,Chamarajanagar
- 4.Vivekananda Girijana Kalyana Kendra,B.R.T.Hills

TAMIL NADU

MADRAS

- 1.Office of the Chief Conservator of Forests
- 2.Tamil Nadu State Archives

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

COIMBATORE

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

OOITY

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

4. Wild Life Warden, Mudumalai and Nilgiri Tahr Sanctuary
5. Planters Association of Tamilnadu, Coonoor
6. Nilgiri Wild life and Environmental Association
7. Central Water and Soil Conservation and Training Institute
8. Tribal Research Institute of Tamil University
9. Tamilnadu tea Development Corporation
10. United planters association of South India

OTHER PLACES

1. District Forest Office, Erode
2. District Forest Office, Satyamangalam

KERALA

TRIVANDRUM

1. Chief Conservator of Forests
2. Secretariat Library
3. Kerala State Archives
4. Bureau of Economic and Statistics
5. Kerala State Electricity Board
6. Kerala Irrigation Department
7. State PWD Office
8. Kerala State Land Use Board
9. Kerala State Department of Tribal Development and Social Welfare
10. Rubber Board
11. Centre for Development Studies
12. Centre for Earth Sciences
13. Kerala Sastra Sahitya Parishat
14. Prakriti Samrakshana Samiti

CALICUT

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

OTHER PLACES

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 STATES

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

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 Satyamangalam 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.

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 Forest circle: Coimbatore
District: Periyar Division: Sathyamangalam
Taluk: Sathyamangalam Range: Talamalai

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:

<u>Rock types</u>	<u>Location</u>
Pyroxene-granulites	
Granite-gneiss	
Limestone	

b) Mineral deposits:

<u>Mineral</u>	<u>Location</u>
Iron	Dodda Kumbe valley
Copper	Rajanagar

c) Soils:

<u>Soil types</u>	<u>Location</u>	<u>Area</u>
Alluvial		
Red		
Black		
Skeletal		
Colluvial		

III CLIMATE:

a) Mean monthly rainfall in mm

January to June

Location	Jan.	Feb.	Mar.	Apr.	May	Jun.
Chikkahalli	17.14	13.49	2.66	42.43	51.43	25.25
Jirgahalli	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
Jirgahalli	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	802.80
Hasanur	65.76	77.14	102.59	178.89	114.53	30.20	934.72

b) Mean monthly temperatures (°C)

i) 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.

IV. HYDROLOGY

1. Streams/Rivers: Jogatti, Balapadugau halla

Flow in diff.
months/year

2. Lakes:

Water spread

Depth

3. Ground water:

Depth of water table
in different months/
year

Not available

4. Reservoirs:

Water spread

Depth in diff.
months/year

Year of
construction

Capacity

Power
generated

Area
irrigated

5) Quality of water pH, cations, anions etc.

V. LAND USE:

Area under

Sq. Km.

1) Forests

Reserve forest
Revenue forest
Private forest

598.53
2.79

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

--
--

Halikerai, Alamalaigudi tank, Jalimadan Madeswaran Koil Kuttai,

Todamalai, Madappa, Well in Doddacombi Halla, Jurahalli Kerai, Tekkarai Kerai, Marapara Kerai, Yerrakuttai tank, Aathigudi Kerai, Tippan Kerrai, Mogara Kerai, Lokala Kerai, Gudi Kerai, Chathra Kerai, Karadiguddi tank, Bomman Kuttai tank, Tippan Kutai tank.

7) Human habitation in forest land

Sq. km

Village (Only tribal settlements) 0.3
Town ---

8) Forests:

1) List of reserve forests

	Area (sq. km)	Area under NER (sq. km)
a) Talamalai R F	533.50	545.90
b) Extension R F	12.40	
c) Akkujorai R F	3.83	
d) Akkujorai Extn. R F	1.58	
	551.31	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	505.90
Manipulation tourism zone	---
Restoration zone	40.00

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	63.06	---
Chikkalli	Sandal	38.68	11341	9.00	---
Neithala- puram	Sandal	37.66	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		

3) Bamboo extraction:

Locality	Species	Area	Quantity	Value
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4) Minor forest produce:

		1980-81	
		Quantity	Value
		(kg.)	(Rs.)
a)	Stone and tree moss	10150	10350
b)	Phoenix humilis leaves	287000	18000
c)	Cassia auriculata bark	1000	425
d)	Terminalia chebula nuts	543	21600
e)	Tamarindus indica fruit	23455	5001
f)	Other items		
	Sapindus emerginatus fruit	5211	
	Pongamia seeds	--	
	Azadirachta indica seeds	4230	
	Phyllanthus emblica fruit	62589	
	Solanum trilobatum fruit	150	24802
	Ferronia elephantum fruit	3385	
	Acacia concinna fruit	--	
	Zizyphus mauritiana fruit	7910	
	Carissa carandas fruit	--	
g)	Forest grass	--	

		1981-82	
a)	Stone and tree moss	11597	11700
b)	Phoenix humilis leaves	270475	22500
c)	Cassia auriculata bark	--	550
d)	Tamarindus indica fruit	6480	11610
e)	Terminalia chebula nuts	7908	--
f)	Other items		
	Azadirachta indica seeds	22373	
	Solanum trilobatum fruit	342	
	Phyllanthus emblica fruit	338000	
	Ferronia elephantum fruit	2177	
	Sapindus emerginatus fruit	16217	32967
	Zizyphus mauritiana fruit	3350	
	Mangifera indica fruit	6050	
	Pongamia seeds	--	
	Madhuca indica seeds	134	

		1982-83	
a)	Stone and tree moss	6691	13500
b)	Phoenix humilis leaves	254550	31500
c)	Phyllanthus emblica fruit	60500	28800
d)	Cassia auriculata bark	--	675
e)	Cassia fistula bark	9079	540
f)	Terminalia chebula nuts	33057	30600
g)	Tamarindus indica fruit	7425	4388

h) Other items

Sapindus emarginatus fruit	18443	
Zizyphus mauritiana fruit	4856	
Solanum trilobatum fruit	544	
Ferronia elephantum fruit	1426	
Acacia concinna fruit	---	21332
Pongamia seeds	---	
Madhuca indica seeds	265	
Acacia pennata fruit	2500	
Mangifera indica fruit	2550	
i) Forest grass	798555	11978

5) No. of grazing permits issued/year:

Cow		Sheep		Buffalo	
'82-83	'83-84	'82-83	'83-84	'82-83	'83-84
9508	10270	5722	7152	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	Negligible
4) Moist deciduous forest	---
5) Dry deciduous forest	447
6) Dry thorn forest	90
7) Grasslands	6
9) Plantations	
Eucalyptus)	22.3
Bamboo)	13.5
Miscellaneous	

VII. LIST OF PLANTATIONS

Locality (1)	Year (2)	Species (3)	Area (ha.) (4)	Extraction (5)
1) Hasanur	1953	Euc. hybrid, Euc. citradora	4.0	
2) Hasanur	1953	"	6.0	
3) Hasanur	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, Pongamia glabra	40.0	
9) Bennari	1960	"	20.0	
10) Pungar	1961	"	12.1	
11) Pungar	1962	"	20.0	
12) Bennari	1963	"	20.0	
13) Kothamangalam	1954	"	20.0	
14) Pungar	1958	Ailanthus excelsa	12.0	
15) Kothamangalam	1959	"	12.0	
16) Bennari	1960	"	20.0	
17) Bennari	1961	"	12.0	
18) Chikkalli	1959	Misc. species	12.0	
19) Pungar	1961	"	20.0	
20) Pungar	1961	"	7.0	
21) Binakkahalli	1961	Kusum	2.0	
22) Bennari	1962	Sesbania aculeata	2.4	
23) Bennari	1962	Avai	4.0	
24) Mavanatham	1963	Santalum album	4.0	
25) Mavanatham	1964	" and Euc. hybrid	4.0	
26) Mavanatham	1965	"	3.6	
27) Basuvapalayam	1963	Cassia chamia, Euc. hybrid	6.8	
28) Mavanatham	1966	Santalum album	13.4	
29) Kothamangalam	1966	Euc. hybrid	2.4	
30) Mavanatham	1967	" and Santalum album	17.4	
31) Dhimbam	1968	"	13.2	
32) Dhimbam	1969	"	20.5	
33) Chikkalli	1969	"	11.5	
34) Bejalatti	1970	"	15.0	
35) Bejalatti	1971	"	10.2	
36) Bejalatti	1972	"	9.2	
37) Bejalatti	1973	Euc. hybrid	9.2	
38) Bejalatti	1974	"	9.3	
39) Sujjalkuttai	1970	Acacia arabica, Acacia planifrons, Acacia ferrugenia	20.2	
40) Sujjalkuttai	1971	"	19.8	
41) Sujjalkuttai	1972	"	19.8	
42) Sujjalkuttai	1973	"	19.8	
43) Sujjalkuttai	1974	"	19.5	

(1)	(2)	(3)	(4)	(5)
44)	Sujjalkuttai	1974	"	37.5
45)	Sujjalkuttai	1975	"	65.5
46)	Bennari	1975	"	36.0
47)	Bennari	1976	"	30.5
48)	Kavilipalayam	1963	Acacia arabica, Azadirachta indica, Euc. hybrid	50.5 30.5
49)	Kavilipalayam	1964	"	20.1
50)	Elathur	1963	"	14.6
51)	Nallur	1964	Acacia arabica	
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 planifrons	20.0
55)	Kavilipalayam	1974	Acacia arabica, Acacia planifrons	40.0
56)	Bhavanisagar	1971	Bambusa, Dalbergia sissoo	9.8 km
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, Tamarindus indica	6.0 km 6.0 km
69)	Sathy (road)	1980	"	7.2 km
70)	Bennari (road)	1981	"	
71)	Chikkalli	1981	Euc. hybrid, Acacia planifrons	21.5
72)	Nallur	1981	Acacia arabica	17.4
73)	Pungampalli	1981		20.5

VIII. FLORA

1) Checklist of plants:

A checklist is being prepared

2) Forest resource survey enumeration of tree density:

Species (1)	Abundance in girth classes				
	31-60 cm (2)	61-90 cm (3)	91-120 cm (4)	121-150 cm (5)	151+ cm (6)
1. Acacia leucophloea	4518	517	819	438	723
2. Acacia sundra	51064	6818	1019	100	---
3. Adina cordifolia	1437	1540	1032	425	214
4. Ailanthus malabarica	14207	2018	300	97	100
5. Albizzia amara	31291	15748	5133	1364	759
6. Albizzia lebbeck	1036	98	294	100	300
7. Albizzia odoratissima	5785	1988	1478	1120	564
8. Anogeissus latifolia	149077	423693	87034	13523	2148
9. Atlantia monophylla	69980	5284	570	287	---
10. Azadirachta indica	12485	4474	4519	2233	2110
11. Bauhinia racemosa	55471	12531	2488	200	---
12. Bombax malabaricum	456	556	100	---	---
13. Boswellia serrata	25840	20890	13855	3258	1200
14. Canthium dicoccum	246271	71455	11567	1216	116
15. Carissa congesta	3937	100	---	---	---
16. Casearia coriacea	34584	5144	1127	100	---
17. Cassia fistula	4016	346	100	---	---
18. Chloroxylon swietenia	136095	23517	5354	868	200
19. Dalbergia latifolia	3900	1200	300	---	200
20. Phyllanthus emblica	260107	23442	1610	200	---
21. E. throxylon m. gynum	137711	9551	246	---	---
22. E. ia jambolana	12734	9765	4270	2554	1071
23. Ferronia elephantum	14664	6421	2103	668	100
24. Givotia rottleriformis	3534	3500	2140	953	100
25. Grewia tiliaefolia	24784	11383	3267	500	---
26. Gyrocarpus jacquini	11036	7971	4198	2050	200
27. Hardwickia binata	44478	24880	14126	7485	5131
28. Mangifera indica	119	119	119	200	---
29. Pongamia glabra	7308	5348	3024	432	216

(1)	(2)	(3)	(4)	(5)	(6)
30. Pterocarpus marsupium	188401	104974	42264	18239	16462
31. Sapindus emerginatus	19873	6058	2036	347	131
32. Schleicheria trijuga	146	670	---	---	---
33. Semecarpus anacardium	16900	5464	2612	300	---
34. Stereospermum chelonoides	693	609	200	516	100
35. Stereospermum xylocarpum	2000	1068	800	100	---
36. Tamarindus indica	2209	1773	1257	285	576
37. Tectona grandis	29384	22816	10516	3534	2300
38. Terminalia arjuna	10023	3614	957	100	---
39. Terminalia bellerica	341	269	498	100	219
40. Terminalia chebula	204036	84596	22408	4431	1100
41. Terminalia paniculata	1114	100	100	---	---
42. Vitex altissima	13067	4513	1546	400	200
43. Wrightia tinctoria	5107	2613	803	---	---
44. Zizyphus mauritiana	13363	2173	264	---	---

IX. FAUNA

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

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