

**FOREST STATISTICS
OF
WEST BENGAL
1988**



**PLANNING AND STATISTICAL CELL
(STATISTICS)
OFFICE OF THE
PRINCIPAL CHIEF CONSERVATOR OF FORESTS
WEST BENGAL**

DETAILS OF AREA UNDER NATIONAL PARK, WILDLIFE SANCTUARIES
AND TIGER RESERVE

NATIONAL PARKS (N.P.)

Name	Jurisdiction	District	Area (Sq. Km)
Sunderban N.P.	Field Director, Sunderban Tiger Reserve	21-Parganas (N & S)	1330.10
Singalila N.P. (intended)	West Bengal Forest Development Corpo- ration (W.B.F.D.C.)	Darjeeling	78.00
Neora Valley N.P. (intended)	W.B.F.D.C., Kalimpong	Darjeeling	88.00

B. WILDLIFE SANCTUARIES (W.S.)

	Total area of National Parks :		1496.10
1. Mahananda W.S.	Wildlife Divn.-I Darjeeling	Darjeeling	127.22
Senchal W.S.	-do-	Darjeeling	38.60
Salamandar Jorepokhari W.S.	W.B.F.D.C., Darjeeling	Darjeeling	0.04
Jaldapara W.S.	Jalpaiguri Division	Jalpaiguri	115.63
Gorumara W.S.	Jalpaiguri Division	-do-	8.61
Chaprainari W.S.	-do-	-do-	9.60
Buxa W.S.	-do-	-do-	314.52
Raiganj W.S.	Malda-W. Dinajpur Divn.	West Dinajpur	1.30
Bethudahari W.S.	Nadia-Murshidabad Divn.	Nadia	1.21
10. Bibhutibhusan W.S.	-do-	Nadia	0.64
11. Ballavpur W.S.	Birbhum Division	Birbhum	2.00
12. Lalpuan Island W.S.	24-Parganas Divn.	24-Parganas	38.00
13. Haliday Island W.S.	-do-	-do-	5.95
14. Narendrapur W.S.	-do-	-do-	0.10
15. Sajnakhati W.S.	-do-	-do-	362.40
16. Ramnaxujan W.S.	Burdwan Division	Burdwan	0.11

Total area of Wildlife Sanctuaries : 1025.96

TIGER RESERVE (T.R.)

Buxa T.R.	Field Director, Buxa Tiger Reserve	Jalpaiguri	758.82*
Sunderban T.R.	Field Director, Sunderban Tiger Reserve	21-Parganas	2585.10**
Total area of Tiger Reserve :			3343.92

Total area under protection : 3858.96

Percentage of total forest area
under protection 32.48%

N.B. * This area contains
Buxa W.S. 311.52
Buffer area 444.30

** This area contains
Sunderban N.P. 1330.10
Sajnakhati W.S. 362.40
Buffer area 892.60

758.82 Sq.km.

2585.10 sq.km.

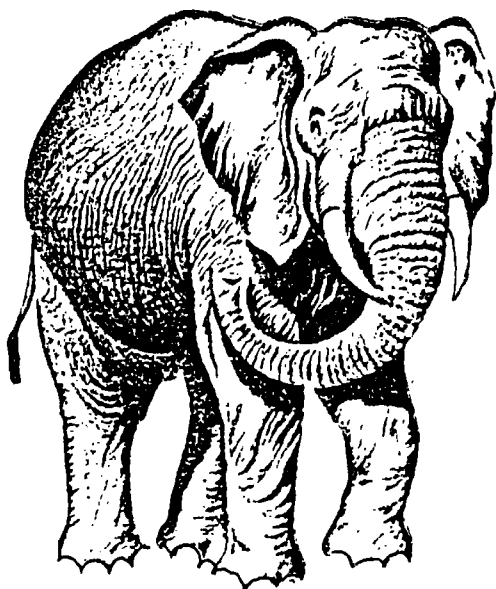
LIST OF NOTIFICATIONS FOR SANCTUARIES AND NATIONAL PARKS

A.	<u>Sanctuaries</u>	<u>No. & Date of Notification</u>	
1.	Jaldapara	5404-For.	24.6.76
2.	Gorumara	5400-For.	24.6.76
3.	Chapramari	5408-For.	24.6.76
4.	Mahananda	5384-For.	24.6.76
5.	Senchal	5380-For.	24.6.76
6.	Lothian Island	5392-For.	24.6.76
7.	Halliday Island	5388-For.	24.6.76
8.	Narendrapur	1642-For.	14.4.82
9.	Ballavpur	4655-For.	11.7.77
10.	Bethuadahari	4825-For.	29.10.80
11.	Bibhuti Bhusan	4824-For.	29.10.80
12.	Sajnakhali	5396-For.	24.6.76
13.	Ramnabagan	4345-For.	30.9.81
14.	Jorepokhri / Salamander	1107-For.	11.3.85
15.	Raiganj Wildlife Sanctuary	1901-For.	11.4.85
16.	Buxa Wildlife Sanctuary	916-For.	24.1.86
B.	<u>National Parks.</u>		
1.	Sunderban	2867-For.	4.5.84
2.	Singalila National park	2992-For.	6.5.86
3.	Neora Valley National Park	1817-For.	17.4.86.



**DISTRIBUTION OF TIGER AND LEOPARD IN DIFFERENT
FOREST AREAS OF WEST BENGAL**

<u>Division</u>	<u>Tiger</u>		<u>Leopard</u>	
	<u>1979</u>	<u>1984</u>	<u>1984</u>	
Jalpaiguri	7	16	14	
Baikunthapur	7	8	30	
Kurseong	10	1	12	
Cooch Behar	8	6	7	
Wildlife II (Jaldapara Wildlife Sanctuary)	12	9	7(1988)	6 (1988)
Buxa Tiger Reserve	27	15	25(1988)	8 30 (1988)
Sunderban Tiger Reserve	205	264	-	
24-Parganas	20	23	-	
Purulia	-	8	4	
Darjeeling (General)	-	2	3	
Darjeeling (Special)	-	-	4	
Kalimpong (General)	-	-	10	
Kalimpong (Special)	-	-	13	
TOTAL :	296	352	112	



ESTIMATED POPULATION OF ELEPHANTS IN INDIA

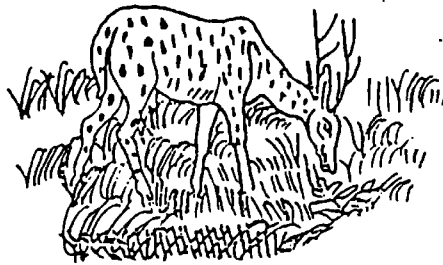
1. South India (Karnataka, Kerala, Tamil Nadu and parts of Andhra Pradesh)	6000 to 8000
2. North West India (UP)	About 500
3. Central/Eastern India (Bihar, Orissa and part of West Bengal)	2000 to 2300
4. North East India (Part of West Bengal, Assam, Meghalaya, Arunachal Pradesh, Tripura, Nagaland and Mizoram)	8000 to 12000

Total	16000 to 23000
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Total number of elephants in West Bengal	150 nos.
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**ENNUMERATION OF ELEPHANT AND RHINO POPULATION
(CENSUS DONE IN APRIL '86)**

	Name of Area	No. of Elephant	Elephant sighte prior/ after the date of Ennumeration	No. of Rhinos	
				<u>1986</u>	<u>1986</u>
1.	Jaldapara Wildlife Sanctuary (Wildlife-II)	1	- 2(1988)	14	24 (1988)
2.	Cooch Behar Division	-	5	-	
3.	Buxa Division /Tiger Reserve	58	13 44(1988)	-	
4.	Jalpaiguri Division	21	6	-	
5.	Kurseong Division	34	2	-	
6.	Gorumara Wildlife Sanctuary (Jalpaiguri Division)	-	-	8	
TOTAL :		114	26	22	



	<u>Spotted Deer</u>	<u>Barking Deer</u>	<u>Hog Deer</u>	<u>Sambar</u>	<u>Black Buck</u>	<u>Total</u>
Bethusdahari. Wildlife Sanctu- ary (Census 1988)	467			1		468
Bibhutibusan Wildlife Sanctu- ary (Census 1988)	223					223
Bailavpur Wildlife Sanctu- ary (Census 1986)	105				25	130
Ramnabagan Wildlife Sanctu- ary (Census 1988)	27	8			1	36
Jaldapara Wild- life Sanctuary (Census 1988)	71	64	385	36		556
Jhargram Deer Park (Census 1988)	21	5				26
Buxa Tiger Reserve (Census 1988)	42	131	30	35		238
Mukutmanipur (Banpukuria Or Kumari-Kangsa- bati)	23					23
Salt Lake Deer Research Centre	39	4				43
Sunderban Tiger Reserve						30,000(appx.)

ENUMERATION OF MAJOR FAUNA
(Census 1988)

S1. No.	Species	Buxa Tiger Reserve (No.)	Jaldapara Wildlife Sanctuary (No.)
1.	Tiger	25	7
2.	Leopard	30	6
3.	Elephant	44	2
4.	Rhino	-	24
5.	Gaur	54	37
6.	Spotted Deer	42	71
7.	Barking Deer	131	64
8.	Hog Deer	30	385
9.	Sambar	35	36
10.	Wild pig	80	126
11.	Sloth bear	-	5
12.	Jungle Cat	24	-
13.	Civet Cat	25	-
14.	Python	30	1
15.	Rhesus macaque	1051	-
16.	Monitor lizard	50	-

* Areas in Raimatang, Gangutia, Adma, Pana, 3hutri,
Barnabari, Rangamati, Godamdabri compartments could
not be enumerated properly due to disturbance.

CROCODILE PROJECT IN SUNDERBANS
(Bagabatpur)

Crocodile release	Y e a r	Date of release	No. of Crocodiles released		
			Male	Female	Total
	1979	11.5.79	11	22	33
	1982	22/23.3.82	3	22	25
	1983	17.3.83	6	12	18
	1984	10/11.5.84	6	15	21
	1986	16.3.86	3	27	30
	1987	29.4.87	17	13	30
	1988	7/ 8.3.88	15	12	27
	1989	20.3.89	1	12	13

Location of
release

Pirkhali-1, Pirkhali-2, Pirkhali-6, Matla-1,
Matla-2, Gosaba-3, Netiadhopani, Choto
Chamta-2, Chamta-4, Gona-2, Chand Khali-1,
Baghmara-1, Burirdabri, Chotobardi-2,
Arbasi -5.

DETAILS OF PERSONS KILLED BY TIGER IN SUNDERBANS
(24-Parganas & Sunderbans Tiger Reserve)

Y e a r	Honey Collection	Timber Coupe Operation	Golpatta & Hantal Operation	Fisherman	Others	Total
1980-81	8	1	7	65	-	81
1981-82	5	5	5	39	-	54
1982-83	14	1	1	33	1	50
1983-84	5	2	-	19	1	27
1984-85	7	1	3	14	1	26
1985-86	5	3	1	33	5	47
1986-87	9	2	-	16	1	28
1987-88	7	-	-	26	-	33
1988-89	7	1	1	18	-	27

Y e a r	No. of persons killed by Tiger	No. of persons to whom compensation paid			Total amount of compensation paid
		New case	Old case	Total	(Rs. in lakhs)
1987-88	33	26	15	41	1.66
1988-89	27	11	15	26	1.02

PERSONS KILLED BY TIGER IN SUNDERBANS

MONTHS	1987			1988			1989		
	Sundarban Tiger Reserve	24-Parganas	TOTAL	Sundarban Tiger Reserve	24-Parganas	TOTAL	Sundarban Tiger Reserve	24-Parganas	TOTAL
January	1		1	1	2	3		2	2
February	1	3	4	1	3	4	1		1
March	2		2	2		2		1	1
April	8		8	7	1	8			
May	2		2						
June	4	1	5	1		1			
July	-	1	1	2	2	4			
August	1	1	2		1	1			
September	2		2		6	6			
October		1	1	1		1			
November	1		1	1		1			
December		2	2	1		1			
Total:	22	9	31	17	15	32	1	3	4

FINANCIAL YEARWISE BREAKUP

NO. OF PERSONS KILLED BY TIGER

	Sundarban Tiger	24-Parganas	Total
1986-87 (part)	4	3	7
1987-88	22	11	33
1988-89(part)	14	13	27

PERSONS KILLED BY WILD ELEPHANTS

Months	1987			1988			1989		
	North Bengal	South Bengal	Total	North Bengal	South Bengal	Total	North Bengal	South Bengal	Total
January	1		1	1	1	2	5	3	8
February	1		1	1	1	2	3	7	10
March				1	3	4		2	2
							(Upto 19.3.89)		
April	1		1	1	1	2			
May	8		8	4		4			
June	6		6	9	3	12			
July	2		2	7		7			
August	4		4	9	2	11			
September	3		3	8		8			
October	5		5	5		5			
November	3		3	2		2			
December	5		5	10		10			
Total:	39		39	58	11	69	8	12	20

FINANCIAL YEARWISE BREAK UP

	North Bengal	South Bengal	Total
1986-87 (part)	2	-	2
1987-88	40	5	45
1988-89 (Upto 19.3.89)	63	18	81

**COMPENSATION PAID FOR KILLING, INJURY AND DAMAGES OF CROPS
BY WILD ELEPHANTS DURING 1987-88 & 1988-89.**

	1987-88	1988-89
No. of persons to whom compensation paid (Dead Case)	43	74
Amount of compensation paid (Dead case)	Rs. 2,03,000	Rs. 3,70,000
No. of persons to whom compensation paid (Injury Case)	72	56
Amount of compensation paid (Injury Case)	Rs. 15,590	Rs. 14,873
No. of persons to whom compensation paid for damages of crops	5,690	6,151
Quantity of crops damaged (approx.) in qtls.	5,578	7,129
Amount of compensation paid for damages of crops	Rs. 10,75,308	Rs. 11,24,530
Amount of compensation paid for other damages viz. killing of domestic animals, damages of huts etc.	Rs. 15,154	43,154
Total amount of compensation paid	Rs. 13,09,052	Rs. 15,52,557

DEATH OF ANIMALS

Calendar Year	Elephant	Tiger	Leopard	Rhino	Bison
1987	11	1	6	-	1
1988	11	1	1	-	1
1989 (upto March)	3	1	3	1	3

Financial Yearwise Break up :

Financial Year	Elephant	Tiger	Leopard	Rhino	Bison
1986-87 (Part)	2	1	1	-	-
1987-88	10	-	5	-	5
1988-89	13	2	4	1	1

WILDLIFE CASES

Illegal trade of Skins

(Calcutta & Howrah)

Year	Particulars of skin or articles seized	Persons arrested	No. of cases	Date of filing	Present Position (as on 1.4.89)
1985	Crocodile skin 4 Pcs Tiger skin 2 " Snake skin 9 " Deer skin 3 "	4	1	02.03.85	Disposed (Acquitted)
1986	Crocodile skin 12 Pcs Leopard skin 14 " otter skin 505 " Water & ship snake skin 5556 " Lizard skin 30783 " Pricaled whip Snake skin 272 kg	6	5	i) 18.03.85 ii) 15.04.86 iii) 05.12.86 iv) 23.12.86 v) 26.12.86	Disposed (Acquitted) Pending Pending Pending Pending
1987	Lizard skin bag 1 Pc Different types of skin bags 215 including made of python skin Water snake skin 379	1	5	i) 11.05.87	Disposed (Acqd. sentenced to fine of Rs.400/- i.d. S.I.got 4 months).
1988 & 1989 (Upto March)	Otter skin 185 Pcs Common fox Skin 2	-	1	ii) 11.05.87 iii) 11.05.87 iv) 11.05.87 v) 03.12.87 09.12.88	Disposed (Acqd. sentenced to fine of Rs. 1000/-i.d. S.I.for 4 months). Pending Pending Pending Pending

WILDLIFE CASES
(Calcutta & Howrah)
Illegal trade of Frog legs

Year	Article	Seized	No. of case	Date of filing	Persons arrested	Remarks
1985	Frog legs	323.506 M.T.	-	29.10.85		Compounded departmentally. Compensation realised of Rs. 34000/-
	Frog legs	1500 kg.	1	15.10.85		Pending in the Court
1986	Frog legs	38590 kg.	1	27.03.86		Accused fined Rs. 1500/-
	Frog legs	5312 cartons	2	20.11.86		pending in the High court.
	Frog legs	1250 cartons	1	20.11.86		Accused fined Rs. 500/- i.d. 25 days R.I.
1989	Frog legs	1500 kg.	-	14.02.89		Frog legs destroyed as per Court's order.

Illegal trade of Turtles

1988	Small turtle	33 nos	1	01.11.88	1	Seized articles released in the Ganges as per Court's Order. Case is pending.
	Indian Soft Shelled turtles	8 nos.	-	20.12.88		Seized articles released in the Ganges as per Court's Order.
	i) Sea turtles	6 nos	-	22.12.88		Seized articles released in Parmadan Sanctuary as per Court's Order.
	ii) Gangetic turtles	16 nos.				
	iii) Small turtles	44 nos				
1989	Turtles	62 nos.	-	14.02.89		Live turtles released in the Bethuadahari Sanctuary and dead turtles destroyed as per Court's Order.
	Small turtles	130 nos.	-	21.3.89		
	Gangetic turtles	50 nos.				Live turtles released in the Bethuadahari Sanctuary and dead turtles destroyed as per Court's Order.

WILDLIFE CASES
(Calcutta & Howrah)
Illegal Trade of Birds

Year	Article	Seized	No.of case	Date of filing	Persons arrested	Remarks
1985	Birds	17 nos.		14.12.85		All birds released in nature. Case compounded departmentally & compensation realised.
1987	Birds	3532 nos.		01.07.87		Seized birds are kept at Alipore Zoo. Case lying pending.
1988	Birds	68 nos.		15.05.88		Seized birds are kept at Alipore Zoo. Case lying pending.
	Birds	418 nos		31.05.88		Seized birds released in premises of Victoria Memorial Hall.
	Birds	419 nos.		16.07.88		Accused persons convicted and sentenced to R.I. for 1 month. Seized articles released in the Campus of Alipore Zoo.
	Birds	58 nos.		22.07.88		Seized birds are kept in Alipore zoo.
	Birds	51 nos.		21.11.88		Seized birds released in the Parmadan Sanctuary as per Court's Order
1989	Birds	82 nos		26.2.89		Seized birds released in the Bethuadahari Sanctuary as per Court's Order.
	Birds	22 nos		18.03.89		
	Birds	135 nos.		20.03.89		
	Birds	379 nos.		26.03.89		

LION SAFARI IN PURULIA DISTRICT

Creation of a Lion Safari in Purulia District in the State of West Bengal has been contemplated since long. A project for the above purpose has been drawn up with the primary intention of introducing the Asiatic lion in the foothills of Ajodhya in Purulia district and establishing a second home for the Asiatic lion in the wild with a view to ensuring its sustenance. A suitable site has also been selected in Srirampur Mouza in Bagmundi P.S. of Purulia District and site has been approved of by experts.

Creation of a Deer Park at Sreerampur, Purulia District

As a precursor to 'Lion Safari' it has been decided to set up a 'Deer Park' in first phase, at Srirampur in Matha Range of Purulia Division.

Objectives

- (i) To establish breeding and rearing centre for Barking deer, Hog deer and spotted deer.
- (ii) To release the increased deer population in the forest of Ajodhya hills to enrich the habitat in deer population and to preserve the natural habitat in consistent with the management programmes for protection of local fauna.
- (iii) To ensure ready and continuous source of food supply for Asiatic Lion of proposed Lion Safari to be established in the same location.
- (iv) To open up new avenues of recreational facilities and tourism consistent with the idea of development of tourism at Ajodhya hills.
- (v) To contribute to the advancement of environmental education and research.

NATIONAL PARKS AND SANCTUARIES IN INDIA

NAME OF STATE/U.T.	NATIONAL PARKS	SANTUARIES	TIGER RESERVE
Andaman & Nicobar Islands	6	94	-
Andhra Pradesh	-	15	1
Arunachal Pradesh	2	4	1
Assam	1	9	1
Bihar	1	14	1
Chandigarh	-	1	-
Delhi	-	1	-
Goa, Daman & Diu	1	3	-
Gujrat	4	12	-
Haryana	-	4	-
Jammu & Kashmir	3	12	-
Himachal Pradesh	2	28	-
Karnataka	5	18	1
Kerala	3	11	1
Madhya Pradesh	11	31	2
Maharashtra	4	12	1
Manipur	2	-	-
Meghalaya	2	3	-
Mizoram	-	1	-
Nagaland	-	4	-
Orissa	1	16	1
Punjab	-	5	-
Rajasthan	4	21	2
Sikkim	1	3	-
Tamil Nadu	2	10	1
Tripura	-	2	-
Uttar Pradesh	5	13	2
West Bengal	3	16	2
T O T A L :	63	363	17

TIGER RESERVES AT A GLANCE

No.	Name of reserve and biome types	Total area (sq.km)	Core area (sq.km)	No. of Tigers 1984/86
1.	BANDIPUR(Karnataka), Hilly mis- cellaneous forests of the western Ghat rain shadow.	690	335	53
2.	CORBETT (Uttar Pradesh), The Central foothills of the Himalayas with sal as the predominant species	520	320	89
3.	KANHA (Madhya Pradesh), The Central highlands of peninsular India, Extensive plateaus, rolling valleys between major hills - sal and mixed forest with bamboo	1,945	940	109
4.	MANAS (Assam), Eastern foothills of heavy rainfall with terai riverain reeds and swamps, semi-evergreen to evergreen forests	2,840	391	123
5.	MELGHAT (Maharashtra), Hilly deci- duous forest dominated by teak and bamboo	1,571	311	81
6.	PALAMAU (Bihar), Hilly and Undulating, Eastern Peninsular forest with an interesting association of sal and bamboo	930	200	62
7.	RANTHAMBHORE (Rajasthan), Hilly with a few small rolling valleys. The dry deciduous open forests of the	392	167	40
8.	SIMLIPAL (Orissa), Hilly moist miscellaneous forest-champ and sal of the East, with abundant perennial water	2,750	300	81
9.	SUNDERBANS (West Bengal), Tropical estuarine mangrove forests and other littoral vegetation	2,585	1,330	264
10.	PERIYAR (Kerala), Hilly moist deciduous Tropical wet ever-green and semi-ever green	777	350	44

No.	Name of reserve and biome types	Total area (sq.km)	Core area (sq.km)	No.of Tigers 1984/86
11.	SARISKA (Rajasthan), Hilly dry deciduous forest in the heart of Aravalis range with sandy valleys carrying scrubthorn and grasslands	800	498	41
12.	BUXA (West Bengal), Riverain, terai-bhabhar, read-swamps and semi-evergreen forest of the eastern foothills	745	313	15/25(1988)
13.	INDRAVATI (Madhya Pradesh), Moderately hilly with extensive rolling valleys, Tropical mixed moist deciduous forest with rich grasslands along the Indravati river	2,799	1,258	25
14.	NAGARJUNASAGAR (Andhra Pradesh) Rugged hills in the middle reaches of Krishna river with dry mixed deciduous forest	3,560	1,200	83
15.	NAMDAPHA (Arunachal Pradesh), Low level (200 m above MSL) riverain to alpine (4500 m above MSL) through moist deciduous and tropical wet evergreen	1,808	695	43
16.	DUDHWA (Uttar Pradesh)	811	643	80
17.	MUNDANTHURAI (Tamil Nadu)	800	570	8
Total :		26323	9821	1241

- Source ; 1. Conserving India's Natural Heritage, Samar Singh, 1986
2. Indian Society for Wildlife Research (ISWR) News, Part II, Vol. I, 1986-87
3. Wildlife in India, V.B. Saharia.
4. Statesman, February 10, 1988

TIGER POPULATION

S T A T E	TOTAL NO. OF TIGER	NO. OF TIGER IN TIGER RESERVE	
Andhra Pradesh	164	Nagarjuna Sagar	83
Arunachal Pradesh	219	Namdapha	43
Assam	376	Manas	123
Bihar	138	Palamau	62
Gujarat	9		
Haryana	1		
Karnataka	202	Bandipur	53
Kerala	89	Periyar	44
Madhya Pradesh	786	Kanha	109
		Indravati	25
Maharashtra	301	Melghat	81
Manipur	6		
Meghalaya	125		
Mizoram	33		
Nagaland	104		
Orissa	202	Simlipal	81
Rajasthan	96	Ranthambhore	40
		Sariska	41
Sikkim	2		
Tamil Nadu	97	Mundanthurai	8
Tripura	5		
Uttar Pradesh	698	Corbett	89
		Dudhwa	80
West Bengal	352	Sundarbans	264
		Buxa	15
T O T A L :	4,005		1241

REVENUE FROM MAJOR HEADS DURING 1976-77 TO 1987-88
(FOREST DIRECTORATE)

Y E A R	Timber & Poles	% age of Total	Firewood	% age of Total	Minor Forest Produce	% age of Total	Other Sources	% age of Total	Total
1976-77	545.32	69.07%	182.29	23.09%	32.57	4.12%	29.37	3.72%	789.55
1977-78	605.73	69.07%	202.85	23.13%	33.27	3.79%	35.15	4.01%	877.00
1978-79	569.82	67.38%	190.17	22.49%	32.22	3.81%	53.50	6.32%	845.71
1979-80	653.09	72.43%	167.82	18.61%	34.17	3.79%	46.64	5.17%	901.72
1980-81	921.20	74.57%	224.37	18.16%	27.73	2.24%	62.09	5.03%	1235.39
1981-82	1159.81	74.35%	303.35	19.45%	37.12	2.38%	59.64	3.82%	1559.92
1982-83	1516.64	78.77%	291.52	15.14%	33.88	1.76%	83.33	4.33%	1925.37
1983-84	1718.34	80.05%	286.86	13.36%	33.40	1.56%	108.05	5.03%	2146.65
1984-85	1705.34	80.78%	316.48	14.99%	28.00	1.33%	61.28	2.90%	2111.10
1985-86	2104.39	83.73%	278.47	11.08%	43.81	1.74%	86.58	3.44%	2513.25
1986-87	1684.36	83.22%	131.12	6.48%	44.59	2.20%	163.81	8.10%	2023.88
1987-88	2165.23	89.63%	91.40	3.78%	63.55	2.63%	95.67	3.96%	2415.85