# INDIA'S NATIONAL PARKS A Management Profile



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#### INTRODUCTION

The "Survey of National Parks and Sanctuaries" conducted by the HIPA, led to the compilation of baseline information on various parameters like legal status, flora and fauna, climate and geography, local use and pressures, offences and illegal activities, tourism, and many others, for 52 national parks and over 200 sanctuaries in India. This information was organised into a database on the basis of Questionnaire - I, which was sent to all the parks and sanctuaries in India in 1985. The questionnaire had 5 sections in which information was collected in a uniform format on 1. Legal Status, 2. Management Plans and Practices, and Pinancial Outlays, 3. Geographical, Biological, and Social Parameters, 4. Research and Education, and 5. Perceptions of the Park or Sanctuary Directors or officers in-charge, for a time period of 5 years between 1979 and 1984.

On the basis of the above mentioned database, the IIPA published a status report for 261 protected areas ("Management of National Parks and Sanctuaries in India: A Status Report", 1989, by Ashish Kothari, Pratibha Pande, Shekhar Singh, and Dilnavaz Variava), and highlighted the problems and pressures faced by them. The database is also being used to generate a series of directories on the national parks and sanctuaries, for each state/UT or a group of states/UT's in India. The first such directory on Himachal Pradesh has now been published and will shortly be followed by directories on Andaman and Nicobar Islands, Karnataka, Gujarat, and Uttar Pradesh.

#### Objectives of the Report

The publications mentioned above make use of only a part of the information available. For example, the perceptions regarding various aspects of the officers who were in-charge of these protected areas, have not been presented in any of the above mentioned reports. Also, the "Status Report" gives information only upto the state level. The current report seeks to present a more detailed and disaggregated (individual protected area level) analysis for 52 national parks for which information was available in the database, and makes public, in a tabular form, the entire database in relation to the above mentioned parks. At some point in the future, a similar exercise is proposed to be carried out for the 209 sanctuaries.

It is hoped that, apart from making available various data, this report may serve as a benchmark for comparing the future management status of these 52 parks.

#### Limitations of the Database

The information available in this database has not been independently verified in the field, and is based entirely on the questionnaires received from the parks. In some cases however, where errors in the information provided are quite obvious, they have been footnoted.

#### Tables

Unless otherwise mentioned, in all the tables presented in this report, a 'Y' indicates 'Yes', a 'N' indicates 'No', an 'l' indicates 'Irrelevant', and a blank space indicates that no information was available, or that the relevant figure has not been specified.

#### LIST OF ABBREVIATIONS WITH THEIR EXPANSIONS

ACF	Assistant Conservator of Porests
ADC	Additional District Commissioner
APR	April
ASSTT and Asstt.	Assistant
AUG	August
AWLW	Assistant Wildlife Warden
BZ	Buffer-zone
CCF	Chief Conservator of Forests
CF	Conservator of Forests
CWLW	Chief Wildlife Warden
CZ	Core-zone
DCF	Deputy Conservator of Forests
DEC	December
DEPT and Dept.	Department
DFO	Divisional Forest Officer
DIST	District
DPF	Demarcated Protected Forest
DT	Dated
FD	Forest Department
FEB	February
FG	Forest Guard
GOVT	Government
GOI	Government of India
HA and ha	Hectares
HQ	Headquarters
IPC	Indian Penal Code
JAN	January
kg	Kilogram(s)
km	Kilometre(s)
11811	Millimetre(s)
MAX	Maximum
MFP	Minor Forest Produce
MIN	Minimum
NP	National Park
NO.	Number
NOV	November
OCT	October
PF	Protected Forest
PWD	Public Works Department
RF	Reserve Forest
RO	Research Officer
RFO	Range Forest Officer
Rs.	Rupees

SEC and sec Section SEPT September sq km Square Kilometer(s)	
sq km Square Kilometer(s)	
TEMP Temperature	
UF Unclassified Forest	
UNIV University	
WL Wildlife	
WLPA Wildlife Protection Act, 19	2
WLW Wildlife Warden	

## GLOSSARY OF LOCAL/INDIAN TERMS WITH THEIR MEANINGS

Challan	Fine/Penalty
Chara	Fodder
Chowkidar	Watchman
Dakwala	Postman
Khansama	Cook
Jamadar or Zamadar	Sweeper
Mahavat or Mahout	Elephant Trainer
Mali	Gardener
Shikari	Hunter
VIDI	Grassland

#### HISTORICAL, PHYSICAL, AND GEOGRAPHICAL PROFILE

Data regarding geographical location and climate of the parks (For a listing of the 52 parks being analysed, along with their full names and the State/UT in which they are located, please see annexure - T) is presented in tables 1.1 to 1.4. Table 1.1 gives information regarding physical location ie; longitudes, latitudes, and district(s) within which each park is located, in addition to a legal history of these parks.

Out of 52 national parks (Table 1.2):-

#### Location

1. 13 parks reported that the <u>distance of the nearest town</u> from the park was <u>less than or equal to 10 km</u>. These were Saddle Peak (A&N), Bansda (GUJ), Marine (GUJ), Nagarhole (KAR), Periyar (KER), Sanjāy Gandhi (MAH), Keibul Lamjao (MAN), Madhav (MP), Satpura (MP), Van Vihar (MP), Keoladeo Ghana (RAJ), Guindy (TN), and Dudhwa (UP).

26 parks reported that the <u>distance of the nearest town</u> from the park was <u>greater than 10 km but less than or equal to 50 km</u>. These were Marine (A&N), Mount Harriet (A&N), Bhagwan Mahavir (GOA), Gir (GUJ), Velavadar (GUJ), Pin Valley (HP), Bandipur (KAR), Bannerghatta (KAR), Eravikulam (KER), Pench (MAH), Tadoba (MAH), Siroy (MAN), Bandhavgarh (MP), Fossil (MP), Kanger Ghati (MP), Panna (MP), Pench (MP), Simlipal (ORI), Desert (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Khangchendzonga (SIK), Corbett (UP), Nanda Devi (UP), Valley of Flowers (UP), and Sunderban (WB).

10 parks reported that the <u>distance of the nearest town</u> from the park was <u>greater than 50 km but less than or equal to 100 km</u>. These were Middle Button (A&N), North Button (A&N), South Button (A&N), Namdapha (ARU), Great Himalayan (HP), Kishtwar (J&K), Silent Valley (KER), Nawegaon (MAH), Kanha (MP), and Sanjay (MP).

1 park, Indravati (MP), reported that the distance of the nearest town from its boundary was greater than 100 km.

2 parks, Dachigam (J&K) and Hemis (J&K) did not provide information regarding distance of the park from the nearest town.

2. 9 parks reported that the <u>distance of the nearest railhead</u> from the park was <u>less than or equal to 10 km</u>. These were Bhagwan Mahavir (GOA), Bansda (GUJ), Gir (GUJ), Marine (GUJ), Nawegaon (MAH), Sanjay Gandhi (MAH), Van Vihar (MP), Keoladeo Ghana (RAJ) and Dudhwa (UP).

12 parks reported that the <u>distance of the nearest railhead</u> from the park was <u>greater than 10 km but less than or equal to 50 km</u>. These were Bannerghatta (KAR), Pench (MAH), Tadoba (MAH), Bandbavgarh (MP), Kanger Ghati (MP), Sanjay (MP), Simlipal (ORI), Desert (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Guindy (TN), and Corbett (UP).

11 parks reported that <u>the distance of the nearest railhead</u> from the park was greater than 50 km but less than or equal to 100 km. These ware Namdapha (ARU), Velavadar (GUJ), Great Himalayan (HP), Bandipur (KAR), Nagarhole (KAR), Silent Valley (KER), Fossil (MP), Madhav (MP), Banaa (MP), Pench (MP), and Satpura (MP).

5 parks reported that the <u>distance of the nearest railhead</u> from the park was greater than 100 km but less than or equal to 200 km. These were Eravikulam (KER), Periyar (KER), Indravati (MP), Kanha (MP), and Sunderban (WB).

14 parks reported that the <u>distance of the nearest railhead</u> from the park was <u>greater than 200 km</u>. These were Marine (A&N), Middle Bisthew (A&N), Mount Harriet (A&N), North Button (A&N), Saddle Peak (A&N), South Button (A&N), Pin Valley (HP), Dachigam (J&K), Kishtwar (J&K), Keibul Lamjao (MAN), Siroy (MAN), Khangchendzonga (SIK), Nanda Devi (UP), and Valley of Flowers (UP).

1 park, Hemis (J&K) did not provide information regarding distance of the park from the pearest railhead.

2, 2 parks reported that the <u>distance of the nearest airport</u> from the park was <u>less than or equal to 10 km</u>. These were Marine (GUJ), and Guindy (TN).

Derks reported that the <u>distance of the nearest airport</u> from the park was <u>greater than 10 km</u> but less than or <u>coual to 50 km</u>. These were Marine (A&N), Mount Harriet (A&N), Great Himalayan (HP), Dachigam (J&K), Banserghatta (KAR), Sanjay Gandhi (MAH), Keibul Lamjao (MAN), Van Vihar (MP), and Desert (RAJ).

13 parks reported that the <u>distance of the nearest airport</u> from the park was <u>greater than 50 km but less than or equal to 100 km</u>. These were Middle Button (A&N), North Button (A&N), South Button (A&N), Bhagwan Mahavir (GOA), Gir (GUJ), Velavadar (GUJ), Bandipur (KAR), Pench (MAH), Siroy (MAN), Fossil (MP), Panna (MP), Pench (MP), and Keoladeo Ghana (RAJ).

14 parks reported that the <u>distance of the nearest airport</u> from the park was <u>greater than 100 km but less than or equal to 200 km</u>. These were Saddle Peak (A&N), Namdapha (ARU), Eravikulam (KER), Periyar (KER), Silent Valley (KER), Nawegaon (MAH), Tadoba (MAH), Bandhavgarh (MP), Ranha (MP), Madhav (MP), Ranthambhore (RAJ), Sariska (RAJ), Corbett (MP), and Sunderban (WB).

13 parks reported that the <u>distance of the nearest airport</u> from the park was <u>greater than 200 km</u>. These were Bansda (GUJ), Pin Valley (HP), Eishtwar (J&K), Nagarhole (KAR), Indravati (MP), Kanger Ghati (MP), Samjay (MP), Satpura (MP), Simlipal (ORI), Khangchendzonga (SIK), Dudhwa UMP), Nanda Devi (UP), and Valley of Flowers (UP).

. Hemis (J&K) did not provide any information regarding distance from the nearest airport.

Table 1.3 gives information regarding altitudinal variation of the 52 parks being discussed.

#### Out of 52 national parks (Table - 1.4):-

#### Temperatures

4. <u>Average summer temperatures below or equal to 10° C</u> were not reported from any of the parks.

Average summer temperatures above 10° C but below or equal to 20° C were reported from 3 parks. These were Keibul Lamjao (MAN), Van Wikar (MP), and Khangchendzonga (SIK).

Average summer temperatures above 20° C but below or equal to 38° C were reported from 19 parks. These were Marine (A&N), Middle Buttan (A&N), Mount Harriet (A&N), North Button (A&N), Saddle Peak (A&N), South Button (A&N), Namdapha (ARU), Bhagwan Mahavir (GOA), Pin Valley (HP), Dachigam (J&K), Kishtwar (J&K), Bandipur (KAR), Nagarhole (KAR), Periyar (KER), Kanha (MP), Kanger Ghati (MP), Satpura (MP), Dudhwa (UP) and Sunderban (WB).

Average summer temperatures above 30° C but below or equal to 40° C were reported from 16 parks. These were Gir (GUJ), Velavadar. (GUJ), Bannerghatta (KAR), Silent Valley (KER), Nawegaon (MAH), Pench (MAH), Sanjay Gandhi (MAH), Tadoba (MAH), Bandhavgarh (MP), Fossil (MP), Indravati (MP), Hadhav (MP), Sanjay (MP), Simlipal (ORI), Ranthambhare (RAJ), and Guindy (TN).

Average summer temperatures above 40° C were reported from 6 parks, These were Bansda (GUJ), Panna (MP), Pench (MAH), Desert (RAJ), Sariska (RAJ), and Corbett (UP).

8 parks ie; Marine (GUJ), Great Himalayan (HP), Hemis (J&K), Eravikulam (KER), Siroy (MAN), Keoladeo Ghans (RAJ), Nanda Devi (UP), and Valley of Flowers (UP) did not give information regarding average temperatures during summers.

The maximum temperature recorded during summer was 50° C in Resert.

(RAJ). The <u>maximum average temperature</u> recorded <u>during summer was 48° C</u> in Corbett (UP).

5. Average winter temperatures below or equal to 10' C were reported from 12 parks. These were Bansda (GUJ), Pin Valley (HP), Dachigam (J&K), Kishtwar (J&K), Keibul Lamjao (MAN), Indravati (MP), Madhav (MP), Panna (MP), Desert (RAJ), Ranthambhore (RAJ), Khangchendzonga (SIK), and Corbett (UP).

Average winter temperatures above 10° C but below or equal to 20° S were reported from 15 parks. These were Gir (GUJ), Bandipur (KAR), Nagarhole (KAR), Periyar (KER), Pench (MAH), Bandhavgarh (MP), Fessil (MP), Kanha (MP), Kanger Ghati (MP), Pench (MP), Sanjay (MP), Satpara (MP), Van Vihar (MP), Simlipal (ORI), and Dudhwa (UP).

Average winter temperatures above 20° C but below or equal to 30° C were reported from 16 parks. These were Marine (A&N), Middle Botton (A&N), Mount Harriet (A&N), North Button (A&N), Saddle Peak (A&N), South Button (A&N), Bhagwan Mahavir (GOA), Velavadar (GUJ), Bannerghatta (KAR), Silent Valley (KER), Nawegaon (MAH), Sanjay Gandhi (MAH), Tadoba (MAH), Sariska (RAJ), Guindy (TN) and Sunderban (WB).

Average winter temperatures above 30° C were not reported from any of the parks.

9 parks ie; Namdapha (ARU), Marine (GUJ), Great Himalayan (HP), Hemis (J&K), Eravikulam (KER), Siroy (MAN), Keoladeo Ghana (RAJ), Nanda Devi (UP), and Valley of Flowers (UP) did not give information about average temperatures during winters.

The minimum temperature recorded <u>during winters was -40°</u> <u>C</u> in Hemis (J&K).

· . .\*

The <u>average minimum temperature</u> recorded <u>during winters was -5.5 C</u> in Pin Valley (HP).

#### Rainfall

6. <u>Average annual rainfall below or equal to 1000 mm</u> was reported from 13 parks. These were Gir (GUJ), Velavadar (GUJ), Hemis (J&K); Kishtwar (J&K), Bannerghatta (KAR), Fossil (MP), Madhav (MP), Sanjay (MP), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sanjay (MP), and Corbett (UP).

Average annual rainfall above 1000 mm but below or equal to 2000 mm was reported from 18 parks. These were Mount Harriet (A&N), Bansda (GUJ), Nagarhole (KAR), Nawegaon (MAH), Tadoba (MAH), Keibul Lamjao (MAN), Siroy (MAN). Bandhavgarh (MP), Indravati (MP), Kanha (MP), Kanger Ghati (MP), Panna (MP), Pench (MP), Van Vihar (MP), Simlipal (ORI), Guindy (TN), Dudhwa (UP) and Sunderban (WB).

Average annual rainfall above 2000 mm but below or equal to 3000 mm was reported from 4 parks. These were Periyar (KER), Silent Valley (KER), Sanjay Gandhi (MP), and Satpura (MP).

Average annual rainfall above 3000 mm was reported from 7 parks. These were Marine (A&N), Middle Button (A&N), North Button (A&N), Saddle Peak (A&N), South Button (A&N), Bhagwan Mahavir (GOA), and Khangchendzonga (SIK).

10 parks, Namdapha (ARU), Marine (GUJ), Great Himalayan (HP), Pin Valley (HP), Dachigam (J&K), Bandipur (KAR), Eravikulam (KER), Pench (MAH), Nanda Devi (UP) and Valley of Flowers (UP) did not provide information regarding average annual rainfall. Table - 1.1 (LBGAL HISTOPY, DISTRICT, AND LATITUDE AND LONGITUDE) -

	TRALL PROPAGA			**		**
SODE	OF THE PAEK	DISTRICT(S) -	LATITUDE		··LONGITUDE	
		THE PARK FALLS	FROM (RORTH)	TO (RORTH)	FROM (EAST)	TO (EAST)
					100	
MAX/X/MAR -	PF AND RF	ANDAKAR	11 '27" 30" -	11 46" .	-92-321 60=	92 45%
AAR/R/HID	27 '	ANDAMAR	12 16' 47"	12 90" 01"	93 01° 25°	93 02" 03
AAK/R/HOU	EF VIDE HOTIFICATION HO 59/G/635 DT 17-4-63	SOUTH ANDAMAN	11 40'	11 52* 30"	92 45'	92 48'
AAN/N/HOR	EF	ANDAMAR	12 18' 47"	12 90' 01"	93 04' 04"	93 04' 45
AAH/K/SAD	21	ARDAMAN	13 7'	13 12'	93	93 1 <sup>1</sup>
A&M/N/SOU	PF	ANDAHAN	12 13' 26"	12 13' 31"	93 01' 13"	93 01' 13
ARO/H/HAH	NANDAPHA EF BEFORE 1972. SANCTUARY FROM 1972 TILL 1983.		27 35'	27 39'	95 15°	96 <b>5</b> 8'
GOA/R/BEA	REVENUE LAND UPTO 1962, THEN UNDER FOREST DEPT	GOA				
GUJ/N/BAN	PRIVATE BESERVE OF EX-MAHARAJA OF	VALSAD	20	20	73 .	73
ALT IN LOTO	BARSDA STATE.		101	11 501	70 501	11 151
GUJ/R/GIR	PRIVATE BURTING RESERVE OF PRINCES OF JUNAGADH AND	12	20 40'	21 50' -	10 50	71 15'
	BARODA STATES TILL			12.2		
	1900. THEN USED	1			1.1	
	FOR LICK SHOWS.		· · · ·			
	TAKER OVER BY		1.11			
	FOREST DEPT AFTER					-
	MERGER OF STATES					
	IN 1948, DECLARED					
	-SANCTUARY IN 1975.					
GUJ/N/MAR	FISHING GROUND OF -	JAHRAGAR				
	ERSTWHILE JAMRAGAR					
	STATE (FOR PEARL					
	OYSTERS) AND OF					
	BARODA STATE (FOR					
	WINDOW-PANE OYSTERS .					
	ON OXHA SIDE)				v	
GOJ/N/VEL	TILL 1948, GRASS	BEAVEAGAR	22	22 7"	72	72 164
	VIBL OF BRSTWHILE	MARTIN PROVIDE				16 20
	BHAVRAGAR STATE					
	BULKES. THEN					
	RESERVED VIDI.					
	DECLARED SANCTUARY					
	NAMES AND ADDRESS OF A					

fit Coordinates were often not given upto seconds, and at times even minutes, for longitudes and latitudes.

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Table - 1.1 (...contd)

CODE		DISTRICT(S) WITHIN WHICH	LATITUDE		LONGITUDE	
		TER PARK FALLS	FROM (NORTH)	TO (BORTH)	FROM (EAST)	10 (EXST)
HP/N/GRE HP/N/PIN	UNLISTED UP AND DEF,	KULLO LANAUL AND	31 35'	32	77 15%	77 50'
	PASTURE LAND, VILLAGE LAND BEFORE NOTIFICATION	SPITI				
38X/8/DBC	PRIVATE HUNTING RESERVE BY LATE MABARAJA OF KASHMIE IR 1910. ALSO HAIRTAINED IT AS CATCHENT JOHE DOR HAIRTAN WATER RESORVOIR. VILLAGE RESORVOIR. VILLAGE RESORVOIR. VILLAGE RESORVOIR. VILLAGE RESORVOIR. VILLAGE ASTED UP10 1934. REVERTED ID STATE	SEDIAGAR	34 3'	34 5'	74 4'	74 5"
JEK/K/HEE	GUVT IN 1947. OPEN FOREST AREA TILL 1979	LEB-LADAXH				
JAR /N/ETS	UNDER FOREST DEPT		33 20"	24	75 40'	76 10'
KAR/R/BAN	PREVIOUSLY A - SANCTUARY		12 3' 30"		76 7'	76 52'
KAR/N/BANN	STATE (RESERVE) FOREST	EANGALOPE				
KAR/R/KAG	FOREST	MISORE	11 5"	12 15'	76 5"	76 25'
KER/K/REA	PREVIDUSLY A GAME SANCTURAY OF THE KANNAN DEVAN TEA ESTATES. KERALA GOVT TOOK OVER TH 1975		2		ŝ	
122/8/222	AEEAS ARGUED LAKE PERITAE WERE DECLARED AS WELLIKAMPETTT SARCTOARY IN 1934. IN 1950 FERITAR SARCTOARY WAS CONSTITUTED BY ADDING WEDLE OF PERITAR LAKE RESERVE, RATTERDOR VALLET, KORT PLATERD WAITES A VOTAL-OF 77700 EA.	IDUKKI	9 15.	9 40'	76 55*	77 25'

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		Table - 1.1			0)	
CODE	LEGAL HISTORY OF THE PARK	DISTRICT(S) WITHIN WHICH	LATITODE	8	LONGITUDE	1.00
		THE PARK FALLS	FROM (NORTH)	to (north)	FEON (EAST)	TO (EAST)
KER/R/SIL Hae/R/Raw	PREVIOUSLY RF	PALGEAT BHANDARA	11 4'	11 12'	76 23'	76 29'
MAH/R/PER MAH/N/SAE	RF 4719.52 HA PF 14.11 HA REVENUE LAND TRANSFERRED FEON	NAGPOR THANE, BOHBAY Soburban	21 31' 22" 19 8' 8"	21 44' 19 21'	79 7 <sup>1</sup> 29" 72 53 <sup>3</sup>	79 21 <u>* 20"</u> 72 58'
	AAREY HILK COLORY FO POREST DEPT 2075.07 HA. BORBAY MUNICIPAL FOREST 859.85 HA. PRIVATE INAMS ACQUIERD 1027.02 HA PRIVATE FORESTS ACQUIERD 173.33 HA					
KAH/R/TAD	GAME RESERVE DECLARED IN 1905 - SARCTUARY IN 1935	CHANDRAPOR	20 17'	20 24'	79 15'	79 24'
 MAN/R/KEI	RF 28-12-74	IMPHAL, BISHNUPUR	24 25'	24 32"	93 49"	93 53
HAR/R/SIR	UNCLASSIFIED FORESTS IN HANDS OF TRIBALS	UKHEUL	25 5'	'25 7'	94 27'	94 29 <sup>3</sup>
HP/K/BAN	RF, THOUGH EX-HULER EX-HULER OF REWA HAD SHOOTING PRIVILEGES OVER THE AREA BEFORE 1971	SHAHDOL, JABALPUR	23 30'	23 45'	80 581 -	81 7*
HP/H/FOS	Pener pervise 1731	MANDLA	23 41	23 18'	80 35 <sup>4</sup> .	80 40°
HP/N/IHD	MOSTLY RF FROM 1908 AND RF FROM 1948.	tanesaa.	18 51'	19 24	80 16' ···	80'24'
HP/K/KAR	EF SINCE 1879 25000 HA IN BANJAR VALLEY DECLARED SANCTUREY IN 1933, 30000 HA IN MATON	MARDLA, BALAGHA?	22 7'	22 27'	80 26*	81 3 <sup>1</sup>
	VALLEY DECLAPED SANCTUARY. KANHA NATIONAL PARX COTERMINOUS WITH SANCTUARY IN BANJAR VALLEY DECLARED IN 1955, EXTENDED IN 1952 AND 1970					
HP/R/KANG	12	BASTAR	18 45'	18 56' 30"	81 51' 30"	82 10'

CODE	LEGAL HISTORY	DISTRICT(S)	TRADO		LONGEYODE	1
	OP THE PARK	WITHIN WHICH THE PARK FALLS	PRON (NORTH)	to (rorth)	FROX (BAST)	to (east)
#2:/31/1000	PRIVATE RUNTING	SHIVPORI	24 50	25 55'	77 15'	78 30'
	RESERVE OF MAHARAJA OF GWALIOR PRIOR TO 1947	ä.	12			
HE /H/EAN	PARTLY SHOOTING RESERVE OP MARARJASS OP PANHA, CHNATTARPUR, AND BIJAMAR STATES. AREA OF 30787 HA DECLAPED SANCTUARY ON 8-7-53. CONCEIVED AS GANGAN SANCTUARY IN 1971. EXPANJOED IN 1975. AREA OP 3620 H ADDED OR 16-4-79. BF FOR LAST 100 YEAR	L	24 27" 3"	24 46' 8"	79 45°3"	80 8 <sup>7</sup> 4"
HP/B/SAN	HAJOR PORTION RF, SOME VILLAGE FORESTS	SIDHI, SARGEJA	23 30'	24	81 45'	82 451
HD/N/SAT	RF FOR OVER A CENTURY. SANCTUARY SINCE 1933. SEPARATED FROM BORI AND PACHARHI SANCTUARIES AND DECLARED RATIONAL PARK IM 1981	BÜSHANGABAD	22 20'	22 35'	78	78_30'
HP/K/VAN	NOSTLY GOVERNMENT LAND. SOME PRIVATE LAND ACQUIRED		23 13° 45°	23 14' 50 <sup>m</sup>	77 21' 30"	77 231 15
ORI/N/SIM RAJ/N/DES	RF	MAYURBEANJ JAISALMER, BAENER	20 17'	22 34'	85 40*	87 10'
RAJ/N/KEO	SHOOTING RESERVE OF BI-BULER OF BHARATPUR		27 7° 6"	27 12' 2"	77 29° 5°	77 33° 9"
BAJ/H/RAK	HUNTING RESERVE OF KING OF JAIPUR SARCTUARY DECLARED IN 1955 DECLARED TIGER RESERVE ON	SAMAI MADHOPUR	25 54'	26 124	76 23*	76 39'

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Table - 1.1 (...contd)

CODE	LEGAL HISTORY OF THE PARK	DISTRICT(S) WITHIN WHICH	LATITUDE		LONGITUDE	
	1.5 1.6 1	THE PARK PALLS	FROM (NORTH)	to (Borth)	FROM (EAST)	to (east)
RAJ/N/SAR	PRIVATE SHOOTING EBSERVE OF MAHARAJA OF ALMAR BEPORE FORMATION OF STATE GOVT DECLARED AS WL RESERVE IN 1955, RENOTIFIED IN 1958, 4 GIVER STATUS OF SANCTUART IN 1959	ADNAR	27 5**	27 33'	76 17'	76 34'
STR/A/KHA	PF	NORTH SLOCIN	27 30'	27 481	88 4!	88 35'
TR/R/GUI	RARLIER RAJ BERVAN POREST	MADRAS	505			
OP/N/COR	1.000	PAORI GARHWAL, RAINITAL	29 25'	29 40'	78 45'	79. 5
UP/X/DCD	RESERVED SINCE 1879 BF IN 1937 PART DECLARED SANCTUARY IN 1958, RITEMDED IN 1968		28 21"	28 42'	80 31'	80 56*
UP/R/RAK	CIVIL LAND 52405 HA PANCHAYAT FORESTS 4892 HA EF 5736 HA	CHAMOLI				
OP/N/VAL	RF (1410 EA) CIVIL LAND (7310 EA)	CHANOLI				
B/W/SUN	NF.	24-PARGANAS	21 30"	21 50*	88 51.	89

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Table - 1.2 (DISTANCES FROM NEAREST TOWN, RAILHEAD, AND AIRPORT)

CODE	NEAREST TOWN	DISTANCE FROM NEAREST	NEAREST RAILHEAD	DISTANCE FROM NEAREST	NEAREST AIRPORT	DISTANC FROM NEAREST
		TOWN		RAILHEAD		ATRPORT
		(KM)		(RM)		(KM)
A&N/N/MAR	PORT BLAIR	28	CALCUTTA	1200	PORT BLAIR	24
A&N/N/MID	PORT BLAIR	70	CALCUTTA	1200	PORT BLAIR	70
A&N/N/MOU	PORT BLAIR	15	CALCUITA	1200	PORT BLAIR	20
A&N/N/NOR	PORT BLAIR	70	CALCUTTA	1200	PORT BLAIR	70
A&N/N/SAD	DIGLIPUR	5	CALCUTTA	950	PORT BLAIR	200
A&N/N/SOU	PORT BLAIR	70	CALCUTTA	1200	PORT BLAIR	70
ARU/N/NAM	MARGHRTTA	62	LEDO '	56	DIBRUGARH	140
GOA/N/BHA	PONDA	29	COLLEM	5	DABOLIM	80
GUJ/N/BAN	WAGHAT	3	WAGHAI	3	BARODA	249
GUJ/N/GIR	VERAVAL	42	SASAN	õ	KESHOD	80
GUJ/N/MAR	JAMNAGAR	7	JAMNAGAR	7	JAMNAGAR	7
GUJ/N/VEL	VALLABHIPUR	32	DHOLA JN	52	BHAVNAGAR	72
HP/N/GRE	KULLU	60	JOGINDER NAGAR	100	BHUNTAR	50
HP/N/PIN	TABO	- 20	KALKA	475	SHIMLA	400
J&K/N/DAC	11000	20	JAMMU	315	SRINAGAR .	32
J&K/N/HEM			W 2 HORAN		PART AND IS REAL REAL	
J&K/N/KIS	KISHTWAR	60	JAMMU	245	JAMMU	250
KAR/N/BAN	GUNDLAPET	20	NANJANGAD	60	MYSORE	80
KAR/N/BANN	ANEKAL	19	BANGALORE	25	BANGALORE	28
KAR/N/NAG	KUTTA	7	MYSORE	100	BANGALORE	230
KER/N/ERA	MUNNAR	27	ERNAKULAM	160	COCHIN	165
KER/N/PER	KUMILY	4	KOTTAYAM	114	COCHIN	200
KER/N/SIL	MANNARGHAT	57	PALGHAT	99	COIMBATORE	155
MAH/N/NAW	GONDIA	100	DEOLGAON	1	NAGPUR	130
MAH/N/PEN	RAMTEK	32	RAMTEK	30	NAGPUR	80
	100000000			1917	(SONEGAON)	
MAH/N/SAN	BORIVALI	3	BORIVALI	3	SANTA CRUZ	15
					(BOMBAY)	
MAH/N/TAD	CHANDRAPUR	45	CHANDRAPUR	45	SONEGAON (NAGPUR)	198
MAN/N/KEI	MOTRANG	10	DIMAPUR	265	JULIHAL	45
MAN/N/SIR	UKHRUL	15	DIMAPUR	300	IMPHAL	90
MP/N/BAN	UMARIA	35	UMARIA	35	JABALPUR	160
MP/N/FOS	SHAHPURA	13	JABALPUR	87	JABALPUR,	87
MP/N/IND	JADGALPUR	186	JADGALPUR	186	RAIPUR	486
MP/N/KAN	MANDLA	70	GONDIA .	120	JABALPUR	170
MP/N/KANG	JAGDALPUR	30	JAGDALPUR	30	RATPUR	330
MP/N/MAD	SHIVPURI	6	JHANSI	100	GWALIOR	116
MP/N/PAN	PANNA	20	SATNA	90	KHAJURAHO	57
MP/N/PEN	DEORI	50	NAGPUR	90	NAGPUR	90
MP/N/SAN	SIDHI	60	JOVA	20	KHAJURAHO	270
MP/N/SAT	PACHMARHI	0	PIPARIA	55	BHOPAL	210
MP/N/VAN	BHOPAL	3	BHOPAL -	7	BHOPAL	12
ORI/N/SIM	BARIPADA	17	BARIPADA	17	CALCUITA	240
RAJ/N/DES	JAISALMER	45	JAISALMER	45	JAISALMER (DEFENSE)	45

## Table - 1.2 (...contd)

CODE	NEAREST TOWN	DISTANCE FROM NEAREST TOWN	NEAREST RAILHEAD	DISTANCE FROM NEAREST RAILHEAD	NEAREST AIRPORT	BUSTAN FROM NEARE! ABRPOR
RAJ/N/KEO	BHARATPUR	2	BHARATPUR	8	AGRA	55
RAJ/N/RAN	SAWAI MADHOPUR	14	SAWAI MADHOPUR	14	JAIFUR	132
RAJ/N/SAR	ALWAR	36	ALWAR	36	JAIPUR	110
SIK/N/KHA	CHUNGTHANG	20	NEW JALPAIGURI (W. BENGAL)	221	BAGDOGRA (W. BENGAL)	222
TN/N/GUI	MADRAS	0	MADRAS	12	MADRAS	6
UP/N/COR	RAMNAGAR	50	RAMNAGAR	50	PHOOLBAGH -	130
UP/N/DUD	PALIA	10	DUDHWA	0	LUCKNOW	260
UP/N/NAN	JOSHIMATH	23	RISHIKESH	276	DEHRADUN	295
UP/N/VAL	JOSHIMATH	33	RISHIKESH	290	DEHRADUN	330
WB/N/SUN	GOSABA	50	CANNING	106	DUM DUM	166

## Table - 1.3 (HIGHEST AND LOWEST POINTS)

CODE	HIGHEST POINT	LOWEST POINT	Ċ,	CODE	HIGHEST POINT	LOWEST POINT
A&N/N/MAR	100	0		MAN/N/KET	788	758
A&N/N/MID	25 -	0		MAN/N/SIR	2553	1938
A&N/N/MOU	430	30		MP/N/BAN	807	450
A&N/N/NOR	46	0		MP/N/FOS	760	720
A&N/N/SAD	732	0		MP/N/IND	607	211
A&N/N/SOU	45	0		MP/N/KAN	877	506
ARU/N/NAM	4500	200		MP/N/KANG	791	338
GOA/N/BHA		75		MP/N/MAD	480	360
- GUJ/N/BAN	330	173		MP/N/PAN	538	200
GUJ/N/GIR	531	152 -		MP/N/PEN		
GUJ/N/MAR		0		MP/N/SAN	980	380
GUJ/N/VEL	50	10		MP/N/SAT	1352	360
HP/N/GRE	6140	1500		MP/N/VAN	565	500
HP/N/PIN		3300		ORI/N/SIM	1150	50
J&E/N/DAC	4289	1629		RAJ/N/DES	*	
J&K/N/HEM				RAJ/N/KEO	175	172
J&K/N/KIS	7100	1700		RAJ/N/RAN	500	215
KAR/N/BAN	1450	780		RAJ/N/SAR	777	400
KAR/N/BANN	1050	850		SIK/N/KHA	8585	1829
KAR/N/NAG	933	760		TN/N/GUI	60	50
KER/N/ERA	2695	2000		UP/N/COR	3423	1000
KER/N/PER	2019	900:		UP/N/DUD	182	150
KER/N/SIL	3015	1000		UP/N/NAN	7817	2000
MAH/N/NAW	481	275		UP/N/VAL	6500	3200
MAH/N/PEN	574	377		WB/N/SUN	9	0
MAH/N/SAN	486	30.				
MAH/N/TAD	355	286				

## Table - 1.4 (TEMPERATURES AND RAIMPALL)

CODE	SUMMER WORTES	AVERAGE Summer Texp.	BOTTEST DAYS IR	NAL. TEMP. BECORDED	BAINY MONTHS	AVERAGE BAINFALL	WINTER MORTRS		COLDEST DAYS IN	NIR. TEMP. Recorded
LAH/N/HAR	FEB TO MAY	29C	APRIL	31	JUNE TO OCT	3180	ROV TO JAR	23.5C	JAR	22
MAN/N/HID	FEB TO MAY	29C	APRIL	31	JUNE TO OCT	3180 **	NOV TO JAN	24C	JAN	22
A&R/N/HOU	JAN TO APPIL	25.9C	APRIL	32	APRIL TO SEPT	1541		220	DEC	21
A&N/N/HOR	PEB TO MAY	29C	APRIL	31	JUNE TO OCT	3180	NOW TO JAN	23.5C	JAR	22
	- <b>İİ</b>		5557A-17	31		11122		10000		225
AAR/N/SAD	MARCE TO MAY	29C	APRIL	31	HAY TO NOV	3100	NOV TO JAN	220	JAN	19
MAN/R/SOU	PES TO HAY	29C	APRIL	31	JUNE TO OCT	3180	HEN TO JAN	23.50	JAN	22
ARU/R/RAH	JUKE TO SEPT	30C	JURE/AUGUST	35	HAY TO AUG		DEC TO FEB		DEC-JAN	10
www.utura	SAUP IA PPLI	300	2002/202021	33	HAI IV AVO	##	004 14 100		NDA-AUN	14
GOA/N/BEA	MARCH TO OCT	390	MARCH	37	JUKE TO SEPT	5500	NOV TO FEB	23C	DEC	15
GUJ/R/BAR	MARCE TO JUNE	42.20	HAY	44	JULY TO OCT	1600	NOV TO FEB	100?	JAR	20
GUJ/N/GIR	MARCH TO JUNE	39.30	HAY	42	JUNE TO OCT	1000	NOV TO FEB	14.40	BEC-JAN	8
GUJ/H/HAR	FEB TO JUNE	enson i	MAY		JUNE TO SEPT		DEC TO JAN		JAX	
GUJ/R/VEL	MARCH TO JUNE	35C	NAY	42	JUNE TO SEPT	600	NOV TO FEE	22C	JAS	12
HP/N/GEE	MAY TO JUNE		JUNE		JULY TO SEPT		NOV TO FEB		JAN	
HP/R/PIR	HAY TO SEPT	26.8C	JULY-ADG	27			NOV 70 MARCH	-5.5C	JAN-FEB	-20
JAK/R/DAC	JURE TO AUG	290	JULY	32	MARCH TO MAY		DEC TO FEB	2.40	JAK	-8
JAK/R/REM	JUNE TO AUG		JUNE TO AUG	25		76	DEC TO PEB		JAN	-40
J&K/H/KIS	MAY TO ADG	230	JUNE	35	JAN 20 APRIL	120	NOV TO APRIL	3.50	JAN	-7
KAR/N/BAN	FEB TO APRIL	24C	APRIL	30	JUNE TO HOV		NOV TO FEB	170	DEC TO JAN	
KAR/R/BANN	JAR TO HAY		APRIL TO HAT	35	JULY TO OCT	700	DEC TO FEB	25C	SEPT-OCT	25
KAR/N/NAG	FRE TO APRIL	300	APRIL	32	MAY TO BEC	1650	OCT TO DEC	14C	DEC	12
KER/H/ERA	FEB TO HAY	1945	MARCH TO APRIL		JUNE TO NOV	122722	ROT TO JAN	0.000	NOW	10
KBR/R/PBR	MAR TO JUNE	27C	JUNE	35	JUNE TO NOV	2500	NOV TO PEB	200	10000	200
KEE/N/SIL	MAR TO MAY	35C	APR-MAY	42 **	HAY/AUG-SEPT	2500	NONE	22C	JAN	19
HAH/H/HAR	PEB TO JUNE	36.82C	HAY	47	JULY TO AUG	1906	NOV TO FEB	25,560	DEC	17
vin te mos	APRIL TO JUNE	33C	MAY	48	TIND BA ODDD		-	200	DEC	1
HAB/R/PER HAR/R/SAN	APRIL TO HAY,	>300	HAT	40	JUNE TO SEPT. JUNE TO SEPT	2600	DEC TO FEB ROV TO FEB	(300	JAN	4
inter of the	OCT	1000	nni -	**	SOUP IN SEL	2040	BOY TO EPP	1300	UTUI .	
HAR/N/TAD	FEB TO JUNE	40C	HAY	47	JUKE TO SEPT	1500	OCT TO JAR	300	JAN	12
MAN/N/IND	APRIL TO SEPT	13.70	JULY	41 .	WAY TO SEPT	1281	OCT TO HARCH	6.86C	JAN	0
HAN/N/SIR	MAY TO SEPT	74.10	DODI	34	JUNE TO SEPT	1224	OCT TO APRIL	0.000	404	3
MP/N/RAR	MARCH TO JUNE	31.80	JUKE -	42	JUNE TO SEPT	1170	DEC TO FEB	170	JAN	ě.
MP/R/FOS	MARCH TO JUNE	34.5C	NAY	44	JUNE TO OCT	300	NOT TO FEB	17.5C	JAR	8
N2/K/IRD	MARCH TO JUNE	40C	HAY-JUNE	48	JULY TO OCT	1778	ROV TO FEB	100	JAN	2
NP/R/KAR	MARCH TO JURE	300	MAY	42	JULY TO OCT	1500	HOV TO FEE	16C	DEC	2
HP/R/KARG	AFRIL TO MAY	300	MAY	40	JUNE TO OCT	1600	NOV TO MARCH	180	JAN	10
NP/N/MAD	APRIL TO JUNE	380	MAY	45	JULY TO OCT	896	NOV TO MARCE	80	JAN	0
KP/R/PAN	APRIL TO JUNE	40.3C	JUNE-JULY	43	JUNE TO SEPT	1225	HOY TO HARCH	6.5C	JAR	4
MP/R/PER	APRIL TO JUNE	40.3C	MAY	43	JULY TO SEPT	1398	NOV TO FEB	110	DEC	4
NP/K/SAE	MARCE TO JUNE	35C	MAY	45	JULY TO OCT	950	NOV TO FEB	16C	JAN	7
NP/N/SAT	MARCE TO JUNE		HAY-JURE	36	JUNE TO SEPT	2265	NOV TO FEB	16.11C	DEC	2
MP/H/VAE	MARCH TO JUNE	17.44C	MAY	41	JULY TO OCT	1172	NOV TO FEB	14.60	JAN	11
ORI/N/SIN	MARCE TO JUNE	40C	HAY	45	JUNE TO OCT	2000	NOV TO JAN	120	DBC	-5

CODE	SUMMER MORTHS	AVERAGE SUMER TEMP.	HOTTEST DAYS In	NAI. TEMP. BECORDED	RAINY MORTRS	AVERAGE BAINFALL		NORTHS	AVERAGE WINTER TEMP.	COLDEST DAYS IN	HIR. THEP. RECORDED
				**							
BAJ/W/DES	APRIL TO JULY	44C	JUKE	50	JULY TO SEPT	150	NOV TO	FEB	7.5C	FEB	-5
EAJ/K/KEO	APRIL TO JUNE		HAY-JURE	49	JUNE TO SEPT	650	NOW TO	FER		JAN	2
EAJ/R/EAN	MARCH TO JULY	36C	HAY	45	AUG TO OCT	800	HOY TO	112122	10C	JAR	2
RAJ/N/SAR	MARCH TO JUNE	41.5C	JURE	43	JULY TO SEPT	650	BOV TO	1.7.7.7.7	250	DEC-JAN	ō
					0.0000000000000000000000000000000000000				13		11
SIX/#/KHA	HARCH TO MAY	13.60	JULY TO AUGUST	18	JUNE TO AUG	3180	HOV TO	FRB	-3.270	JAN-FEB	-4 '
TH/R/GUI	MAR-JUN	40C	KAT	42	JUL-DEC	1300	DBC-JA		220	DEC	-4 '
	Contraction and Contraction	**		83							
UP/N/COR	MARCH TO JUNE	45C	JUNE	48	JULY TO OCT	302 *	BOV TO	FER	8C	JAN-FEB	2
OP/X/BOD	APRIL TO JUNE	300	JUNE	45	JULY TO SEPT	1500	BOV TO		15C	JAN	9
UP/#/#AN	JUNE TO ADG	•			JURE TO SEPT		OCT TO			DEC-JAN	
UP/M/VAL	JUNE-JULY			÷2	JULY TO SEPT		OCT TO				
WB/X/SER	MARCH TO JUNE	300	MAY	33	JULY TO SEPT	1920	DEC TO		25C	JAR	15

Table - 1.4 (...contd)

\*\* This information, which was received by us from the park authorities, and were not independently verified by us before being fer into the computer, is most probably not correct.

#### LEGAL STATUS

#### Legal Steps

The process leading upto the formation of a national park, according to the Wildlife Protection Act, 1972, involves the declaration of the intention to constitute a national park (initial notification), followed by the identification of existing rights, if any, in the area intended to be declared a national park, the admission/rejection of claims if any, and finally the settlement/extinguishment of these rights. After all rights have been settled/extinguishment of these rights. After all rights have been settled/extinguishment, the area can be constituted into a national park (final notification). The Questionnaire - I, divided this process (from initial till final notification) into 12 legal steps as per the Act, and information was collected on the basis of these steps. The following observations can be made after a perusal of Tables 2.1, 2.2, and 2.3, regarding the Legal status (number of steps completed) of the areas for which an intention had been declared to constitute a national park till 1.4.1984.

Of the 52 national parks listed in table - 2.3, final notifications had been issued for only 21 (see table - 2.3, column - 4). Of these:-

- 1 Only 1 park, Namdapha (ARU), reported that all the required legal steps had been completed. Therefore, there was only 1 park out of a total of 52, which had a clear legal status.
- There were 5 parks ie; Gir, Eravikulam (KER), Madhav (MP), Guindy ('TN) and Nanda Devi (UP), for which none of the steps were reported to be incomplete, but were either irrelevant, or information regarding them was not available.

None of the parks listed above were wholly comprised of

reserve forests. Only 2 reported an existence of local rights within their boundaries. These were Gir (GUJ) and Guindy (TN). The rest did not report the existence of any local rights, which may explain why some of the steps are marked as irrelevant.

 There were 6 parks ie; Nagarhole (KAR), Keibul Lamjao (MAN), Kanger Ghati (MP), Khangchendzonga (SIK), Dudhwa (UP), and Sunderban (WB),

which were wholly comprised of reserve forests , but some or all of the legal steps required in between the intention and final notification for the declaration of a park had not been completed.

None of the above listed parks reported the existence of any local rights and therefore, the non-completion of the required legal steps is only a technical problem. There was a discrepancy in the data for Khangchendzonga (SIK), because step number seven,

<sup>\*</sup> The formation of a reserve forest, as per the Indian Forest Act, 1927, also involves the extinguishment of rights in the area which before it is finally notified a reserve forest. The Wildlife Protection Act, 1972, however, does not state that those areas which were reserve forests earlier, are exempt from its provisions before finally being notified as national parks.

namely, the appointment of a settlement officer, was reported to have been completed before either the initial or the final notification had been issued. None of the steps except the initial and final notification had been completed for Nagarhole (KAR), and Kanger Ghati (MP).

Although the legal status of these parks is not valid as per The Wildlife Protection Act, 1972, their status is not threatened since all local rights have been extinguished during the formation of reserve forests earlier.

4. There were 9 parks ie; Bansda (GUJ), Marine (GUJ), Velavadar (GUJ), Dachigam (J&K), Hemis (J&K), Van Vihar (MP), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), and Valley of Flowers (UP), which were partially wholly comprised of reserve forests and had reported the non-completion of some of the required legal steps before being finally notified.

Of the above mentioned parks, 4 ie; Bansda (GUJ), Marine (GUJ), Hemis (J&K), and Ranthambhore (RAJ) reported the existence of local rights within their boundaries, which were yet to be extinguished.

- Of the 31 parks yet to be finally notified :-
- There were 10 parks, which were wholly comprised of reserve forests. These were Middle Button (A&N), Mount Harriet (A&N), North Button (A&N), Bandipur (KAR), Silent Valley (KER), Bandhavgarb (MP), Kanha (MP), Pench (MP), Satpura (MP), and Simlipal (ORI).

Of the above mentioned parks, 5 ie; Bandipur (KAE), Bandhavgarh (MP), Kanha (MP), Satpura (MP), and Simlipal (ORI) reported the existence of local rights. Only 2 parks ie; Satpura (MP), and Simlipal (ORI) reported the completion of more steps than step - 1. For the rest of the parks there was either no information available, or the required steps had not yet been taken.

 21 parks were partially comprised of reserve forests. These were, Marine (A&N), Saddle Peak (A&N), South Button (A&N), Bhagwan Mahavir (GOA), Great Himalayan (HP), Pin Valley (HP), Kishtwar (J&K), Bannerghatta (KAR), Periyar (KER); Nawegaon (MAH), Pench (MAH), Sanjay Gandhi (MAH), Tadoba (MAH), Siroy (MAN), Fossil (MP), Indravati (MP), Panna (MP), Sanjay (MP), Desert (RAJ), Sariska (RAJ), and Corbett (UP).

Local rights existed in 14 of the above listed parks. these were Marine (A&N), Great Himalayan (HP), Pin Valley (HP), Kishtwar (J&K), Periyar (KER), Nawegaon (MAH), Pench (MAH), Tadoba (MAH); Fossil (MP), Indravati (MP), Panna (MP), Sanjay (MP), Sariska (RAJ), and Corbett (UP).

The existence of local rights was not reported from any of the other parks, Only 10 of the above listed parks had reported the completion of more steps than step - 1. The following table lists out their names and the steps which have been completed:-

	Name of the Park	Steps	Completed
1.	Bhagwan Mahavir National Park, Goa.	2 &	.7
2.	Pin Valley National Park, Himachal Pradesh.	7	
3.	Kishtwar National Park, Jammu and Kashmir.	2 &	3
4.	Bannerghatta National Park, Karnataka.	2 &	9
5.	Sanjay Gandhi National Park	9,	10 & 11
6,	Siroy National Park, Manipur,	7	×.
7.	Panna National Park, Madhya Pradesh.	2 &	3
8.	Sanjay National Park, Madhya Pradesh.	2	
9.	Desert National Park, Rajasthan.	2 &	3
. 10.	Sariska National Park, Rajasthan.	. 2 &	3

For the rest of the parks there was either no information available, or the required steps, apart from the initial notification, had not yet been taken.

 Corbett (UP) was notified as Hailey National Park under an earlier act. However it can not be legally recognised as a park under the Wildlife Protection Act, 1972, because the rights in the area have not yet been extinguished.

## Table - 2.1 (LEGAL STEPS - I)

	CODE	STEP	DATE STEP		STEP TWO	DATE STEP		STEP THREE	DATE STEP		100.000	DATE STEP	0.00	1.	DATE STEP	
	A&N/N/MAR	Y	24/05	/83		1	1		1	1		1	1		1	./
	A&N/N/MID	Y	13/11	/79	N	1	1	N	1	1	N	1	1	N	1	1
	A&N/N/MOU	Y	13/11	/79	N	1	1	N	1	1	N	1	1	N	1	1
	A&N/N/NOR	Y	13/11	/79	N	1	1	N	1	1	N	1	1	N	1	1
	A&N/N/SAD	Y	13/11	/79	N	1	1	N	1	1	N	1	1	N	1	1
	A&N/N/SOU	Y	13/11			1	1	N	1	1	N	1	1	N	1	1
	ARU/N/NAM	Y		1	Y	1	1	Y	1	1	Y	1	1	Y	1	1
	GOA/N/BHA	Y	13/04		Y	16/03	3/84		1	1	N	1	1	- T	1	1
	GUJ/N/BAN	Y	08/10		Y	02/12		Y	02/0	2/78		1	1	N	1	1
	GUJ/N/GIR	Y	21/12	174	Y	21/13		e	1	1		1	1	500	1	1
	GUJ/N/MAR	Ŷ	1		Y	30/12		Y	30/1		N	1	1	N	1	1
	GUJ/N/VEL	Ŷ	06/03		Y	09/0		Y	29/1		Y	12/3		Y	31/12	2/5
	HP/N/GRE	Ŷ	02/06		N	1	1	N	1	1	N	1	1	N	1	1
	HP/N/PIN	Ŷ	09/01	A		1	1		1	1	N	1	1	N	1	1
	J&K/N/DAC	Ŷ	04/02		Y	28/08			1	1		1	1		1	1
	J&K/N/HEM	Ŷ	04/02	1.000	1.77.1	1	1	Y	1	1	Y	1	1	Y	1	1
	J&K/N/KIS	Ŷ	04/02	Sec. 199	Y	1	1	Y	1	1	N	1	1	N	1	1
í	KAR/N/BAN	Ŷ	05/06	A		1	1	N	1	1	N	1	1	N	1	1
	KAR/N/BANN	Ŷ	25/09		Y	1	1	.,	1	1		1	1		1	1
	KAR/N/NAG	Ŷ	1		N	1	1	N	1	1	N	',	1	N	1	1
	KER/N/ERA	Ŷ	28/02	178		1	1		1	1.	14	1	1	4.4	1	1
	KER/N/PER	Ŷ		1		1	1		1	1		1	1		1	1
	KER/N/SIL	Y	100000	1	N	2	1	N	1	1	N	1	1	N	1	1
	MAH/N/NAW	Ŷ	22/11	•		1	1	N	1	1	N	1	'	N	1	1
	MAH/N/PEN	Y	22/11	1		1	1	N	1	1	N	1	1	N	1	1
	MAH/N/SAN	Ŷ	04/02			1	2	N	1	1	N	1	1	N	1	1
Ì	MAH/N/TAD	Ŷ	31/03			1	1		1	1	**	1	1		1	1
į	MAN/N/KEI	Y	21/11	1	Y	01/08	6/76	Y	07/1	0/76	Y	18/0	1/77	Y	18/0	1/72
	MAN/N/SIR	Ŷ	28/11	<ul> <li>A. 100</li> </ul>	Ŷ	15/10		N	1	1	N	1	1	Ň	1	1
	MP/N/BAN	Ŷ	23/03		77.2	1	1	N	1	1	N	1	1	N	1	2
	MP/N/FOS	Y	17/06	e. – – – – – – – – – – – – – – – – – – –		1	1	N	1	1	N	1	1	N	1	1
	MP/N/IND	Y	12/05		033	2	1	N	1	1	N	1	1	N	1	9
	MP/N/KAN	Ŷ	17/12			2	1	N	1	1	N	1	1	N	1	1
	MP/N/KANG	Y	1		N	1	1	N	1	1	N	1	1	N	1	1
	MP/N/MAD	Ŷ	01/01			1	1		1	1		1	1		1	2
	MP/N/PAN	Ŷ	17/10		Y	1	2	Y	1	1	N	1	1	N	1	2
	MP/N/PEN	Y	01/03	A		1	1	N	1	1	N	1	1	N	1	1
	MP/N/SAN	Ŷ	23/09			13/0	7/84	N	1	1	N	1	1	N	1	2
	MP/N/SAT	Ŷ	second Storage	1	Ŷ	1	1	Y	1	1	**	1	1	14	1	1
	MP/N/VAN	Ŷ	27/07	#		16/09		Ŷ	02/1	1/82	v	12/0	1/83	Y	12/0	1/83
	ORI/N/SIM	Ŷ	06/08			10/11		Ŷ	22/1		Ň	1	1	N	1	1
	RAJ/N/DES	Ŷ	08/05		Ŷ	08/01		Ŷ	08/0		N	1	1	N	1	5
	RAJ/N/KEO	Ŷ	10/03		Ŷ	/	/01	Ŷ	/	/	Y	1	1	Y	',	1
	RAJ/N/RAN	Ŷ		1	N	1	1	N	1	1	N	',	1	N	',	4
	RAJ/N/SAR	Ŷ	27/08		Y	27/09		Y	04/0			',	1	N	1	3
	B ST STORY ACCR. AND MR 4.			1 2 2	-	- A 1 / O 4	100		01101	00 00		1	1	2.4		1

Table - 2.1 (...contd)

CODE	STEP ONE	DATE (		STEP TWO	DATE STEP		STEP THREE	DATE STEP		STEP FOUR	DATE STEP			DATE STEP	
SIK/N/KHA	Y	26/08	/77	N	1	1	N	1	1	N	1	1	N	1	1
TN/N/GUI	Y	1	1	Y	23/06	5/77		1	1		1	1		1	1
UP/N/COR	Y	1	1.		1	1		1	1		1	1		1	1
UP/N/DUD	Y	17/05	/76	Y	01/0	7/76	Y	14/1	0/76	Y	14/10	0/76	Y	14/1	3/76
UP/N/NAN	Y	18/08	/80	Y	1	1	Y	1	1	Y	1	1	Y	1	1
UP/N/VAL	Y	01/01	/81	Y	1	1	Y	1	1	Y	1	1	Y	1	1
WB/N/SUN	Y	06/06	/78		1	1	STC .	1	1		/	1	Y	19/0	1/84

Table - 2.2 (LEGAL STEPS - II)

2

CODE	STEP	DATE STEP		STEP SEVEN	DATE	OF 7	STEP EIGHT	DATE STEP	OF 8	STEP	DATE STEP	OF 9	STEP TEN	DATE	OF 10
A&N/N/MAR		1	1		/	/		/	/		/	1		1	1
A&N/N/MID	N	1	1	N	1	1	I	1	1	N	1	1	N	1	1
A&N/N/MOU	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
A&N/N/NOR	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
A&N/N/SAD	N	1	1	N	1	1	N	1	1	N	1	1	N N	1	1
A&N/N/SOU	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
ARU/N/NAM	Y	1	1	Y	1	1	Y	1	1	Y	1	1	Y	1	1
GOA/N/BHA	(m)	1	1	Y	1	1	N	1	1	N	1	1	N	1	7
GUJ/N/BAN	N	1	1	N	1	1	N	1	7	N	1	1	N	1	1
GUJ/N/GIR		1	1		1	1		1	1		1	1		1	1
GUJ/N/MAR	Y	20/0	7/82	Y	30/1	2/80	N	1	1	N	1	1	N	1	1
GUJ/N/VEL	N	1	1	N	1	1	N	1	1	N	1	1		1	1
HP/N/GRE	N	1	1	N	1	2	N	1	1	N	1	1	N N	1	1
HP/N/PIN	N	1	1	Y	1	1	N	1	1	N	1	1	N	1	1
J&K/N/DAC		1	1	~	1	1	N	1	1	N	1	1 .		1	T
J&K/N/HEM	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
J&K/N/KIS	N	1	1	N	1	1	N	1	1	N	1	1	N	1	2
KAR/N/BAN	N	1	1	N	1	1	N	1	1	N	1	1	N	1	2
KAR/N/BANN		',	1		',	1		1	1	Y	1	1	N	1.	5
KAR/N/NAG	N	',	'	N	'	'	N	'	1	Ň	1	1	N	1	1
KER/N/ERA	**	1	1	19	1	1	19	1	1		1	1		1	2
KER/N/PER		1	1		1	1		',	1		1	1		1	1
KER/N/SIL	N	1	1	N	1	1	N	1	1	N	1	1	N	2	1
MAH/N/NAW	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
MAH/N/PEN	N	1	1	N	1	1	N	1	1	N	1	1	N	1	2
MAH/N/SAN	N	1	1	N	1	1	NN	1	1	N Y	1	1	NY	1	1
MAH/N/TAD		1	1		1	1		1	1		1	1		1	1
MAN/N/KEI	Y	18/0	1/77	Y	29/1	1/75	Y	18/0	2/77	Y	22/0	2/77	Y	23/0	6/7
MAN/N/SIR	N	1	1	Ŷ	25/1				1	N	1	1	N	1	1

Table - 2.2 (...contd)

	CODE	STEP SIX	DATE STEP		STEP SEVEN		OF 7	STEP EIGHT	DATE STEP			DATE STEP		STEP TEN	DATE STEP	
	MP/N/BAN	N	1	/	N	/	1	N	/	1	N	1	1	N	1	1
	MP/N/FOS	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	MP/N/IND	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	MP/N/KAN	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	MP/N/KANG	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	MP/N/MAD	050	1	1	353	1	1	- C.	1	1	255	1	1	21	1	1
	MP/N/PAN	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	MP/N/PEN	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	MP/N/SAN	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	MP/N/SAT		1	1	Y	1	1	10	1	1		1	1		1	1 .
	MP/N/VAN	Y	1	1		1	1	N	1	1		1	1	Y	24/1:	1/81
	ORI/N/SIM	N	1	1	Y	23/0	2/82	N	1	1	N	1	1	N	1	1
	RAJ/N/DES	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	RAJ/N/KEO	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	RAJ/N/RAN	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	RAJ/N/SAR	N	1	1	N	1	1	N	1	1	N	1	1	N	1	1
	SIK/N/KHA	N	1	1	Y	22/0	3/76	N	1	1	N	1	1	N	1	1
	TN/N/GUI		1	1		1	1		1	1		1	1		1	1
	UP/N/COR		1	1		1	1		1	1		1	1		1	1
	UP/N/DUD	I	1	1.	N	1	1	N	1	1	N	1	1	N	1	1
÷.	UP/N/NAN		1	1	Y	1	1	I	1	1	II	1	1	I	1	1
	UP/N/VAL	N	1	1		1	1	I	1	1	I	1	1	I	1	1
	WB/N/SUN		1	1		1	1		1	1		1	1		1	1

## Table - 2.3 (LEGAL STEPS - III)

STEP DATE OF STEP DATE OF REMARKS

ELEVEN STEP 11 TWELVE STEP 12

CODE

A&N/N/MAR		1	1	N		1	1	NOTIFICATION NO 314/83/CF/WL/43-VOL 1
A&N/N/MID	N	1	1	N		1	1	
A&N/N/MOU	N	1	1	N		1	1	
A&N/N/NOR	N	1	1	N		1	1	
A&N/N/SAD	N	1	1	N		1	1	
A&N/N/SOU	N	1	1	N		1	1	NOTIFICATION NO CF/HQ112(G)/2
ARU/N/NAM	Y	1	1	Y	22	1	1	5 101 HOM
GOA/N/BHA	N	1	1	N		1	1	SANCTUARY FIRST DECLARED UNDER INDIAN FOREST ACT 1927, IN 1967, THEN REDECLARED ON 27-9-1982 (BUFFER ZONE OF NATIONAL PARK?)

CODE       STEP       DATE OF       STEP       DATE OF       REMARKS         GUJ/N/GIR       N       / / Y       09/04/79 NO CLAIMS PREFERED         GUJ/N/GIR       / / Y       21/05/75 ABOVE STEPS REFER TO ORIGINAL AREA OF         126501.7 HA. AREA OF 14711.3 HA ADDED ON       126501.7 HA. AREA OF 14711.3 HA ADDED ON         NOTIFICATION ON 12-7-78. POOSIBLE THAT       N 3-9-76 TO         NOTIFICATION ON 12-7-78. FOOSIBLE THAT       NOTIFICATION ON 12-7-78. FOOSIBLE THAT         GUJ/N/MAR       Y       24/12/81 Y       20/07/82         GUJ/N/VEL       N       / / Y       21/07/76       STEPS ABOVE REFER TO ORIGINALLY         DECLARED AREA OF 1624.23 HA. DECLARAD ON       26-06-80,ORLY HAS DECLARATION OF INTERN       AREA OF 1824.23 HA. DECLARAD ON         26-06-80,ORLY HAS DECLARATION NO FSTM       2276/C OF 1951. NP NOTIFICATION NO 833-06/ST       DECLARED NO 303-06/ST         JAK/N/DAC       / Y       Y       28/08/83 SANCTUARY DECLARATION ACT 1978       JAK/N/HEM         N       / / N       / /       N       / /       EAE/N/ AREA OF THE SERVE FOREST         JAK/N/HEM       N       / / Y       Y       16/03/83       ENTITICATION NO 303-06/ST         JAK/N/BAN       N       / / N       / /       ENTITICATION NO 303-06/ST       EAE/N/EAE/N/EAE/N					Table	- 2.	3 (.	contd)
126501.7 HA. AREA OF 14711.3 HA ADDED ON 16-6-74 TO SANCTUARY, ON 3-9-76 TO NATIONAL PARK. PROCLAMATION BY COLLECTOR FOR THIS ISSUED ON 6-10-76. FINAL NOTIFICATION ON 12-7-78. POSSIELE THAT C2=NP AND BZ=SANCTUARY         GUJ/N/VEL N       / / Y       21/07/76 STEPS ABOVE REFER TO ORIGINALLY DECLARED AREA OF 1783.88 HA. ADDITIONAL AREA OF 1624.23 HA, DECLARED ON 26-06-80,ONLY HAS DECLARED ON 26-06-80,ONLY HAS DECLARED ON 26-06-80,ONLY HAS DECLARED ON 276/C OF 1951. NP NOTIFICATION NO FST// OF 1981. COLLECTOR'S PROCLAMATHS NOTIFICATION NO IST// OF 1981. COLLECTOR'S PROCLAMATHS NOTIFICATION NO IST// OF 1981. COLLECTOR'S PROCLAMATHS NOTIFICATION NO 303-06/ST         J&K/N/HEM N       / / Y       / UNDER J&K WL PROTECTION ACT 1978         J&K/N/BAN N       / N       / Y         J&K/N/BAN N       / Y       / UNDER J&K WL PROTECTION ACT 1978         J&K/N/BAN N       / N       / Y         VER/N/BAN N       / Y       16/03/83 ENTITE AREA PREVIOUSLY A RESERVE FOREST, DURING THE CONSTITUTION OF WHICH ALL THE NECESSARY STEPS HAD BEEN HAR N/NAG         VER/N/ERA       / Y       / PREVIOUSLY A GAME SANCTUARY OF THE KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/FER       / / Y       / PREVIOUSLY A GAME SANCTUARY OF THE KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/FER       / / Y       / PREVIOUSLY A GAME SANCTUARY OF THE KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/FER       / / Y       / / WHOLE AREA A R	CODE	THE REPORT OF THE PARTY OF						REMARKS
MOTIFICATION ON 12-7-78. POSSIBLE THAT CZ=NP AND BZ=SANCTUARY         GUJ/N/VEL       N       / Y       20/07/82         GUJ/N/VEL       N       / Y       21/07/76 STEPS ABOVE REFER TO ORIGINALLY DECLARED AREA OF 1783.88 HA. ADDITIONAL AREA OF 1624.23 HA, DECLARED ON 26-06-80,ONLY HAS DECLARATION OF INFEM         HP/N/GRE       N       / / N       / /         BEK/N/DAC       / / Y       28/08/83 SANCTUARY DECLARATION STATE ORDER NO 276/C OF 1951. NP NOTIFICATION NO FST/: OF 1981. COLLECTOR'S PROCLAMATIS NOTIFICATION NO 303-06/ST         J&K/N/KIS       N       / / N       / /         J&K/N/KIS       N       / / N       / /         J&K/N/KIS       N       / / N       / /         J&K/N/BAN       N       / / N       / /         J&K/N/BAN       / / Y       / / URDER J&K WL PROTECTION ACT 1978         J&K/N/BAN       / / Y       / / LIREADY RESERVE FOREST         KAR/N/BAN       / / Y       / / IREADY RESERVE FOREST         KAR/N/NAG       / / Y       / / PREVIOUSLY A GAME SANCTUARY OF THE KAR/N/NAG		N	11	1	ү Ү			ABOVE STEPS REFER TO ORIGINAL AREA OF 126501.7 HA. AREA OF 14711.3 HA ADDED ON 16-6-74 TO SANCTUARY, ON 3-9-76 TO
GUJ/N/VEL       N       / / Y       21/07/76 STEPS ABOVE REFER TO ORIGINALLY DECLARED AREA OF 1783.88 HA. ADDITIONAL AREA OF 1624.23 HA, DECLARED ON 26-06-80, ONLY HAS DECLARATION OF INTERN         HP/N/GRE       N       / / N       / / HP/N/PIN       N       / / Y       28/08/83 SANCTUARY DECLARATION OF INTERN         HP/N/GRE       N       / / N       / / Y       28/08/83 SANCTUARY DECLARATION STATE ORDER NO 276/C OF 1951. NP NOTIFICATION NO JSSP/2 OF 1981. OOLLECTOR'S PROCLAMATINN NOTIFICATION NO 303-06/ST         J&K/N/HEM       N       / / Y       / / Y       / / UNDER J&K WL PROTECTION ACT 1978         J&K/N/BAN       / / N       / / N       /       / Y         J&K/N/BAN       / / N       / Y       / Y       Infloated y RESERVE FOREST         KAR/N/BAN       / / N       / Y       Y       Infloated y RESERVE FOREST         KAR/N/BAN       / / Y       Y       Infloated y RESERVE FOREST         KAR/N/NAG       / / Y       Y       Infloated y RESERVE FOREST         VER/N/ERA       / / Y       Y       Infloated y RESERVE FOREST         VER/N/ERA       / / Y       Y       Infloated y RESERVE FOREST AD BEEN TAKEN         VER/N/ERA       / / Y       Y       Infloated y RESERVE FOREST AD DECLARED SANCTUARY.         KER/N/FER       / / Y       / Y       / PREVIOUS								NOTIFICATION ON 12-7-78. POSSIBLE THAT
HP/N/GRE       N       /       N       26-06-80, ONLY HAS DECLARAD ON 26-06-80, ONLY HAS DECLARATION OF INTERN         HP/N/FIN       N       /       N       /       1         HP/N/FIN       N       /       N       /       1         J&K/N/DAC       /       Y       28/08/83       SANCTUARY DECLARATION STATE ORDER NO 276/C OF 1951. NP NOTIFICATION NO FSTP/2         OF       1981.       COLLECTOR'S       PROCLAMATIS         NOTIFICATION NO 303-06/ST       Y       Y       /         J&K/N/HEM       N       /       Y       /         J&K/N/HEM       N       /       Y       /       UNDER J&K WL PROTECTION ACT 1978         J&K/N/HEM       N       /       Y       /       UNDER J&K WL PROTECTION ACT 1978         J&K/N/KIS       N       /       N       /       /       NATHEADY RESERVE FOREST         KAR/N/BAN       N       /       N       /       /       NATHEADY RESERVE FOREST         KAR/N/BAN       N       /       N       /       NATHEADY RESERVE FOREST       NATHEADY RESERVE         KER/N/AG       N       /       Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE       FOREST ACT 1976 AND DECLARED <td< td=""><td></td><td></td><td></td><td></td><td></td><td>20/0</td><td>7/82</td><td></td></td<>						20/0	7/82	
HP/N/PIN       N       / / N       / /         J&K/N/DAC       / / Y       28/08/83       SANCTUARY DECLARATION STATE ORDER NO 276/C OF 1951. NP NOTIFICATION NO FST// OF 1981. COLLECTOR'S PROCLAMATES NOTIFICATION NO 303-06/ST         J&K/N/HEM       N       / / Y       / UNDER J&K WL PROTECTION ACT 1978         J&K/N/HEM       N       / / N       / /         J&K/N/HEM       N       / / Y       / UNDER J&K WL PROTECTION ACT 1978         J&K/N/KIS       N       / / N       / /         KAR/N/BAN       N       / / N       / /         KAR/N/BAN       / / N       / / N       / /         KAR/N/MAG       N       / / N       / /         KAR/N/BAN       / / Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST, DURING THE CONSTITUTION OF WHICH ALL THE NECESSARY STEPS HAD BEEN TAKEN         VER/N/ERA       / / Y       / / PREVIOUSLY A GAME SANCTUARY OF THE KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/PER       / /       / / ORIGINALLY DECLARED UNDER TRAVANCORE FOREST ACT II OF 06-10-68         KER/N/SIL       N       / /       / WHOLE AREA A RESERVED POREST, THEREFORE ABOVE STEPS NOT CONSIDERED NECESSARY         MAH/N/PEN       N       / / N       / /         MAH/N/PEN       N       / N	GUJ/N/VEL	N	/	/	¥	21/0	7/76	DECLARED AREA OF 1783.88 HA. ADDITIONAL AREA OF 1624.23 HA, DECLARED ON
SER/N/DRC       / / Y       / Z5/06/63       SMANDARY DECLARATION STATE CODEN NO FSER/2         OF       1981.       COLLECTOR'S       PROCLAMATIS         J&K/N/HEM       N       / Y       / UNDER J&K WL PROTECTION ACT 1978         J&K/N/HEM       N       / / N       / /         KAR/N/BAN       N       / / N       / /         KAR/N/AG       N       / / N       / /         KAR/N/AG       N       / / Y       If(03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST         KAR/N/NAG       N       / / Y       If(03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST         VER/N/ERA       / / Y       Y       / PREVIOUSLY A GAME SANCTUARY OF THE KAREN       EXAMPAN DEVANTER COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARE		N	1	1	N	1	1	
SER/N/DRC       / / Y       / Z5/06/63       SMANDARY DECLARATION STATE CODEN NO FSER/2         OF       1981.       COLLECTOR'S       PROCLAMATIS         J&K/N/HEM       N       / Y       / UNDER J&K WL PROTECTION ACT 1978         J&K/N/HEM       N       / / N       / /         KAR/N/BAN       N       / / N       / /         KAR/N/AG       N       / / N       / /         KAR/N/AG       N       / / Y       If(03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST         KAR/N/NAG       N       / / Y       If(03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST         VER/N/ERA       / / Y       Y       / PREVIOUSLY A GAME SANCTUARY OF THE KAREN       EXAMPAN DEVANTER COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARE		N	1	1	N	1	1	a 2127 171 191
J&K/N/HEM       N       / / Y       / / UNDER J&K WL PROTECTION ACT 1978         J&K/N/KIS       N       / / N       / /         KAR/N/BAN       N       / / N       / /         KAR/N/BAN       N       / / N       / /         KAR/N/BANN       N       / / N       / /         KAR/N/BANN       N       / / N       / /         KAR/N/BANN       N       / / Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST.         KAR/N/BANN       N       / / Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST.         KER/N/BAN       N       / / Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST.         VER/N/ERA       / / Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST.       FOREST, DURING THE CONSTITUTION OF WHICH ALL THE NECESSARY STEPS HAD BEEN TAKEN         VER/N/ERA       / / Y       / / PREVIOUSLY A GAME SANCTUARY OF THE KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/PER       / / Y       / / ORIGINALLY DECLARED UNDER TRAVANCORE FOREST ACT II OF 06-10-68         KER/N/SIL       N       / / / WHOLE AREA A RESERVED FOREST, THEREFORE ABOVE STEPS NOT CONSIDERED NECESSARY         MAH/N/NAW       N       / / N       / /         MAH/N/PEN       N	J&K/N/DAC		/	1	X	28/0	8/83	276/C OF 1951. NP NOTIFICATION NO FST/2 OF 1981. OOLLECTOR'S PROCLAMATIC
J&K/N/KIS       N       / / N       / /         KAR/N/BAN       N       / / N       / /         KAR/N/BAN       N       / / N       / /         KAR/N/BAN       N       / / N       / /         KAR/N/BANN       N       / / N       / /         KAR/N/BANN       N       / / N       / /         KAR/N/BANN       N       / / Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE         FOREST, DURING THE CONSTITUTION OF       WHICH ALL THE NECESSARY STEPS HAD BEEN       TAKEN         VER/N/ERA       / / Y       / / PREVIOUSLY A GAME SANCTUARY OF THE         KER/N/PER       / / Y       / / PREVIOUSLY A GAME SANCTUARY OF THE         KER/N/PER       / / Y       / / PREVIOUSLY A GAME SANCTUARY.         KER/N/PER       / / Y       / ORIGINALLY DECLARED UNDER TRAVANCORE         FOREST ACT II OF 06-10-68       FOREST ACT II OF 06-10-68         KER/N/SIL       N       / / WHOLE AREA A RESERVED FOREST, THEREFORE ABOVE STEPS NOT CONSIDERED NECESSARY         MAH/N/NAW       N       / / N       / /         MAH/N/PEN       N       / / N       / /         MAH/N/PEN       N       / / N       / /         MAH/N/PEN       N       / / N       / /     <	J&K/N/HEM	N	1	1	Y	1	1	
KAR/N/NAG       N       /       Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST, DURING THE CONSTITUTION OF WHICH ALL THE NECESSARY STEPS HAD BEEN TAKEN         VER/N/ERA       /       Y       /       PREVIOUSLY A GAME SANCTUARY OF THE KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/PER       /       /       ORIGINALLY DECLARED UNDER TRAVANCORE FOREST ACT II OF 06-10-68         KER/N/SIL       N       /       /       /         MAH/N/NAW       N       /       N       /         MAH/N/PEN       N       /       N       /			1	1	N		1	
KAR/N/NAG       N       / / Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST, DURING THE CONSTITUTION OF WHICH ALL THE NECESSARY STEPS HAD BEEN TAKEN         VER/N/ERA       / / Y       / / PREVIOUSLY A GAME SANCTUARY OF THE KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/PER       / /       / / ORIGINALLY DECLARED UNDER TRAVANCORE FOREST ACT II OF 06-10-68         KER/N/SIL       N       / /       / / WHOLE AREA A RESERVED FOREST, THEREFORE ABOVE STEPS NOT CONSIDERED NECESSARY         MAH/N/NAW       N       / / N       / / N       / UNCLEAR WHETHER AREA WAS INITIALLY DECLARED A SANCTUARY OR NP	KAR/N/BAN	N	1	1	N	1	1	ALREADY RESERVE FOREST
KAR/N/NAG       N       / / Y       16/03/83       ENTIRE AREA PREVIOUSLY A RESERVE FOREST, DURING THE CONSTITUTION OF WHICH ALL THE NECESSARY STEPS HAD BEEN TAKEN         VER/N/ERA       / / Y       / / PREVIOUSLY A GAME SANCTUARY OF THE KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/PER       / /       / / ORIGINALLY DECLARED UNDER TRAVANCORE FOREST ACT II OF 06-10-68         KER/N/SIL       N       / /       / / WHOLE AREA A RESERVED FOREST, THEREFORE ABOVE STEPS NOT CONSIDERED NECESSARY         MAH/N/NAW       N       / / N       / / N       / UNCLEAR WHETHER AREA WAS INITIALLY DECLARED A SANCTUARY OR NP	KAR/N/BANN	N	1	1	N	1	1	
KER/N/PER       /       /       KERALA GOVT. IN 1975 AND DECLARED SANCTUARY.         KER/N/PER       /       /       ORIGINALLY DECLARED UNDER TRAVANCORE FOREST ACT II OF 06-10-68         KER/N/SIL       N       /       /       /         MAH/N/NAW       N       /       N       /         MAH/N/PEN       N       /       N       /         MAH/N/PEN       N       /       N       /	KAR/N/NAG	N	7	1	Y	16/0	3/83	FOREST, DURING THE CONSTITUTION OF WHICH ALL THE NECESSARY STEPS HAD BEEN
KER/N/PER       / /       / /       ORIGINALLY DECLARED UNDER TRAVANCORE FOREST ACT II OF 06-10-68         KER/N/SIL       N       / /       / /       WHOLE AREA A RESERVED FOREST, THEREFORE ABOVE STEPS NOT CONSIDERED NECESSARY         MAH/N/NAW       N       / /       N       / /         MAH/N/PEN       N       / /       N       / /         DECLARED A SANCTUARY OR NP       DECLARED A SANCTUARY OR NP       N	VER/N/ERA		1	/	Y	/	/	KANNAN DEVAN TEA COMPANY, TAKEN OVER BY KERALA GOVT. IN 1975 AND DECLARED
KER/N/SIL       N       / /       / /       WHOLE AREA A RESERVED FOREST, THEREFORE ABOVE STEPS NOT CONSIDERED NECESSARY         MAH/N/NAW       N       / /       N       / /         MAH/N/PEN       N       / /       N       / /         MAH/N/PEN       N       / /       N       / /         DECLARED A SANCTUARY OR NP       NP       NP       NP	KER/N/PER		/	1		1	1	ORIGINALLY DECLARED UNDER TRAVANCORE
MAH/N/NAW N // N // MAH/N/PEN N // N // UNCLEAR WHETHER AREA WAS INITIALLY DECLARED A SANCTUARY OR NP	KER/N/SIL	N	/	1		1	1	WHOLE AREA A RESERVED FOREST, THEREFORE
MAH/N/PEN N // N // UNCLEAR WHETHER AREA WAS INITIALLY DECLARED A SANCTUARY OR NP	MAH/N/NAW	N	1	1	N	1	1	THE PERSON STORE STORES AND ADDRESS OF
	MAH/N/PEN	N	1	1		1	1	
	MAH/N/SAN	Y	1	1	N	1	1	

Table = 2.3 (...contd)

ê				Table	- 2,	3 (.	contd)
CODE	STEP ELEVEN	DATE STEP		STEP TWELVE	100000000	1000 C	REMARKS
<sup>J</sup> MAH/N/TAD		/	/		1	1	(ALL ENTRIES WRITTEN AS 'N.A') DECLARATION UNDER SECTION 3(1) OF MADHYA PRADESH NATIONAL PARKS ACT OF 1955
MAN/N/KEI	N	1	1	Y	05/0	4/77	
MAN/N/SIR	N	1	1	N	1		
MP/N/BAN	N.	1	1	N	1	1	INITIAL DECLARATION UNDER MP NATIONAL PARKS ACT OF 1955
MP/N/FOS	N	1	1	N	1	1	
MP/N/IND	N	1	1	N	1	1	
MP/N/KAN	N	1		N	',	',	WHOLE AREA A RESERVE FOREST
MP/N/KANG	N	1	1	Y	22/0	0100	MINIS MEET A RESILEVE POREST
	14	1	5	Y	01/0		
MP/N/MAD	N	1	9	N	1000	1000	NO LAND YET ACQUIRED
MP/N/PAN	5.7 m	1	',			'	
MP/N/PEN	N	/	/	N	/	/	SANCTUARY DECLARATION NO. F-15/11/77 10(3). NATIONAL PARE NOTIFICATION NO 5-1582/10/(2)
MP/N/SAN	N	1	1	N	1	1	
MP/N/SAT	55M	1	1	N	1.5.2	1	
MP/N/VAN		1	1	Y	18/0		
ORI/N/SIM	N	7	1	Ñ	1. The second second second second second second second second second second second second second second second	1	SEEMS THAT CORE ZONE IS NATIONAL PARK AND BUFFER ZONE IS SANCTUARY. OF 65 REVENUE VILLAGES INSIDE, ACTION HAS BEEN TAKEN TO ACQUIRE AND SHIFT 9 OUTSIDE.
RAJ/N/DES	N	/	/	N		/	STEPS 2 & 3 DATED DIFFERENTLY FOR AREA FALLING IN BARMER DIST AND JAISALMER DIST. DATES FOR FORMER AS GIVEN ABOVE, DATE FOR LATTER IS 8-7-81 (BOTH STEPS)
RAJ/N/KEO	N	/	/	Ŷ	21/0	8/81	DECLARED SANCTUARY UNDER SEC. 5 RAJASTHAN WILD ANIMALS AND BIRDS PROTECTION ACT OF 1951. NO CLAIMS FILED BY ANYBODY, SO STEPS 7 TO 11 NOT REGUIRED
RAJ/N/RAN	N	/	/	Y	01/1	1/80	SANCTUARY DECLARATION UNDER SEC 5 OF RAJASTHAN WILD ANIMAL AND BIRD PROTECTION ACT OF 1951
RAJ/N/SAR	N	/	/	N	/	/	SARISKA IS A TIGER RESERVE OF 80000 HA WITH SANCTUARY 49200 HA OF WHICH NP IS 27380 HA. REST 30800 HA TO BE DECLARED SANCTUARY. SANCTUARY DECLARED IN 1958, TIGER RESERVE ON 1-4-79. COLLECTOR APPARENTLY ISSUED PROCLAMATION ON 2 SEPARATE OCCASIONS: 27-9-82 & 27-1-83

## Table - 2.3 (...contd)

CODE	STEP ELEVEN	DATE STEP		STEP TWELVE	and the second second	DF 12	REMARKS
SIK/N/KHA	N	/	/	Y	26/08/	77	THE INTENTION AND FINAL NOTIFICATION ARE ON THE SAME DATE WHILE SETTLEMENT OFFICER WAS APPOINTED (STEP 7) BEFORE THE INTENTION WAS DECLARED. IT IS NOT SHOWN TO BE A SANCTUARY EARLIER AND AS SUCH THIS DOES NOT MAKE SENSE. EARLIER RESERVE FOREST. NO RIGHTS.
TN/N/GUI UP/N/COR		1	1	Y	04/09/	78	FORMED IN 1959 ? (ALL STEPS GIVEN AS 'N.A.')
UP/N/DUD	I	1	1	Y	01/02/	77	STEPS 6 & 11 'I' SINCE NO CLAIM WAS ADMITTED AND NO APPEAL ALLOWED
UP/N/NAN	I	1	1	Y	06/09/	/82	
UP/N/VAL	I	1	1	Y	06/09/		
WB/N/SUN		1	1	Y	04/05/		· .

#### Alteration of Boundaries

After the initial notification in which the intention to constitute a national park is declared, the collector(s) of the district(s) in which the park is situated, may, either delete certain portions from the intended boundary of the park, or add portions which were not notified initially. This may be due to several reasons: it may not be desirable or possible to extinguish rights in an area, or it may be desirable that a certain area be added to the park due to its natural wealth. Out of the 18 national parks listed in table - 3:-

- 5 parks reported an addition to their initially notified area. These were, Gir (GUJ), Velavadar (GUJ), Nagarhole (KAR), Corbett (UP), and Bandhavgarh (MP).
- 1 park, Marine (GUJ), reported a deletion from its initially notified area.
- 2 parks reported both addition to and deletion from their initially notified area. These were, Bansda (GUJ), and Bandipur (KAR).

#### Non-completion of Acquisition

In some cases, due to the non-completion of acquisition procedures after the initial notification, the park management is not in full control of the area intended to be declared a national park. Such a situation was reported by 10 out of the 18 national parks listed in table - 3. These were, Velavadar (GUJ), Pin Valley (HP), Kishtwar (J&K), Periyar (KER), Sanjay Gandhi (MAH), Bandhavgarh (MP), Panna (MP), Desert (RAJ), Ranthambhore (RAJ), and Sariska (RAJ). In the case of Velavadar (GUJ), the area not acquired was also the area added to the park.

## Table - 3 (ALTERATION OF BOUNDARIES)

CODE	ORIGINAL AREA IN HECTARES	AREA IN	IN DECIMACO	REASON FOR ADDITION OF AREA	AREA DELETED IN HECTARES	REASON FOR DELETION OF AREA	AREA NOT ACQUIRED IN HECTARES	REASON FOR AREA NOT BEING ACQUIRED	ACTION TAKEN TO GET CONTROL OF AREAS NOT YET UNDER MANAGEMENT OF PARK AUTHORITIES
GUO/N/BAN*	608.44	2399.44	1791.00	AREA RICH IN WILDLIFE	50.76	CULTIVATION AREA	0.00		
GUJ/N/GIR*	126501.70	141213.15	14711.30	TO INCREASE SANCTUARY AREA			0.00		
GUJ/N/MAR*	23721.06	16289.00	0.00		3157.77	SALT WORKS ALONG COAST		2 LEASE AREAS OF CALCARIOUS SAND WITH DIGVIJAY CEMENT CO.: WILL BE RECOVERED IN 1985	
GUJ/N/VEL	1783.89	3408.11	1624.23				1624.23		
HP/N/PIN	182500.00	182500.00	0.00		0.00		182500.00	SETTLEMENT NOT YET DONE	RS 4.5 LAKHS SET ASIDE BY GOVT OF INDIA FOR SETTLEMENT OF RIGHTS IN THE NP
									DURING CURRENT FINANCIAL YEAR: ADC, LANAUL AND SPITI HAS BEEN ASKED TO TAKE IMMEDIATE NECESSARY ACTION
J&K/N/K1S	40000.00	40000.00	0.00		0.00		9000.00		9000 HA STILL UNDER CONTROL OF FOREST DEPT, BEING WORKED BY JUK FOREST
									CORPORATION AND FOREST LESSEES: REQUESTED TO HAND OVER
KAR/N/BAN	87420.00	86573.00	17621.00	ADDED AFTER EDUCATING LOCALS ON IMPORTANCE ON NP		OUTER FRINGES USED FOR FIREWOOD, TIMBER, GRAZING	0.00		REERAMBADI N-E EXT. AREA 2079HA RECENTLY INCLUDED IN NP NOT YET HANDED OVER FULLY BY KARNATAKA FD TO NP MANAGEMENT. KARNATAKA FD HEAD HAS ORDERED HANDING OVER AREA IN CORRESPONDENCE WITH LOCAL CONSERVATOR OF FORESTS.
KAR/N/BANN	10427.00	10434.82	7.82		0.00		0.00		
KAR/N/NAS	28416.00	57155.00 2		FOR BETTER PROTECTION OF ML	0.00		0.00		
KER/N/PER	77700.00	77700.00	0.00		0.00		32.71	54.17 HA OF CARDANDH PLANTATIONS IN CZ: 21.36 HA ACDUIRED, REST 32.71 UNDER PROCESS OF ACDUISTION	
MAH/N/SAN*	8696.58	9469.91	0.00		0.00		773.33	CASES PENDING	CASES PENDING
MAN/N/KEI	4140.00	4000.00	0.00		140.00			PATTADARS DID NOT BRING THIS AREA TO COLLECTOR'S NOTICE AT THE TIME OF THE PARK'S CREATION	

lable	- 3	(contd)
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CODE	ORIGINAL AREA IN HECTARES	PRESENT AREA IN HECTARES	AREA ADDED IN HECTARES	REASON FOR ADDITION OF AREA	AREA DELETED IN HECTARES	AREA NOT ACQUIRED IN HECTARES	REASON FOR AREA NOT BEING ACOUIRED	ACTION TAKEN TO GET CONTROL OF AREAS NOT YET UNDER MANAGEMENT OF PARK AUTHORITIES
+2/N/BAN	:0500.00	44834.00 3	14384.00	FOR EXTENSION		1438.15	ACOUISITION PROCEDURES NOT YET COMPLETE	AREA OF 6 VILLAGES IS EXTENSION AREA, AREA OF 2 HAS BEEN INCLUDED. AREA OF OTHER 4 WILL BE ADDED AFTER SETTLEMENT AND RELOCATION.
KP/N/PAN	542666.00	542665.20	0.00		0.00	542666.00		
RAJ/N/DES	316200.00	316200.00	0.00		0.00	316200.00		
RAJ/N/RAN	39200.00	39200.00	0.00		0.00	298.64	VILLAGES: RESETTLEMENT IN PROGRESS	
RAJ/N/SAR	27380.00	27380.00	0.00		0.00		REVENUE VILLAGES: ACQUISITION AND SHIFTING UNDER PROCESS	
UP/N/COR*	32375.00	52082.00 19		REA NOT SUITABLE OR TIGERS ETC?	0.00	0.00		

\* In these cases, though the figures for the present area, original area and area added or deleted do not match, they were reported to us as such.

### HABITAT

### Forest Corridors

16 parks were reported to be connected to another park or a sanctuary by a corridor (of forest or other habitat) permitting movement of animals between them (table - 4). Of these, 7 parks, Bandipur (KAR), Nagarhole (KAR), Bandhavgarh (MP), Panna (MP), Sanjay (MP), Satpura (MP) and Simlipal (ORI) were connected to 2 or more parks or sanctuaries through their forest corridors.

Table - 4 (FOREST CORRIDORS)

CODE

DETAILS OF FOREST CORRIDOR(S)

A&N/N/MAR	CONNECTED TO LOHABARRACK CROCODILE SANCTUARY BY SEA
	WATER: MOVEMENT OF MARINE FAUNA IS COMMON
HP/N/PIN	CONNECTED WITH RUPI-BHABA SANCTUARY TO THE SOUTH
KAR/N/BAN	CONNECTED TO MUDUMALAI SANCTUARY, TAMIL NADU, WYNAD
	SANCTUARY, KERALA, AND NAGARHOLE NATIONAL PARK, KARNATAKA
KAR/N/NAG	CONNECTED TO BANDIFUR NATIONAL PARK, KARNATAKA, AND WYNAD
	SANCTUARY, KERALA
KER/N/ERA	CONNECTED TO CHINNAR SANCTUARY
MAH/N/PEN	PENCH NATIONAL PARK IN DIST CHHINDWARA, MADHYA PRADESH,
1	ADJACENT TO THE NORTHERN BOUNDARY
MP/N/BAN	CONNECTED WITH PANPATHA SANCTUARY. POSSIBLY ALSO WITH
	SANJAY NATTONAL PARK, KANHA NATIONAL PARK, AND PANNA
	NATIONAL PARK BEING SURVEYED
MP/N/IND	CONNECTED TO BHAIRAMGARH SANCTUARY
MP/N/KAN	CONNECTED BY CORRIDOR WITH PHEN SANCTUARY TO EAST
MP/N/PAN	CONNECTED IN SOUTH-WEST TO NORADEHI SANCTUARY AND IN SOUTH-
	EAST TO BANDHAVGARH NATIONAL PARK: DISTANCES IN BOTH OVER 200 KM
MP/N/PEN	PENCH (MAH) NATIONAL PARK ADJOINING
MP/N/SAN	DUBRI SANCTUARY ADJOINING TO WEST: BANDHAVGARH NATIONAL
	PARK CONNECTED BY FOREST
MP/N/SAT	BORI SANCTUARY ON SOUTH AND SOUTH-WEST AND PACHMARHI
221	SANCTUARY ON EAST AND NORTH-EAST ARE ADJACENT
ORI/N/SIM	CONNECTED TO HADGARH SANCTUARY IN SOUTH AND KULIDIHA
	SANCTUARY IN SOUTH-EAST BY CORRIDOR OF SEVERAL RESERVE
	FORESTS
RAJ/N/SAR	
UP/N/COR	
	KALAGARH FOREST SUITABLE FOR ELEPHANT MIGRATION

### Overpopulation (Flora and Fauna)

A species is considered to be overpopulated if it's numbers have grown beyond the carrying capacity of it's habitat, or threaten the habitat, the ecological balance and/or the survival or well being of another species.

5 parks reported overpopulation of fauna (no table): Wild dogs and Wild boars in Bandipur (KAR), Crows in Sanjay Gandhi (MAH), Spotted deer in Kanha (MP) and Guindy (TN), and Tigers in Bandhavgarh (MP).

No control measures were being thought of or undertaken in Bandipur (KAR), Bandhavgarh (MP) and Guindy (TN).

It was proposed to "steal eggs" of crows in Sanjay Gandhi (MAH), while in Kanha (MP), dispersal of excess population, through corridors, was suggested.

15 parks: Velavadar (GUJ), Bandipur (KAR), Nagarhole (KAR), Periyar (KER), Nawegaon (MAH), Kanha (MP), Panna (MP), Satpura (MP), Van Vihar (MP), Simlipal (ORI), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Corbett (UP) and Valley of Flowers (UP) reported overpopulation of flora (see table 5.1).

Of the above, 9 parks: Bandipur (KAR), Nagarhole (PER), Periyar (KER), Kanha (MP), Panna (MP), Satpura (MP), Van Vihar (MP), Simlipal (ORI), and Corbett (UP), reported the emergence of Lantana camara as a weed, while Prosopis juliflora, Cassia tora, and Eugatorium odoratum were each reported as weeds from 3 parks. These were Velavadar (GUJ), Keoladeo Ghana (RAJ), and Ranthambhore (RAJ) in the case of Prosopis juliflora; Kanha (MP), Ranthambhore (RAJ), and Corbett (UP) in the case of Cassia tora; and Bandipur (KAR), Nagarhole (KAR), and Simlipal (ORI) in the case of Eugatorium odoratum.

### Epidemics (Flora and Fauna)

9 parks reported the outbreak of disease among animals (see table 5.2). These were Velavadar (GUJ), Great Himalayan (HP), Pin Valley (HP), Tadoba (MAH), Kanha (MP), Panna (MP), Ranthambhore (RAJ), Sariska (RAJ) and Corbett (UP).

The most commonly reported disease was the foot and mouth disease which was reported from Great Himalayan (HP), Pin Valley (HP), Tadoba (MAH), Panna (MP), and Corbett (UP). In addition, an unidentified hoof disease was reported from Velavadar (GUJ), Scabies and Strangles from Pin Valley (HP), Rinderpest from Kanha (MP) and Corbett (UP), Amphistomiases from Ranthambhore (RAJ), and an unidentified water borne disease from Sariska (RAJ).

With the exception of Great Himalayan (HP), which did not provide complete information, all the parks which reported the occurrence of foot and mouth disease, identified domestic livestock as the source of infection, of these only Tadoba (MAH) reported the inoculation of cattle. These diseases were reported to have reached epidemic proportions in Great Himalayan (HP), Kanha (MP), and Ranthambhore (RAJ).

Only 1 park, Bhagwan Mahavir (GOA) (no table), reported the occurrence of diseases among plants. These diseases were Sporadic Leaf Minor and Skeletoniser.

### Threatened Species of Fauna and Flora

29 parks: Marine (A&N), Saddle Peak (A&N), Gir (GUJ), Marine (GUJ), Great Himalayan (HP), Pin Valley (HP), Dachigam (J&K), Hemis (J&K), Kishtwar (J&K), Eravikulam (KER), Nawegaon (MAH), Sanjay Gandhi (MAH), Tadoba (MAH), Keibul Lamjao (MAN), Siroy (MAN), Bandhavgarh (MP), Kanha (MP), Madhav (MP), Panna (MP), Satpura (MP), Sanjay (MP), Simlipal (ORI), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Khangchendzonga (SIK), Corbett (UP), Dudhwa (UP), Nanda Devi (UP) and Sunderban (WB) reported the existence of threatened species of fauna (see table 5.3).

8 parks, Saddle Peak (A&N), Marine (GUJ), Pin Valley (HP), Siroy (MAN), Satpura (MP), Simlipal (ORI), Khangchendzonga (SIK), and Valley of Flowers (UP) reported the existence of threatened species of flora (see table 5.4). It is interesting to note that all the parks, except Valley of Flowers (UP), also reported the existence of threatened species of fauna. Table - 5.1 (GVERPOPULATION OF FLORA)

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COLE	PLORAL SPECIES OVERPOPULATED	CAUSE OF SPREAD	DERCT ON EASE	HEASURES TAXEN
GUJ/R/VEL	Prosopis Juliflora	Spreads through seeds in aminal droppings	Can effect grass production	Uprooting of Prosopis and preventing cattle from entering park
KAB/N/BAR	<u>Lantana</u> canara	Due to lack of regeneration of other grasses	Beduces area under palatable grass	No peasures
	<u>Bapatorium</u> <u>odoratum</u>	Due to wind spread from Kerala	Occupying area under palatable grasses	Ro measures
XAR/K/KAG	<u>Lantana camera</u> <u>Rupatorium odoratum</u>		Effect useful plants Effect on useful plants	Being uprooted Being uprooted
XE3/R/PER	Lantana camara	Spreads naturally	Adversely affecting wildlife habitat	Oprooting done, as also broadcasting of palatable species
MAR/B/NAW	Parthenium spp. Ipomosa acustica	Maturally spread Maturally spread	Suppresses good grass varieties Suppresses good grass varieties	Proposed uprooting Proposed uprooting
NP/R/KAN	Butea frondosa Parviflora spp. Diospyros galanoxylon Lantana camara	3	Spreading on meadows Spreading on meadows Spreading on meadows Spreading around old village sites	
	<u>Cassia</u> <u>tora</u>		Spreading around old village sites	help of elephants Being uprobted manually and with help of elephants
HE/R/DAB	<u>Lantana canaca</u>	Spread from ormanental plantations	Inhibits growth of fodder species and hinders movement	No neasures
HE/K/SAT	<u>Lantana</u> canara	Due to village settlement and over grazing	Inavailability caused for wildlife	Oprooting dome
HP/E/RAR	Lantana canara		Effects regeneration and growth	Oprocted and burnt
ORI/K/SIN	Bupatorium <u>odoratum</u>	Due to opening of camopy and biotic interference		Oprooting in patches done
	Stachytarpheta indica	Due to opening of canopy and biotic interference		Uprooting in patches done
	<u>Cvaleopogon spp.</u> (Lenon grass)	Due to fire		Oprooting in patches done
	Imperata cvlimórica Lantana camara	Due to fire Due to fire, grazing		Uprooting in patches done

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# Table - 5.1 (...contd)

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CODE	FLORAL SPECIES OVERPOPULATED	CAUSE OF SPREAD	INPACT OF PARK	HEASURES TAKEN
RAJ/K/KEO	Prosopis juliflora	Spread after planting	Suppresses grasses	Oproot, flood and burn
	<u>Typha augustata</u>		Reduces water holding capacity, sunlight penetration, and palatable sop. diversity	Oprosted
	<u>Iponea</u> aquatica	Propagated by birds and water		Oprooted
	<u>Water Hyacinth</u>	Propagated by birds and water		Uprooted
RAJ/N/RAN	Cassia tora		Suppress grasses and other inportant flora	Proposed to uproot manually
	Xanthium indicum		Suppress grasses and other important flora	Proposed to uproot manually
	<u>Adhatoda zevlanica</u>		Suppress grasses and other important flora	Proposed to uproot manually
	<u>Aristida adscensionis</u>	Due to soil	Suppress grasses and other important flora	Proposed to uproot manually
	Prosopis juliflora	Introduced near Khandar	Suppress grasses and other important flora	Proposed to uproot manually
RAJ/R/SAR	Adhatoda zevlamica	Spread due to heavy grazing in the past	Suppress edible plants and grasses	Manual uprooting done
OP/N/COR	Lantana camara	Spread by birds	Destroys habitat, including grassland	Some patches cleared by uprooting
	<u>Zizvphus</u>		Invading grasslands	Attempts made to eradicate Attempts made to eradicate
	<u>Cassia tora</u>		Invading grasslands	Accempts more to economicate
UP/N/VAL	<u>Polygonun stachys</u> (Knot weed)	Spread due to grazing	.Cause retrogression in ecosystem	Removal now taken up on experimental basis
	Runex nepalensis	Spread due to grazing	Cause retrogression in ecosystem	Removal now taken up on experimental basis
	<u>Osmunda spp.</u> (Perns)	Spread due to grazing	Cause retrogression in ecosystem	Removal now taken up on experimental basis
	<u>Impatiens ppp.</u>	grazing grazing	Cause retrogression in ecosystem	Removal now taken up on experimental basis

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### Table - 5.2 (DISEASES AFFECTING PAUNA)

CODE	FAURAL SPECIES EFFECTED	YEAR OF OCCURRENCE	NAME OF THE DISEASE(S)	CAUSE OF SPREAD OP DISEASE(S)	NEASURES TAKEN
GDJ/R/VEC	400 Black buck	1983-84	A Hoof disease		Medicinal powder mixed in water tanks to prevent infection
HP/H/GRE	Minalayan 7ahr and Goral		Poot and Houth disease, which became an epidemic		
HP/K/PIN			Poot and mouth, scabies, and strangles	Plocks of nigratory herds may bring in foot and mouth disease into the park	
MAH/R/TAD	6-7 Spotted deer, and 7 Gaur	1980-81	Poot and mouth disease	Through domestic livestock	Innoculation of cattle dome: no subsequent incident
KP/N/KAII	Gaur	1976	Rinderpest. Was an epidemic.		
H2/R/2AN	Nilgai and Sanbar	1982-83	Poot and mouth disease	Contact with domestic cattle	
RAJ/H/RAN	112 Sambar, 59 Spotted deer, 39 Milgaí, 2 Indian wild boar	1980-81	Amphistoniases	Spread by flukes	Water cleaning and treatment rith Copper sulphate, release of virus feeding fish
BAJ/N/SAR	2 Jackals, 3 Wilgai, and 1 1 Indian wild boar	983-84		An infection carried by old and stagnant water	i Potassium permanganate used on water
UP/N/COR			Bare incidents of Rinderpest and foot and mouth disease	Spread by migratory cattle	

### Table - 5.3 (THREATERED SPECIES OF FAURA)

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CODE	THREATENED SPECIES OF PAURA	SOURCES/CAUSES OF THREAT	NEASURES TAKEN
MB/N/MAR	Green sea and Leather back turtles	Due to biotic interference	Protection provided
A&H/H/SAD	Andaman wild pig		
GUJ/N/GIR	Indian lice and Four horned antelope	Due to biotic interference and destruction of habitat	Strengthening of protection measures
GUJ/N/HAR	Green sea, Olive ridley and Leather back turtles as well as Corals and Pearl oysters	Ruman interference eg poaching, industrial activities etc	Now stopped
HP/N/GRE	Western tragopan, Snow leopard, Husk deer, Serow, Blue sheep and Chir pheasant		
82/8/21X	Snow leopard, Himalayan fox, Snow wolf, Kokar	Himalayan fox and Mokar for their fur: Snow leopard and Snow wolf because of predation of livestock	
JEX/K/DAC	Kashnir stag	Due to poaching and habitat destruction	Anti poaching measures have proved to be successful
J4K/N/HBN	Shapu, Hayan, and Smow leopard		Habitat improvement and check on posching
J\$X/N/XIS	Snow Leopard, and Musk deer	Due to illicit poaching prior to 1981	Complete protection being given now
KER/N/BRA	figer and leopard		
HAR/I/KAN	Spotted deer and Pour horned antelope	Due to human interference	Rigid protection proposed
NAE/K/SAN	Leopard, Crocodile, and Your borned antelope		
NAH/N/TAD	Leopard cat, Eyena, Plying squirrel, Porcupine, Nouse deer, Pangolin, and Crocodile	Due to fire and human interference	Pire control, reduction of human interference, and habitat improvement. A Crocodile breeding farm has also been started.
HAR/R/XEI	Brow antlered deer.	Due to habitat destruction.	Babitat destruction and poaching has been checked.
HER/S/SIE	Flying squirrel, Boolock gibbon, Blyth' tragopan, Rornbill, Serow, Clouded leopard, and Buse's bartailed phessant.		

# Table - 5.3 (...coatd)

CODE	THREATENED SPECIES OF FAURA	SOURCES/CAUSES OF THREAT	NEASURES TAKEN
MP/N/BAK		Due to small area of park initially, and predation by Tiger.	Area now increased.
ND/H/KAR	Black buck	Predation of fawns by Jackals.	In 1982, 12 Black buck were driven into an enclosure and had multiplied to 19 by 1984
HP/N/HAD	Tiger and Panther	Nigrated to an adjoining area	Boundary walls constructed, and guards appointed for protection.
HP/II/PAN	Tiger, Panther, Wolf, Crocodile and Gharial.	Due to habitat deterioration and hunting for skin.	Strict protection, and habitat improvement undertaken for Tiger, Banther, and Wolf. Home for Crocodile and Gharial.
HP/N/SAR	Gaur, and Wild buffalo	Due to habitat destruction	Increasing restriction on grazing and habitat improvement works
he/h/skt	Spotted deer	Habitat unavailability	Village relocation proposed. Habitat manipulation done
ori/6/sin	Gaur, Pour horned antelope, Spotted deer, and Mouse deer.	Due to hunting (Gaur, Pour horned antelope, Spotted deer), Habitat destruction (Spotted deer), and fire (Mouse deer).	Anti poaching and anti fire steps taken and habitat destruction stopped.
RAJ/E/KEO	Siberian crane		Protection given
RAJ/E/RAN	Caracal, Jumgle cat		Intensive protection given
SIK/B/KHA	Mask deer, Tragopan pheasant, Monal pheasant, Blue sheep, and Himalayan tahr	Due to extensive poaching in the past	Deer and pheasant traps, demolished, poaching prome areas frequently patrolled, vulnerable outposts manned
UP/N/COR	Tiger and Panther	Due to human pressures	Protection under Project Tiger
UP/R/NAR	Husk deer and Snow leopard	Past poaching	Complete protection given
WB/II/SOX	Tiger, Saltwater crocodile, Water monitor, Olive ridley turtle, Pishing cat, Gangetic dolphin, Batagur terrapin, and Morse-shoe crab	Due to bunting and habitat destruction	Protection to wildlife and habitat

### Table - 5.4 (THREATENED SPECIES OF FLORA)

SODE	THREATINED SPECIES OF FLORA	SOURCES/CARSES OF THREAT	HEASURES TAKEN
AAN/N/SAD	<u>Diospyros mermorata</u> and <u>Segerasa</u> <u>elliptica</u>	Poor regeneration	Noae
GUJ/R/HAR	Avicensia marina, Rhizophora mucronata, Ceriops tagal, Commindera mukul, and Acacia semenal	Grazing by camels and cutting of wood for fuel	Cutting of trees stopped. Plantations of mangroves mow taken up.
HP/N/PIN	Joniperus nacrozoda	Vegetation in the park is scarce and is threatend by overgrazing and domestic use	
HAN/N/SIR	Silium macklinae, Rhododendron spp., Iris ssp., Batula spp.		
HP/K/SAT	Pailoten trisuetrus	Due to botanical collection of this rare plant by university students	Restrictions on collections now imposed
GRI/R/SIN	Piercoarpus marsupium, Dalbergia sisson, Gaelina arborea, Baccurea sabida, Orchids, Tree ferns, <u>Alsophila glabra</u> , and <u>Crethes spinulosa</u>	Due to over exploitation and fire.	Ban on felling and fire protection.
STK/H/NEA	Larix griffithiana, Junizerss wallichiana, Abies deusa, Mododendron spp., Juniperous recurva	Due to poor regeneration	Protection prov <sup>3</sup>
UP/R/VAL	Paphiopedilum spp. (Ladyslipper)	Due to over grazing	Bone

### Forest Fires

Forest fires are not unusual in India. This is because during the summer months, many parts of the country are extremely dry and hot, creating conditions in which fires can break out. However, a fire does not always occur due to natural causes. In some cases, the park authorities may themselves make use of fires to manage the habitat. Often, however, outbreak of a fire is due to human negligence. It is frequently deliberate, - for MFP. collection etc.

#### Occurrence

In all, 32 parks (listed below) reported the occurrence of forest 1. fires between 1979 and 1984. Of these 32 parks, 22 are listed in table -6.1. The rest did not provide any details regarding outbreak of fires. The parks which reported the occurrence of a fire are; Marine (A&N), Middle Button (A&N), North Button (A&N), South Button (A&N), Bansda (GUJ), Gir (GUJ), Velavadar (GUJ), Great Himalayan (HP), Dachigam (J&K), Kishtwar (J&K), Bandipur (KAR), Bannerghatta (KAR), Eravikulam (KER), Periyar (KER), Silent Valley (KER), Nawegaon (MAH), Pench (MAH), Sanjay Gandhi (MAH), Tadoba (MAH), Keibul Lamjao (MAN), (MP), Indravati (MP), Kanger Ghati (MP), Bandhavgarh Kanha (MP), Madhav (MP), Panna (MP), Satpura (MP), Simlipal (ORI), Ranthambhore (RAJ), Sariska (RAJ), Corbett (UP), and Dudhwa (UP).

Of the 22 parks listed in table - 6.1:-

2. 10 parks reported the occurrence of a fire in each of the 5 years between 1979-84. These parks were; Gir (GUJ), Bandipur (KAR), Nagarhole (GUJ), Pench (MAH), Sanjay Gandhi (MAH), Keibul Lamjac (MAN), Kanba (MP), Madhav (MP), Simlipal (ORI), and Dudhwa (UP).

3. 6 parks reported the occurrence of a fire in each of the 4 years between 1979-84. These parks were; Dachigam (J&K), Bannerghatta (KAR), Eravikulam (KER), Nawegaon (MAH), Bandhavgarh (MP), and Corbett (UP).

4. 1 park ie; Bansda (GUJ), reported the occurrence of a fire in each of 3 years between 1979-84

5. 1 park ie; Satpura (MP), reported the occurrence of a fire in two years between 1979-84,

6. 5 parks reported the occurrence of a fire in only 1 year between 1979-84. These parks were; Velavadar (GUJ), Periyar (KER), Panna (MP), Ranthambhore (RAJ), and Sariska (RAJ).

#### Frequency

7. The highest occurrence of fires was reported from Kanha (MP), which recorded 283 cases of forest fires between 1979-84. The highest

occurrence of fires in a single year was reported from Gir (GUJ), with 90 cases of forest fires in 1983-84.

### Impact

8. The maximum area damaged was recorded by Simlipal (OR1). Here, between 1979 and 1984, a total of 146,000 ha. was damaged by fire, of which 11,000 ha. was in the core-zone, and 135,000 ha. was in the buffer-zone. Bandipur (KAR), reported that between 1979 and 1984, 38,200 ha was damaged by fire, of which 18,200 was in the core-zone, while 20,000 ha. was in the buffer-zone. Gir (GUJ) also recorded a very high figure i.e., 31,542 ha. area damaged by fire, all of which was in the buffer-zone of the park. The maximum area i.e. 55,000 ha. damaged by .

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fire in one year was recorded by Simlipal (ORI) in 1983-84.

#### Counter measures

9. The maximum length of a fire line was reported to be 1,350 km from Kanha (MP). The other parks which reported fairly long fire lines were:-

Gir (GUJ)	-	546.00	km
Bandipur (KAR)	-	1,045.00	km
Pench (MAH)	-	500.00	km
Duchwa (UP)	-	585.48	km

10. 4 parks did not report the existence of fire lines, or other measures for fire fighting. These parks were; Dachigam (J&K), Sanjay Gandhi (MAH), Bandhavgarh (MP), and Ranthambhore (RAJ).

11. 2 parks reported the existence of watch towers as part of fire fighting measures. These were Nagarhole (KAR), and Dudhwa (UP).

### Waterlogging and Other Problems

Waterlogging is another habitat related problem. 2 parks (see table - 6.2) reported the occurrence of waterlogging.

1. Tadoba (MAH), reported that 250 ha of its area was water logged. In order to rectify the situation, existing bunds were removed.

2. Pench (MP), reported that 54.517 ha of its area got water logged due to the Pench hydro electric project.

Other habitat related problems included landslides and avalanches, cyclones, and cloud bursts.

#### Hotwinds

Hotwinds occur throughout the plains of North and Western India. 12 parks (see table - 6.3) reported the occurrence of hotwinds. These parks were, Marine (GUJ), Velavadar (GUJ), Nawegaon (MAH), Pench (MAH), Kanha

<sup>\*</sup> The figure reported for area damaged due to fire is greater than the total area of the park.

(MP), Panna (MP), Sanjay (MP), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), and Corbett (UP).

Marine (GUJ), Velavadar (GUJ), Desert (RAJ), Ranthambhore (RAJ), and Sariska (RAJ) reported that their entire are was affected by hotwinds. Kanha (MP), and Pench (MP) reported a part of their area was affected by hotwinds. No information was provided regarding the area of the park affected by Nawegaon (MAH), Pench (MAH), Sanjay (MP), Keoladeo Ghana (RAJ), and Corbett (UP).

### Gales and Cyclones

11 parks (see table - 6.4) reported the occurrence of gales & cyclones. These parks were, Marine (A&N), Middle Button (A&N), Mount Harriet (A&N), North Button (A&N), Saddle Peak (A&N), South Button (A&N), Marine (GUJ), Kanha (MP), Simlipal (CRI), Sariska (RAJ), and Guindy (TN).

The maximum frequency for gales and cyclones in a year ie; 4, was reported from Saddle Peak (A&N), while the least frequency in a year ie; 1-2 was reported from Kanha (MP). Saddle Peak (A&N), Marine (GUJ), and Sariska (RAJ) reported that their entire area was affected by gales & cyclones. Kanha (MP) and Guindy (TN) reported that a part of their area was affected by gales & cyclones. No information was provided by Marine (A&N), Middle Button (A&N), Mount Harriet (A&N), North Button (A&N), South Button (A&N), and Simlipal (CRI) regarding the extent of the area affected by gales & cyclones.

#### Frost

17 parks (see table - 6.5) reported the occurrence of frost. These parks were, Great Hinalayan (HP), Dachigam (J&K), Kishtwar (J&K), Nawegaon (MAH), Bandhavgarh (MP), Kanha (MP), Sanjay (MP), Satpura (MP), Simlipal (ORI), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Khangchendzonga (SIK), Corbett (UP), Nanda Devi (UP), and Valley of Flowers (UP).

The months when frost occurs are november to February.

Kanha (MP) and Satpura (MP) reported the highest incidence of frost per year, at 13.

Kishtwar (J&K), Simlipal (ORI), Desert (RAJ) and Sariska (RAJ) reported that their entire area was affected by frost. A part of the area of Dachigam (J&K) was reported to be affected by frost. No information regarding the area affected by frost was recorded by Great Himalayan (HP), Nawegaon (MAH), Bandhavgarh (MP), Kanha (MP), Sanjay (MP), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Khangchendzonga (SIK), Corbett (UP), Nanda Devi (UP), and Valley of Flowers (UP).

### Hailstorms

19 parks (see table - 6.6) reported the occurrence of hailstorms. These parks were, Marine (A&N), Middle Button (A&N), North Button (A&N), South Button (A&N), Namdapha (ARU), Great Himalayan (HP), Kishtwar (J&K), Bandipur (KAR), Keibul Lamjao (MAN), Kanger Ghati (MP), Kanha (MP), Sanjay (MP), Satpura (MP), Simlipal (ORI), Sariska (RAJ), Khangchendzonga (SIK), Corbett (UP), Nanda Devi (UP), and Valley of Flowers (UP).

Months when hailstorms occur ranged between December and May. The highest frequency of hail storms was reported from Simlipal (ORI), which recorded 3-4 hail storms in an year.

Keibul Lamjao (MAN), and Satpura (MP) reported that a part of their area was affected by hailstorms, while Sariska (RAJ) reported that the entire area of the park was thus affected.

The rest of the parks did not provide any information regarding the area affected by hailstorms.

### Floods

The occurrence of floods in India, especially in the plains during summer, is not uncommon. Some of India's national parks, therefore, are also susceptible to this. Only 2 parks (no table) reported the occurrence of a flood. These parks were Velavadar (GUJ), which reported a flood in 1982-83, and Sunderban (WB) which reported a flood in 1981-82. Velavadar (GUJ) reported the loss of 21 animals. Sunderban (WE) reported that 100 ha of its area in the core-zone was damaged and 50 animals died. In Sunderban (WB) an anicut was constructed after the flood and an existing jetty repaired.

### Droughts

As in the case of floods, droughts are also quite common in many parts of the country especially during the summer months. 5 parks (see table - 6.7) reported the occurrence of a drought between 1979-84. These parks were; Bandipur (KAR), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), and Guindy (TN).

Bandipur (KAR) reported a drought in 1982-83, which affected 50 ha. of its area in the buffer-zone. Remedial measures consisted of digging up bore wells to augment the water supply.

Desert (RAJ) reported droughts in all the years between 1979 and 1984. Remedial measures consisted of artificially providing water in the area.

Keoladeo Ghana (RAJ) reported a drought in 1979-80, affecting 100 ha. of its core-zone.

Guindy (IN) reported a drought in 1982-83, affecting 40 ha of its core-zone. None of the parks provided information on loss of animals due to drought. Table - 6.1 (FOREST FIRES)

CODE	YEAR OF OCCUERENCE		IN CORE ZONE	AREA DAMAGED IN BUFFER ZONE (IN HECTARES)		FIRE LINE	OTHER HEASURES
		AL LYDDS	(re mornes)	[in uppingo]		(IR km)	
GUJ/K/BAR	80/81	2		10	ACCIDENTAL	()	-
ees in pas	82/83	i		5		60	RO
	83/84	4			ACCIDENTAL	60	80
GUJ/N/GIR	79/80	21		45	ACCIDENTAL	60	80
om bigte	13/00	11		4890	DUE TO THE CARELESSNESS OF OUTSIDERS OR DUE TO ACCIDENT	546	
	80/81	53		7859	- 10 -	546	
	81/82	45		3130	- DO -	546	
	82/83	9		1020	- 00 -	546	1.
	83/84	83		14643	- 00 -	546	
GUJ/N/VEL	83/84		80		ACCIDENTAL	2	NIL
JAK/N/DAC	80/81	1 2 8	ï	11.5	ACCIDENTAL	RONE	NOKE
	81/82	8	30	1	ACCIDENTAL	HORE	NORE
	82/83	3		15	ACCIDENTAL	NORE	NORE
	83/84	1		15	ACCIDERTAL	RORE	NONE
KAR/N/BAN	79/80	25	4600	3000	INCHADIARY	1000	BUND
samilarl server	80/81	12	1000	3000	INCERDIARY	1000	
	81/82	16	4000	3800	INCENDIARY	1000	
	82/83	20	5000	4000	INCERDIARY	1600	
	83/84	30	3600	6200	INCENDIARY	1000	
KAR/N/BAHN	79-80	2	3	0200	CATTLE GRAEIERS SET FIRE		
news of work	12 44	•			IN PERIPHENT, ALSO	0	
					ACCIDENTS.		
	80-81	5	2		- DO -	6	
	82-83	2	0.5		- 80 -		
	83-84	2	1		- 00 -	8	
KER/H/ERA	79-80	i	NOST		CANE COLLECTORS,	0	TTOD UIDAUDDO
Noa( n/ ann	13-04		EV01		GRAZIERS, POACHERS	3k	FIRE WATCHERS
	80-81	1	MOST		- DO -		
	81-82	1	MOST		- DO -		
	82-83	1	HOST		- DO -		
KER/R/PER	83/84				BIOTIC, FIRE MOOD	219.12	
					COLLECTORS, PISHERMAN,	bareab	
					HFP COLLECTORS.		(清
 HAH/N/NAW	80/81	3	1	2	DUE TO HOT TEMPERATURE	315.66	
	81/82	2		2 2 3 3	- DO -	******	
	82/83	3		3	- 00 -		
	83/84	3		3	- 10 -		
MAH/K/PEN	79/80	4	115.5		CHINCH	580	EXCEPT FIRE WATCHERS NO OTHER MEASURES
	80/81	1	115.5		ntistation		ARE TAKEN
			Contraction (Contraction)		<b>ANKNOKN</b>	580	- DO -
	81/82	5	132.5		URKNOWE	580	- 10 -
	83/84	2	850		UNXNOWN	580	- DO -

Table - 6.1 (...contd)

2 36 85

CODE	YEAR OP Occuserince			IN BUFFER ICHE	CAUSES OF FIRE	LENGTH OF PIRE LINE (IN km)	other measures
HAB/K/SAX	79/80	14		56.451	MAN MADE		
send of each	80/61	22	3	275.186	CAUSES SUCH AS LIGHTING OF MATCH STICKS ETC.		
	81/82	30		155.399	- 00 -		
	82/83	43		440.703	- 10 -		
	83/84	53		128.690	- 10 -		Y
HAN/N/NEI	79/80	3	500		CAUSED BY THE VILLAGERS IN SUBROCHDING AREA		
	80/81	2	200		- 10 -	10.845	
	81/82	4	300		- 00 -	24.159	
	82/83	5	450		- 10 -	#1.A77	
	83/84	2	170		- 10 -	28.49	
NP/E/BAE	79/80	1	200		BY VILLAGERS	84127	
	80/81	3	170		- 10 -		
	B1/82	4	500		- 00 -		
	83/84	1	500		- 00 -		
HP/R/KAN	79-80	81	3204		CAUSED BY HUNANS	1143	FIRE FIGHTING SQUADS EQUIPPED WITH VEHICLES
	80-81	41	2292		- 00 -	1178	
	81-82	20	1477		- 00 -	1215	
	82-83	51	1025		- 10 -	1305	
	83-84	90	528		- 00 -	1350	
NP/H/HAD	79/80				ACCIDENTAL	20	FIRE WATCHES ARE POSTED
	80/81	7	134.7		ACCIDENTAL	20	- 10 -
	81/82	3	477		ACCIDENTAL	20	- 10 -
	81/82	5	31.2		ACCIDENTAL	20	- 10 -
	83/84	5	169		ACCIDENTAL	35	- 10 -
MP/R/PAR	83-84	5	962		ACCIDERTAL	473.5	100 FIRE BEATERS EXPLOYED
HP/H/SAT	82/83		5000		ACCIDENTAL	259	NIL
	83/84		6200		ACCIDENTAL	259	NIL
ORI/N/SIM	79-80		3,000	20,000	CAUSED BY POACHERS AND ACCIDENTS	135	40 FIRE WATCHEES EMPLOYED
	80-81			20,000	- DO -	297	
	81-82			15,000	- 10 -	454	
	82-83		3,000	30,000	- 10 -	228	
orano di navani	83-84		5,000	50,000	- DO -	171	
EAJ/N/EAN	83/84	2	7		CAUSED BY VILLAGERS VISITING TEMPLE AND		BIL
RAJ/N/SAR	80/81	1	240		BY GRAZIERS		
motal and	00101	1	240		NA		WITH THE HELP OF FIRE
UP/H/COR	05/01				LATAMAT		LINES AND FIRE WATCHES
NELVICON.	80/61				ACCIDENTAL	240.791	FIRE WATCHERS
	81/82				ACCIDENTAL	240.791	- 00 -
	82/83				ACCIDENTAL	240.791	- 00 -
	83/84				ACCIDENTAL	240.791	- DD -

### Table - 6.1 (...contd)

CODE	OCCURRENCE NUMBER			USBS OF FIRE	LENGTH PIRE LI (IN km		
02/N/DOD	79/80	237.55		ILWAY LINE AND PWD	585.48	WATCH TOWER, 3 TRACTORS,	
21	80/81	102.53		NDS DO -	E05 00	AND 1 TANKER - DO -	
		12.30		10 -	585.98		
		5.67		D0 -		- 00 -	
	83/84	9	÷	DO -		- 00 -	
			Table - 6.2 (	WATER LOGGING)			
CODE	NATURE OF PROBLEM	AREA AFFEC	ed periodicity	QUANTON OF DANAGE		REKEDIAL HEASURES	YEAR OF OCCURRENCY
GOA/H/BHA	LAND SLIDES DUE TO RAIES					SOIL CONSERVATION	
GOJ/B/GIR	DESTRUCTIVE CICLONE	HIL	•	28 LAXH TREES UPROOTED		COMPENSATORY APFORESTATION BEING DONE	1982-83, 5-7 DAYS
GUJ/N/HAR	CYCLONES ON GULF OF KUTCH		2-3 YEARS	DAMAGE TO MARTINE ECOSYSTEM AND CORALS			LAST IN 1982-83
HP/H/GRE	LANDSLIDES DUE TO STEEPNESS OF AREA DURING BAINS			•		-	
Jak/H/Dac	CLOUD BURSTS	RONE	every year	DESTRUCTION OF BRIDGES, VEGETATION OF ONE ANEA IN UPPER DACHIGAN DESTROYED.		NALLA TRAINING MORES, CONSTRUCTION OF CHECK WALL TO ARREST SOIL EROSION, PLANTING OF SOIL BINDERS ALONG STREAMS.	
HAR/N/TAD	WATER LOGGING	250 ha		COARSE GRASS INCREASING		EXISTING BUNDS BEHUVED	HIL
HP/H/PER	WATER LOGGING DUE T PERCH HYDRO PROJECT		kn	A COMPANY			
RAJ/N/DES	DECUGHT, PANINE		EVERY YEAR	WILDLIFE ADVERSELY AFFECTED			
eaj/n/keo	TOXINS FLOW OUT OF POLLUTED WATER FROM LAKE AREA			WATEE AND AIR POLLUTION		FRESH WATER IS FILLED FROM THE DAN WHICH DILUTES TOXIC MATERIAL	5
RAJ/K/SAR	DROUGHT CONDITION	XX		WILD ANIMALS SUPPER		8-10 TUBE WELLS USED TO FURE OUT WATER BY DIESEL ENGINES. WATER ALSO TRANSPORTED TO DRY AREAS WITH THE HELP OF A TANKER	
SIK/R/KHA	SHOW SLIDES	RA	DECEMBER AND MARCH	HIMALAYAN TAHR ADVERSELY AFFECTED		*	
OP/N/VAL	EXCESSIVE SNOW	NONE		ROAD GETS DAMAGED		ASSISTANCE SOUGHT FROM A BESEARCH INSTITUTE	

Table - 6.3 (HOT WINDS)

CODE	MONTHS WHEN HOT WINDS OCCUR	NUMBER OF HOT WINDS PER YEAR	AVERAGE AREA AFFECTED
GUJ/N/MAR	ARPIL TO MAY	2	16289.00
GUJ/N/VEL	APRIL TO MAY	1	3408.11
MAH/N/NAW MAH/N/PEN	MAY APRIL TO MAY		
MP/N/KAN	MAY	1	SOME
MP/N/PAN	APRIL TO JUNE		100.00
MP/N/SAN	MAY TO JUNE		
RAJ/N/DES	MAY TO JUNE	1	316200.00
RAJ/N/KEO	MAY TO JUNE		
RAJ/N/RAN	MAY TO JUNE		39220.00
RAJ/N/SAR UP/N/COR	MAY TO JUNE JUNE		27380.00
CODE	MONTHS WHEN GALES AND CYCLONES OCCUR		AVERAGE AREA AFFECTED
A&N/N/MAR			
A&N/N/MID			
A&N/N/MOU		2-3	
A&N/N/NOR A&N/N/SAD	JUNE TO	4	3318.43
Party 14 Grad	AUGUST	3	0010.10
A&N/N/SOU	0.000.000.000		
GUJ/N/MAR	AUGUST		16289.00
MP/N/KAN	JUNE	1-2	SOME
ORI/N/SIM	JUNE	2	
RAJ/N/SAR	APRIL TO MAY	20	27380.00
TN/N/GUI	NOVEMBER TO DECEMBER	2	100.00

		(1.1.1.1.1.)	
CODE	MONTHS WHEN FROST OCCURS	FREQUENCY OF OCCURRENCE OF FROST PER YEAR	AVERAGE ARE AFFECTED
HP/N/GRE J&K/N/DAC J&K/N/KIS	DEC TO JAN DEC TO FEB NOV TO FEB		8000.00 40000.00
MAH/N/NAW MP/N/BAN	DEC JAN	10	
MP/N/KAN	DEC TO JAN	13	
MP/N/SAT	DEC	13	1000.00
ORI/N/SIM	DEC	1	50000.00
RAJ/N/DES	JAN TO FEB	1	316200.00
RAJ/N/KEO	DEC TO JAN		
RAJ/N/RAN RAJ/N/SAR SIK/N/KHA UP/N/COR UP/N/NAN UP/N/VAL	JAN TO FEB DEC TO JAN DEC TO FEB JAN		27380.00
	Table - 6.6	(HAIL STORMS)	
CODE	MONTINS WHEN HAIL STORMS OCCUR		AVERAGE AREA AFFECTED
A&N/N/MAR			
A&N/N/MID			
A&N/N/NOR			
A&N/N/SOU			
ARU/N/NAM	JANUARY TO FEBRUARY, AND APRIL TO MAY	2.	0.00
HP/N/GRE	APRIL TO MAY		
J&K/N/KIS	DEC TO JAN		
KAR/N/BAN	MAY TO JUNE		
MAN/N/KEI	APRIL TO MAY	2-3	1300.00
MP/N/KAN	to a taken a second statute.	1 0	COLOR
	JANUARY TO FEBRUARY	1-2	SOME
MP/N/KANG	FEBRUARY MARCH TO APRIL		SOME
MP/N/KANG MP/N/SAN	FEBRUARY MARCH TO APRIL MARCH	L	
MP/N/KANG MP/N/SAN MP/N/SAT	FEBRUARY MARCH TO APRIL MARCH FEBRUARY	L 1-2	5000,00
MP/N/KANG MP/N/SAN MP/N/SAT ORI/N/SIM	FEBRUARY MARCH TO APRII MARCH FEBRUARY MAY	L	5000.00
MP/N/KANG MP/N/SAN MP/N/SAT	FEBRUARY MARCH TO APRIL MARCH FEBRUARY	L 1-2	

### Table - 6.7 (DROUGHTS)

SY Tence Toeft	NONTRS MHER DROUGHT OCCURRED	AREA APPECTED IN HECTARES (CORE ZONE)		BSTINATED LOSS OP FROMA	REWEDIAL HEASURES
/83			50	NOT KNOWN	BORE WELLS DUG UP, WATER SUPPLIED
34				NO RECORD	WATER RESOURCES ARE BEING PROVIDED ARTIFICIALLY.
68	JUNE	100		NIL	
	MAY,JURE, AND JULY			NORTILITY DUE TO DROUGHT BOT MUCH	
1/83	JANUARY 70 JUNE	40			

#### HUMAN PRESENCE AND ACTIVITIES

#### Human Population Inside Parks

Of the 52 parks listed in table - 7.1, 18 parks reported the existence of human settlements inside their boundaries. These parks were, Marine (GUJ), Bansda (GUJ), Pin Valley (HP), Kishtwar (J&K), Nagarhole (KAR), Periyar (KER), Nawegaon (MAH), Pench (MAH), Sanjay Gandhi (MAH), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Panna (MP), Sanjay Gandhi (MAH), Satpura (MP), Ranthambhore (RAJ), Sariska (RAJ), and Dudhwa (UP).

1. Even though a national park is supposed to be free from all human interference, 4 of the above listed parks, Bansda (GUJ), Nagarhole (KAR), Ranthambhore (RAJ), and Dudhwa (UP), were parks for which the final notification had been issued.

Nagarhole (KAR), and Dudhwa (UP) reported the presence of human settlements in both the core-zone as well the buffer-zone. In the case of Dudhwa (UP), the entire population inside the park was tribal, while in the case of Nagarhole (KAR), it was partially so.

Ranthambhore (RAJ) reported the presence of human settlements in only its core-zone, whose entire population was non-tribal.

. Bansda (GUJ) did not give details regarding the location and composition of human settlements inside.

Of the parks listed above which had not been finally notified :-

2. 2 parks, Pench (MAH), and Sariska (RAJ) reported the presence of human settlements in both the core and buffer zones. While Sariska (RAJ) reported the presence of tribals in only the core-zone, Pench (MAH) reported the presence of tribals in both the core and buffer zones.

3. 1 park, Indravati (MP) reported the presence of human settlements in only the core-zone. The entire population in the case of Indravati (MP) was tribal.

4. 4 parks, Pin Valley (HP), Kishtwar (J&K). Periyar (KER) and Sanjay Gandhi (MAH) reported the presence of human settlements in only the buffer-zone. Kishtwar (J&K) & Periyar (KER) reported the presence of tribals while Pin Valley (HP) and Sanjay Gandhi (MAH) did not do so.

5. The rest of the parks did not provide information regarding the location and composition of human settlements inside the boundary.

### Human Population in Adjacent Areas

Many of the parks in India are under pressure not only from the presence of human populations inside, but also from the adjacent areas ie; within a 10 km radius of the park boundary. Of the 52 national parks listed in table -7.2, 26 parks reported the presence of human settlements in adjacent areas of the park, while 20 parks did not respond to this question.

The parks which reported the presence of human settlements in adjacent areas were, Marine (A&N), Nandapha (ARU), Gir (GUJ), Velavadar (GUJ), Dachigam (J&K), Bandipur (KAR), Bannerghatta (KAR), Nagarhole \* (KAR), Nawegaon (MAH), Pench (MAH), Sanjay Gandhi (MAH), Tadoba \* (MAH), Keibul Lamjao (MAN), Siroy (MAN), Fossil (MP), Kanger Ghati \* (MP), Kanha (MP), Madhav (MP), Panna (MP), Sanjay (MP), Van Vihar \* (MP), Simlipal (ORI), Ranthambhore (RAJ), Sariska (RAJ), Corbett (UP), and Dudhwa (UP).

The entire population living in adjacent areas of the Siroy (MAN) National Park was tribal. The presence of tribals in the adjacent areas of the park was also reported from Namdapha (ARU), Dachigam (J&K), Bandipur (KAR), Nagarhole (KAR), Nawegaon (MAH), Pench (MAH), Keibul Lamjao (MAN), Kanha (MP), Kanger Ghati (MP), Madhav (MP), Simlipal (ORI), and Dudhwa (UP).

\* These parks also reported the presence of human settlements within their boundaries.

Table - 7.1 (HUMAN POPULATION INSIDE PARKS)

CODE	TOTAL NUMBER OF VILLAGES INSIDE THE PARK	TOTAL FOPULATION IN CORE ZONE	TRIBAL POPULATION IN CORE ZONE	TOTAL POPULATION IN BUFFER ZONE	TRIBAL POPULATION IN BUFFER ZONE	TOTAL POPULATION INSIDE PARK	TRIBAL POPULATION INSIDE PARK
A&N/N/MAR	0					0	0
A&N/N/MID	0					0	0
A&N/N/MOU						0	o
A&N/N/NOR						0	0
A&N/N/SAD	0					0	0
A&N/N/SOU	0 0 0					0	0
ARU/N/NAM	0					0	0
GOA/N/BHA							
GUJ/N/BAN	5					1335	
GUJ/N/GIR	0					0	0
GUJ/N/MAR	5 0 1 0					125	000
GUJ/N/VEL	0					0	0
HP/N/GRE							
HP/N/PIN	17	0	0	1258		1258	

# Table - 7.1 (...contd)

CODE	TOTAL NUMBER OF VILLAGES INSIDE THE PARK	TOTAL POPULATION IN CORE ZONE	TRIBAL POPULATION IN CORE ZONE	TOTAL POFULATION IN BUFFER ZONE	TRIBAL POPULATION IN BUFFER ZONE	TOTAL POPULATION INSIDE PARK	TRIBAL POPULATION INSIDE PARK
J&K/N/DAC	35	0	0				
J&K/N/HEM	15						
J&K/N/KIS	6			1005	327	1005	327
KAR/N/BAN	0	0	0	0	0	0	0
KAR/N/BANN	0	0	0	0	0	0	0
KAR/N/NAG	20	300	30	12884	8375	13184	8405
KER/N/ERA				0	0	0	0
KER/N/PER	5	0	0	2000	1500	2000	1500
KER/N/SIL	0	0	0	0	0	0	0
MAH/N/NAW	3					450	300
MAH/N/PEN	31	0144	1070	9871	4935	20015	6005
MAH/N/SAN	6	0	0	SOME		SOME	
MAH/N/TAD	0					0	0
MAN/N/KEI							
MAN/N/SIR	0					0	
MP/N/BAN	6					1584	
MP/N/FOS						100000	
MP/N/IND	186	5456	5456				
MP/N/KAN	22	10,202	15,752			4412	3971
MP/N/KANG							
MP/N/MAD	0					0	0
MP/N/PAN	18					3601	SOME
MP/N/PEN							
MP/N/SAN	52					8000	6400
MP/N/SAT	8					800	800
MP/N/VAN	0					0	0
ORI/N/SIM	Ö					Õ	.0
RAJ/N/DES							20
RAJ/N/KEO	0				55	0	0
RAJ/N/RAN	4	1215	0	0	0	1215	0
RAJ/N/SAR	28	1160	410	1760	0	2920	410
SIK/N/KHA	0		0.843.50	141100		. 0	
IN/N/GUI	0	0	0	0	0	Ö	0
UP/N/COR	0		· · ·			ŏ	õ
UP/N/DUD	39	500	500	16000	16000	16500	16500
UP/N/NAN							100 M 100 M 100 M
UP/N/VAL						0	0
WB/N/SUN						õ	ŏ
*						<b>M</b>	M

Table - 7.2 (HUMAN POPULATION IN ADJACENT AREAS OF PARKS)

CODE .	TOTAL POPULATION IN ADJACENT AREAS OF PA	TRIBAL POPULATION IN ADJACENT RK AREAS OF PAR	TOTAL NUMBER OF VILLAGES ADJACENT TO RK THE PARK
A&N/N/MAR	2364		4
A&N/N/MID	0	0	0
A&N/N/MOU			
A&N/N/NOR	0	0	0
A&N/N/SAD	0	0	0
A&N/N/SOU	0	0	0
ARU/N/NAM	5830	4664	26
GOA/N/BHA			
GUJ/N/BAN			
GUJ/N/GIR			232
GUJ/N/MAR	2012/01/01/04		
GUJ/N/VEL	7000	0	5
HP/N/GRE			
HP/N/PIN	and the second second		
J&K/N/DAC	SOME	SOME	29
J&K/N/HEM			-75-75.0
J&K/N/KIS			
KAR/N/BAN	. 23700	1185	27
KAR/N/BANN	200000	0	50.
KAR/N/NAG	55283	3870	45
KER/N/ERA			
KER/N/PER			
KER/N/SIL			
MAH/N/NAW	86604	17320	128
MAH/N/PEN	14126	9182	22
MAH/N/SAN	SOME		21
MAH/N/TAD	SOME		201
MAN/N/KET	35300	19768	18
MAN/N/SIR	2000	2000	4
MP/N/BAN			
MP/N/FOS			128
MP/N/IND			120
MP/N/KAN	211613	126332	436
MP/N/KANG	81212	63345	135
MP/N/MAD	26886	13443	65
MP/N/PAN	SOME		19
MP/N/PEN	1275.00.001775+		10
MP/N/SAN			52
MP/N/SAT			04
MP/N/VAN	30000	0	9
ORI/N/SIM	61000	10900	275
RAJ/N/DES	N.A. N.M.M.	10000	610
RAJ/N/KEO			
RAJ/N/RAN	SOME		29
RAJ/N/SAR	NOT THE		31

### Table - 7.2 (...contd)

CODE	TOTAL	TRIBAL	TOTAL NUMBER		
	POPULATION	POPULATION	OF VILLAGES		
	IN ADJACENT	IN ADJACENT	ADJACENT TO		
	AREAS OF PARK	AREAS OF PARK	THE PARK		

0
0
4
137

### Encroachments

Only 3 parks (no table) recorded cases of encroachment between 1979 and 1984. These were, Marine (A&N), Sanjay Gandhi (MAH), and Keibul Lamjao (MAN).

Sanjay Gandhi (NAH) recorded 4247 cases of encroachment in 1979-80 and 4039 cases in 1983-84, which was far greater than the 23 cases in 1979-80 and 17 cases in 1983-84 recorded by Keibul Lamjao (MAN), and 70 cases recorded in 1983-84 by Marine (A&N).

\* Guindy (TN), is located within the city of Madras, and therefore, it does not seem likely that there are not any human settlements in adjoining areas of the park.

### Existence of Rights

According to the Wildlife (Protection) Act, 1972, all rights which exist in an area which has been declared a national park, are to be either extinguished or acquired (Section 35). 1 park, Bhagwan Mahavir (GOA), did not provide any information regarding the existence of rights while 26 other parks reported the non-existence of rights.

The remaining 25 parks (see tables - 8.1 to 8.4), reported the existence of rights. Of these:-

1. 6 parks, Bansda (GUJ), Gir (GUJ), Marine (GUJ), Hemis (J&K), Ranthambhore (RAJ) and Guindy (TN) national parks had been finally notified. In these 6 parks, of the 13 different kinds of rights for which information was gathered, Ranthambhore (RAJ) reported the existence of 5, Marine (GUJ) reported the existence of 4, Gir (GUJ) reported the existence of 3, and Bansda (GUJ), Hemis (J&K) and Guindy (TN) reported the existence of only one kind of right each.

2. 19 of the parks reporting rights had not been finally notified. These were; Marine (A&N), Great Himalayan (HP), Pin Valley (HP), Kishtwar (J&K), Bandipur (KAR), Periyar (KER), Nawegaon (MAH), Pench (MAH), Tadoba (MAH), bandhavgarh, Fossil (MP), Indravati (MP), Kanha (MP), Panna (MP), Sanjay (MP), Satpura (MP), Simlipal (ORI), Sariska (RAJ), and Corbett (UP).

Great Himalayan (HP) and Sariska (RAJ) reported the maximum ie; 9 different kinds of rights, while Sanjay (MP) and Satpura (MP) reported the existence of 6 kinds of rights. Kishtwar (J&K), Indravati (MP), Panna (MP) and Corbett (UP) reported the existence of 4 kinds of rights each. Periyar (KER), Nawegaon (MAH), Tadoba (MAH), and Bandhavgarh (MP) reported the existence of 3 kinds of rights, while Marine (A&N), Pin Valley (HP), Bandipur (KAR), Fossil (MP) and Kanha (MP) reported the existence of only 1 kind of right each.

Pench (MAH) did not provide information regarding the kinds of rights which exist in the park.

3. <u>Grazing rights</u> were reported from 14 parks : Bansda (GUJ), Gir (GUJ), Great Himalayan (HP), Pin Valley (HP), Hemis (J&K), Kishtwar (J&K), Nawegaon (MAH), Indravati (MP), Panna (MP), Sanjay (MP), Satpura (MP), Ranthambhore (RAJ), Sariska (RAJ) and Corbett (UP).

4. <u>Rights relating to religious vatras</u> were reported from 12 parks: Marine (A&N), Great Himalayan (HP), Kishtwar (J&K), Bandipur (KAR), Periyar (KER), Tadoba (MAH), Bandhavgarh (MP), Kanha (MP), Satpura (MP), Simlipal (ORI), Ranthambhore (RAJ), and Sariska (RAJ).

5. <u>Agricultural rights</u> were reported from 10 parks: Gir (GUJ), Marine (GUJ), Great Himalayan (HP), Periyar (KER), Fossil (MP), Indravati (MP), Panna (MP), Sanjay (MP), Simlipal (ORI), and Sariska (RAJ).

 <u>Rights relating to habitation</u> were also reported from 10 parks: Gir (GUJ), Great Himalayan (HP), Kishtwar (J&K), Indravati (MP), Panna (MP), Sanjay (MP), Satpura (MP), Similpal (ORI), Ranthambhore (RAJ), and Sariska (RAJ).

7. <u>Rights relating to fuelwood collection</u> were reported from 8 parks: Great Himalayan (HP), Hemis (J&K), Kishtwar (J&K), Panna (MP), Sanjay (MP), Satpura (MP), Sariska (RAJ), and Corbett (UP).

8. <u>Rights relating to religious monuments</u> were reported from 8 parks: Marine (GUJ), Great Himalayan (HP), Tadoba (MAH), Bandhavgarh (MP), Satpura (MP), Simlipal (ORI), Ranthambhore (RAJ) and Sariska (RAJ).

9. Rights relating to MFP. collection were reported from 6 parks: Great Himalayan (HP), Nawegaon (MAH), Tadoba (MAH), Sanjay (MP), Satpura (MP), and Simlipal (CRI).

10. <u>Rights relating to burial grounds</u> were reported from 5 parks: Nawegaon (MAH), Indravati (MP), Sanjay (MP), Simlipal (ORI) and Ranthambhore (RAJ).

11. <u>Quarrying rights</u> were reported from 4 parks: Marine (GUJ), Great Himalayan (HP), Simlipal (ORI), and Sariska (RAJ).

12. <u>Fishing and timber collecting rights</u> were reported from 3 parks each, which were; Marine (A&N), Periyar (KER) and Corbett (UP) and Great Himalayan (HP), Sariska (RAJ), and Corbett (UP) respectively.

13. <u>'Other Rights'</u> were also reported from 3 parks: Bandhavgarh (MP), Sariska (RAJ) and Guindy (TN).

Table - 8.1 (EXISTENCE OF RIGHTS - 1)

CODE	GRAZING RIGHTS	AREA OPEN FOR GRAZING (Ha.)	FISHING RIGHTS	AREA OPEN FOR FISHING (Ha.)
A&N/N/MAR			FISHERMEN	20000.00
GUJ/N/BAN	VILLAGERS			
GUJ/N/GIR	VILLAGERS	3559.05		
GUJ/N/MAR				
HP/N/GRE	NOMADS			
HP/N/PIN	SHEPHERDS	67500.00		
J&K/N/HEM	VILLAGERS	60000.00		
J&K/N/KIS	TRIBALS			
KAR/N/BAN				
KER/N/PER			TRIBALS	
MAH/N/NAW	VILLAGERS	60.10		
MAH/N/PEN				
MAH/N/TAD				
MP/N/BAN				
MP/N/FOS				
MP/N/IND	VILLAGERS			
MP/N/KAN				
MP/N/PAN	VILLAGERS	50000.00		
MP/N/SAN	VILLAGERS			
MP/N/SAT	VILLAGERS	10000.00		
ORI/N/SIM				
RAJ/N/RAN	VILLAGERS	21720.00		
RAJ/N/SAR	VILLAGERS			
TN/N/GUI				
UP/N/COR	VILLAGERS	19084.00	ALL	32998.00

# Table - 8.2 (EXISTENCE OF RIGHTS - II)

RIGHTS OF TIMBER	AREA OPEN FOR TIMBER COLLECTION (Ha.)	RIGHTS OF FUELWOOD	AREA OPEN FOR FUELWOOD COLLECTION (Ha.)	RIGHTS OF MFP	AREA OPEN FOR MFP COLLECTION (Ha.)
and a statement		and the second			
VILLAGERS		VILLAGERS		VILLAGERS	
		and a second	222222		
			60000.00		
		TRIBALS			
				UTLL AGUNG	
				VILLAGERS	133.88
				CONTRO & CONTROLO	11654,95
				CONTRACTORS	11004.90
		VILLAGERS	50000.00		
		VILLAGERS		VILLAGERS	
		VILLAGERS	10000.00	VILLAGERS	10000.00
				TRIBALS	10000100
VILLAGERS		VILLAGERS			
	100000				
YES	19084.00	YES	19084.00		
	TIMBER	TIMBER FOR TIMBER COLLECTION (Ha.) VILLAGERS	TIMBER FOR TIMBER FUELWOOD COLLECTION (Ha.) VILLAGERS VILLAGERS TRIBALS VILLAGERS VILLAGERS VILLAGERS VILLAGERS VILLAGERS	TIMBER FOR TIMBER FUELWOOD FOR FUELWOOD COLLECTION (Ha.) FOR TIMBER FUELWOOD COLLECTION (Ha.) (Ha.) VILLAGERS 60000.00 TRIBALS 60000.00 VILLAGERS 50000.00 VILLAGERS 10000.00 VILLAGERS 10000.00	TIMBER FOR TIMBER FUELWOOD FOR FUELWOOD MFP COLLECTION (Ha.) FUELWOOD MFP COLLECTION (Ha.) VILLAGERS VILLAGERS VILLAGERS VILLAGERS 60000.00 TRIBALS 60000.00 VILLAGERS CONTRACTORS VILLAGERS 10000.00 VILLAGERS 10000.00 VILLAGERS TRIBALS

# 53 .

### Table - 8.3 (EXISTENCE OF RIGHTS - III)

AAN/K/HAR GUJ/K/EAR GUJ/K/EAR GUJ/K/GTE VILLAGERS 1867.39 VILLAGERS 1867.39 VILLAGERS 70.00 HP/K/GFE VILLAGERS 70.00 HP/K/GFE VILLAGERS VILLAGERS VILLAGERS BP/K/PIN J&K/K/KIS VILLAGERS VILLAGERS VILLAGERS KAR/K/FAA KKR/K/FER PRIVATE 21.19 HAA/K/FAA HAA/K/FER HP/K/GS VILLAGERS 27.42 HP/K/IND VILLAGERS VILLAGERS VILLAGERS KR/K/EAN HP/K/EAN HP/K/EAN HP/K/EAN HP/K/SAF OXI/A/SAF OXI/A/SAF OXI/A/SAF COOPERATIVE 5000.00 VILLAGERS VILLAGERS VILLAGERS BAJ/K/FAAN VILLAGERS VILLAGERS VILLAGERS 5000.00 VILLAGERS VILLAGERS 5000.00 VILLAGERS VILLAGERS VILLAGERS 5000.00 VILLAGERS VILLAGERS VILLAGERS VILLAGERS VILLAGERS FOR THE STATE	CODE	QUARRYING RIGHTS	ABEN OPEN POB QUARBYING (Ma.)	AGRICULTURAL RIGHTS	AREA OPEN FOR AGRICULTURE (Ba.)	RIGHTS OF RABITATION	AREA OPEN FOR HABITATION (Ba.)
GUJ/K/GEE     VILLAGERS     1867.39     VILLAGERS     1867.39       GUJ/K/PAR     INDIVIDUALS     VILLAGERS     70.00     VILLAGERS       HP/K/GEZ     VILLAGERS     VILLAGERS     VILLAGERS       HP/K/GEZ     VILLAGERS     VILLAGERS     VILLAGERS       HP/K/GEZ     VILLAGERS     VILLAGERS     VILLAGERS       HP/K/GEZ     VILLAGERS     VILLAGERS     VILLAGERS       HP/K/FER     PEIVATE     21.19     XAR/N/PAR       HBA/K/PER     PEIVATE     21.19     XAR/N/PAR       HD/K/DD     VILLAGERS     VILLAGERS       HP/K/CS     VILLAGERS     VILLAGERS       HP/K/AN     VILLAGERS     VILLAGERS       HP/K/SAN     VILLAGERS     5000.00       HP/K/SAN     VILLAGERS     VILLAGERS	A&N/K/HAR						
GUJ/B/PAR INDIVIDUALS VILLAGERS 70.00 HP/R/GES VILLAGERS VILLAGERS VILLAGERS VILLAGERS HP/R/GES VILLAGERS VILLAGERS VILLAGERS HP/R/FIN JAK/B/HEN JAK/B/HEN KER/B/FER HEA/R/FER HEA/R/FER HE/B/FOS VILLAGERS 71.42 HP/N/IND VILLAGERS 71.42 HP/N/IND VILLAGERS VILLAGERS HP/N/FAN KE/M/FAN KE/M/FAN KE/M/FAN HE/M/FAN	GUJ/N/EAN						
HP/R/GRE VILLAGERS VILLAGERS VILLAGERS VILLAGERS HP/N/PIN J&K/R/REH J&K/R/REH J&K/R/REM KRR/R/PER HAL/R/PER HAL/R/PER HER/R/TAD HP/R/FOS VILLAGERS VILLAGERS VILLAGERS HP/R/FOS VILLAGERS 5000.00 VILLAGERS HP/R/FAN HP/R/FAN HP/R/SAR HP/R/SAR HP/R/SAR HP/R/SAR HP/R/SAR VILLAGERS VILLAGERS VILLAGERS HP/R/SAR HP/R/SAR VILLAGERS VILLAGERS VILLAGERS HP/R/SAR HP/R/SAR HP/R/SAR HP/R/SAR HP/R/SAR VILLAGERS	GUJ/N/GIR			VILLAGERS	1867.39	VILLAGERS	1867.39
HP/N/PIN J&K/N/PAN J&K/N/RAN XAR/N/PAN XAR/N/PAN XAR/N/PAN KRR/N/PER MAL/N/PEN MAL/N/PEN MEJ/N/TAD HP/N/RAN HP/N/PAN ME/N/LIND VILLAGERS	GUJ/M/HAR	INDIVIDUALS		VILLAGERS	70.00		
JAK/B/HEN JEK/B/REN JEK/B/RES XAR/N/RAS KRE/N/RES KRE/N/RES MAL/N/RES MAL/N/RES MAL/N/RES ME/N/RAS ME/N/RAS KE/N/RA	HP/E/GEE	VILLAGERS		VILLAGERS		VILLAGERS	
JEK/N/KIS VILLAGERS XAR/N/EAM KKR/N/FER PEIVAYE 21.19 KAR/N/FAB HAR/N/FAD HE/N/FOS VILLAGERS 27.42 HP/N/FOS VILLAGERS VILLAGERS HP/N/FAD VILLAGERS 5000.00 HP/N/FAM VILLAGERS 5000.00 HP/N/SAT VILLAGERS VILLAGERS HP/N/SAT VILLAGERS VILLAGERS	H2/N/PIN						
KAR/N/RAM KRR/N/PER PEIVATE 21.19 KAB/N/RAM HAA/N/PER HAA/N/PER HAA/N/PER HE/N/CS VILLAGERS 21.42 HP/N/LIND VILLAGERS VILLAGERS HP/N/KAN KF/M/CAN VILLAGERS 5000.00 WILLAGERS 5000.00 WILLAGERS VILLAGERS HP/N/SAT VILLAGERS VILLAGERS HP/N/SAT COOPERATIVE 5000.00 WILLAGERS VILLAGERS RAJ/N/RAM VILLAGERS VILLAGERS RAJ/N/RAM	J&K/H/HEM						
KRE/N/FER PEIVATE 21.19 HAN/N/FAM HAN/N/FER HEA/N/FER HE/N/FAM HE/N/FOS VILLAGERS 27.42 HF/N/FOS VILLAGERS VILLAGERS HE/N/FAM RF/N/FAM VILLAGERS 5000.00 WILLAGERS VILLAGERS 5000.00 HE/N/SAT VILLAGERS VILLAGERS HE/N/SAT VILLAGERS VILLAGERS RAJ/N/FAM VILLAGERS VILLAGERS RAJ/N/FAM	JEX/N/XIS					VILLAGERS	
HAH/N/NAW HAH/N/NAW HAH/N/TAD HE/N/FOS VILLAGERS 27.42 HE/N/IND VILLAGERS VILLAGERS HE/N/XAN HE/N/SAN VILLAGERS 5000.00 VILLAGERS 5000.00 HE/N/SAN VILLAGERS VILLAGERS VILLAGERS ORI/H/SIN COOPERATIVE 5000.00 VILLAGERS VILLAGERS RAJ/N/RAM VILLAGERS VILLAGERS RAJ/N/RAM VILLAGERS							
HAR/R/PEH HER/R/FAD HE/R/FAD HE/R/FAS HE/R/FAS HE/N/FAS HE/N/FAN HE/N	and the second se			PRIVATE	21.19		SF
MBH/N/TAD           MP/S/EAM           MP/S/EAM           MP/N/FOS         VILLAGERS           MP/N/IND         VILLAGERS           MP/N/IND         VILLAGERS           MP/N/IND         VILLAGERS           MP/N/EAM         VILLAGERS           MP/N/SAN         VILLAGERS           MP/N/SAN         VILLAGERS           MP/N/SAN         VILLAGERS           ORI/N/SIN         COOPERATIVE           S000.00         VILLAGERS           RAJ/N/RAN         VILLAGERS							
HE/N/EM         VILLAGERS         27.42           HE/N/FOS         VILLAGERS         VILLAGERS           HE/N/IND         VILLAGERS         VILLAGERS           KE/N/RAN         VILLAGERS         5000.00           ME/N/EAN         VILLAGERS         5000.00           ME/N/EAN         VILLAGERS         5000.00           ME/N/SAN         VILLAGERS         VILLAGERS           ORI/N/SAN         VILLAGERS         VILLAGERS           ORI/N/SAN         VILLAGERS         VILLAGERS           RAJ/N/RAN         VILLAGERS         VILLAGERS							
MP/N/FOG     VILLAGERS     27.42       MP/N/IND     VILLAGERS     VILLAGERS       NP/N/RAM     VILLAGERS     5000.00       NP/N/SAM     VILLAGERS     5000.00       NP/N/SAM     VILLAGERS     VILLAGERS       NP/N/SAT     VILLAGERS     VILLAGERS       QXI/N/SAT     VILLAGERS     VILLAGERS       RAJ/N/RAM     VILLAGERS     VILLAGERS	HER/R/TAD						
MP/N/IND VILLAGERS VILLAGERS NP/N/KNN RF/N/SAN VILLAGERS 5000.00 VILLAGERS 5000.00 NP/N/SAN VILLAGERS VILLAGERS VILLAGERS NP/N/SAT VILLAGERS VILLAGERS RAJ/N/RAN VILLAGERS VILLAGERS	HP/B/BAN						
NG/N/KAN NE/N/PAN VILLAGERS 5000.00 VILLAGERS 5000.00 NE/N/SAN VILLAGERS VILLAGERS VILLAGERS NE/N/SAT VILLAGERS ORI/N/SIN COOPERATIVE 5000.00 VILLAGERS VILLAGERS RAJ/N/RAN VILLAGERS					27.42		
NP/N/PAN         VILLAGERS         5000.00         VILLAGERS         5000.00           NP/H/SAN         VILLAGERS         VILLAGERS         VILLAGERS         VILLAGERS           MP/N/SAT         VILLAGERS         VILLAGERS         VILLAGERS         VILLAGERS           ORI/H/SIN         COOPERATIVE         5000.00         VILLAGERS         VILLAGERS           RAJ/K/RAM         VILLAGERS         VILLAGERS         VILLAGERS				VILLAGERS		VILLAGERS	
NE/N/SAN VILLAGERS VILLAGERS NE/N/SAT VILLAGERS ORI/N/SIN COOPERATIVE 5000.00 VILLAGERS VILLAGERS RAJ/N/RAM VILLAGERS	and the second second						
HP/N/SAT VILLAGERS ORI/H/SIM COOPERATIVE 5000.00 VILLAGERS VILLAGERS RAJ/N/RAM VILLAGERS				a second expense	5000.00		5000.00
ORI/H/SIM COOPERATIVE 5000.00 VILLAGERS VILLAGERS RAJ/H/RAM VILLAGERS				VILLAGERS			
RAJ/K/RAN VILLAGERS						A CONTRACTOR OF A CONTRACT OF	
		COOPERATIVE	5000.00	VILLAGERS			
				-			
RAJ/N/SAR VILLAGERS VILLAGERS VILLAGERS		VILLAGERS		VILLAGERS		VILLAGERS	
TR/E/GUI							
UP/N/COR	UP/N/COR						

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Table - 8.4 (EXISTENCE OF RIGHTS - IV)

CODE	RIGHTS OF RELIGIOUS YATRAS	APEA CPEN FOR RELIGIOUS YATRAS (Ha.)	RIGHTS OF RELIGIOUS HONOHENTS	AREA OPEN POR RELIGIOUS MONUMENTS (Na.)	rights of Burial grou	AREA OPEN IDS POR BURIAL GROUNDS (Ba.)	OTHER BIGHTS	
AAN/N/HAR GUJ/N/DAN GUJ/N/GIR GUJ/N/AR BP/N/GIR HP/N/PIN	HUSLINS VILLAGERS	1.00	DWARKA PEETH PBOPLE	1.00				
J&K/R/HEH J&K/N/KIS KAR/B/BAN	VILLAGERS VILLAGERS	20.00						
KER/H/PER HAH/K/NAW MAH/K/2EH	PILGRINS	27.00	3		VILLAGERS			
HAH/R/TAD	VILLAGERS	0.50	VILLAGERS	0.50				
HP/N/BAN	PILGRINS	232.10	TEMPLE TRUST	0.25			YES	
HP/N/POS HP/N/IND					VILLAGERS			
NP/R/KAR NP/R/RAR	VILLAGERS							
NP/R/SAR					VILLAGERS			
MP/N/SAT ORI/H/SIH RAJ/N/RAN RAJ/N/SAR TH/H/GOI	VILLAGERS TRIBALS PILGRINS TEMPLE TRUST	2500.00	HINDUS TRIBALS TEMPLE TRUS TEMPLE TRUS		VILLINGERS TES		YES YES	

### Grazing

The All India Survey on the Management of National Parks and Sanctuaries identified grazing as one of the main human related pressures on India's national parks. Although a finally constituted national park is legally closed to all disturbances, human and others, many parks are under pressure from grazing by domestic livestock. This may be due to the existence of local rights (not if a park has been finally notified) in a park or it may be illegal.

#### Extent of Grazing

1. While 5 parks did not give nay information, 27 parks (see tables 9.1 to 9.10) out of 52, reported the incidence of grazing. These were, Ehagwan Mahavir (GOA), Bansda (GUJ), Gir (GUJ), Marine (GUJ), Velavadar (GUJ), Great Himalayan (HP), Pin Valley (HP), Dachigam (J&K), Hemis (J&K), Kishtwar (J&K), Bandipur (KAR), Bannerghatta (KAR), Periyar (KER), Pench (MAH), Sanjay Gandhi (MAH), Keibul Lamjao (MAN), Bandhavgarh (MP), Indravati (MP), Satpura (MP), Simlipal (ORI), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Khangchendzonga (SIK), Corbett (UP), and Dudhwa (UP).

#### Geographical Distribution of Grazing

2. Of the parks listed above, three parks, Gir (GUJ), Pin Valley (HP), and Bandhavgarh (MP) reported grazing from both the core and buffer zone. In the case of Gir (GUJ), the buffer-zone is a sanctuary, while in the the case of Pin Valley (HP) and Bandhavgarh (MP), the buffer-zone is only notional and not notified as such.

3. Four parks reported grazing from inside the core-zone. These were: Banada (GUJ), Hemis (J&K), Satpura (MP), and Khangchendzonga (SIK). However, since none of these parks reported the existence of a bufferzone, this would imply that the entire park is open for grazing.

4. Five parks reported that grazing was confined to the buffer-zone. These were: Kishtwar (J&K), Ranthambhore (RAJ), Sariska (RAJ), Corbett (UP), and Dudhwa (UP). Except in the case of Sariska (RAJ), where the buffer-zone is a sanctuary, all the rest had only a notional bufferzone. Of these:

- 3 parks (Kishtwar (J&K), Ranthambhore (RAJ), and Sariska (RAJ)) reported that the livestock being grazed belonged to people living inside as well as in adjacent areas.

-1 park, Corbett (UP), reported that the livestock being grazed belonged to people living inside the boundary.

-1 park, Dudhwa (UP), reported that the livestock being grazed belonged to people living in adjacent areas.

<sup>\*</sup> Mount Harriet (A&N), also reported the incidence of grazing, but did not give any other details, and is therefore not included in this list.

5. Fifteen of the parks reporting incidence of grazing did not make available information regarding the location or source of the grazing pressure.

### Legal Status of Grazing Activities

6. According to The Wildlife Protection Act, 1972, no grazing can be allowed inside a national park (Section 35, sub-section 7). Yet, there were 11 legally constituted parks (for which the final notification had been issued), where, nevertheless, grazing took place. These were, Bansda (GUJ), Gir (GUJ), Marine (GUJ), Velavadar (GUJ), Dachigam (J&K), Hemis (J&K), Keibul Lamjao (MAN), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Khangchendzonga (SIK), and Dudhwa (UP).

7. Of the above listed eleven legally constituted parks:-

- There were 6 [Bansda (GUJ), Gir (GUJ), Dachigam (J&K), Ranthambhore (RAJ), Khangchendzonga (SIK), and Dudhwa (UP)} parks which reported that the grazing of livestock within the park was authorised.

-There were 4 {Marine (GUJ), Velavadar (GUJ), Keibul Lamjao (MAN), and Keoladeo Ghana (RAJ)} which reported that the grazing of livestock within the park was unauthorised.

-1 Park, Hemis (J&K), did not report whether the grazing prevalent was authorised or unauthorised.

8. There were 16 parks which reported grazing, but had not been legally constituted (for which the final notification had not been issued). These parks were, Bhagwan Mahavir (GOA), Great Himalayan (HP), Pin Valley (HP), Kishtwar (J&K), Bandipur (KAR), Bannerghatta (KAR), Periyar (KER), Pench (MAH), Sanjay Gandhi (MAH), Bandhavgarh (MP), Indravati (MP), Satpura (MP), Simlipal (ORI), Desert (RAJ), Sariska (RAJ), and Corbett (UP).

9. Of these, seven (Pin Valley (HP), Kishtwar (J&K), Bannerghatta -(KAR)-, Bandhavgarh (MP), Indravati (MP), Satpura (MP), and Sariska (RAJ)) reported only authorised grazing from within the park. Pench (MAH) reported both authorised and unauthorised grazing.

10. In addition, four parks reported only unauthorised grazing of livestock within the park. These were: Bhagwan Mahavir (GOA), Bandipur (KAR), Periyar (KER), and Simlipal (ORI).

11. The remaining four did not specify whether the grazing was authorised or unauthorised. These were: Great Himalayan (HP), Sanjay Gandhi (MAH), Desert (RAJ), and Corbett (UP).

### Percentage of Park Area Grazed

12. The percentage of area open for grazing varied from park to park. Five parks {Dachigam (J&K), Hemis (J&K), Bandhavgarh (MP), Satpura (MP), and Dudhwa (UP)} reported that less than than 33% of their area was being grazed in. Three parks {Kishtwar (J&K), Sariska (RAJ), and Corbett(UP)} reported between 33% and 67%, and another three {Gir (GUJ), Pin Valley (HP), and Ranthambhore (RAJ)} over 67%.

### Table - 9.1 (GRAZING - I)

CODE	GRAZING BY CATTLE FROM VILLAGES IN THE PARK	GRAZING BY CATTLE FROM VILLAGES ADJACENT TO THE PARK	GRAZING BY CATTLE FROM OTHER PARTS OF THE STATE	GRAZING BY CATTLE FROM OUTSIDE THE STATE	
		2008. B. C. 28.			50000 S.C.C.S.S.
GOA/N/BHA	2000				2000
GUJ/N/BAN	2000				2000
GUJ/N/GIR	16947				16947
GUJ/N/MAR					
GUJ/N/VEL		50			50
HP/N/GRE	510				510
HP/N/PIN		518			518
J&K/N/DAC					
J&K/N/HEM					
J&K/N/KIS	163				163
KAR/N/BAN	0	2000	0	0	2000
KAR/N/BANN	0	200	0	0	200
KER/N/PER	0	2200	0	300	2500
MAH/N/PEN					
MAH/N/SAN					
MAN/N/KEI		10000			10000
MP/N/BAN	2490				2490
MP/N/IND	13860				13860
MP/N/SAT	800				800
ORI/N/SIM	5500	8550			14050
RAJ/N/DES	17637				17637
RAJ/N/KEO					
RAJ/N/RAN	643				643
RAJ/N/SAR		3677			3677
SIK/N/KHA					0011
UP/N/COR					
UP/N/DUD	16000				16000

### Table - 9.2 (GRAZING - 11)

		SHEEP FROM VILLAGES IN THE PARK	GRAZING BY SHEEP FROM VILLAGES ADJACENT TO THE PARK	GRAZING BY SHEEP FROM OTHER PARTS OF THE STATE	GRAZING BY SHEEP FROM OUTSIDE THE STATE	TOTAL NUMBER OF SHEEP GRAZING IN THE PARK
	GOA/N/BHA					
	GUJ/N/BAN					
	GUJ/N/GIR					
	GUJ/N/MAR					
	GUJ/N/VEL					
	HP/N/GRE	3602				3602
	HP/N/PIN		539			539
	J&K/N/DAC	2000				2000
	J&K/N/HEM	2250				2250
	J&K/N/KIS	157	7926	1590		1747
	KAR/N/BAN	0	1500	0	0	1500
	KAR/N/BANN	0	0	0	0	0
	KER/N/PER	0	0	0	0	0
	MAH/N/PEN	1800	15000			16800
	MAH/N/SAN					
	MAN/N/KEI					
	MP/N/BAN					
	MP/N/IND					
-	MP/N/SAT	000	0000			
	ORI/N/SIM RAJ/N/DES	300 54381	2000			2300
	RAJ/N/DES RAJ/N/KEO	04381				54381
	RAJ/N/RAN					
	RAJ/N/SAR		1000			1000
	SIK/N/KHA		1000			1000
	-UP/N/COR					
	UP/N/DUD					

### Table - 9.3 (GRAZING - III)

CODE	GRAZING BY GOATS FROM VILLAGES IN THE PARK	GRAZING BY GOATS FROM VILLAGES ADJACENT' TO THE PARK	GRAZING BY GOATS FROM OTHER PARTS OF THE STATE	GRAZING BY GOATS FROM OUTSIDE THE STATE	TOTAL NUMBER OF GOATS GRAZING IN THE PARK
GOA/N/BHA	500				500
GUJ/N/BAN	40				40
GUJ/N/GIR					
GUJ/N/MAR GUJ/N/VEL					
HP/N/GRE	2499				2499
HP/N/PIN	2.00	417			417
J&K/N/DAC					
J&K/N/HEM			1917 Ball 1917		10112422420
J&K/N/KIS	12	2002	1565	10207	1577
KAR/N/BAN	0	0	0	0	0
KAR/N/BANN	0	0	0	0	0
KER/N/PER	0	0	0	0	0
MAH/N/PEN					
MAH/N/SAN					
MAN/N/KEI	100				178
MP/N/BAN	178 2535				2535
MP/N/IND MP/N/SAT	50				50
ORI/N/SIM	2500	11700			14200
RAJ/N/DES	40956	11100			40956
RAJ/N/KEO	40000				10000
RAJ/N/RAN	494				494
RAJ/N/SAR		23016			23016
SIK/N/KHA		00,000 million			ಂಡವಾಡಗಳಲ್ಲಿ
UP/N/COR					
UP/N/DUD					
AND TRANSPORTED IN					

### Table - 9.4 (GRAIING - IV)

1	209E		CATTLE FROM VILLAGES ADJACENT TO		GRAIING BY PERAL CATTLE FROM OUTSIDE THE STATE	TOTAL NUMBER OF FERAL CATTLE GRAZING IN THE PARK	OTHER LIVESTOCK GRASING IN THE PARK	DETAILS OF OTHA LIVESTOCK GRAZING IN THE PARK
	GOA/N/BHA GUJ/N/BAH GUJ/N/GIR	325				325		E.
	GUJ/N/KAR GUJ/K/VEL						CAMELS	200 FROM ADJACENT VILLAGES
	HP/H/GRE							
	UP/N/PTH		669			669	HORSES AND DONKEYS	258 HORSES AND 400 DORKEYS BOTH FROM ADJACERT VILLAGES
	J&K/H/DHC							
	JAK/N/HEM JAK/K/KIS						EORSES	4 FEON PARK VILLAGES 87 FROM OTHER PARTS OF STATE
	KAR/N/BAR	0	0	0	0	0		time of print
	KAR/R/BANN	0	0	0	0 0	0		
	KER/I/PER	0	500	0	0	500		
	HAR/N/PEN	10003						
	MAX/X/SAX	100				100		
	HAR/R/KEL							
	HP/R/BAR							
	HP/R/IRD HP/R/SAT							
	ORI/H/SIN							
	RAJ/N/DES							
	BAJ/R/KEO		600					
	RAJ/N/RAN						CAHELS AND	145 FROM PARK
	and in Lynn						BULLS	VILLAGES
	BAJ/W/SAR							
	SIK/N/KRA						YAKS	70 FROM PARK VILLAGES
	UE/R/COL							1.000000
	UP/R/DOD							

## Table - 9.5 (GRASING - V)

CODE	ARE VILLAGES INSIDE	ARE VILLAGES INSIDE	ARE VILLAGES OUTSIDE	ARE VILLAGES CUTSIDE
	THE PARK PERMITTED	THE PARK PERMITTED	THE PARK PERHITTED	THE PARK PERKITTED
	TO GRAZE LIVESTOCK	TO GRAZE LIVESTOCK	TO GRAZE LIVESTOCK	TO GRAZE LIVESTOCK
	IN THE CORE ZONE	IN THE BOPPER SOME	IN THE CORE ZONE	TH THE BUFFER ZORE

GOA/N/BRA				
GUJ/R/BAR	Y		R	
GUJ/R/GER	Y Y H K	Y	y F H	R
GUJ/R/HAR	H	Y H	R	R R
GUJ/R/VEL	K		R	
HP/H/GR3				
HP/N/PIN	Y	ĩ	Y	Ĩ
J&K/N/DAC	Y N T	Y B	8	3
J&X/R/HEH	T		Y X S	
J&K/N/KIS		Ť R		T
KAR/N/BAN	N	R	Б	T
KAR/N/BAHH				
KER/N/PER	N	R	N	X.
MAH/N/EEH				
MAH/H/SAN	H	1	B	X
MAR/N/KET	H	N N T	B R N	N N Y
MP/R/BAN	Y	r	N	T
HP/N/IND				
MP/H/SAT	Ŧ		R	
ORI/N/SIM			8	8
RAJ/N/DES				
RAJ/R/KEO	N	8	8	X
RAJ/E/EAN	R	Ĩ	8	Y
RAJ/K/SAR	8	R T T	B B	N Y Y
SIK/H/XHA	R R Y		1.770	
UP/R/COR	R.	T	R	H
UP/H/DUD	I	I	х	T
			34	-

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	CODE	PERCENTAGE OF THE PARK AREA OPEN FOR GRAZING LIVESTOCK PRON VILLAGES INSIDE THE PARK	PERCENTAGE OF THE PARK AREA OPEN FOR GRAZING LIVESTOCK FROM VILLAGES OUTSIDE THE PARK	ISSUING AUTHORITY OF PERKITS FOR GRAZING	MONTRS DURING WHICH GRAZING IS PERMITTED
	GOA/R/BEA				
	GUJ/N/BAR				
	GUJ/N/GIR	100.00	0.00	LOCAL STAFF	AUGUST TO FEBRUARY
	GUJ/N/HAR	24 Dig 2			
	GUJ/X/VEL	0.00	0.00		
	HP/K/GRR		0016-0		
	HP/N/PIN	100.00	100.00	SETTLEMENT RIGHTS	
	JEK/R/DAC			(SHEEP FARM)	THEOUGHOUT YEAR
	JAK/N/HEM	30.00		(energy thin)	JUNE TO NOVEHBER
	J&K/N/KIS	40.00	40.00	WILDLIPE AUTHORITIES	HAY TO SEPTEMBER
	KAR/R/BAR	0.00	0.00	THE TRANSFER TOOL	
	KAR/R/BANK	0.00	0.00		
	KER/R/PER	0.00	0.00		
	HER / N/PER	4.00	4.00		
	HAR/R/SAR				
	HAR/A/SEA				
	HE/R/BAH	10.00		ED TRACTER	
	NP/K/IND	10.00		NO PERHITS	THROUGHOUT YEAR
	MP/B/SAT	5.00		FREE	Man Astantine Man
	ORI/E/SIN	2.00		FASE	THROUGHOUT YEAR
	RAJ/R/DES				
	RAJ/N/KEO	0.00	6.65		
			0.00		
-	RAJ/N/RAB	\$8.00	68.00	FIELD DIRECTOR	JULY TO OCTOBER
	RAJ/N/SAR	40.00	35.00	FOREST DEPT	THROUGHOUT TEAR
	SIK/N/EHA			PERMITS ROT ISSUED YE? PROPOSED TO ACQUIRE THE TO YAXS GRASING INSIDE THE PARK	
	UP/N/COR	36.60			
	UP/H/DOD		18.00		THROUGHOUT YEAR
					And a second second

# Table - 9.7 (GRAIING - VII)

10DE	NUMBER OF AUTHORISED CATTLE GRAZING IN THE PARX	NUMBER OF UN-AUTHORISED CATYLE GRAZING IN THE PARK	CATTLE HEAD FROM VILLAGES	GRAZING FEE FER CATTLE HEAD FROM VILLAGES CUTSIDE THE PARK
GOA/R/BHA		2000		
GUJ/N/EAR		1001-10		
GUJ/N/GIR	16947		2.00	
GUJ/N/MAR	0.2590245			
GUJ/R/VEL		50		
HP/N/GRE				
HP/N/PIN	518			
JAX/H/DAC				
JAK/N/HEM				
JAK/N/KIS	163			
KAR/N/BAN	0	2000	0.00	0.00
KAR/H/BANH	200	0	0.00	0.00
KER/R/PER	0	2500	0.00	0.00
NAH/N/PER			2.00	
HAE/R/SAE			A-10402020	
HAN/N/KEI		10000		
HP/H/BAN	2490		0.00	
HP/K/IND	13860 .			
HP/N/SAT	800			
ORI/N/SIM		14050		
RAJ/N/DES				
RAJ/N/XEO				
BAJ/H/RAH	643		0.53	
PAJ/N/SAR	3677		10.00	8.00
SIX/N/KER				1.11
B5/X/COS				
UP/R/DUD	16000		0.00	
A5191940	10000		0.00	

## Table - 9.8 (GRAZING - VIII)

CODE	RUMERE OF MUTHORISED Sheep grazing in The park	NUMBER OF UN-AUTHORISED SHEEP GRAIING IN THE PARK	SHEEP HEAD FROM VILLAGES	GRAZING FEE PER SHEEP HEAD FROM VILLAGES OUTSIDE THE PARK
GOA/N/BHA				
GUJ/R/BAN				
GUJ/N/GIR				
GUJ/H/HAR				
GUJ/N/VEL				
HP/R/GRE				
HP/N/PIN	539			
JAK/N/DAC	2000		0.00	
J&X/程/HEM				
JEK/N/KIS	1747		0.50	
KAR/H/BAN	0	1500	0.00	0.00
KAB/R/BANN	0	0	0.00	0.00
KER/H/PER	Ð	0	0.00	0.00
MAH/H/PEN	5000			5.55 B.T.
HAH/B/SAN				
HAN/R/KEI				
HP/H/EAN				
HP/N/IND				
把原门S放				
OR1/R/SIM		2300		
RAJ/H/DES				
RAJ/R/KEO				
RAJ/R/RAM				
RAJ/N/SAR	1000		1.00	1.00
SIX/N/KHA				
UP/S/COE				
09/N/060				

## Table - 9.9 (GRASING - IX)

CODE	NUMBER OF AUTHORISED GOATS GRAEING IN THE PARK	NUMBER OF UN-AUTHORISED CORTS GRABING IM THE PARK	GOATS HEAD FROM VILLAGES	GRAZING PES PER GOATS HEAD PROH VILLAGES OUTSIDE THE PARK
GOA/R/BHA		500		
GUJ/H/BAN	40			
GUJ/N/GIR				
GUJ/N/HAR				
GUJ/N/VEL				
HP/N/GRE				
HP/N/PIN	417			
JAK/M/DAC				
JEX/#/HEM				
J&X/H/XIS	1577		1.00	1.00
KAR/N/BAR	9	0	0.00	0.00
KAR/N/BANN	0	0	0.00	0.00
KER/H/PER	0	0	0.00	0.00
HAII / II / II III				
MAH/W/SAR				
HAN/K/KEI				
WP/N/BAN	178		0.00	
HP/N/IND	2535			
HP/H/SAT	50			
ORI/R/SIN		14200		
RAJ/8/DES				
RAJ/N/XEO				
RAJ/R/RAN	494		0.53	
RAJ/H/SAE	23016		1.00	1.00
SIK/N/KHA				
UP/N/COR				
UP/N/DUD				

Table - 9.10 (GRAZING - X)

CODE		DETAILS OF OTHER AUTHORISED LIVESTOCK GRAZING IN THE PARK	OTHER UN-AUTHORISED LIVESTOCK GRAZING IN THE PARK
GOA/H/HHA GUJ/K/HAR GUJ/N/GIR	325 FEBAL CATTLE	GRAZING FEE FOB BUPFALO BS. 1.00 PER HEAD HORSE BS. 1.50 PER HEAD CAMEL BS. 5.00 PER HEAD	
GUJ/N/MAR GUJ/N/VEL RP/N/GRE			200 CANELS
H2/R/2IN	PERAL CATTLE HORSES DORKEYS	569 PEEAL CATTLE 258 HORSES 400 DORKEYS	
J&K/N/DAC J&K/N/HEH			
JAX/N/KIS KAR/N/BAR KAR/N/BARR	91 HORSES		
KER/H/PER Haal/N/PER Har/N/PER Har/N/KEI HP/N/BAH HP/N/BAH HP/N/SAT ORI/N/SIH XAJ/N/DES			500 PERAL CATTLE
RAJ/K/KEO			600 FERAL CATTLE
KAJ/K/BAN	145 HEADS OF LIVESTOCK	GRAING FEE FOR BUFFALO RE. 6.38 PER HEAD CAMEL (TEAMSPORT) RE. 3.18 PER HEAD CAMEL (RIDING) RE. 6.30 PER HEAD BULLS RE. 1.06	10000001730-378020000
NAJ/N/SAR SIK/N/KNA NP/N/COR NP/N/DUD	70 YAKS		

## Forest Use in Park

20 parks reported that their forests were being used for loca. and/or industrial needs (See table 10). These parks were, Bhagwan Mahavir (GOA), Gir (GUJ), Great Himalayan (HP), Pin Valley (HP), Dachigam (J&K), Hemis (J&K), Kishtwar (J&K), Negarhole (KAR), Periyar (KER), Pench (MAH), Tadoba (MAH), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Panna (MP), Sanjay (MP), Satpura (MP), Simlipal (ORI), Corbett (UP), and Dudhwa (UP).

Of the above listed:-

1. The most extensive use of the forests was for MFP. collection which was reported from 16 parks, Bhagwan Mahavir (GOA), Gir (GUJ), Great Himalayan (HP), Pin Valley (HP), Dachigam (J&K), Kishtwar (J&K), Pench (MAH), Tadoba (MAH), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Sanjay (MP), Satpura (MP), Simlipal (ORI), Corbett (UP), and Dudhwa (UP).

2. Firewood/fuel collection and/or cutting was reported from 14 parks, Bhagwan Mahavir (GOA), Great Himalayan (HP), Hemis (J&K), Nagarhole (KAR), Periyar (KER), Pench (MAH), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Sanjay (MP) (MP), Satpura (MP), Simlipal (ORI), Corbett (UP), and Dudhwa (UP)

3. Timber collection and/or cutting was reported from 11 parks which were Bhagwan Mahavir (GOA), Great Himalayan (HP), Kishtwar (J&K), Periyar (KER), Pench (MAH), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Panna (MP), Simlipal (ORI), and Corbett (UP).

4. Felling/cutting of trees for industrial use was reported from only 6 parks which were Periyar (KER), Pench (MAH), Bandhavgarh (MP), Indravati (MP), Kanha (MP), and Simlipal (ORI).

5. All the parks except Periyar (KER), mentioned in (4) above reported the use of their forests for all the four categories of use asked for ie; industrial, timber, firewood/fuel, and MFP. Table - 10 (FOREST USE IN PARK)

CODE	PURPOSE OF FOREST USE	CUTTING/FELLING	LOPPING/COLLECTING
GOA/N/BHA	Timber Firewood/Fuel MFP		Yes Yes Yes (cane)
GUJ/N/GIR	MFP		Yes
HP/N/GRE	Timber Firewood/Fuel MFP		Yes Yes Yes
HP/N/PIN	MFP	*	Yes
J&N/N/DAC	MFP	~	Yes
J&K/N/HEM	Firewcod/Fuel		Yes
J&N/N/KIS	Timber MFP	Yes	Yes
KAR/N/NAG	Firewcod/Fuel		Yes
KER/N/PER	Industrial Timber Firewood/Fuel	Yes Yes Yes	Yes
MAH/N/PEN	Industrial Timber Fuelwood/Fuel MFP	Yes Yes Yes	Yes Yes Yes
MAH/N/TAD	MFP		Yes
MP/N/BAN	Industrial Timber Firewood/Fuel - MFP	Yes Yes Yes	Yes Yes Yes
MP/N/IND	Industrial Timber Firewood/Fuel MFP	Yes Yes Yes	Yes Yes Yes
MP/N/KAN	Industrial Timber Firewood/Fuel MFP	Yes Yes	Yes Yes Yes

CODE	PURPOSE OF FOREST USE	CUTTING/FELLING	LOPPING/COLLECTING
MP/N/PAN	Timber		Yes
MP/N/SAN	Firewood/Fuel MFP		Yes Yes
MP/N/SAT	Firewood/Fuel MFP		Yes Yes
ORI/N/SIM	Industrial Timber Firewood/Fuel MFP	Yes Yes Yes	Yes Yes
UP/N/COR	Timber Firewood/Fuel MFP	Yes	Yes Yes Yes
UP/N/DUD	Firewood/Fuel MFP		Yes Yes

## Tourism

Some of the National Parks in India are well known tourist destinations. Although regulated tourism may be desirable, unregulated, inappropriate, or high intensity tourism can become a major problem for the park management.

#### Tourist Access

Of the 52 national parks listed in table - 11.1, only 5 parks reported that they were not open for tourists. These parks were; Mount Harriet (A&N), Saddle Peak (A&N), Bhagwan Mahavir (GOA), Marine (GUJ), and Nanda Devi (UP). 7 parks did not give any information regarding this question. These were; Great Himalayan (HP), Silent Valley (KER), Nawegaon (MAH), Pench (MAH), Fossil (MP), Sanjay (MP), and Sunderban (WB).

Of the 40 parks which reported that they were open for tourists:-

1. 12 parks were reported to have less than or equal to 33% of their area open to tourists. These parks were; Dachigam (J&K), Hemis (J&K), Bandipur (KAR), Bannerghatta (KAR), Periyar (KER), Keibul Lamjao (MAN), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Madhav (MP), Van Vihar (MP), and Dudhwa (UP).

2. 2 parks were reported to have greater than 33% or less than 67% of their area open to tourists. These parks were; Kishtwar (J&K), and Satpura (MP).

3. 12 parks were reported to have greater than or equal to 67% of their area open to tourists. These parks were; Namdapha (ARU), Velavadar (GUJ), Nagarhole (KAR), Sanjay, Tadoba (MAH), Siroy (MAN), Kanger Ghati (MP), Simlipal, (ORI) Desert (RAJ), Keoladeo Ghana (RAJ), Guindy (TN), and Valley of Flowers (UP).

4. No information was provided in case of the rest of the parks (14) regarding percentage of park area open for tourists.

5. One way of reducing the impact of tourism on a habitat is to try and rotate the areas where tourists are allowed access. None of the parks, however, reported rotation of areas to be kept open for tourists.

#### Control Over Tourism

6. 8 parks reported that the park authorities did not have a full and final say on deciding how much of the park area was to be kept open for tourists. These were; Mount Harriet (A&N), Namdapha (ARU), Sanjay Gandhi (MAH), Tadoba (MAH), Fossil (MP), Kanger Ghati (MP), Satpura (MP), and Corbett (UP), while Nanda Devi (UP) reported that the question was irrelevant since tourism is not allowed in the park. 6 parks ie; Saddle Peak (A&N), Bhagwan Mahavir (GOA), Pin Valley (HP), Penoh (MAH), Sanjay (MP), and Desert (RAJ) did not provide any information regarding this question. The rest of the parks reported that the park authorities had a full and final say on deciding how much of the area was to be kept open for tourists. Of these, however, Great Himalayan (HP), Silent Valley (KER), Nawegaon (MAH), and Sunderban (WB), provided no information on whether the park was open to tourists or not, while Marine (GUJ), reported that it was closed to tourists.

7. 7 parks reported that the park authorities <u>did not have a full and</u> <u>final say in regulating the activities of tourists in the parks</u>. These were; Middle Button (AAN), Pin Valley (HP), Pench (MAH), Sanjay Gandhi (MAH), Kanger Ghati (MP), Corbett (UP), and Sunderban (WB), while Nanda Devi (UP) reported that the question was irrelevant since tourism was not allowed. 6 parks ie; Saddle Peak (AAN), Namdapha (ARU), Great Himalayan (HP), Keibul Lamjao (MAN), Fossil (MP), and Sanjay (MP) did not provide any information regarding this question. The rest of the parks reported that the park authorities had a full and final say in regulating the activities of tourists. In case of Silent Valley (KEP), Nawegaon (MAH), and Desert (RAJ), however, no information had been given in reply to whether the park was open to tourists or not, while Mount Harriet (AAN), Bhagwan Mahavir (GOA), and Marine (GUJ) were reported to be closed to tourists.

Of the 40 parks open for tourists:-

- Quantum of Visitors

8. 18 parks were visited by foreign tourists. The most popular park among the foreign tourists seemed to be Sanjay Gandhi (MAH), which was visited by 10,000 foreigners in 1983-84. The other parks which were visited by foreigners during the same year were:-

	Periyar (KER)	5041
2.	Keoladeo Ghana (RAJ)	2698
3.	Corbett (UP)	1638
4.	Bandipur (KAR)	906
5.	Kanha (MP)	568
6.	Bandhavgarh (MP)	304
		158
8.	Dudhwa (UP)	150
9.	Sariska (RAJ)	124
10.	Ranthambhore (RAJ)	110
11.	Gir (GUJ)	71
12.	Dachigam (J&K)	50
13.	Simlipal (CRI)	34
14.	Velavadar (GUJ)	13
15.	Desert (RAJ)	5
16.	Peoch (MAH)	2
17.	Keibul Lamjao (MAN)	2

9. Sanjay Ganghi (NAN) seemed to be the most popular park for tourists since it recorded the highest Lotal number of visitors to a park. It also recorded the highest number of visitors on an average, on peak days. This may be due to the close proximity of the park to Bombay. Parks which seemed popular tourist resorts were:-

	Name	Total Number of Visitors	Number of Visitors On Peak Days
1.	Sanjay Gandhi (MAH)	15,00,000	35,000
2.	Bannerghatta (KAR)	2,40,000	3,000
3.	Periyar (KER)	1,39,260	4,560
4.	Keoladeo (RAJ)	61,873	700
5.	Bandipur (KAR)	57,865	300
6.	Kanha (MP)	34,520	200
7.	Nagarhole (KAR)	24,158	560
8.	Corbett (UP)	19,621	300
9.	Sariska (RAJ)	18,441	-
10.	Gir (GUJ)	12,484	500
11.	Guindy (TN)	11,300	50

#### Entry charges for Visitors

10. 17 parks did not provide any information regarding entry charges for visitors. These were; Mount Harriet (A&N), Bhagwan Mahavir (GOA), Bansda (GUJ), Marine (GUJ), Great Himalayan (HP), Hemis (J&K), Nawegaon (MAH), Pench (MAH), Siroy (MAN), Fossil (MP), Indravati (MP), Kanger Ghati (MP), Pench (MP), Sanjay (MP), Nanda Devi (UP), Valley of Flowers (UP), and Sunderban (WB). Of these, 8 parks ie; Bansda (GUJ), Hemis (J&K), Siroy (MAN), Indravati (MP), Kanger Ghati (MP), Pench (MP), Sanjay (MP), and Valley of Flowers (UP) were reported to be open for tourists.

11. Entry charges were not levied by 8 parks, Namdapha (ARU), Pin Valley (HP), Kishtwar (J&K), Silent Valley (KER), Tadoba (MAH), Keibul Lamjao (MAN), Satpura (MP), and Van Vihar (MP).

12. The rest of the parks (27) reported a system of entry charges for visitors. The highest entry charges for foreigners (Rs. 25) were reported from Dudhwa (UP), while the highest entry charges for Indians (Rs. 20) were reported from Dachigam. The maximum charge for entering a park in a car was Rs. 10 and reported from 12 parks, while the maximum charge for taking a bus inside a park was Rs. 50 and reported from 4 parks. Saddle Peak (A&N) reported a system of entry charges even though it was reported to be closed to tourists.

13. 7 parks reported a concession on entry charges for students. These were; Marine (A&N), Middle Button (A&N), North Button (A&N), South Button (A&N), Dachigam (J&K), Eravikulam (KER), and Periyar (KER).

14. Dachigam (J&K) was the only park which reported a concession on entry charges for researchers.

#### Flood Lights for Viewing

15. Only 2 parks, Sariska (RAJ) & Tadoba (MAH) reported the use of flood lights for night viewing.

## Places of Tourist Interest

12. Existence of places of Historical/Religious/Cultural interest was

reported from 23 parks. These were; Bhagwan Mahavir (GOA), Gir (GUJ),

Marine (GUJ), Pin Valley (HP), Hemis (J&K), Kishtwar (J&K), Bandipur (KAR), Bannerghatta (KAR), Periyar (NER), Sanjay Gandhi (MAH), Tadoba (MAH), Bandhavgarh (MP), Kanha (MP), Satpura (MP), Simlipal (ORI), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ),

Khangchendzonga (SIK), Dudhwa (UP), and Sunderban (WB)

#### Availability of Accommodation

13, 5 parks reported the un-availability of accommodation inside. These were; South Button (A&N), Kanger Ghati (MP), Van Vihar (MP), Nanda Devi

(MP), and Sunderban (WB), while 4 parks ie; Hemis (J&K), Siroy (MAN), Possil (MP), and Indravati (MP) did not provide any information regarding this question. The rest of the parks (43) reported the availability of accommodation inside.

# These parks were not reported to be open to tourists.

## Table - 11.1 (TOURISM - I)

CODE PARK OPEN PERCENTAGE OF IS THE TOURIST FOR TOURISTS? PARK AREA OPEN AREA ROTATED PERIODICALLY? FOR TOURISTS

A&N/N/MAR	Y.		N
A&N/N/MID	Ŷ		N
A&N/N/MOU	N		N
	Y		N
- A&N/N/NOR			N
A&N/N/SAD	N		N
A&N/N/SOU	Y		14
ARU/N/NAM	¥	100.00	
GOA/N/BHA	N		0.02
GUJ/N/BAN	Y		- N
GUJ/N/GIR	У	+	N
GUJ/N/MAR	N		N
GUJ/N/VEL	Y	100.00	N
HP/N/GRE			N
HP/N/PIN	Y		N
J&K/N/DAC	Y	30.00	N
J&X/N/HEM	Y	5,00	N
J&K/N/KIS	Y	60.00	N
KAR/M/BAN	ŷ	9.47	N
XAR/N/BANN		4.00	N
KAR/N/NAG	¥	 90.00	N
KER/N/ERA	Ŷ	0.00	N.
and the second s			***
KER/N/PER KER/N/SEL	X	7,00	N

CODE	PARK OPEN	PERCENTAGE OF	IS THE TOURIST
	FOR TOURISTS?	PARK AREA OPEN	AREA ROTATED PERIODICALLY?
		FOR TOURISTS	

MAH/N/NAW					N
MAH/N/PEN					
MAH/N/SAN	Y		100.00		N
MAH/N/TAD	Y		100.00		N
MAN/N/KET	Y	37.0	30.00		N
MAN/N/SIR	Y		100.00	- 12 - 12	N
MP/N/BAN	Y		23.00		
MP/N/FOS					
MP/N/IND	Y		15.00		
MP/N/KAN	Y		26.00		N
MP/N/KANG	Y		100.00		N
MP/N/MAD	Y		30.00		N
MP/N/PAN	Y				N
MP/N/PEN	Y				N
MP/N/SAN					
MP/N/SAT	Y		50.00		N
MP/N/VAN	Y		12.00		N
ORI/N/SIM	Y		88.00		N
RAJ/N/DES	Y		100.00		N
RAJ/N/KEO	Y		100.00		N
RAJ/N/RAN	Y				N
RAJ/N/SAR	Y				N
SIK/N/KHA	Y				
TN/N/GUI	Y		100.00		N
UP/N/COR	Y				N
UP/N/DUD	Y		10.00		N
UP/N/NAN	N				I
UP/N/VAL	Y		100.00		N
WB/N/SUN					N
nul in Dun					14

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## Table - 11.2 (TOURISM - II)

CODE	FULL SAY OF PARK OFFICIALS ON AREA OPEN FOR TOURISTS?	IF NOT, THEN WHO HAS A SAY 🎔	FULL SAY OF PARK OFFICIALS ON ACTIVITIES OF TOURISTS?	IF NOT, THEN WHO HAS A SAY
A&N/N/MAR	Y		Y	
A&N/N/MID	Ŷ		Ň	
A&N/N/MOU	N	CWLW	Y	
A&N/N/NOR	Y		Ŷ	
A&N/N/SAD		(NO PROCEDURE LATD		(NO PROCEDURE LAID
		DOWN SO FAR)		DOWN SO FAR)
A&N/N/SOU	Y		Y	
ARU/N/NAM	N		- 1945 - 1945	DFO
GOA/N/BHA			Y	
GUJ/N/BAN	Y		Y	
GUJ/N/GIR	Y		Y	
GUJ/N/MAR	Y		Y	
GUJ/N/VEL	Y		Y	
HP/N/GRE	Y			
HP/N/PIN			N	
J&R/N/DAC	Y		Y	
J&K/N/HEM	Y		Y	
J&K/N/KIS	Y		Y	
KAR/N/BAN	Y	a na analas area	Y	
KAR/N/BANN	Y	CWLW	Y	
KAR/N/NAG	Y		Y	
KER/N/ERA	Y		Y	
KER/N/PER	Y		Y	
KER/N/SIL	Y		Y	
MAH/N/NAW	Y		YN	
MAH/N/PEN	N	STATE COUT	500	CRIATE COMP
MAH/N/SAN	и	STATE GOVT, ADVISED BY NP ADVISORY COMMITTEE	N	STATE GOVT
MAH/N/TAD	N	CWLW	Y	
MAN/N/KEI	Y		-	
MAN/N/SIR	Y		Y	
MP/N/BAN	Y		Y	
MP/N/FOS	N	NOT NOTIFIED AS PARK		
MP/N/IND	Y		Y	
MP/N/KAN	Y		Y	
MP/N/KANG	N	NP IN INITIAL STAGE: CONTROL AFTER COMPLETION	N	NO ONE
MP/N/MAD	Y		Y	
MP/N/PAN	Y		Y	
MP/N/PEN	Y		Y	
MP/N/SAN				
MP/N/SAT	N		Y	

CODE		FULL SAY OF PARK OFFICIÀLS ON AREA OPEN FOR TOURISTS?	IF NO WHO H			FULL SAY OF PARK OFFICIA ON ACTIVITIE OF TOURISTS?	
MP/N/VAN						Y	
	•	Y Y				Y	
ORI/N/SIM		Ŷ				Y	
RAJ/N/DES		(Sala)				Y	
RAJ/N/KEO		Y				Y Y Y Y	
RAJ/N/RAN		Y				Y	
RAJ/N/SAR		Y				Y	
SIK/N/KHA		Y				Y	
TN/N/GUI		Ŷ				Y	
UP/N/COR		Y Y Y Y N	CWLW	WITH	STATE	Y Y Y	CWLW
			GOVT		~~~~~		C.L.I.
UP/N/DUD		v	GOAT			v	
UP/N/NAN		Y Y Y				Y I Y N	
		v				T T	
UP/N/VAL		-1				I	
WB/N/SUN		Ŷ				N	NO CONTROL OVER NON FOREST DEPARIMENT OFFICIALS

Table - 11.3 (TOURISM - III)

CODE	NUMBER OF FOREIGN TOURISTS	NUMBER OF INDIAN TOURISTS	NUMBER OF CASUAL VISITORS	TOTAL NUMBER OF VISITORS
A&N/N/MAR				
A&N/N/MID				
A&N/N/MOU				
A&N/N/NOR				
A&N/N/SAD	0	0	0	0
A&N/N/SOU				
ARU/N/NAM				
GOA/N/BHA				
GUJ/N/BAN	0	0	220	220
GUJ/N/GIR	71	3053	9360	12484
GUJ/N/MAR				1500
GUJ/N/VEL	13	264	2688	2965
HP/N/GRE				
HP/N/PIN				
J&K/N/DAC	50	24	670	744
J&K/N/HEM				
J&K/N/KIS				
KAR/N/BAN	906	24694	32265	57865
KAR/N/BANN	0	0	240000	240000
KAR/N/NAG	158	8000	16000	24158

CODE	NUMBER OF FOREIGN TOURISTS	NUMBER OF NINDIAN TOURISTS	NUMBER OF CASUAL VISITORS	TOTAL NUMBER OF VISITORS
KER/N/ERA	0	0	95	95
KER/N/PER	5041	õ	134219	139260
KER/N/SIL		(A)		
MAH/N/NAW		1500	5000	0504
MAH/N/PEN	2 10000	1522	5000	6524
MAH/N/SAN	10000	1000000	500000	1510000
MAH/N/TAD MAN/N/KEI	2	2	3938	3942
MAN/N/SIR	6	1000	2000	3000
MP/N/BAN	304	3923	1087	5314
MP/N/FOS	004	5525	1007	0014
MP/N/IND	0	0	300	300
MP/N/KAN	568	28053	5899	34520
MP/N/KANG				
MP/N/MAD				
*				
MP/N/PAN	0	0	0	0
*				
MP/N/PEN	0	0	0	0
MP/N/SAN				
MP/N/SAT	0	0	1000	1000
*	0			
MP/N/VAN	0 34	2500	1770	7004
ORI/N/SIM RAJ/N/DES	5	2500	4770 2500	7304 2507
RAJ/N/KEO	2698	1665	57510	61873
RAJ/N/RAN	110	1000	57510	01010
RAJ/N/SAR	124	14	18303	18441
SIK/N/KHA	101	11	10000	0
TN/N/GUI	0	0	11300	11300
UP/N/COR	1638	9710	8273	19621
UP/N/DUD	150	5429	0	5579
UP/N/NAN		04-01728	-	
UP/N/VAL WB/N/SUN	0	0	2064	2064

\* All these parks were reported to be open for tourists. The lack of any data on the number of visitors may be because of an absence of any record.

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Table -	11.4	(TOURISM	-	IV)

CODE	NUMBER OF VISITORS ON PEAK DAYS	ENTRY CHARGES FOR FOREIGNERS	FOR	ENTRY CHARGES FOR CARS	ENTRY CHARGES FOR BUSES	OTHER CHARGES IF ANY	
&N/N/MAR		2,00	1.00	2.00	3.00	STUDENTS RS 0,50 (INDIANS) RS 1 (FOREIGNERS): MANUALLY OPERATED	
A&N/N/MID		2.00	1.00	3		VEHICLES RS 1 STUDENT (INDIAN) RS 0.50: (FOREIGNER) RS 1	
A&N/N/MOU A&N/N/NOR		2.00	1.00		9	STUDENTS RS 0.50 (INDIAN) RS 1.00 (FOREIGNERS)	
A&N/N/SAD A&N/N/SOU	ar La g	2.00 2.00	1.00 1.00			STUDENTS RS 0.50 STUDENTS RS 0.50 (INDLANS) RS 1 (FOREIGNERS)	
ARU/N/NAM GOA/N/BHA		NL	NL	NL	NL		
GUJ/N/BAN GUJ/N/GIR GUJ/N/MAR	500	5.00	1.00	5.00	20.00	6	
GUJ/N/VEL	: 70	15.00	2.00	5.00	20.00	ENTRY FOR CHILDREN RS 0.50	
HP/N/GRE							
HP/N/PIN J&K/N/DAC		1 20.00	NL 20.00	NL 5.00	NL 10.00	STUDENTS/TEACHERS RS 1 RESEARCHERS RS 1	
J&K/N/HEM	3						
J&K/N/KIS KAR/N/BAN	300	NL 3.00	NL 1.00	NL 10.00	NL 15.00	GUIDE CHARGES RS 3 PER VEHICLE	
KAR/N/BANN	3000	1,00	1.00			(ABOVE CHARGES HALF FOR CHILDREN) LION SAFARI RS 3 (ADULTS) RS 2 (CHILDREN): HERBIVORES SAFARI RS 2 (ADULTS) RS 1 (CHILDREN): SNAKE PARK RS 1 (ADULTS) RS 0.50 (CHILDREN): ELEPHANT RIDES RS 2 (ADULTS) RS 0.50 (CHILDREN)	

		Table	e - 11.4	(cont	d)	
CODE	NUMBER OF VISITORS ON PEAK DAYS	ENTRY CHARGES FOR FOREIGNERS	FOR	ENTRY CHARGES FOR CARS	ENTRY CHARGES FOR BUSES	OTHER CHARGES IF AN
(AR/N/NAG	560	3.00	1.00	10.00	15.00	GUIDE CHARGES RS 3
KER/N/ERA	35	0.50	0.50			PER VEHICLE 0.25 FOR STUDENTS
KER/N/PER	4560	2.00	2.00	5.00	25.00	(ENTRY) ENTRY FOR CHILDREN AND STUDENT PARTIES-RS 1 PER PERSON: BOATING CHARGES-RS 4 PER PERSON
KER/N/SIL MAH/N/NAW						in an
MAH/N/PEN	5200					
MAH/N/SAN	35000			5.00	10.00	2-WHEELERS RS 2: CYCLE RS 0.50: TONGA RS 1
MAH/N/TAD	1000	NL	NL	NL	NL	intere inte
MAN/N/KEI MAN/N/SIR	300 400	NL	NL	NL	NL	
MP/N/BAN	50	1.00	1.00	10.00	15.00	JEEP RS 3.50 PER KM PER PERSON: ELEPHANA RS 20 PER HOUR FOR 4 PERSONS
MP/N/FOS MP/N/IND						
MP/N/KAN	200	2,00	2.00	10.00		(ABOVE CHARGES FOR ENTRY DO NOT APPLY FOR FIRST 5 PERSONS IN GROUP): EDUCATIONAL TOUR RS 10 PER VEHICLE: ELEFHANT RS 20 PER HOUR: GUIDE CHARGE RS 3 PER HOUR: Smm CAMERA RS 10 PER DAY: 16mm CAMERA RS 50 PER DAY: 35mm CAMERA RS 200 PER DAY
MP/N/KANG				127220		
MP/N/MAD		1.00	1.00	10.00		(ABOVE CHARGES FOR INDIVIDUALS ARE FOR SAILING CLUB AREA)
MP/N/PAN	1	1.00	1.00	10.00		CHILDREN RS 0.25: MEDIUM VEHICLES RS 15

CODE	NUMBER OF VISITORS ON PEAK DAYS	ENTRY CNARGES FOR FOREIGNERS	FOR		ENTRY CHARGES FOR BUSES	OTHER CHARGES IF ANY
MP/N/PEN MP/N/SAN MP/N/SAT MP/N/VAN ORI/N/SIM	300 150 31158 2000	NL NL 2.00	NL NL 1.00	NL NL 5.00	NL NL 10.00	MOVIE CAMERA RS 10 (INDIANS) RS 50 (FOREIGNERS) FOR AMATEURS AND RS 100 (INDIANS) RS 200 (FOREIGNERS) FOR PROFESSIONALS: STILL CAMERA RS 2 (INDIANS) RS 5 (FOREIGNERS) FOR AMATEURS AND RS 10
RAJ/N/DES RAJ/N/KEO RAJ/N/RAN	1500 700	5.00 10.00 10.00	1.00 2.00 2.00	10.00 10.00 10.00	50.00 50.00	(INDIANS) RS 20 (FOREIGNERS) FOR PROFESSIONALS 2-WHEELER RS 3: CYCLE RS 2: RICKSHAW RS 3: TONGA RS 8 CAMERA CHARGES: 8000 RS 10 (AMATEURS) RS 100 (PROFESSIONALS): 16MM RS 25
RAJ/N/SAR		10,00	2.00	10.00	50.00	(AMATEURS) RS 100 (PROFESSIONALS): 35MM RS 200: STILL RS 2 MOTORCYCLE RS 3: CYCLE RS 2: MINI-BUS RS 30: ANIMAL DRAWN VEHICLE RS 8: WATCH TOWERS RS 10 (INDIANS) RS 20
SIK/N/KHA TN/N/GUI	50	2.00	2.00	5.00		(FOREIGNERS) (AMERA CHARGES: STILL RS 1 PER DAY: 8MM MOVIE RS 10 PER DAY: 16MM MOVIE RS 50 PER DAY: 35MM MOVIE RS 100 PER DAY CAMERA 3.00, MOVIE CAMERA 12.00

				2	2	
CODE	NUMBER OF VISITORS ON PEAK DAYS		FOR	ENTRY CHARGES FOR CARS	ENTRY CHARGES T FOR BUSES	OTHER CHARGES IF ANY
UP/N/COR	300	10.00	2.50	10.00	50.00	ENTRY FOR CHARGES FOREIGNERS AND INDIAMS RS 6 PER DAY AFTER 3 DAYS: MOTORCYCLE RS
UP/N/DUD UP/N/NAN UP/N/VAL WB/N/SUN	100	25.00	4.00	10.00	30.00	5: CYCLE RS 2
KEY						
NL = NOT LEV	/IED					
	Tabl	le - 11.5 ('	IOURISM ·	- V)		
CODE		LIGHTS DE DR NIGHT PL				US/CULTURAL Y
A&N/N/MAR	N	N				
A&N/N/MID	N	N				
A&N/N/MOU	N	N				
A&N/N/NOR	N	N				
A&N/N/SAD	N	N				
A&N/N/SOU	N	N				
ARU/N/NAM	N	N				
GOA/N/BHA	N	HI MA	STORICAL HADEV TE	MPLES, AT	: DUDHSAGA	ND COLLEM,
GUJ/N/BAN	N	N				
GUJ/N/GIR	N	TU	LIGIOUS: LSISHYAM GROES (S.	: SIRWAN :	ANKAI, AND SETTLEMENT	OF AFRICAN
GUJ/N/MAR	N	RE	LIGIOUS:	PIROTAN	ISLAND PIR LE AT BET-	
AUJ/N/VEL HP/N/GRE	N	N	MAY, ARD	SUNA IEPP	DE AI DEL-	LWARDA
HP/N/PIN					TABO AND K	EY ARE
J&K/N/DAC	N	MA	IVA, VIS	AK CONSID	ERED ABODE NG AUG I BY HINDU	
J&K/N/HEM	N	MA			MPAS IN VA	

CODE	ARE FLOOD LIGHTS ALLOWED FOR NIGHT VIEWING?	DETAILS OF HISTORICAL/RELIGIOUS/CULTURAL PLACES INSIDE THE PARK, IF ANY
J&K/N/KIS	N	BRAMHA PEAK WITH TRISANDHA PILGRIM
100 M (10 M		CENTRE
KAR/N/BAN	N	RELIGIOUS: TEMPLES OF GOPALSWAMY, BELLADAKAPPE-MAHADESWARA, BARGI-MARIGUDI, BASAVESWAR (BEGU)
KAR/N/BANN	N	CHAMPAKADAMI TEMPLE, AND PREHISTORIC BURIAL AREAS
KAR/N/NAG	N	N
KER/N/ERA	N	N
KER/N/PER	N	RELIGIOUS: SABARIMALA TEMPLE VISITED BY
		LAKHS OF PILGRIMS IN SUMMER: MANGALA DEVI TEMPLE IN BUFFER ZONE
KER/N/SIL	N	
MAH/N/NAW	N	N
MAH/N/PEN	N	
MAH/N/SAN	N	KANHERI CAVES: GANDHI SMRUTI
		MANDIR: VARIOUS TEMPLES
MAH/N/TAD	ALL AREAS, ALL SEASONS	PILGRIMAGE FOR LOCAL PEOPLE
MAN/N/KEI	N	N
MAN/N/SIR	N	
MP/N/BAN	N	BANDHAVGARH FORT: SHESH SAYYA: CAVES AND ROCK SHELTERS OF OLD SETTLERS
MP/N/FOS		our and the stand stand of the bar there
MP/N/IND	N	
MP/N/KAN	N	RELIGIOUS: SHRAVAN TAL: SHRAVAN
1. / L1/ 4.0 M1		CHITA: DASHRATH MACHAN
MP/N/KANG	N	N
MP/N/MAD	N	
MP/N/PAN	N	N
MP/N/PEN	N	N
MP/N/SAN	N	N
MP/N/SAT	N	BADA MAHADEO TEMPLE WITH FAIR ON
IL / N/ SRI	h	MAHASHIVRATRI: NAGDWARI TEMPLE WITH FAIR ON NAGPANCHAMI
MP/N/VAN	N	N
ORI/N/SIM	N	HISTORICAL AND RELIGIOUS: RUINED TEMPLE AND TANK AT ATHARDEULI: OLD RUINED FORT AT RAJUPAL
RAJ/N/DES	N	RELIGIOUS SITE NEAR MIAJLAR, WITH GURU WORSHIPPED BY SODHA RAJPUTS
RAJ/N/KEO	N	RELIGIOUS: KEOLADEO, SAUTAN, SITA RAMJI KA, OLD SHIVA, AND OLD HANUMAN TEMPLES
RAJ/N/RAN	N	RANTHAMBHORE FORT, INCLUDING DARGAH, KAMAL DHAR, KHATOLA, SOLESHWAR: GANESH TEMPLE: ADA BALAJI: KASTURI MASJID: MISDARA, KACHIDA

CODE ARE FLOOD LIGHTS DETAILS OF HISTORICAL/RELIGIOUS/CULTURAL ALLOWED FOR NIGHT PLACES INSIDE THE PARK, IF ANY VIEWING?

RAJ/N/SAR	IN THE EVENING, ON RETURN JOURNEY OF TOURIST COACH	HISTORICAL: KANKWADI FORT, ARCHAFOLOGICAL: NEELKANT TEMPLE RELIGIOUS: PANDUPOL AND BHARTHARI TEMPLES, TALVRIKSH HOT SPRINGS
SIK/N/KHA	N	PEAKS WITH RELIGIOUS IMPORTANCE: KHANGCHENDZONGA (GUARDIAN DEITY OF SIKKIM), SINIOLCHU, PANDIM, AND PERNIDHANGCHEN
TN/N/GUI	N	N
UP/N/COR	N	N
UP/N/DUD	N N N	SATIMATH: RUINS OF GAURI SHAH FORT
UP/N/NAN	N	N ·
UP/N/VAL	N	N
WB/N/SUN	N	TIGER GODDESS TEMPLE AT NARAYANTALA CREEKSIDE

Table - 11.6 (TOURISM - VI)

CODE	INSIDE PARK	FUTURE PLANS FOR EXTENDING TOURIST FACILITIES	BEST MONTHS FOR VISITING THE PARK AND REASONS
A&N/N/MAR	Ŷ	NO PLAN TO ENCOURAGE TOURISM AS MARINE PARK IS FRAGILE	
A&N/N/MID	Y	TO INCREASE WATER TRANSPORT FACILITIES	NOVEMBER TO APRIL, FAIR WEATHER SEASON
A&N/N/MOU		(WILL BE MADE AFTER ISSUING OF FINAL NOTIFICATION)	
A&N/N/NOR	Y	TO INCREASE WATER TRANSPORT FACILITIES	NOVEMBER TO APRIL, FAIR WEATHER
A&N/N/SAD	Y	N	NOVEMBER TO APRIL, DRY SEASON
A&N/N/SOU	N	TO INCREASE WATER TRANSPORT FACILITIES	NOVEMBER TO APRIL, FAIR WEATHER
ARU/N/NAM	Y	3 TOURIST LODGES, 2 DORMITORIES, 4 WATCH TOWERS, 4 ELEPHANTS,	MARCH: WEATHER

CODE		FUTURE PLANS FOR EXTENDING TOURIST FACILITIES	BEST MONTHS FOR VISITING THE PARK AND REASONS
goa/n/bha	Y	WEEKLY CONDUCTED TOURS BY DEPARTMENT VEHICLES	OCTOBER TO MARCH SINCE CLIMATE IS PLEASANT: ANIMAL SIGHTING IS FREQUENT DUE TO ABUNDANCE OF WATER AND FODDER
guj/n/ban	ү	Ň	DECEMBER - JANUARY FOREST IS LUSH: APRIL - MAY, BETTER ANIMAL VISIBILITY
GUJ/N/GIR	Ŷ		AND APRIL TO MAY: WEATHER AND VISIBILITY IS GOOD
GUJ/N/MAR	Y	2 BEDROOM RESTHOUSE AT PIROTAN ISLAND UNDER CONSTRUCTION	NOVEMBER TO JANUARY COLD WEATHER MAKES ANIMALS COME OUT OF BURROWS
GUJ/N/VEL	Y	1 METADOR FOR TOURISTS: CIRCULAR ROAD COMPLETION: DORMITORY FOR STUDENTS	NOVEMBER TO
HP/N/GRE	¥		SEPTEMBER TO NOVEMBER LESS RAIN AND GOOD VISIBILITY: APRIL TO JUNE SINCE ANIMALS COME TO LOWER ALTITUDES
HP/N/PIN	Y		MAY TO OCTOBER, FAIR WEATHER ROAD OPEN
J&K/N/DAC	Ŷ.	HUIMENTS AT VARIOUS PLACES IN PARK FOR TREKKERS' USE: LIBRARY-CUM-RECREATIONAL HALL WITH CANTEEN OUTSIDE THE GATE	JUNE TO AUGUST BLACK BEAR SIGHTING SEPTEMBER TO MARCH SINCE KASHMIR
J&K/N/HEM		DORMITORIES AT PHEY, RUMBAK, SHINGGO, AND MARKHA	OPPER DACHIGAM SEPTEMBER TO MAY, PEAKS SNOW COVERED SO ANIMALS CONGREGATE ON FOOT OF MOUNTAINS
J&K/N/KIS	Ŷ		MAY TO OCTOBER: CLOSED REST OF THE YEAR

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CODE			BEST MONTHS FOR VISITING THE PARK AND REASONS
KAR/N/BAN*	У.	2371 HA ALONG KABINI RESERVOIR TO BE INCLUDED IN TOURISM ZONE, AND COTTAGES CONSTRUCTED THERE	JUNE TO OCTOBER: THE ONSET OF MONSOON RESULTS IN LOT OF GREENERY AND WATER SO ANIMALS SEEN EVERYWHERE
KAR/N/BANN	Ŷ	FORMATION OF SHELTERS AND CONSTRUCTION OF REST HOUSES	
KAR/N/NAG	Y	PUBLICITY BOARDS AND SIGN BOARDS: TWO MORE COTTAGES	
KER/N/ERA	Y	N	MARCH TO MAY. BEST CLIMATE
KER/N/PER	Y	ENVIRONMENTAL STUDY CENTRE AND DORMITORY UNDER CONSTRUCTION	DESEMBER TO MAY. CLIMATE IS PLEASANT AND CHANCES OF SIGHTING ANIMALS ARE GREATER.
KER/N/SIL	Y	CONSTRUCTION OF COTTAGES: IMPROVEMENT OF FOOTPATHS	SEPTEMBER TO MARCH.
MAH/N/NAW	Ŷ	TOURIST ACTIVITY CENTRED AROUND NAWEGAON LAKE, WHICH IS OUTSIDE PARK. NO FACILITIES, APPFOACH ROADS AVAILABLE AT PARK	BIRDS CAN BE SEEN
MAH/N/PEN	Y	N	NOVEMBER TO MARCH. FAIR WEATHER
MAH/N/SAN	Ŷ	PICNIC SPOTS, OUTDOOR CAMPS, WATER SPORTS, MOUNTAINEERING, HIKING, NATURE WALKS	OCTOBER TO MARCH. BETTER
MAH/N/TAD	Y	COTTAGE WITH 25 SUITS OUTSIDE PARK	NOVEMBER TO JUNE. VISIBILITY IMPROVED
MAN/N/KET	Y	CONSTRUCTED BY INDIA TOURIST DEVELOPMENT CORPORATION ON	JANUARY TO MARCH, GRASSES AND WEEDS LOW SO ANIMAL SIGHTING GOOD

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CODE	INSIDE PARK	FUTURE PLANS FOR EXTENDING TOURIST FACILITIES	BEST MONTHS FOR VISITING THE PARK AND REASONS
MAN/N/SIR		TOURIST LODGE AT FOOTHILLS OF PARK TO BE CONSTRUCTED BY STATE GOVT	APRIL TO JUNE. FLOWERING SEASON OF SIROY LILY (LILIUM MACKLINAE), IRIS SPP, RHODODENDRON SPP, ETC
MP/N/BAN	X	STATE TOURISM DEVELOPMENT CORPORATION IS CONSTRUCTING CHEAP ACCOMMODATION. TOURISTS SHOULD BE RESTRICTED TO 25 A DAY, AT PRESENT ARE 15 A DAY	MARCH TO JUNE. GREATER VISIBILITY OF
MP/N/FOS			NOVEMBER TO MAY. APPROACHABLE ONLY IN FAIR WEATHER
MP/N/IND		REST HOUSES AT BEDRE, FATEHGARH, AND BHOPALPATNAM	FEBRUARY, PLEASANT CLIMATE
MP/N/KAN	Ŷ	N (CARRVING CAPACITY OF 25000-30000 VISITORS ALREADY ATTAINED)	FEBRUARY TO JUNE. SIGHTING BETTER WITH LEAF FALL AND REDUCTION OF WATER POINTS
MP/N/KANG	N	Ν	MARCH TO JUNE. ANIMAL SIGHTING BEST SINCE GRASS AND UNDERGROWTH IS MINIMUM
MP/N/MAD	Y	TOURIST VILLAGE ON OUTSKIRTS OF PARK	APRIL TO JUNE AND OCTOBER TO FEBRUARY. EASY SIGHTING NEAR WATERHOLES: LUSH GREENERY
MP/N/PAN	Y	TIGER SHOW: TRANSPORT AND ACCOMMODATION LIKELY BY TOURISM DEPARTMENT AND PRIVATE HOTELIERS	DECEMBER TO APRIL. VISIBILITY BETTER: ANIMALS CONGREGATE NEAR WATER POINTS: ROADS IN GOOD SHAPE

10	CODE			BEST MONTHS FOR VISITING THE PARK AND REASONS
	MP/N/PEN	Y		MARCH TO JUNE, VISIBILITY BETTER IN DECIDUOUS FORESTS: CONCENTRATION OF ANIMALS AROUND WATERHOLES
	MP/N/SAN	Y	(UNDER CONSIDERATION)	JANUARY TO JUNE, ROADS ARE REPAIRED AFTER MONSOON IN NOVEMBER AND DECEMBER
	MP/N/SAT .		TOURIST COMPLEX AT CHURNA WITH 20 BEDS AND 2 JEEPS	
	MP/N/VAN	N	VISITS IN DEPT VEHICLES ON NOMINAL RATES: DRINKING WATER AND DAY SHELTERS	JULY TO SEPTEMBER, GREENER DURING RAINY SEASON
	ORI/N/SIM	У	1 FOREST LODGE UNDER CONSTRUCTION BY INDIA TOURIST DEVELOPMENT CORPORATION NEAR LULUNG	OCTOBER TO JUNE, SEASON OF TRIBAL FESTIVALS: WILDLIFE SIGHTING EASLER: TREES FLOWERING: ORCHIDS BLOOMING
	RAJ/N/DES	¥	TOURIST COMPLEX OF LOCAL STYLE AT MIAJLAR; JHOOMPAS TO GIVE DESERT LOOK TO VISITORS: CATERING FACILITIES	
	RAJ/N/KEO	Ŷ	BATTERY OPERATED ELECTRIC VAN: COIN OPERATED TELESCOPES: BIRD OBSERVATION POSTS: AUDITORIUM FOR FILM SHOWS	MARCH. MIGRATORY BIRDS CAN BE SEEN. JULY TO SEPTEMBER
	RAJ/N/RAN	Ŷ	OLD MONUMENT RAJBAGH BEING DEVELOPED	OCTOBER TO APRIL. GOOD SIGHTING OF ANIMALS, CLIMATE PLEASANT

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CODE		FUTURE PLANS FOR EXTENDING TOURIST FACILITIES	BEST MONTHS FOR VISITING THE PARK AND REASONS
RAJ/N/SAR	У	N .	NOVEMBER TO JUNE, ANIMAL CONCENTRATION INCREASES AFTER RAINY SEASON: ROADS AND HIDES ARE REPAIRED
SIK/N/KHA	Ŷ	IF TOURIST RESTRICTIONS LIFTED, HORSE, YAK RIDES: GUIDES: INFORMATION CENTRES: CAMPING FACILITIES: LOG HUIS	APRIL TO MAY.
TN/N/GUI	¥	CONSTRUCTION OF 2 WATCH TOWERS	
UP/N/COR	Ŷ	N .	MARCH TO MAY. CLEAR VISIBILITY, PLEASANT WEATHER, WILDLIFE CONCENTRATION DUE TO SHORTAGE OF WATER
UP/N/DUD	Y	N .	FEBRUARY TO APRIL. VISIBILITY AND CLIMATE GOOD
up/n/nan	N	N	APRIL TO OCTOBER, AREA IS SNOWBOUND REST OF THE YEAR
UP/N/VAL	Y	N	JULY TO AUGUST. FLOWERING TAKES PLACE.
WB/N/SUN	N	FLOATING ACCOMMODATION ADJACENT TO PARK	DECEMBER TO FEBRUARY, CROCODILES AND SALVATOR LIZARDS BASK OUTSIDE: BIOLUMINESCENCE OF WATER

## Permits

## Entry Permits

According to the Wildlife (Protection) Act, 1972, a national park is to be left undisturbed. Often, however, thoroughfares cross a park, and there is movement of people and vehicles on these. In addition, a park may be entered into by various people for a variety of reasons. One way of monitoring this traffic is to have a system of entry permits. Of the 52 national parks listed in table - 12:-

1. For 24 parks it was reported that permits were issued for entry of vehicles (table - 12, column - 1). For 17 parks it was reported that permits were either not issued or the question was irrelevant. There was no response to this question from 11 parks.

2. For 22 parks it was reported that permits were issued for entry of people on foot (Table - 12, column - 2). For 27 parks it was reported that permits were either not issued or the question was irrelevant. There was no response to this question from 3 parks.

3. For 14 parks, the issuing of entry permits for both vehicles as well as people on foot was reported. These parks were, Marine (A&N), Namdapha (ARU), Bansda (GUJ), Velavadar (GUJ), Dachigam (J&K), Bannerghatta (KAR), Periyar (KER), Silent Valley (KER), Madhav (MP), Desert (RAJ), Keoladeo (RAJ), Sariska (RAJ), Guindy (TN) and Corbett (UP).

### Registration of Arms

4. As per provisions of the Wildlife (Protection) Act, 1972, every person in possession of fire arms in and around a national park, has to register the fire arm with the Forest Department. Of the 52 national parks listed in table - 12 (column - 3), there were only 7 parks which reported the registration of arms. These were:-

1. Nagarhole (KAR)	- 684 fire arms
2. Bansda (GUJ)	- 143 fire arms
3. Pench (MAH)	- 107 fire arms
4. Great Himalayan (HP)	- 78 fire arms
5. Desert (RAJ)	- 74 fire arms
6. Corbett (UP)	- 34 fire arms
7. Tadoba (MAH)	- 17 fire arms

5. The local people living within or around national parks, and engaged in agriculture, often get into conflict with wildlife. In order to protect their crops, the people use guns to drive away animals, who might damaging their fields.

Of the 52 national parks listed in table - 12:-

6. The existence of crop protection guns was reported from 26 parks (table - 12, column - 4). Of these, only 2 parks ie; Pench (MAH) and Kanha (MP), reported that crop protection guns were surrendered at the

end of the cropping season. None of the other parks reported the surrendering of crop protection guns.

7. Crop protection gubs were not reported from 17 parks, while there was no response on this questions from 9 parks.

#### Hunting Permits (no table)

8. Although hunting is not allowed in national parks, the State Chief Wildlife Warden may, if necessary, issue permits for hunting of animals which have either been declared vermin, or are a hazard for humans ie; man-eating tigers etc. Only 3 parks (no table) reported the issuing of hunting permits: Simlipal (ORI), Ranthambhore (RAJ), and Dudhwa (UP).

A man-eating tigress was allowed to be hunted in Dudhwa (UP), while in Ranthambhore (RAJ), the purpose of issuing a hunting permit was to remove Wild Boar. No reasons for issuing permits were given in the case of Simlipal (ORI).

1.00			0
Table	•	12	(PERHITS)

800	ISSUING OF ENTRY PERMITS FOR VEHICLES	ISSUING OP ENTRY PERMITS POR PEOPLE	NUMBER OF FIRE ARMS. MEGISTERED WITH THE POREST DEPARTMENT	EXISTENCE OF CROP PROTECTION GURS IN	ARE CEOP PROTECTION GUNS SURRENDERED ?
	FOR VERICODD	ON POOT	INS FORDOL DEPARTMENT	AND AROUND PARKS	
AX/R/HAR	¥	Ŧ			
AR/N/HID		Ŧ	0	X	XA
AN/R/HM	H	8		X	NA
SR/N/NOR		¥	0	B	NA.
AN/R/SAD	8	N		H	MA
AR/R/SCO	I	N	0	8	HA
RU/N/RAM	Y	Y		Y	H
AND AND AND AND AND AND AND AND AND AND	2	5	0	Y	X
UJ/N/BAN	Ŧ	Y	143	Y	8
UJ/N/SIR	Y	H		T	3
UJ/N/MAR	I	I			
UJ/R/VEL	¥	¥		Ŧ	NA
P/N/GRE	н	B	78		
P/N/PIN	R.	x			
AK/R/DAC	Ŧ	Y		¥ ·	8
AX/N/HZH	R	Y		1	RA
ak/s/kis		Y		Y	R
AR/R/BAR	Y	8		Y	8
AR/N/BANN	Y	Y	0	N	HA
AB/N/NAG	¥	R	684	Y	8
ER/N/REA	H	Y		8	88
ER/N/PER	Y	Ŧ		Y	8
ER/N/SIL	Y	¥			
AR/R/RAW				Y	H
AH/R/PEN	H	B	107	T	r
AH/N/SAN	Y	N			
AH/H/TAD		Ň	17	N	HA
AN/X/TRI		Y	0	ĩ	R
AN/N/SIR				Y	8
P/N/BAN	Y	N		Y	8
P/#/FOS	H	R		N	NA.
P/H/IND	R	8		T	8
P/N/KAR	Y	N		Ŷ	Ŷ
P/R/KANG	N	R		Ĥ	RA
P/8/MAD	Ť	Y		¥	E
P/R/PAN	ř	B		Y	x
P/N/PEN	23	15220		Y	8
P/N/SNR		H		Y	N
P/R/SAT	R	8		¥	N
P/N/VAN	H	н	0	Ŷ	8
RI/N/STH	Y	B		Ŧ	5
AJ/N/DES	Y	Y	74	8	NA
AJ/H/KBO	Y	ř	155	ř	8
AJ/H/RAH	Ŷ	i		1.2	
AJ/N/SAR	Ŷ	Y		ĸ	HA
IK/H/KEA	R.	Ŷ	0	X	KA
many set sweets	Ÿ	Ŷ	ő	x	EA

	Table - 12 (contd)						
CODE	ISSUING OP ENTRY PERMITS FOR VERICLES	ISSUING OP ENTRY PERMITS FOR PEOPLE ON FOOT	RUMBER OF FIEB ARMS-REGISTERED WITH THE FOREST DEPARTMENT	EXISTENCE OF CROP PROTECTION GUNS IN AND AROUND PARKS	AEE CROP PROTECTION GURS SURREndered ?		
UP/H/COR	Ŧ	Ŧ	34	ī	8		
UP/H/DOD	Y		0	T	H		
UP/R/NAN	8	H			1000		
UP/R/VAL	-	Ŧ					
WB/N/SUN	N	X	0	B	SA.		

### Plantations

Plantation work is undertaken in many parks of India. In some cases, it is done for the improvement of habitat, while in others, it might be undertaken to divert the pressure of the local people on the park by planting trees for fuel and fodder etc or even for commercial reasons like timber etc. The 18 parks (see table - 13) which reported plantation activity were, Bhagwan Mahavir (GOA), Gir (GUJ), Marine (GUJ), Pin Valley (HP), Dachigam (J&K), Bannerghatta (KAR), Periyar (KER), Pench (MAH), Sanjay Gandhi (MAH), Tadoba (MAH), Keibul Lamjao (MAN), Kanger Ghati (MP), Panna (MP), Van Vihar (MP), Simlipal (ORI), Khangchendzonga (SIK), Keoladeo Ghana (RAJ) and Dudhwa (UP).

1. 6 parks, Bhagwan Mahavir (GOA), Gir (GUJ), Dachigam (J&K), Bannerghatta (KAR), Keoladeo Ghana (RAJ) and Dudhwa (UP), reported plantation work throughout the 5 year period between 1979 to 1984. For Gir (GUJ), Dachigam (J&K), Bannerghatta (KAR), and Keoladeo Ghana (RAJ), plantations were carried out only for wildlife. Dudhwa (UP) reported plantations for wildlife habitat as well as others. Bhagwan Mahavir (GOA) was the only park which did not report any plantations for wildlife habitat. It was also the only park which reported plantations for fuelwood and commercial timber, as well as bamboo.

2. Plantation work was carried out in 4 out of 5 years, between 1979 and 1984, by 3 parks. These were, Periyar (KER), Keibul Lamjao (MAN), and Simlipal (ORI). Keibul Lamjao (MAN) reported only wildlife habitat plantations, while Simlipal (ORI) reported plantations for commercial timber as well. Periyar (KER) reported plantations for wildlife habitat, fuelwood and other purposes.

3. Sanjay Gandhi (MAH), reported plantation activity in 3 years between 1979 and 1984. No information was provided regarding the objectives of these plantations.

4. 4 parks reported plantations activity in 2 years between 1979 and 1984. These were, Pench (MAH), Panna (MP), Van Vihar (MP) and Khangchendzonga (SIK). Pench (MAH) was the only park which reported plantations of commercial timber. Khangchendzonga (SIK)) and Van Vihar (MP) reported plantations for wildlife. Panna (MP) did not provide information regarding the objectives of plantations.

5. 4 parks reported plantation activities in only 1 year between 1979 and 1984. These were; Marine (GUJ), Pin Valley (HP), Tadoba (MAH) and Kanger Ghati (MP). Marine (GUJ) and Tadoba (MAH) reported plantations for wildlife habitat, Kanger Ghati (MP) for commercial timber and Pin Valley (HP) for other purposes.

6. The biggest plantations were reported from Gir (GUJ) where an area of 3012.91 ha, 2250.00 ha, and 2450.00 ha was planted in 1979-80, 1980-81 and 1981-82 respectively. The smallest plantation of 1.5 ha. was reported from Dachigam (J&K) in 1983-84.

# Table - 13 (PLANTATIONS)

(ha.) (ha.)	
GOA/N/BHA 1979-80 41.26 - 16.36 24.90 -	
1980-81 78.76 - 60.76 18.00 -	
1981-82 158.70 - 118.75 39.95 -	
1982-83 159.15 - 134.90 19.25 4.00 (Ban	H.
1983-84 110.00 - 110.00	
GUJ/N/GIR 1979-80 3012.91 3012.91	
1980-81 2250.00 2250.00	
1981-82 2450.00 2450.00	
1982-83 50.00 50.00	
1983-84 50.00 50.00 .	
GUJ/N/MAR 1986-87 250.00 250.00	
HP/N/PIN 1979-80 27.50 27.5	
J&K/N/DAC 1979-80 3.00 3.00	
1980-81 10.00 10.00	
1981-82 7.00 7.00	
1982-83 4.00 4.00	
1983-84	
KAR/N/BANN 1979-80 7.00 7.00	
1980-81 10.00 10.00	
1981-82 11.00 11.00	
1982-83 5.00 5.00	
1983-84 6.50 6.50	
KER/N/PER 1980-81 52.00 52	
1981-82 58.00 58	
1982-83 3.60 3.60	
1983-84 224.00 224.00	
MAH/N/PEN 1981-82 30.00 30	
1983-84 30.00 30	
MAH/N/SAN 1981-82 14.50	
1982-83 54.225	
1983-84 97.170	
MAH/N/TAD 1983-84 10.00 10.00	
MAN/N/KEI 1980-81 27.00 27.00	
1981-82 80.00 80.00	
1982-83 99.00 99.00	
1983-84 20.00 20.00	

CODE	YEAR	TOTAL AREA/ PLANTS PLANTED	WILDLIFE PLANTATIONS	FUEL WOOD PLANTATIONS	COMMERCIAL TIMBER PLANTED	OTHER PLANTATION
MP/N/KANG	1979-80	60.00			60	
MP/N/PAN	1981-82 1982-83	100.00				
MP/N/VAN	1982-83 1983-84	50.00	50.00 50.00			
ORI/N/SIM	1980-81 1981-82	250.98	210.00		40.98	
	1982-83	586.19	222.48 504.24		105.90 81.95	
SIK/N/KHA	1983-84 1981-82	25.00 30.00	30.00		25,00	
RAJ/N/KEO	1982-83 1979-80	10.00	10.00 10500 plants			
	1980-81 1981-82 1982-83	160.00	160.00 2500 plants 22,500 plants			
UP/N/DUD	1983-84 1979-80	24.00	7500 plants 24.00			
	1980-81 1981-82	33.70 2.50	2.50			33.70
	1981-82 1982-83 1983-84	65.00 50.00	5.00			60,00

## Use by Other Government Departments

The resources of many parks in India are used by Government Departments and agencies other than the Wildlife Wing of the Forest Department for various purposes. 26 parks (see tables 14.1 - 14.6) reported use by the other government departments. These parks were:-

- 1. Marine National Park, Andaman and Nicobar (Roads, Tourism)
- 2. Mount Harriet National Park, Andaman and Nicobar (Roads, Other uses)
- Namdapha National Park, Arunachal Pradesh (Hydel Power, Roads, 3. Tourism, Other uses)
- 4. Bhagwan Mahavir National Park, Goa (Tourism, Other uses)
- 5. Gir National Park, Gujarat (Irrigation, Roads, Transmission Lines)
- 6. Marine National Park, Gujarat (Other uses)
- 7. Pin Valley National Park, Himachal Pradesh (Irrigation, Roads, Other uses)
- Dachigam National Park, Jammu & Kashmir (Fisheries, Roads, Other 8. uses)
- 9. Kishtwar National Park, Jammu & Kashmir (Other uses)
- 10. Bandipur National Park, Karnataka (Roads, Transmission Lines, Other uses)
- 11. Bannerghatta National Park, Karnataka (Roads, Tourism)
- 12. Nagarhole National Park, Karnataka (Roads, Transmission Lines) 13. Periyar National Park, Kerala (Hydel Power, Roads, Tourism, Transmission Lines, Other uses)
- 14. Pench National Park (Hydel Power, Other uses)
- 15. Sanjay Gandhi National Park (Transmission Lines, Other uses)
- 16, Madhav National Park (Irrigation, Fisheries)
- 17. Panna National Park (Irrigation, Fisheries, Roads)
- 18. Pench National Park (Hydel Power)
- 19. Sanjay National Park, Madhya Pradesh (Irrigation, Roads, Transmission Lines)
- Van Vihar National Park (Roads) 20.
- 21. Simlipal National Park (Other uses)
- 22. Keoladeo Ghana National Park (Tourism)
- 23. Ranthambhore National Park (Irrigation)
- Sariska National Park, Rajasthan (Roads, Tourism, Transmission 24. Lines, Other uses)
- 25. Corbett National Park (Hydel Power)
- 26. Dudhwa National Park (Roads, Other uses)

The maintenance/construction of roads by other departments was 1. reported from 15 parks. Of these, 6 parks reported that the wildlife authorities had been consulted regarding the construction of roads. These were Mount Harriet (A&N), Namdapha (ARU), Periyar (KER), Van Vihar (MP) Sariska (RAJ) and Dudhwa (UP). Wildlife authorities objected in case of 2 parks which were Sariska (RAJ) and Dudhwa (UP). Wildlife authorities also objected in case of Sanjay (MP) National Park, despite the fact that they had not been consulted.

2. Tourism related activities were reported from 7 parks. OF these, wildlife authorities were consulted in case of 4 parks which were Namdapha (ARU), Periyar (KER), Keoladeo Ghana (RAJ) and Sariska (RAJ). No objection was raised regarding these activities. In case of Marine (A&N), objections regarding tourism were raised despite the fact that the wildlife authorities were not consulted.

3. Transmission lines were reported to be passing through 7 parks. Of these, wildlife authorities were consulted in case of Gir (GUJ), Periyar (KER) and Sariska (RAJ), while objections were raised only in case of Gir (GUJ).

4. Irrigation projects were reported from 6 parks. Of these, the wildlife authorities were consulted in case of 2 parks which were Gir (GUJ) and Madhav (MP), while objections were raised only in case of (GUJ).

5. Hydel power projects were reported from 5 parks. Of these, the wildlife authorities were consulted in case of only Pench (MAH), while objections were raised by wildlife authorities in case of Namdapha (ARU), and Corbett (UP) despite the fact that they were not consulted.

5. Fisheries were reported from 3 parks. Of these, wildlife authorities were consulted in case of Madhav (MP), and no objections were raised.

7. Other government uses were reported by 14 parks.

Table - 14.1 (USE BY OTHER GOVERNMENT DEPARTMENTS - I)

CODE	IRRIGATION PROJECT(S)	AFFECTED AREA IN HECTARES	CONTROLLED BY	WILDLIFE AUTHORITIES CONSULTED	DID WILDLIFE AUTHORITIES OBJECT	IMPACT ON-P
A&N/N/MAR						
A&N/N/MOU						
ARU/N/NAM	N					
GOA/N/BHA						
GUJ/N/GIR	Y	1813.64	FOREST DEPARTMENT	Y	Y	
GUJ/N/MAR						
HP/N/PIN	Y					
J&K/N/DAC						
J&K/N/KIS						
KAR/N/BAN	N	0.00				
KAR/N/BANN		0.00				
KAR/N/NAG	N	0.00				
KER/N/PER	N	0.00				
MAH/N/PEN						
MAH/N/SAN						
MP/N/MAD	Y	309.01	FOREST DEPARTMENT	Y	N	
MP/N/PAN	Y	2000.00		N	N	HUMAN WILDL
100.000			DEPARTMENT			CONFLICTS
MP/N/PEN						
MP/N/SAN	Y	100.00	IRRIGATION	N	N	
MP/N/VAN ORI/N/SIM	N					

# Table - 14.1 (...contd)

CODE	IRRIGATION PROJECT(S)	AFFECTED AREA IN HECTARES	CONTROLLED BY	WILDLIFE AUTHORITIES CONSULTED	DID WILDLIFE AUTHORITIES OBJECT	IMPACT ON PARK
RAJ/N/KEO RAJ/N/RAN	Ŷ	100.00	FOREST DEPARTMENT			
RAJ/N/SAR UP/N/COR UP/N/DUD	N		Dia rata di			
	Table	- 14.2 (US)	E BY OTHER GOVE	RNMENT DEPART	MENTS - II)	
CODE	HYDEL POWER PROJECT(S)	AFFECTED AREA IN HECTARES	CONTROLLED BY	WILDLIFE AUTHORITIES CONSULTED	DID WILDLIFE AUTHORITIES OBJECT	IMPACT ON PARK
A&N/N/MAR						
A&N/N/MOU						
ARU/N/NAM	Ч	8.00	FOREST DEPARTMENT	N	У	DISTURBANCE TO WILDLIFE
OA/N/BHA GUJ/N/GIR GUJ/N/MAR HP/N/PIN J&K/N/DAC	옷인					
J&K/N/KIS KAR/N/BAN KAR/N/BANN	N					
KAR/N/NAG	N					
KER/N/PER	Y	3200 00	TAMIL NADU	N		CONSIDERABLE
NEW WEEK	1	5200.00	PUBLIC WORKS	N		DISTURBANCE
MAH/N/PEN	Ŷ	1230.80	GOVERNMENT OF MAHARASHTRA AND MADHYA PRADESH	Y	Ň	NUISANCE FOF WILDLIFE
MAH/N/SAN MP/N/MAD MP/N/PAN						
MP/N/PEN	Y	54517.00	(STILL UNDER CONSTRUCTION)			SUBMERGENCE OF ABOUT 15% OF PARK AREA
MP/N/SAN	N					FRIGH MUCH
MP/N/VAN ORI/N/SIM RAJ/N/KEO RAJ/N/RAN	N		2		-	
RAJ/N/SAR	N				519	
UP/N/COR	У		HYDEL DEPARTMENT	N	А	HURT HERBIVORES
UP/N/DUD						

Table - 14.3 (USE BY OTHER GOVERNMENT DEPARTMENTS - 111)

CODE	FISHERY FROJECT(S)	AFFECTED AREA IN HECTARES	CONTROLLED BY	WILDLIFE AUTHORITIES CONSULTED	DID WILDLIFE AUTHORITIES OBJECT	IMPACT ON 1	PAck	
A&N/N/MAR								
A&N/N/MOU								
ARU/N/NAM								
GOA/N/BHA								
GUJ/N/GIR								
GUJ/N/MAR								
HP/N/PIN			DIGIDATES	N	M.			
J&K/N/DAC	Y		FISHERIES DEPARTMENT	N	N			
J&K/N/KIS	1722							
KAR/N/BAN	N							
KAR/N/BANN	1.22							
KAR/N/NAG	N							
KER/N/PER	N							
MAH/N/PEN								
MAH/N/SAN MP/N/MAD	Y	200	FOREST	Y	N			
MP/N/MAD	1	305	DEPARTMENT	1	14			
MP/N/PAN	Ŷ	2000	FISHERIES	N	N	HUMAN WILD	LIFE	
MP/N/PEN								
MP/N/SAN	N							
MP/N/VAN	N							
ORI/N/SIM								
RAJ/N/KEO								
RAJ/N/RAN								
RAJ/N/SAR	N							
UP/N/COR								
UP/N/DUD								

Table - 14.4 (USE BY OTHER GOVERNMENT DEPARTMENTS - IV)

CODE	ROADWAY PROJECT(S)	AFFECTED AREA IN HECTARES	CONTROLLED BY	WILDLIFE AUTHORITIES CONSULTED	DID WILDLIFE AUTHORITIES OBJECT	IMPACT ON PARK
A&N/N/MAR	Y		ANDHRA PRADESH PUBLIC WORKS DEPARTMENT	N	N	NOISE POLLUTIC
A&N/N/MOU	Υ	5.00	FOREST DEPARTMENT	Y	N	NO IMPACT
ARU/N/NAM	Y	65.00	FOREST DEPARTMENT	Υ.	N	
GOA/N/BHA						
HUJ/N/GIR	¥	100.00	GUJARAT PUBLIC WORKS DEPARTMENT	N	N	EXISTED BEFORE DECLARATION
GUJ/N/MAR						
HP/N/PIN	Y					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
J&K/N/DAC	Ŷ	3.50	ASSISTANT ENGINEER, BOULEVARD, SULI DIVISION	N	N	
J&K/N/KIS			DODI DITIOION			
KAR/N/BAN	У	6900.00	KARNATAKA PUBLIC WORKS DEPARTMENT			
KAR/N/BANN	Y	1.00				
KAR/N/NAG	Y	0.00	KARNATAKA PUBLIC WORKS DEPARTMENT			SOME IMPACT
KER/N/PER	Y	20.00	KERALA PUBLIC WORKS DEPARTMENT	Y	N	NEGLIGIBLE
MAH/N/PEN MAH/N/SAN MP/N/MAD						
MP/N/PAN MP/N/PEN	Y	30.00		N		DISTURBANCE TO WILDLIFE
MP/N/SAN	Y	75.00	MADHYA PRADESH PUBLIC WORKS DEPARTMENT	N	Y	
MP/N/VAN ORI/N/SIM RAJ/N/KEO RAJ/N/RAN	Y		- DO -	¥	N	
RAJ/N/SAR	¥	60.00	RAJASTHAN PUBLIC WORKS DEPARTMENT	Y	Y	DISTURBANCE TO WILDLIFE
UP/N/COR						e and the second second second second second second second second second second second second second second se
UP/N/DUD	Y	35.00	UTTAR PRADESH PUBLIC WORKS DEPARIMENT	Y	Y	VERY DISTURBING TO WILDLIFE

Table -	14.5	(058	BY	OTHER	GOVERNHENT	DEPARTHENTS - V	0
1000000							

CODE	PROJECT(S) FOR TOURISH		CONTROLLED BY	WILDLIFE AUTHORITIES COBSULTED	DID WILDLIFE AUTHORITIES OBJECT	IMPACT ON PARK
AAN/N/HAR	T			8	Y	BIOTIC INTERPERENCE
AAN/K/HOU						
ARU/N/NAM	ĩ	4.00	FOREST DEPARTMENT	ĩ	H	
GOA/S/EHA	ĩ		DEPARTMENT OF TOURISM		6	
GEJ/H/GIR						
GUJ/N/MAR						
HP/N/PIN						
J&K/R/DMC						
J&K/H/KIS						
KAR/B/3AB	8	0.00				
KAR/H/BARN	Ĩ	0.01				NIL
XAR/W/WAG						
KER/8/728	Ŧ	8.89	KERALA TOURIST DEVELOPMENT CORPORATION	Ŷ	A	XBGLIGIBL8
MAR/N/PER			Cont other you			
HAR/R/SAR						
HE/S/HD						
H2/8/285						
HP/H/PEH						
被P/N/SIN	8					
ORI/A/SIN	- T					
VAJ/N/KEO	Y	1.00	INDIA TOURIST DEVELOPMENT CORPORATION	ï		POLLUTICA
EAJ/N/EAN						
RAJ/K/SAR	Ŧ	2.50	RAJASTRAR TOURIST DEVELOPMENT CORPORATION	Ŧ		
UE/H/COR			AANT ANNY TAN			
UP/W/DUB						

UP/N/008

# Table - 14.6 (USE BY OTHER GOVERNMENT DEPARTMENTS - VI)

CODE	TRANSMISSION LINES PROJECT(S)		CONTROLLED BY	WILDUIFE AUTHORITIES CONSULTED	DID WILDLIPS ANTHORITIES CRJECT	INPACT ON PARK _	other Government USES
AAN/N/MAR A&N/N/MOU							ř
ARU/N/HOU							Y
GOA/H/EHA							Y
GUJ/H/GIR	Ŧ	2 66	FOREST	Y	¥		1
000/N/01X	I	3.00	DEPARTMENT	1	1		
GUJ/N/HAR							Ϋ́
HP/N/PIN			(3e-1				Y
JAK/N/DAC							Y
J&K/N/KIS							Y
KAR/H/BAN	Y	65.00	KARNATAKA ELECTRICITY BOARD				Ÿ
KAR/N/BANN		0.00					
KAR7N/NAG	Ŷ	0.00	KARNATAKA ELECTRICITY BOARD			YES	8
KER/N/PER	ĭ	35.00	KERALA ELECTRICITY BOARD	¥	8		ĭ
- MAR/K/PEN							Y
MAH/H/SAN	ĩ		MAHARASHTRA BLBCTRICITY BOARD	N	N	CUTTING OF TREES DISTURBANCE TO WILDLIFE	ĩ
HP/N/NAD			0000000			0.000000000000	
HE/R/EAR							
HP/H/E80							
HE/N/SAN	ĭ	200.00	NATIONAL THERMAL POWER CORPORATION	Ħ	1.		8
HP/N/VAN	8						8
ORI/8/SIM	77.						Y
RAJ/N/KEO							
RAJ/N/RAK							
RAJ/B/SAR	¥		RAJASTRAN KLECTRICITY BOARD	Ĩ	8		Ĩ
UP/H/COR			Contraction of the second				
UP/N/DOD							Y
00000000000000							

### Offences

Details regarding registration and processing of offences between 1979 and 1984 were requested from the park authorities. 33 parks (see tables 15.1, 15.2, and 15.3) reported the registration of offences. In these parks:-

1. 10 categories of offences were identified, of which Madhav (MP) and Corbett (UP) registered offences in 7 categories, which was the maximum.

2. 12,834 offences were registered in Ranthambhore (RAJ), which was by far the highest. Other parks where registration of offences was high were Gir (GUJ) with 4668, Sariska (RAJ) with 3007, Madhav (MP) with 1625, Sunderban with 813, Keoladeo Ghana (RAJ) with 722, Simlipal (ORI) with 630 and Dudhwa (UP) with 561. On the lower end of the scale Marine (GUJ), Kishtwar (J&K), Tadoba (MAH), and Panna (MP) registered only 1 offence each. Namdapha (ARU) and Sanjay (MP) Registered only 2 offences each while Khangchendzonga (SIK) registered 3 and Van Vihar (MP) registered 4 offences.

Once an offence gets registered, it can either be compounded, or the offender can be charged and prosecuted in a criminal court.

 13 parks reported that they had either won and/or lost in court. These parks were:-

	PARK NAME	TOTAL CASES	CASES WON	CASES WON = (%)	CASES LOST	CASES LÕST (%)
1.	Namdapha (ARU)	2	2	100.00	0	0.00
2.	Bansda (GUJ)	41	0	0.00	19	46.34
3.	Gir (GUJ)	4668	0	0.00	2	.04
4.	Periyar (KER)	235	43	18.30	7	2.98
5.	Sanjay Gandhi (MAH)	171	5	2.92	2	1.17
6.	Kanha (MP)	253	7	2.77	4	1.58
7.	Madhav (MP)	1625	90	5.54	464	28,55
8.	Desert (RAJ)	110	3	2.73	2	1.82
9,	Ranthambhore (RAJ)	12835	1	.01		0.00
10,	Sariska (RAJ)	3007	49	1.63	5	.17
11.	Guindy (TN)	265	9	3.40		0.00
12.	Corbett (UP)	111	1	.90	0	0.00
13.	Sunderban (WB)	813	109	13.41	0	0.00

The maximum number of cases won was reported from Sunderban (WB), followed by Madhav (MP), Sariska (RAJ), Periyar (KER), Kanha (MP), Sanjay Gandhi (MAH), Desert (RAJ), Namdapha (ARU), and Ranthambhore (RAJ) and Corbett (UP).

The percentage of cases won out of the total number of cases registered, was reported to be maximum from Namdapha (ARU), but the total number of cases itself was only 2. All the other parks reported the percentage of cases won to be less than 20%.

The maximum number of cases lost was reported from Madhav (MP), followed by Bansda (GUJ), Periyar (KER), Sariska (RAJ), Kanha (MP), and Gir (GUJ), Sanjay Gandhi (MAH) and Desert (RAJ).

The percentage of cases lost out of the total number of cases registered was reported to be maximum from Bansda (GUJ), followed by Madhav (MP). All the other parks reported the percentage of cases lost to be less than 3%.

Namdapha (ARU), Ranthambhore (RAJ), Guindy (TN), Corbett (UP) and Sunderban (WB) did not report losing, while Bansda (GUJ) and Gir (GUJ) did not report winning a case.

4. For most offences, park managers prefer to compound offences rather than taking them to court, as is clear from the analysis in (3) above. 24 parks reported compounding of offences. These were:-

Park Name	Total Cases	Cases Compounded	Cases Compounded (%)
			1023133500
1. Bhagwan Mahavir (GOA)	12	7	58.33
2. Bansda (GUJ)	41	5	12.20
3. Marine (GUJ)	1	1	100.00
4. Gir (GUJ)	4668	1	.02
5. Velavadar (GUJ)	84	83	98.81
6. Dachigam (J&K)	348	67	19.25
7. Bannerghatta (KAR)	345	343	99.42
8. Periyar (KER)	235	50	21.28
9. Nawegaon (MAH)	99	41	41.41
10. Pench (MAH)	21	6	28.57
11. Sanjay Gandhi (MAH)	171	1	.58
12. Keibul Lamjao (MAN)	21	17	80.95
13. Kanha (MP)	253	224	88.54
14. Madhav (MP)	1625	1043	64.18
15. Simlipal (ORI)	630	378	60.00
16. Desert (RAJ)	110	67	60.91
17. Keoladeo Ghana (RAJ)	722	582	80.61
18. Ranthambhore (RAJ)	12834	8539	66.53
19. Sariska (RAJ)	3007	840	27.93
20. Khangchendzonga (SIK)	3	3	100,00
21. Guindy (TN)	265	242 -	91.32
22. Corbett (UP)	111	48	43.24
23. Dudhwa (UP)	561	411	73.26
24. Sunderban (WB)	813	583	71.71

Ranthambhore (RAJ) reported compounding of 8539 offences which was the maximum, while the minimum i.e.; 1 offence was compounded in Marine CSUJ. Gir (GUJ) and Sanjay Gandhi (MAH). 15 parks reported the compounding of 50% or more, of the total number of offences registered. These parks were Bhagwan Mahavir (GOA), Marine (GUJ), Velavadar (GUJ), Extremghatta (KAR), Keibul Lamjao (MAN), Kanha (MP), Madhav (MP), Sinligal (ORI), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Eisigterizerizonga (SIK), Guindy (TN), Dudhwa (UP), and Sunderban (WB).

13 parks reported that all the offences registered either had been 5. or were being processed in court and/or had been compounded (ie; all cases had either been or were being processed). These parks were Namdapha (ARU), Bhagwan Mahavir (GOA), Bansda (GUJ), Marine (GUJ), Bannerghatta (KAR), Tadoba (MAH), Keibul Lamjao (MAN), Kanha (MP), Madhav (MP), Sanjay (MP), Khangchendzonga (SIK), Guindy (TN) and Dudhwa (UP). Of these, only 5 i.e.; Bannerghatta (KAR), Kanha (MP), Madhav (MP), Guindy (TN) and Dudhwa (UP) had registered more than 250 offences. All the rest had registered less than 50 offences. Bannerghatta (KAR) and Madhav (MP) had winded up or were dealing with more cases than had been registered. This may have been due to the spill over of offences being dealt with before 1979. 5 parks had not processed any of the offences which had been registered. These parks were Kishtwar (J&K), Bandipur (KAR), Nagarhole (KAR), Bandhavgarh (MP) and Panna (MP). parks reported that between 0% and 50% of their offences registered had been or were being processed. These were Gir (GUJ), Sanjay Gandhi (MAH), Pench (MAH), Simlipal (ORI), Sariska (RAJ), Dachigam (J&K), and Van Vihar (MP).

6. In most cases, the offences were attributed to villagers or 'others', but 7 parks reported that some of the offences were committed by Government Servants. These were Pench (MAH), Sanjay Gandhi (MAH), Keibul Lamjao (MAN), Kanha (MP), Van Vihar (MP), Ranthambhore (RAJ) and Corbett (UP).

7. The most extensively registered offence was 'Illegal Hunting', which was reported from 28 parks. The 5 parks which did not report this particular offence were Namdapha (ARU), Marine (GUJ), Velavadar (GUJ), Dachigam (J&K), and Van Vihar (MP). The maximum penalty awarded was reported to be Rs.77,498/- at Dudhwa (UP).

8. 'Destruction of Habitat' was registered in 21 parks. These were, Namdapha (ARU), Bhagwan Mahavir (GOA), Marine (GUJ), Gir (GUJ), Dachigam (J&K), Keibul Lamjao (MAN), Bandhavgarh (MP), Madhav (MP), Keoladeo Ghana (RAJ), Simlipal (CRI), Sariska (RAJ), Ranthambhore (RAJ), Guindy (TN), Corbett (UP), Dudhwa (UP), and Sunderban. The maximum penalty awarded was Rs.94,095/-, again at Dudhwa (UP).

9. 'Illegal Grazing' was registered in 16 parks. These were Gir (GUJ), Velavadar (GUJ), Bannerghatta (KAR), Periyar (KER), Nawegaon (MAH), Pench (MAH), Bandhavgarh (MP), Kanha (MP), Madhav (MP), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Guindy (TN), Corbett (UP), and Dudhwa (UP). The maximum penalty awarded was Rs.8,017/-, at Dudhwa (UP).

10. The offence of 'Improper Entry' was registered in 12 parks. These were Namdapha (ARU), Bansda (GUJ), Periyar (KER), Keibul Lamjao (MAN), Kanha (MP), Madhav (MP), Van Vihar (MP), Simlipal (ORI), Guindy (TN), Corbett (UP), Dudhwa (UP), and Sunderban (WB). It is interesting to note that apart from Namdapha (ARU) and Van Vihar (MP), all the above listed parks also registered 'Illegal Hunting' as on offence. This may be because a poacher can be booked for both offences. 'Destruction of Habitat' was also registered in all the above listed parks except Bansda (GUJ), Kanha (MP), and Van Vihar (MP). The maximum penalty awarded for 'Improper Entry' was Rs.11,039/- at Dudhwa (UP).

11. 'Causing fire Hazard' was registered in 11 parks. These were Bansda (GUJ), Gir (GUJ), Velavadar (GUJ), Nawegaon (MAH), Sanjay Gandhi (MAH), Bandhavgarh (MP), Madhav (MP), Van Vihar (MP), Simlipal (ORI), Corbett (UP), and Dudhwa (UP). The maximum penalty awarded was Rs.5000/-, yet again at Dudhwa (UP).

12. 'Possession of Illegal Weapons' was registered in 7 parks. These were Bhagwan Mahavir (GOA), Periyar (KER), Pench (MAH), Madhav (MP), Van Vihar (MP), Guindy (TN), and Dudhwa (UP). All the above listed parks with the exception of Van Vihar (MP) also reported 'Illegal Hunting'. The maximum penalty awarded was Rs.1000/- at Bhagwan Mahavir (GOA).

13. 'Improper Conduct' and 'Illegal Use of Explosives' was reported from 2 parks each. These were Bansda (GUJ) and Keibul Lamjao (MAN), and Madhav (MP) and Corbett (UP) respectively. No information regarding the maximum penalty awarded was provided for 'Improper Conduct'. The maximum penalty awarded for 'Illegal Use of Explosives' was Rs.940/- at Corbett (UP).

14. 'Non registration of Arms' was registered in Corbett (UP) while 'Other Offences' were registered in Gir (GUJ).

Table - 15.1 (OFFENCES - I)

-		-	-		
62	ി	Э	ł	c	
5	~	6	۰.	a,	

KIND OF YEAR YEAR YEAR YEAR YEAR OFFENCE 79-80 80-81 81-82 82-83 83-84

KEY:

ARU/N/NAM	LE	0	0	0	0	1	IH = Illegal Hunting
	DH			Õ	õ	ĩ	DH = Destruction of Habitat
GOA/N/BHA	IH	0	75		2	0	IG = 111egal Grazing
	IW	0	0	Npo		0	IE = Improper Entry
	DH	0	0	0	Б		TH = Causing Fire Hazard
GUJ/N/BAN	IE	doooooa	NOOGOON	0	100	11	IN- Possession of Illegal Wea
	IC	0	0	0	2	3	IC = Improper Conduct
	TH	0	0	1	0	Ó	IU = Illegal use of Explosives
	FH	0	2	0	1	4	NR = Non Registration of Arms
GUJ\N\GIR	IH	3	12	5	5	4	OT = Other Offences
	FH	21	63	46	38	28	of our or
	DH	425	708	525	634	401	1
	IG	104	313	237	275	363	
	OT	92	56	156	62	92	
GUJ/N/MAR	DH	0	0	1	0	0	
GUJ/N/VEL	FH	0	0	0	0	1	
	IG	0	25	11	4	43	
J&K/N/DAC	DH	80	65	61	71	71	
J&K/N/KIS	IH	0	0	0	1	0	
KAR/N/BAN	IH	0	0	2	1	3	
	DH	85	74	73	104	75	
KAR/N/BANN	IH	0	0	3	2	1	
	DH	50	65	55	70	45	
	IG	10	12	6	15	11	

# Table - 15.1 (...contd)

ODE	KIND OF	YEAR	YEAR	YEAR	YEAR	YEAR
	OFFENCE	79-80	80-81	81-82	82-83	83-84

÷.	-		÷			
1	5	Б	σ	v	٠	
	h			۰.	٠	

KAR/N/NAG	IH	6	2	2	õ	7	IH = Illegal Hunting
KER/N/ERA	NIL	0	0	0	0	0	DH = Destruction of Habitat
KER/N/PER	IE	1	0	ō	ō	1	IG = 111egal Grazing
	IH	5	2	2	4	8	IE = Improper Entry
	IW	1	õ	õ	ò	õ	FH = Causing Fire Hazard
	DH	25		40	2.70	(T)	TH - Causing Fire Hazard
			14		33	51	IW = Possession of Illegal Welpt
	IG	17	2	1	17	11	IC = Improper Conduct -
MAH/N/NAW	TH	1	0	1	0	6	IU = Illegal use of Explosives
	FH	0	3	2	3	3	NR = Non Registration of Arm
	DH	7	13	17	11	24	OT = Other Offences
	IG	2	3	0	1	2	
MAH/N/PEN	IH	0	0	1	0	ō	
	IW	1	0	0	0	0	
	DH	0	0	1	0	1	
	IG	7	4	0	4	12	
MAH/N/SAN	IH	4	1	2	1	1	
that the state	FH	14	22	30	43	53	
MAH/N/TAD	IH	0					
			0	1	0	0	
MAN/N/KEI	IE	3	0	1	2	1	
	IC	0	0	1	1	0	
	DH	7	3	0	0	0	
	IH	0	0	0	1	0 0 1 0 1	
MP/N/BAN	IH	1	1	0	0	0	
	FH	1	3	4	0	1	
	DH	1	4	4	3	3	
	IG	18	12	3	1	Ó	
MP/N/KAN .	IE .	0	0	õ	ō	2	
the proprietation of the	IH	6	9	3	*	27	
	IG	54	59	29	41	39	
MD AL AND		7	25	19	20	10	
MP/N/MAD	IE		23	14	27	23	
	IH	16				6	
	FH	0	7	3	5		
	IW	6	4	0	0	14	
	IU	0	0	1	0	0	
	DH	205	148	218	253	101	
	IG	107	136	107	98	22	
MP/N/PAN	IH	0	0	1	0	0	
MP/N/SAN	IH	0	0	0	0	2	
MP/N/VAN	IE	0	0	0	1	1	
the year of the terms	FH	ō	ō	0	0	1	
	IW	õ	ŏ	0	1	ō	
ORI/N/SIM	IE	ŏ	ŏ	õ	5	11	
OUT / M OTH	IH	3	+	8	29	18	
	DH	56	91	90	131	183	
				1 T		0	
	FH	0	0	0	1		
RAJ/N/DES	IH	0	15	9	-1	15	
	IG	0	0	0	0	67	

CODE	KIND OF OFFENCE	YEAR 79-80	and the second se	1. S. C. S.			KEY:
RAJ/N/KEO	IH	1	1	5	5	2 .	IH = Illegal Hunting
	DH	119	136	125	151	33	DH = Destruction of Habitat
	IG	20	63	33	25	3	IG = 11legal Grazing
RAJ/N/RAN	IH	17	27	22	8	4	IE = Improper Entry
	FH	0	1	4	1	1	FH = Causing Fire Hazard
	DH	3445	2690	1444	1987	1572	IW = Possession of Illegal Weapons
	IG	610	316	173	259	253	IC = Improper Conduct
RAJ/N/SAR	IH	13	11	20	33	31	IU = Illegal use of Explosives
	DH	150	236	391	327	374	NR = Non Registration of Arms
	IG	140	130	326	369	456	OT = Other Offences
SIK/N/KHA	IH	0	0	3	0	0	
TN/N/GUI	IE	8	22	5	4	3	
	IH	5	2	5	0	1	
	IW	5	0	0	0	0	
	DH	35	40	48	52	37	
	IG	1	0	3	2	7	
UP/N/COR	IE	3	1	0	0	0	
1	IH	13	1	20	0	1 0 0	
	FH	1	1	0	0	0	
	IU	3	3	2	0		
	NR	0	0	1	0	0	
	DH	11	24	24	7	10	
	IG	0	- 1	1	1	0	
UP/N/DUD	IE	2	6	11	12	5	
$\sim 10^{-10}$	IH	50	50	43	20	23	
	FH	3	0	0	0	0	
	IW	1	0	0	0	0	
	DH	21	73	. 41	68	62	
	IG	17	14	22	1	16	
WB/N/SUN	IE	3	2	27	2	0	
	TH	4	1	6	0	1	
	DH	164	152	157	183	111	

# Table - 15.2 (OFFENCES - II)

CODE		NUMBER OF CASÉS WON	NUMBER OF CASES LOST		NUMBER OF CASES BEING PROCESSED
ARU/N/NAM	IE	1	0	0	0
and butter	DH	1	0	0	0
GOA/N/BHA	IH	0	0	1	5
	IW	0	0	1	0
OTIT AL PRAN	DH	0	0	5	0
GUJ/N/BAN	IE	0	11	5	12
	IC TH	0	3	0	2
	FH	0	5	0	2
GUJ\N\GIR	IH	0	2	1	26
ann fu latu	FH	0	ő	ò	26
	DH	0	0	0	0
	IG	0		0	
			0		0
COLT AL ALAM	OT	0	0	0	0
GUJ/N/MAR	DH	0	0	1	0
GUJ/N/VEL	FH	0	0	0	0
set by man	IG	0	0	83	0
J&K/N/DAC	DH	0	0	67	98
J&K/N/KIS	IH	0	0	0	0
KAR/N/BAN	IH	0	0	- 0	0
VAD /N /DANDI	DH	0	0	0	
KAR/N/BANN	IH	0		2	4
	DH	0	0	285	0
VAD ALANA	IG		0	54	0
KAR/N/NAG	IH	0	0	0	0
KER/N/ERA	NIL		(T)		0
KER/N/PER	IE	0	0	0	1
	IH	1	1	1	18
	IW	0	0	0	1
	DH	40	6	28	81
VATE ON ANALA	IG	2	0	21	25
MAH/N/NAW	IH	0	0	0	0
	FH	0	0	1	10
	DH	0	0	40	32
	IG	0	0	0	0
MAH/N/PEN	IH	0	0	0	0
	IW	0	0	0	0
15	DH	0	0	0	0
	IG	0	0	6	0
MAH/N/SAN	IH	5	2	0	2
NAME AND ADDRESS	FH	0	0	1	0
MAH/N/TAD	IH	0	0	0	1
MAN/N/KEI	TE	0	0	7	0
	IC	0	0	0	2
	DH	0	0	10	0
	TH	0	0	0	2

8.0		19	Table - 15	.2 (conte	i)	
CODE	•		NUMBER OF CASES WON	NUMBER OF CASES LOST	NUMBER OF CASES COMPOUNDED	NUMBER OF CASES BEING PROCESSED
MP/N/BAN		IH	0	0	0	0
		FH	0	0	0	0
		DH	0	0	0	0
		IG	0	0	0	0
MP/N/KAN		IE	0	0	2	0
		IH	7	4	0	18
MP/N/MAD		IG	0 13	9	222 61	0 12
ele/ N/ Pleb		TH	26	19	55	19
		FH	0	20	1	20
		IW	2	0	ô	22
		IU	ō	1	õ	1
		DH	48	374	503	374
		IG	1	41	423	41
MP/N/PAN		IH	0	0	0	0
MP/N/SAN		IH	0	0	0	2
MP/N/VAN		IE	0	0	0	2 2 0
		FH	0	0	0	0
		IW	0	0	0	0
ORI/N/SIM	1	IE	0	0	14	2
		IH	0	0	26	36
		DH	0	0	337	114
RAJ/N/DES	6	FH IH	3	2	1	0 37
RAW/N/DEO	×	IG	0	Ő	67	0
RAJ/N/KEO	\$	IH	0	ő	7	7
1010717715200		DH	õ	0	441	24
		IG	õ	õ	134	10
RAJ/N/RAN	ş	IH	1	ō	42	36
		FH	õ	0	0	0
		DH	0	0	7380	0
		IG	0	0	1117	0
RAJ/N/SAR	2	IH	9	1	57	41
		DH	32	4	783	0
1222222 12 1		IG	8	0	0	0
STK/N/KHA	ŧ	IH	0	0	3	0
TN/N/GUI		IE	0	0	22	0
		IH IW	3 0	0	8 5	2
		DH	6	0	194	12
		IG	ő	0	134	0
UP/N/COR		IE	0	ő	0	3
94 / 11/ WOLD		IH	1	õ	ĩ	ő
		FH	ō	ŏ	1	1
		IU	ŏ	ŏ	. 7	ō
		NR	ŏ	ő	ò	õ
		DH	õ	ő	39	40
		IG	0	0	0	1

# Table - 15.2 (...contd)

CODE	The second second second second second second second second second second second second second second second se	NUMBER OF CASES WON	NUMBER OF CASES LOST	NUMBER OF CASES COMPOUNDED	NUMBER OF CASES BEING PROCESSED
	12222		923		18
UP/N/DUD	IE	0	0	32	4
	IH	0	0	164	22
	FH	0	0	3	0
	IW	0	0	1	0
	DH	0	0	152	113
	IG	0	0	59	11
WB/N/SUN	IE	0	0	0	0
101.0	IH	0	0	0	0
	DH	109	0	583	74

### Table - 15.3 (OFFENCES - III)

CODE	KIND OF OFFENCE	NATURI	C OF OFFEI	NDER	MAXIMUM PENALTY AWARDED IN THE	
	01101	GOVERNMENT VILLAGER OTHERS SERVANT		OTHERS	LAST FIVE YEARS (IN RUPEES)	
ARU/N/NAM	IE					
and a feat point a	DH			- <b>- - -</b>	1000	
GOA/N/BHA	IH			*	1000	
	IW			+	1000	
	DH			+	500	
GUJ/N/BAN	IE		16	12		
	IC		2	3		
	IH		2 1 1			
VERTINAL PLANT AND ADDRESS	FH		1	6		
GUJ\N\GIR	IH					
	FH					
	DH					
	IG					
	OT					
GUJ/N/MAR	DH			1	5000	
GUJ/N/VEL	FH				and the	
The second second second second	IG		83		845	
J&K/N/DAC	DH		173			
J&K/N/KIS	IH		+			
KAR/N/BAN	IH					
	DH				500	
KAR/N/BANN	IH		6		500	
	DH		6 + +		3000	
	IG		+		10	
KAR/N/NAG	TH		+		500	
KER/N/ERA	NIL					

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# Table - 15.3 (...contd)

CODE		KIND OF OFFENCE	NATU	re of off	ENDER	MAXIMUM PENALTY AWARDED IN THE
		OFFERE	GOVERNMEN SERVANT	T VILLAGE	R OTHERS	LAST FIVE YEARS (IN RUPEES)
	KER/N/PER	IE		1		
		IH		17	4	700
		IW		1		
		DH		101	54	13475
		IG		25	23	3005
	MAH/N/NAW	IH				
		FH				
	5-	DH				
	MATE ON CONTRAL	IG				
	MAH/N/PEN	IH			1	
		IW DH			2	
		IG	11		4	
	MAH/N/SAN	IH	1	1	7	100
	PARTY BY DAILY	FH	1	1	2	250
	MAH/N/TAD	IH			-	100
	MAN/N/KEI	IE		7		500
		IC		2		
		DH		10		150
		IH	1		1	
	MP/N/BAN	IH		+		
		FH		+		
		DH		+		
	171 1713-051210-05240-0526	IG		+	sQ.,	121212
	MP/N/KAN	IE	12		2	200
		IH	5	73		500
	100 01 0440	IG		107	00	100
	MP/N/MAD	IE		197	63	75
		TH		38	44	500
		FH IW			1	
		TU				20
		DH		2287	128	10000
		IG		710	52	200
	MP/N/PAN	IH		+	02	200
	MP/N/SAN	IH		2		
	MP/N/VAN	IE			+	
		FH			+	
		IW	+			
	ORI/N/SIM	IE				
		IH				
		DH				
	DAT /M /DDG	FH				
	RAJ/N/DES	IH				107
		IG				101

# Table - 15.3 (...contd)

CODE	KIND OF OFFENCE	NATURE	OF	OFFENDER	MAXIMUM PENALTY AWARDED IN THE
	UT LIKE	GOVERNMENT SERVANT	VILLAGER	OTHERS	LAST FIVE YEARS (IN RUPEES)
RAJ/N/KEO	IH		29	4	100
	DH		573		1001
	IG		150		800
RAJ/N/RAN	TH	1	54	30	
	FH				
	DH				
	IG				
RAJ/N/SAR	IH				2000
	DH				
	IG	100			
SIK/N/KHA	IH				575
TN/N/GUI	IE		22		250
	IH		13		500
	IW		5		250
	DH		212		100
	IG		13		175
UP/N/COR	IE				NIL
	IH	1		3	NIL
	FH				NIL
	IU	3			940
	NR			1	NIL -
	DH	1			14836
	IG		2		500
UP/N/DUD	IE				11039
	IH				77498
	FH				5000
	IW				550
	DH				94095
	IG				8,017
WB/N/SUN	IE				12 cl 47/14 (1990)
	IH				
	DH				1150

KEY:

+ = Exact figures were not given

\*

#### Clashes

The setting up of a national park often results in tension between the wildlife authorities and the local people. This is mainly due to the efforts of the wildlife staff to stop people from using the resources in the park. If alternatives are not provided to the people, or if they feel harassed by the staff, they become hostile and this hostility may lead to a confrontation. Clashes can also take place between those violating the Act, especially poachers, and the park authorities.

There were 17 parks (see table - 16) which reported clashes between local people/offenders and the staff. Of these, 2 parks ie; Gir (GUJ) and Madhav (MP), reported that clashes took place between the park authorities and the villagers every year between 1979 and 1984. Gir (GUJ) also reported the highest number of clashes ie; 17, in the period between 1979-1984. Gir (GUJ) and Kanha (MP) were the only parks which reported death of a staff member in clashes with the people, while cases of injury to staff members were reported from Sanjay Gandhi (MAH), Keoladeo Ghana (RAJ), Ranthambhore (RAJ) and Sunderban (WB).

# Table - 16 (CLASSES)

CODE	YEAR	PARTIES CLASHING	CIBCUHSTANCES LEADING TO CLASH	DETAILS OF VIOLENCE	SUBSEQUENT ACTION BY AUTEORITIES	SUBSEQUENT ACTION BY PEOPLE
ARO/R/KAM		MISHIME TRIBE OF LOHIT DISTRICT VS. PARK AUTHORITIES	BOUNDARY DISPUTE BETWEEN LOWIT & TILAP DISTRICTS	2 BUILDINGS BUENT BY MISHINE TRIBE	INFORMED THE ADMINISTRATIVE OFFICIALS & POLICE	HONE
GUJ/K/GIR	1979	deside ( ) and a second second	STAFF WAS TRYING TO PROTECT FOREST FROM ILLICIT CUTTING	warmen were wereard	POLICE PROSECUTION	NOBE
HP/N/G2E		VILLAGERS OF KULWARI VERSUS WILDLIPE DEPARTHENT	KILLING OF (KAKAN) BARKING DEER		PERSUADED TO COMPESS HIS CRIME	
J&K/N/DAC	1978	RANCE OFFICER AND POACHERS FROM ADJOINING VILLAGE	POACHING	POACHERS THREATENED W/L GUARDS IN CASE THEY WERE APPREMENDED	A STREAM AND AND AND AND AND AND AND AND AND AND	
XER/N/PER	1982	ARHED POACHERS	encounters while Patrolling		INSTALLATION OF WIRELESS SETS, AND SETTING UP OF PATROLLING CAMPS	REDUCTION IN SHUGGLING & POACHING ACTIVITY
MAR/E/BAW	1981-82	BURADIS & THEIR LEADERS OF COMMUNIST PARTY	FOR SUPPLYING BANECOS TO BURADIS	GHERAO DONE BY BURADIS	POLICE CAUGHT BURADIS AND THEIR LEADERS + SERT THEM TO EHANDENA JAIL	
HAH/N/SAN	1980	VISITORS	HISEEHAVIOUR OP VISITORS	2 LIBOURERS INJURED	POLICE COMPLAINT LODGED, VISITORS ARRESTED, AND COURT CASE LODGED	
	1983	BOOT LEGGERS	ILLICIT DISTILLATION & CUTTING	1 RANGE OFFICER AND 3 GUARDS INJURED		
	1984	BOOT LEGGERS AND ANTISOCIAL ELEMENTS	ANTISOCIAL ACTIVITIES AND ENCROACHHENT	2 PCRESTERS, 2 GUARDS, AND 3 WATCHMAN INJURED	POLICE COMPLAINT LODGED AND A PERSON ARRESTED	
HAN / N/XET	1979	SURECUNDING VILLAGERS AND PARK HANAGEMENT STAPP	PARK STAFF ARRESTED VILLAGERS FOR CUTTING REEDS IN THE PARK		GOVT. IMPOSED FINE OP 85.50,000 EACH. VILLAGERS PROSECUTED UNDER SECTION 144 OF PERAL CODE	VILLAGERS DEMANDED MINIMISING AREA OP PARK

# Table - 16 [...contd]

.052	YEAR		CIRCUNSTANCES LEADING TO CLASH	DETAILS OF VIOLENCE		SUBSEQUENT ACTION BY PROPLE
	1979-80	PARK EMPLOYEES VS. VILLAGERS (CASE 6)	Linuarit - street little	ONLY COMPLAINT MADE TO GOVI. EMPLOYEES	REPORTED TO POLICE AND GOVE.	NZHENG
	1980-81		GRAZING & FUEL WOOD		REPORTED TO POLICE	NOTHING
	1981-82		GRAZING & FUEL WOOD		REPORTED TO POLICE	ROCHEDIG
	1982-83		GRAZING & FUEL WOOD		REPORTED TO POLICE	ROUNTRE
	1983-84		GRAZING & FUEL WOOD		REPORTED TO POLICE	NOTHING
HE/N/SAN	1984	VILLAGERS VS. STAPP	STOPPAGE OF TENDU PATTA COLLECTION FROM PARK ARSA	RIL	POLICE REPORT AND PTR LODGED	NIL .
<u>42/11/1438</u>	1983	A chi ca a a a a a a a a a a a a a a a a a a	FORCEPUL ENTRY IN THE PARK	MANHAHDLING OP BABRIRE GUARD	MATTER REPORTED TO POLICE BUT POLICE DID NOT GO INTO ACTION	PARTY LODGED COMPLAINT WITH POLICE & CASE FILED AGAINGT BARRIER GUARD
13/K/KBO	1979-80	SANCTUARY STAFF & VILLAGERS OF AGHAPUR RARK STAFF & POLICE VS. AGHAPUR VILLAGERS	sate states and a	2 PGS INJURED WHEN VILLAGERS STONED THE STAFF. DOLICENEN WERE ALSO IBJURED AND THE BOUNDARY WALL WAS BROKEN	CASE REGISTERED WITH THE POLICE AND CEMALENGED IN COURT TERNGAS WAS USED. PIRING BY OPPICERS AND POLICENEM DUB YO LITTLE EPPECT OP REPEATED WARNING	BY OFFENDERS. JUDICIAL ENQUIRY BY A HIGH COURT JUDGP
EAJ/H/SAR	1981-82	FOREST STAFF AND VILLAGERS OP KANKWARI GUADA	TO STOP ILLICIT FELLING OP TREES IN KAHKWARI FOREST BLOCK	NCHE	CRIMINAL OFFENCE REPORTED TO POLICE & CASES HADE UNDER FOREST ACT & WILDLIFE ACT 1972	CASE CHALLENGED 1 COURT

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### Table - 16 (...contd)

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CODE	YEAR	PARTIES CLASSING	CIRCUNSTANCES LEADING TO CLASE	DETAILS OF VIOLENCE	SUBSEQUENT ACTION BY AUTHORITIES	SUESEQUENT ACTION BY PEOPLE
RAJ/N/RAN	1981	FIELD DIRECTOR & VILLAGE GRAZIERS	STOPPING GRAZING INSIDE PARK	FIELD DIRECTOR ASSAULTED MURDEROUSLY AND BADLY INJURED	CASE PERDING IN COURT	PECPLE ARE GETTING ORGANISED TO BE MORE VICCENT IN FUTURE
	1981-82/83	RANGE OFFICER & GRAITERS	- 🗊 -	RFO BADLY INJURED AND STONED	- 00 -	
	1984	PIELD DIRECTOR & ASSISTANT FIELD DIRECTOR VERSUS VILLAGERS	- 00 -	STONING		
UP/X/DID	1981-82	STAFF VS. VILLAGER OF RELAATAPUR	WHILE SEARCHING VILLAGER'S HOUSE	OPPOSITION TO SEARCH OPERATION	OUT	FIR LODGED BY VILLAGERS IN PALTA POLICE STATION UNDER SECTION 147/452/342/323/504/ 506/427/ OF THE IPC
KB/K/SUB	1983	ILLICIT WOOD COLLECTOR	SEIJING THE PRODUCE	1 FOREST WORKER WOUNDED	REPORTED TO POLICE	HORE

### Attack on Humans

16 parks reported attacks by wild animals on human beings (see table - 17).

1. 6 parks ie; Gir (GUJ), Bandipur (KAR), Nagarhole (KAR), Bandhavgarh (MP), Kanha (MP) and Corbett (UP) reported that attacks by wild animals on humans had resulted in both death as well as injury.

2. 9 parks ie; Bannerghatta (KAR), Periyar (KER), Keibul Lamjac (MAN), Indravati (MP), Van Vihar (MP), Simlipal (ORI), Ranthambhore (RAJ), Dudhwa (UP) and Sunderban (WB) reported that all the attacks on humans by wild animals had been fatal.

Sunderban (WB) recorded the highest number of deaths ie; 187 between 1979 and 1984. Dudhwa (UP) also recorded a high death toll of 119 in the same period.

3. Panna (MP) was the only park which reported attacks but did not record any deaths due to attack on humans by wild animals. The highest number of people injured between 1979 and 1984 was reported to be 16 from Gir (GUJ). Bandhavgarh (MP) recorded 11 injuries during the same time period.

# Table - 17 (ATTACK ON HENDERS)

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2003	TEAR	NAME AND OTHER BETAILS OF VIETIM(S)	AND SPECTES	INJURIES	WAS THE ATTACK FATAL?	DETAILS OF COMPRESATION IF ANY	REASORS FOR COMPERSATION NOT PAID
		5	WHICE ATTACKED	)		(t)	
GROVE/GIR	1979	IALI GAMESH GHUSA	EROWOCATION -	RENOR	90	HEDICAL EXPENSES	
	1979	TAYAB TARSHMAD	ACCIDENT - PARTHER	SERIOUS	TBS	Rs. 1000/-	
	1980	PATEL VASHRAH CHHAGAN	PROVOCATION -	NUMB	30	SEDICAL REPERSES	2
	1980	CHELA DADU	2ROWOCATION -	HINOB	80	MEDICAL EXPENSES	
	1980	-XHERHA AND XALU GCHICA	SHOWOCKTION -	HING	30	REDICAL EXPENSES	
	1980	PALA AND LARED DAYA	ACCIDENT - PANTEER	NERCE	HQ.	REDICAL EXPENSES	
	1980	JAGUHNAI CHAPRAJ	PROVOCATION - LICH	HDKR	NO.	MEDICAL EXPENSES	
	1981	BHIHA AND VASRAM SADUR	PROVOCATION -	NEWOR	30	HEDICAL EXPENSES	
	1981	HARABAT KRAN	ACCIDENT - LECEARD	HENOR	ND	NEDICAL ZIPENSES	
	1981	SHASHIKANT SURFAMANT	ACCIDENT - LEORARD	HENOR	WD	MEDICAL EXPENSES	
	1981	CHIATA RIPHAD	ACCEBENT - LEOPARD	SERICOS	YES	Rs. 1900/-	
	1981	SANJE VASHRAN	PROVOCATION - LICH		HO	MEDICAL EIPERSES	
	1981	RANJI ARJAN	PROVOCATION - LION	SERIOUS	TES	Rs. 1000/-	
120	1981	raha vasha rabari	PROVOCATION - PANTHER	KINDE	N0	MEDICAL EXPERSES	
	1981	SAMEHU EHARAN PATEL	ACCIDENT - PARTHER	HENOR	R0	HEDICAL EXPRESSES	
	4981	CHILD OF XRILANAD	ACCEDENT - PANTHER	SERIORS	TES	Rs. 1000/-	
	1982	ANDAN ALL	PROPOCATION - PARTHER		10	MEDICAL EXPENSES	
	1982	POONA KAHA	PROMOCATION -		10	MEDICAL EXPRESES	
	1982	LAEHO ABJUH, NATEU JIVRAJ, UMIROBEM AMU GOVINU SAMAY	PROWOCATION -	HINCE	30	HEDICAL EXPENSES	
	1982	VITHAL BUIRA	PROVOCATION - EANTHER	NENDR	80	NEDICAL EXPENSES	
	1983	LAINAN DAYA	PROVOCATION - LICH	SERICUS	YES	Rs. 1000/-	
	1983	HANGA VIBA -	ACCEDENT - PANTHER	SERTOOS	YES	Rs. 1000/-	
	1983	HATEUR DAYA	ACCEDENT - PANTHER	SERIOUS	TES	Rs. 1000/-	

# Table - 17 (...contd)

CODE	YEAR	NAME AND OTHER DETAILS OF VICTIM(S)		HATURE OF INJURIES	WAS THE ATTACX FATAL?	DETAILS OF COMPRESATION IF ANY	REASONS FOR CONFENSATION NOT PAID
GUJ/W/GIR	1983	CHILD OF SHIVTALA	ACCIDENT - PANTHER	SERIOUS	YBS	Rs. 1000/-	
	1983	OLD WOHAN OF HANNDAL VILLAGES	ACCIDENT - PANTHER	SERIOUS	YES	Rs. 1000/-	
XAR/N/BAN	1979-80	HAN HCHAN EMPLOYED ON ARYL POACHING SOUAD	ATTACLED BY NILD TUSKER	INJURED ON THE ABDOMEN	YES	Rs. 2000/-	
	1983-84	HARD HOHAN	INJURED BY AN ELEPHANT	LEGS WERE BROKEN	EO		
XAR/R/BANN	1983	RANGAPPA	TRAMPLED BY WILD BLEPHART		YES	Rs. 5000/-	
1002200.000	1984	GABIPALYA	TRAMPLED BY WILD ELEPHART		YES	Rs. 5000/-	
VAR/R/RAG	1979	GINIYA	ELEPHART ATTACK WHILE CARRYING FUEL WOOD	SERIOUS	YES	Rs. 2000/-	
	1979	CHALLA (FOREST GUARD)	BLEPHART ATTACK WHILE ON DOTT	SERIOUS	YES	Rs. 5000/-	
	1981	HARATI POOVAIAH	TRAMPLED BY ELEPHANT	SERIOUS	TES	Rs. 2008/-	
	1981	8.K. SOMA AND SOMAWA KALI	ATTACKED BY ELEPHART WHILE PROTECTING CROPS	SERIOUS	TBS	Bs. 10,000/-	
	1982	JEERIGE	ATTACK BY ELEPHANT IN PORES?	SERIOUS	PATAL	Rs. 5000/-	
	1983	KOORI, HOTHER OP APPU	ATTACKED BY ELEPHANT NEAR HER HOUSE	SERIOUS	TES	Rs. 5000/-	
	1983	J.A. POHNADI	ATTACKED BY ELEPHANT	MINOR	NO.	Rs. 550/-	
K8R/H/PER	1982		ATTACK BY AN ELEPHART		IES	NIL	NO CLAIM HADE
HAK/N/XEE	1980	KR. DHALA SINGH, FISHERHAN	ATTACKED BY A WILD BRAR WHILE WALKING		YES	NIL	NO PROVISION FOR COMPENSATION
NP/N/BAN	1979	BHANDAFI DHIMAR (FIRE WAYCHER)	ATTACKED BY A BEAR	SERIOUS	YES	Rs. 11,520/-	
	1980	RAM SLUGH (FIRE WATCHER)	ATTACKED BY A BEAR	BOTH LEGS Injured	NO	Rs. 200/-	
	1980	BANDEU DEIMAR	ATTACKED BY A TIGER	RINOR	NO	COMPENSATION PAID	
	1980	VASU BAIGA	ATTACKED BY A TIGER	HINOR	HO	COMPENSATION PAID	
	1980	BITTU BAIGA	ATTACKED BY A TIGER	MINOR	HO	COMPENSATION PAID	

Table - 17 (...conta,

CODE	YEAR	HAME AND OTHER DETAILS OF VICTIM(S)	CIRCUNSTANCES OF THE ATTACK AND SPECIES WHICH ATTACKED	NATURE OF INJURIES	WAS THE ATTACX FATAL?	DETAILS OF COMPERSATION IF ANY	REASCHS FOR Compensation NOT PAID
HP/N/BAN	1980	JABHA AHIR	ATTACKED BY A	MINOR	NO	COMPENSATION PAID	
	1980	BAJBOOTA BAIGA	ATTACKED BY A BRAR	HINOR	NO	COMPERSATION PAID	
	1980	SODER SINGH	ATTACKED BY A TIGER	HENOR	80	CONPENSATION PAID	
	1980	SURHLAL GARARIA	ATTACKED BY A TIGER	NINOR	NO	COMPERSATION PAID	
	1981	MAHARIA BAIGA	ATTACKED BY A	HINOR	Ю	COMPENSATION PAID	
	1981	SURAT SINGE GOND	ATTACKED BY A	HENOR	颲	COMPENSATION PAID	
	1981	BABLI GOND	ATTACKED BY A TIGER	SERICUS	YES	COMPRESATION PAID	
	1981	BRUSSOO DEMAR	ATTACKED BY A TIGER	SERICOS	YES	CONPERSATION PAID	
	1981	Sat KAHIA BANGU	ATTACKED BY A TIGER	SERIOUS	YES	COMPENSATION PAID	
	1982	noor nohannad Karondta	ATTACKED BY A TIGEE	SERIOUS	YES	COMPENSATION PAID	
	1982	KALLA ANIR BOMBRA	ATTACKED BY A TIGER	HINOR	80	COMPENSATION PAID	
	1982	SUL SIRAATIA GASHPERI	ATTACKED BY A TIGER	SERIODS	TES	COMPENSATION PAID	÷.,
	1982	Smt DULARIA BARDOHA		SERIOUS	YES	COMPENSATION PAID	
	1982	Sat ANAHDIA MACKKHALA	ATTACKED BY A BEAR	SERIOUS	YES	COMPENSATION PAID	
	1982	LALLU ANTE GASHPERT	The second second second second second second second second second second second second second second second se	SERIOUS	YES	COMPENSATION PAID	
	1982	PHOOLCHAND AHIR GASHPERI	ATTACKED BY A	SERIOUS	TES	COMPENSATION PAID	
HP/N/THP	1983-84		WITHIN THE CORE ZONE DURING THE COLLECTION OF FOREST PRODUCE		YES	Rs. 5030/-	
NE/R/KAB	1979	SHUBBKALAR VERHA (FOREST GUARD)	ATTACKED BY FEMALE SEAR WITH CUBS	HANGLED ON THE PACE	KO	RS. 2000/-	
	1982	SHAMLAL, SON OF BHIMSINGH HUKHI	ATTACKED BY A TIGER	SERIOUS	YES	Rs. 5000/-	
	1983	DINA, SON OF SUNHER	T 11 11 11 11 11 11 11 11 11 11 11 11 11	MINOR INJURIES	NO	Rs. 2000/-	
12/8/210	1983	BADI BAI OF BAXCHAR		INJURED ON THE FACE	NO.	Rs. 500/-	

fable - 17 (...contd)

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CODE	TEAR	NAME AND OTHER DETAILS OF VICTIM(S)	CIRCUMSTANCES OF THE ATTACX AND SPECIES WEICH ATTACKED		WAS THE ATTACK FATAL?	DETAILS O? COMPENSATION IF ARY	REASONS FOR COMPENSATION NOT PAID
HP/H/VAN	1983	ram hanohar verma Park supervisor	ATTACKED BY A HILGAI WEILE HE WAS PATROLLING THE PARK		YES	Rs. 10,000/- Rs. 25,000/-	
ORI/N/SIN	1981	RAHESE RAH		TRAMPLED UPOR BY AN REEPHART	TES	Rs. 1500/-	
	1981	DATTARE DESERV	ATTACKED BY A TIGER	NECK WAS BROKES	YES	NO	
	1982	PADNALOCHAN KISHU	BLEPHART ATTACK	TRAMPLED UPON	YES	Rs. 500/-	
	1982			HECK WAS BROKEN		Rs. 300/-	
	1982	BASANTI DEVI		MECK WAS BROKEN		Rs. 500/-	
	1982	PITU SINGH		NECK WAS BROKEN		Rs. 500/-	
	1982	GHASTRAK STHER		NECK WAS BROKEN		Rs. 500/-	
	1984						
	1304	SUGI	ELEPHANT	TRAMPLED UPON	162	Rs. 2000/-	
RAJ/N/RAK	1984	CHATTUR R/O KHANDAR	ATTACKED OUTSIDE THE SANCTUARY		YES		CASE YET TO BE DETECTED
HP/H/COR	1980	DAL BAHADUR, HIS WIFE & CHILD	ATTACKED BY AN BLEPHART IN THE CORE ZORE-			812	NO APPLICATION WAS ESCEIVED
	1982	NAMESH ROMAND, CHARA CUTTER PROJECT TIGER			YES	85. 5000/-	
	1982	JASODA DEVI WIFE OF BIKRAM SINGH, VILLAGE JHIMA			YES	Rs. 5000/-	
	1984	SUBEDAR ALI, CHARA CUTTER, PROJECT TIGER	ATTACKED BY A TIGER IN CORE ZORE		80	Rs, 1,000/- (ADHOC)	CLAIN BOT ACCEPTED AS YET
UE/X/DUD	1979	19 PEOPLE NERE ATTACKED	121101		ALL ATTACES	18 PEOPLE CLAIMED Rs. 85,000/-, WHILE PERSON DID NOT CLAIM	
	1980	23 PEOPLE			ALL ATTACKS	22 PROPER CLAIMED	1
	1981	24 PEOP58			ALL ATTACKS	21 PROPIE CLAIMED Rs. 102,000/-, WHILE PEOPLE DID NOT CLAIM	3
	1982	10 250218			ALL ATTACKS	6 PROPER CLAIMED	4
	1983	19 PEOPLE			ALL ATTACKS	12 PROPLE CLAINED	

fable - 17 (...contd)

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CODB	YBAR	NAME AND OTHER DETAILS OF VICTIM(S)	CIRCUNSTANCES OF THE ATTACK AND SPECIES WHICH ATTACKED	NATURE OF INJURIES	NAS THE ATTACK PATAL?	DETAILS OF COMPENSATION IF ANY	REASONS FOR COMPENSATION NOT PAID
WB/N/SUN	1979	54 PEOPLE ATTACKED BY TIGERS			53 PEOPLE DIED: 1 INJURED	BS. 66,200/- PAID I COMPENSATION	X
	1980	53 PROPLE ATTACKED BY TIGERS			51 PEOPLE DIED: 2 INJURED	Rs. 86,400/- PAID I COMPENSATION	ЗI I
	1981	31 PEOPLE ATTACKED BY TIGERS			30 PEOPLE DIED: 1 THJURED	Rs. 36,200/- PAID I COMPENSATION	8
	1982	36 FEOPLE ATTACKED BY TIGERS			33 PEOPLE DIED: 3 THJURED	Rs. 62,600/- PAID 1 COMPENSATION	CH .
	1983	15 PEOPLE WERE ATTACKED BY TIGERS			14 PSOPLE DIED: 1 INJURES	RE. 12,200/- PAID I COMPENSATION	X

### Thoroughfares and Checkposts

Many parks in India have highways or other thoroughfares passing through. Often, this results in disturbance to the park due to the movement of vehicular as well as other traffic on these highways, roads, paths etc. Since this can make the park relatively more accessible, it may also create problems in protection of the park. Of the 52 national parks listed in table - 18:-

#### Thoroughfares

1. 25 parks were reported to have a highway or any other thoroughfare passing through the park. These parks were, Marine (A&N), Namdapha (ARU), Bhagwan Mahavir (GOA), Gir (GUJ), Velavadar (GUJ), Pin Valley (HP), Dachigam (J&K), Bandipur (KAR), Bannerghatta (KAR), Nagarhole \* (KAR), Periyar (KER), Nawegaon (MAH), Pench (MAH), Tadoba (MAH), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Kanger Ghati (MP), Madhav \*\* (MP), Panna (MP), Sanjay (MP), Satpura (MP), Van Vihar (MP), Desert (RAJ), and Sariska (RAJ)

Some of the above listed parks recorded a very high number of persons other than tourists (5000 and above) passing through the park. These parks were:-

Gir (GUJ)	-	5,00,000
Dudhwa (UP)	-	3,00,000
Periyar (KER)	-	2,00,000
Marine (A&N)	-	36,000
Bandhavgarh (MP)	-	35,000
Kanha (MP)	-	35,000
Velavadar (GUJ)	-	30,000
Tadoba (MAII)	-	10,000
Sanjay Gandhi (MAH)	-	10,000
Bannerghatta (KAR)	-	5,000
Nagarhole (KAR)	-	5,000
Satpura (MP)	-	5,000

In addition, Namdapha (ARU) reported that 4,000 people other than tourists had passed through, while Desert (RAJ) reported a figure of 2,500.

#### Checkposts

2. 5 parks, Pin Valley (HP), Bannerghatta (KAR), Bandhavgarh (MP) Kanger Ghati (MP), and Madhav (MP) National Parks did not report a check post for vehicles entering the park, while 2 parks, Periyar (KER) and Desert (RAJ) reported a checkpost for vehicles <u>entering</u> into but not <u>leaving the park</u>.

\* These parks did not report a highway passing through the park.

\*\* Satpura (MP), did not report a through fare passing through the park but reported a highway. 3. 6 parks, Pin Valley (HP), Periyar (KER), Bandhavgarh (MP), Kanger Ghati (MP), Panna (MP), and Sanjay Gandhi (MAH) did not report a checkpost for people entering the park, while Desert (RAJ) reported a checkpost for people <u>entering</u> into but not <u>leaving</u> the park.

4. 4 parks, Pin Valley (HP), Bandhavgarh (MP), Kanger Ghati (MP) and Madhav (MP) National Parks did not report the existence of any Checkposts.

### Table - 18 (THOROUGHFARES AND CHECKPOSTS)

CODE HIGHWAY OR CHECKPOSTS CHECKP	
A&N/N/MAR Y Y Y Y	1
A&N/N/MID N	1770
A&N/N/MOU N	
A&N/N/NOR N	
A&N/N/SAD N	0
A&N/N/SOU N	
ARU/N/NAM Y Y Y Y Y	1
GOA/N/BHA Y Y Y Y Y	1
GUJ/N/BAN N	1
QUJ/N/GIR Y Y Y Y Y	22
GUJ/N/MAR N	277
GUJ/N/VEL Y Y Y Y Y	1
HP/N/GRE N	
HP/N/PIN Y N N N N	0
J&K/N/DAC Y Y Y Y Y	12
J&K/N/HEM N	4
J&K/N/KIS N	3
KAR/N/BAN Y Y Y Y Y	3 3 2
KAR/N/BANN Y N N Y Y	2
KAR/N/NAG Y Y Y N N	6
KER/N/ERA N	0
KER/N/PER Y Y N N N	2
KER/N/SIL N	1
MAH/N/NAW Y Y Y Y Y	5
MAH/N/PEN Y Y Y Y	ĩ
MAH/N/SAN N	3 F
MAH/N/TAD Y Y Y Y Y	3 F 4 8 1
MAN/N/KEI N	8
MAN/N/SIR N	ĩ
MP/N/BAN Y N N N	ĩ
MP/N/FOS N	F
MP/N/IND Y Y Y Y	4
MP/N/KAN Y Y Y Y	1
MP/N/KANG Y N N N N	1
MP/N/MAD Y N N N N	2
MP/N/PAN Y Y N N	8
MP/N/PEN N	2
MP/N/SAN Y Y Y N N	

### Table - 18 (...contd)

CODE	HIGHWAY OR ANY OTHER THOROUGHFARE THROUGH PARK	CONTRACTOR OF A REAL PROPERTY OF	CHECKPOSTS FOR VEHICLES LEAVING PARK	CHECKPOSTS FOR PEOPLE ENTERING PARK	CHECKPOSTS FOR PEOPLE LEAVING PARE	MANNED ENTRY POINTS	UNMANNED ENTRY POINTS
MP/N/SAT	N						4
MP/N/VAN	Y	Y	Y	Y	Y	3	0
ORI/N/SIM	N					4	1220
RAJ/N/DES	Y	Y	N	Y	N	4	4 0 0
RAJ/N/KEO	N					1	p
RAJ/N/RAN	N					3	
RAJ/N/SAR	¥	Y	Y	Y	Y	3	1)
SIK/N/KHA	N					4	
TN/N/GUI	N					1	4 0 0 0
UP/N/COR	N					3	0
UP/N/DUD	Y	Y	Y	Y	Y	4	0
UP/N/NAN	N				(e)	2	0
UP/N/VAL	N					1	
WB/N/SUN	N					2	6

#### MANAGEMENT

#### Management Plan and Budget

Each national park is supposed to have a set of objectives, based on which, a strategy for managing that particular park has to be formulated. It is this strategy which gets reflected in a management plan. A management plan therefore, is used as a tool for setting up management priorities for a given time period, which is usually 5 years. Along with a management plan, a separate budget for the park is also needed, so that the execution of a plan is not hindered due to lack of funds. Of the 52 national parks listed in table - 19:-

#### Existence of Management Plans

1. 26 parks reported the absence of a management plan. These parks were, Marine (A&N), Middle Button (A&N), Mount Harriet (A&N), North Button (A&N), Saddle Peak (A&N), South Button (A&N), Bhagwan Mahavir (GOA), Gir (GUJ), Marine (GUJ), Velavadar (GUJ), Great Himalayan (HP), Pin Valley (HP), Eravikulam (KER), Silent Valley (KER), Keibul Lamjao (MAN), Fossil (MP), Kanger Ghati (MP), Madhav (MP), Panna (MP), Sanjay (MP), Satpura (MP), Van Vihar (MP), Desert (RAJ), Keoladeo Ghana (RAJ), Nanda Devi (UP), and Valley of Flowers (UP).

Of the 26 parks which reported the existence of management plan:-

2. Only 8 parks were reported to have management plans which had been approved by the concerned authorities. These were, Bansda (GUJ), Kishtwar (J&K), Sanjay Gandhi (MAH), Tadoba (MAH), Siroy (MAN), Bandhavgarh (MP), Kanha (MP), and Sariska (RAJ).

#### Approval of Plans

3. The 18 parks which did not report the approval of their plans were, Namdapha (ARU), Dachigam (J&K), Hemis (J&K), Bandipur (KAR), Bannerghatta (KAR), Nagarhole (KAR), Periyar (KER), Nawegaon (MAH), Pench (MAH), Indravati (MP), Pench (MP), Simlipal (ORI), Ranthambhore (RAJ), Khangchendzonga (SIK), Guindy (TN), Corbett (UP), Dudhwa (UP), and Sunderban (WB).

Of the above, 12 parks had not even submitted their respective management plans for approval. The ones which had done so were, Dachigam (J&K), Bandipur (KAR), Nawegaon (MAH), Pench (MAH), Guindy (TN), and Dudhwa (UP).

#### Plan Period

4. Management plans of Bandipur (KAR), Pench (MAH), Kanha (MP), Simlipal (ORI), and Ranthambhore (RAJ) were reported to be for a period before 1979, and were not valid for the period between 1979-80. The old plans were still being followed for management of these parks.

#### Existence of Budgets

5. 35 parks were reported having a separate budget. The 17 parks which did not report the existence of a separate budget were; Marine (A&N), Middle Button (A&N), Mount Harriet (A&N), North Button (A&N), Saddle Peak (A&N), South Button (A&N), Bhagwan Mahavir (GOA), Great Himalayam (HP), Dachigam (J&K), Silent Valley (KER), Nawegaon (MAH), Pench (MAH), Sirey (MAN), Fossil (MP), Kanger Ghati (MP), Valley of Flowers (UP), and Sunderban (WB).

5 of the above listed parks had reported the existence of a management plan. These were; Dachigam (J&K), Nawegaon (MAH), Pench (MAH), Siroy (MAN), and Sunderban (WB).

6. Of the 35 parks which reported the existence of a budget, 14 had not reported the existence of a management plan. These were; Gir (GUJ), Marine (GUJ), Velavadar (GUJ), Pin Valley (HP), Eravikulam (KER), Keibul Lamjao (MAN), Madhav (MP), Panna (MP), Sanjay (MP), Satpura (MP), Van Vihar (MP), Desert (RAJ), Keoladeo Ghana (RAJ), and Nanda Devi (UP).

### Basis of Management in the Absence of Plans

7. In the absence of a management plan, 12 parks reported that the basis of management was the annual plans. These parks were; Marine (A&N), Bhagwan Mahavir (GOA), Velavadar (GUJ), Keibul Lamjao (MAN), Bandhavgarh (MP), Kanha (MP), Nadhav (MP), Sanjay (MP), Satpura (MP), Desert (RAJ), Keoladeo Ghana (RAJ), and Sariska (RAJ).

# Table - 19 (MANAGENEET PLAN AND BUDGET)

CODE	IS THERE A HANAGENERT Plan?		AUTHOR OF THE PLAN?	NHEH WAS THE PLAN SUBMITTED FOR APPROVAL		PLAN VALID FOR WHICE PERIOD?	BASIS OF MANACEMENT IN THE ABSENCE OF A PLAN	SEPERATE BUDGET?
AAN/N/HAR	ĸ						ANNUAL PLAN	X
A&N/N/HID	K						PROTECTION ONLY	1
AAN/N/HOU	H						HO PLANHING	3
AAB/R/NOR	N						PROTECTION ONLY	N
AAR/X/SAD	B							R
AAN/1/900	H						PROTECTION ONLY	Ħ
ARU/R/HAM	ĭ	15/03/83	DPO NAHDAPHA			1983 TO 1990		Y
GOA/IL/EBIA	N						ANNUAL PLAN	R
GUJ/N/BAR	Y	05/02/79	SPECIAL CCP, GUJARAT, VADCORA	21/12/81	APPROVED: DATE NOT KNOWN			Y
GUJ/X/GIR	N						WL WORKING PLAN 1976-85	Y
GUJ/N/HAR	8						PLANS OF MARINE PARKS ABROAD	Y
GOJ/R/VEL	8						ANNUAL PLANS	Y
HP/N/GRE	N							X
HE/N/PIN	8						AS PER DIRECTIONS OF CHEW	¥
J&K/II/DAC	Y	01/04/80	DEPUTY CHLM AND ACP	01/04/80		1980 TO 1985		R
JAK/X/HEH	Y	01/01/85	RESEARCH OFFICER			1985 70 1990		T
JAK/B/KIS	Ŷ		Shri SD SEATAHTRA	10/07/84	APPROVED:	1984-85 TO		Ŷ
	2				DATE NOT KROWN	1989-90		2
KAR/K/BAH	Y	01/03/73	ACF, WILDLIFE PRESERVATION, HYSORE	01/03/74		1973-74 TO 1978-79	OLD PLAN STILL BEING POLLOWED	ĭ
KAR/B/BANN	T	01/01/79	CHEH. KARNATAKA			1978-79 10		Y
		1073				1982-83		
KAR/E/HAG	Y	01/11/75	ACF				NO PEAN	Y
KER/N/ERA	R						ASHUAL PLAN	Y
KER/8/PER	Y	10/02/78	FIELD DIRECTOR			1978 10 1983		Y
KER/H/SIL	K							N
MAH/K/HAM	Y	01/07/84	DPO, NAWBGACH	01/07/84		1985 10 1990		N
HAH/N/PEN	Ŷ		DFO. MAGPUR DIVISION	01/01/69		1969 70 1974		N
HAR/N/SAM	¥	01/05/74	FORMER DFO, BORIVALI NATIONAL PARK		29/09/83	(10 YEARS)		Ĩ
HAB/N/TAD	Y	11			APPROVED: DATE NOT KHOWN	1976-77 to 1980-81	PHASED PROGRAMMES	Y
HAN/N/KEL	н						AREGAL PLAN	I
HAN/N/SIR	Y	01/04/85	CATH	27/06/86	07/07/86	1986-1987		H
	Ŷ		DEPUTT CP	01/01/71	24/09/75	1972-73 10	ARNUAL PLAN	ï
HE/N/BAN	Ċ.	199911112				1981-82		

Table - 19 (...contd)

CODE	IS THERE A MANAGEMENT		HITEOR OF THE PLAN?	WHEN WAS THE PLAN SUBMITTED	DATE OF APPROVAL	PLAN VALUD FOR WHICH	BASIS OF HANAGENENT IN THE ABSENCE OF	SEPERAT BUDGET?
	PLAN?	PERPARED		FOR APPROVAL		PERIOD?	A PLAN	
HP/N/IND	Ÿ		DIRECTOR			1982-83 TO		Ŧ
UP. Dr. Drawn			Avera areasta			1989-90		
HP/H/KAN	Ŧ	24/05/73	FIELD DIRECTOR, PROJECT TIGER, KANHA	31/03/74	26/09/74	1973-74 10 1978-79	ANNUAL PLAN	Ŧ
2/M/KANG	N		NATION .					3
HP/N/MAD	8						ARNUAL PLAN	Ĩ
@/N/PAN	B							Y
NP/N/PEN	Ŷ		CHEN			1979-80 TO 1984-85		Ŷ
HP/M/SAN	8						ANNUAL PLAN	Y
HE/B/SAT	N						ANNUAL PLANS	Ŷ
RAV/N/SH	n						DEVELOPHERT PLAN	Y
DRI/N/SIN	Ÿ	10/03/74	EX-FIELD DIRECTOR			1973-79	STILL USING OLD PLAN	ŗ
RAJ/N/DES	B						ANNUAL PLAN	Y
RAJ/R/KEO	K						ANNUAL PLAN	Y
RAJ/B/RAN	r		FIELD DIRECTOR, ASSISTANT FIELD DIRECTOR, ACF			1974 10 1979	STILL USING OLD PLAN	ĩ
RAJ/K/SAR	Ŧ	01/01/78	CHLW, WEW SARISKA, ACP, Shri BL MIANA	01/01/78	01/01/79	1979-80 TO 1983-84	ANNUAL PLAN	Y
SIK/H/KHA	Ŧ	01/01/79	CHLH-CUM-CCF (RSTIRED)			1980-81 70 1984-85		¥.
TH/N/GUI	¥	12/10/81	R.K.SOMASUNDARAN, WE WARDEN, MADRAS	12/10/81		NOT TET APPBOWED		ĩ
UP/N/COR	ĩ	01/04/74	FIELD DIRECTOR, PROJECT TIGES, UP			1973-74 f0 1978-79		Ÿ
U2/R/DUD	Y	01/01/83	DIRECTOR, DUEHNA NP	01/01/83		1982-83 70 1991-92		Y
UP/N/NAN	H							Ŧ
IR/N/VAL	N							H
WB/N/SUN	¥		STATE NL OFFICER			1973-74 TO 1978-79	STILL USING OLD PLAN	H

### Zoning

The creation of a national park often leads to a conflict between the objectives of the park and the needs of local people who depend upon the natural resources of the park. The concept of dividing a park into a core and a buffer zone, with the buffer having the status of a sanctuary, attempts to resolve this conflict. Whereas the core-zone is to be totally free from all human disturbances, a buffer zone can be used by the people in a regulated manner. In addition, special zones like a tourist-zone may also be demarcated.

20 national parks (table - 20) reported the existence of zoning.

1. The core-zone was the park itself while the buffer-zone was a sanctuary in case of Gir (GUJ), Sariska (RAJ) and Simlipal (ORI).

2. The buffer-zone was outside the park in the case of Pench (MAH) and Bandhavgarh (MP), but the legal status of the buffer-zone was not clear.

3. Bhagwan Mahavir (GOA) reported the existence of zoning but the area of its core-zone was equal to the total area given in table - 20. Kishtwar (J&K) did not mention the areas of the core and buffer zones.

4. Except for the parks mentioned in (1) and (3) above, the area of the buffer-zone given in table - 20 was the proposed and not the actual area. Consequently the total area mentioned was also the proposed total area. It was not clear, except in the case of Pench (MAH) and Bandhavgarh (MP), whether the buffer-zone would lie outside or within the park.

5. The existence of a tourism-zone was mentioned only in the case of Periyar (KER) .

 The largest buffer-zone, 1,69,949 ha. was reported from Bandhavgarh (MP), while the smallest, 1000 ha. was reported from Dachigam (J&K).

Limitations of the data: - The existence of a buffer-zone does not necessarily mean that it is being managed in order to meet some of the requirements of the local people. In some cases where the buffer-zone is outside the park, it is under the control of the territorial wing and therefore the park management has no say in how it should be managed.

<sup>\*</sup> Although Marine National Park, Gujarat did not report the existence of zoning, the Marine Sanctuary is mentioned to be the other-zone, and may be considered a buffer for the park.

Table - 20 (20HING)

CODE	AREA OF THE CORE JONE IN HECTARES	PERCENTAGE OF CORE SORE IN TOTAL AREA		BUFFER ZONE IN	TOTAL ABEA	OTHER :	SONE AREA OF THE OTHER ZONE	PERCENTAGE OF OTHER JONE LN YOTAL AREA
ARU/H/HAM	69500.00	38.44	111282.00	61.56	180782.00			
GOA/K/BHA	18700.00	100.00	111102.00	01.00	10700.00			
GUJ/N/GIR	25871.00	18.32	10077.00	7.14	141213.15			
HP/S/GRE	62000.00	35.71	111600.00	64.29	173600.00			
HP/S/PIN	67500.00	36.99	115000.00	63.01	182500.00			
JAX/R/DAC	13100.00	92.91	1000.00	7.09	14100.00			
J&K/W/KIS					40000.00			
KAR/N/BAN	52300.00	60.41	26000.00	30.03	86573.00		8273.00	9.56
KAR/N/NAG	18385.00	32.17	48770.00	85.33	57155.00			
KER/N/PER	35000.00	45.05	37700.00	48.52	77700.00		5800.00	6.44
	Sec. 15	1.22				ZONE		
HAE/8/288	25723.70	53.99	21921.70	46.01	47645.40			
MAH/R/SAN	2329.00	24.59	7140.91	75.41	9469.91			
HP/R/BAH	44884.00	100.00	159949.00	378.64	44884.00		0.00	
HP/R/IND	125837.20	44.96	154071.40	55.04	279908.50			
ORI/W/SIX					30300.00	SANCTUARY		
RAJ/N/BAN					39220.00			
RAJ/N/SAR						SANCTUARY	49200.00	179.69
UP/N/COR	32998.00	63.36	19034.00	36.64	52082.00	SUBCIONAI	43200.00	1/2.03
UP/E/DUD	49029.16	79.81	12402.51	20.19	61431.67			
VE/M/ BUK	169950.20	65.75	88527.00	34.25	258477.20	DOTATALO	22027.00	8.52
20101900	703394.70	93.13	00321.00	1.11	230911.20	AREA	44027.00	0.74

÷

\* The buffer-zone in case of Ranthambhore (RAJ) is outside the park and is not under control of the park management.

## Plantation work for Fuel and Fodder

1.4

Only 3 parks ie; Dachigam (J&K), Pench (MP), and Guindy (TN) reported that plantation work for fuel and fodder had been undertaken (see table - 21).

Planting of willow, prunus and walnut plants by the Wildlife Wing had been carried out in all the 5 years between 1979 and 1984 in Dachigam (J&K). It was reported that plantations were successful in diverting pressure from the park in 1981-81, 1982-83 and 1983-84.

Pench (MP) reported that Stylosantheshad been planted over an area of 25 ha. for fodder, but was unable to divert pressures from the park.

Guindy (TN) reported that fodder grass yielding 50,000 kg had been raised by the forest department but did not give information regarding diversion of pressure from the park.

# Table - 21 (PLANTATION WORK FOR FUEL AND FODDER)

CODE	YEAR	DESCRIPTION OF ACTIVITIES	CONTROLLED BY	PURPOSE OF PLANTATIONS	QUANTUH OF YIELD OR AREA UNDER PLANTATION	DIVERSION OF PRESSURE ?
JAK/B/DAC	1979-80	Willow Planting	WL Department	Fodder	Nil	
00.000.000	1980-81	Willow and Prunus Planting	WL Department	Fodder	Bil	÷
	1981-82	Willow, Prunus and Walnut Planting	WL Department	Fodder	200 guintals	Tes
	1982-83	Willow Planting	WL Department	Fodder	375 quintals	Tes
	1983-84	Willow, Prunus and Walnut Planting	WL Department	Fodder	700 guintals	Tes
HP/N/PEN		Stylosanthes	Park authorities	Fodder	25 ha (area)	80
îk/n/gui		Raising of grass for fodder	Porest Department	Fodder	50,000 kg.	

### Relocation

According to the Wildlife Protection Act, 1972, no human habitation can be allowed inside a park. Since many parks in India are inhabited by people, it is legally necessary to move them out. In order to achieve this objective, relocation schemes were and are, being undertaken by several parks. 8 parks, Bandhavgarh (MP), Kanha (MP), Panna (MP), Satpura (MP), Simlipal (ORI), Ranthambhore (RAJ), Sariska (RAJ), and Dudhwa (UP) reported that relocation of people was either going to be or had been undertaken (see tables - 22.1 & 22.2).

Of the above listed parks:-

1. Kanha (MP) reported the proposed relocation of 28 villages from inside the park, which was the largest number of villages proposed for relocation from any one park. It also reported that 22 villages had been already relocated from inside the park which was again more than any other park.

2. Similipal (ORI) was the only park which reported proposed relocation of villages from adjacent areas of the park.

3. Panna (MP), Simlipal (ORI) and Sariska (RAJ) were the only park which had not already been involved in the process of relocation.

CODE	VILLAGES PROPOSED TO BE RELOCATED FROM INSIDE THE PARK	NUMBER OF PEOPLE IN VILLAGES INSIDE	VILLAGES PROPOSED TO BE RELOCATED FROM ADJACENT AREAS OF PARK	NUMBER OF PEOPLE IN ADJACENT VILLAGES
MP/N/BAN	6	1584		
MP/N/KAN	28			
MP/N/PAN	19			
MP/N/SAT	8	800		
ORI/N/SIM			9	
RAJ/N/RAN	16			
RAJ/N/SAR	11			
UP/N/DUD	2	500		

### Table - 22.1 (PROPOSED RELOCATION)

## Table - 22.2 (RELOCATION COMPLETED)

⊂ODE ≂	VILLAGES RELOCATED FROM INSIDE THE PARK	POPULATION RELOCATED FROM INSIDE THE PARK	VILLAGES RELOCATED FROM ADJACENT AREAS OF PARK	
MP/N/BAN	1	33		
MP/N/KAN	22	1059703		
MP/N/PAN	0			
MP/N/SAT	0 2			
ORI/N/SIM			0	
RAJ/N/RAN	12			
RAJ/N/SAR	0			
UP/N/DUD	- 2	200		

## Livestock Compensation

21 Parks reported that there was provision for compensation of injury/death of livestock by wild animals. (See tables 23.1 and 23.2)

#### Of these:

1. 9 parks, Gir (GUJ), Bandipur (KAR), Pench (MAH), Indravati (MP), Kanger Ghati (MP), Panna (MP), Sanjay (MP), Sariska (RAJ), and Corbett (UP) reported that compensation was paid for livestock injured/dead both inside and in the adjacent areas of the park.

2. 2 parks, Bansda (GUJ) and Simlipal (ORI) reported that compensation was paid for livestock injured/dead only inside the park.

3. The rest of the parks reported that compensation was paid for livestock injured/dead only in adjacent areas of the park.

# Table - 23.1 (LIVESTOCK COMPENSATION - I)

CODE	And the second sec	COMPENSATION FOR LIVESTOCK INJURED OR KILLED ADJACENT TO THE PARK ?	CONS INJURED OR	COMPERSATION FOR CONS INJURED OR KILLED ADJACENT TO THE PARK (IN RUPRES)		COMPENSATION FOR EMPPALOS TETTE OR KILLED ADJACENT TO THE PARK (IF EDLAS)
GUJ/N/BAN	YES		500		600	
GUJ/N/GIR	YES	YES	500	500	600	600
KAR/R/BAN	YES	YES		100		
KAR/H/RANN	50	YES				
XAR/H/HAG	50	YES				
KER/#/PER	NO	YES				
MAR/R/PEN	YES	YES	1000	1000	1200	1200
MAH/N/TAD	HO	YES	800		1200	
HP/N/BAN	NO	YES		UP TO 2000		UP TO 2000
HP/H/IND	YES	YES				
HP/N/XANG	YES	YES				
HD/N/5W	YES	YES		22 E		
HE/R/PER	HO	YES		YES		YES
NP/N/SAN	YES	YES	800		2000	
RAJ/N/SAR	TES	YES				
SIK/H/KHA	90 1	YES		50% OF VALUE OR UPTO A MAXIMUM OF Rs. 500		50% OF VALUE OR UPTO A HAXIMUM OF PS 500
UP/N/COR	YES		750	750	1000	1000
UP/N/DUD	NO	YES	375	750	(85.05).	1000
UP/N/NAS	NO	YES		1500		1000
UP/R/VAL	RÔ	YES		1500		1000
WB/N/SUN	NO	YES		100		150
100000000000000000000000000000000000000	4.5751	D.095.		2022.2		1001

Table - 23.2 (LIVESTOCK COMPENSATION - II)

CODE	COMPENSATION FOR LIVESTOCK INJUERD OR KILLED INSIDE THE PARK ?	COMPENSATION FOR LIVESTOCK INJURED- OR KILLED ADJACENT TO THE PARK ?	GOATS INJURED OR		Children - Line annua -	COMPENSATION FOR SHEEP INJURED OR KILLED ADJACENT TO THE PARK
	Ido FARA :	IV THE CALL :	(IN BUPERS)	(IN RUPPES)	(IN RUPERS)	(IN ROPERS)
GUJ/H/BAN	YES		10% OF MARKET PRICE		10% OF RARKET PRICE	
GUJ/H/GIR	YES	YES	908 OF HARKET PRICE	90% OF HARKET PRICE	90% OF MARKET PRICE	90% OF MARKET PRICE
KAR/S/BAB	YES	TES				
KAR/H/BANK	RO	YES				
KAR/N/HAG	BO	YES				
KER/N/PER	80	YES		YES		TES
HAH/N/PEN	YES	YES			75% OF THE VALUE (VALUATION BY RANGE OFFICER)	
HAH/H/TAD	80	YES	75		75	8
H2/11/1338	80	YES		UP 10 2000		UP TO 2000
HP/B/IND	YES .	YBS				
HE/R/KANG	YES	TES				
NP/N/PAN	YES	YES				
NE/N/25N	80			YES		
HP/H/SAN	YES		200		200	
RAJ/W/SAR	YES	.3				
	NO	IES		50% OF VALUE OR UPTO A MAXIMUM OF Rs. 100		50% OF VALUE-OR UPTO A HAXIMUM OF Rs. 100
UP/N/COR	YES		100		100	100
UP/N/DUD	HO	YES		100		100
UP/H/HAN	80	YES		100		100
UP/N/VAL	NO	77		100		100
WB/R/SOR	KO	0.00		25		25

### Vaccinations of Livestock

As has been discussed in the section on grazing, 27 out of the 52 national parks being studied reported that domestic livestock was grazed within their boundaries. This is a potential source of infection to the wildlife which may even lead to an epidemic. One way in which this threat can be minimised, is through vaccination of domestic animals inside and in adjacent areas of the park. Data on vaccination of livestock is presented in Table - 24. Out of 52 national parks:-

#### Extent

1. For 7 parks, Namdapha (ARU), Nagarhole (KAR), Tadoba (MAH), Bandhavgarh (MP), Kanha (MP), Panna (MP), and Sariska (RAJ) it was reported that vaccination of livestock was undertaken inside the park

Of the parks listed above, only Namdapha (ARU) National Park reported a 100% coverage of livestock vaccinated. The next highest was Nagarhole (KAR) National Park with 65%. These were the only 2 parks which reported a vaccine cover of more than 50%. The other parks which gave information on the percentage of livestock vaccinated, were Kanha (MP) National Park with 10% and Panna (MP) National Park which reported 'few'.

2. For 19 parks, it was reported that vaccination of livestock was undertaken in adjacent areas. These parks Namdapha (ARU), Bhagwan Mahavir (GOA), Dachigam (J&K), Bandipur (KAR), Bannerghatta (KAP), Nagarhole (KAR), Periyar (KER), Tadoba (MAH), Keibul Lamjac (MAN), Siroy (MAN), Bandhavgarh (MP), Madhav (MP), Panna (MP), Pench (MAH), Simlipal (ORI), Keoladeo Ghana (RAJ), Sariska (RAJ), Corbett (UP) and Dudhwa (UP).

#### Coverage

3. There were 4 which reported a low ie; less than or equal to 33% vaccine cover for livestock in adjacent areas. These were, Nagarhole (KAR), Periyar (KER), Keoladeo Ghana (RAJ), and Simlipal (ORI).

4. There were 5 which reported a medium ie; greater than 33% and less than 67% vaccine cover for livestock in adjacent areas. These were, Keibul Lamjao (MAN), Siroy (MAN), Bannerghatta (KAR), Tadoba (MAH), and Corbett (UP).

5. There were 4 which reported a high ie; greater than or equal to 67% vaccine cover for livestock in adjacent areas. These were, Namdapha (ARU), Dudhwa (UP), Bandipur (KAR) and Pench (MAH).

The remaining 6 parks did not provide any information regarding coverage of vaccinations.

7. Many parks in India are on the migration route of graziers like the Gujjars, Gaddis etc., or are dissected by other through fares. Consequently, many of them might have a transitory population of domestic livestock. 11 parks reported that such livestock populations were checked for vaccination. These were, Namdapha (ARU), Bhagwan Mahavir (GOA), Bandipur (KAR), Bannerghatta (KAR), Nagarhole (KAR), Tadoba (MAH), Bandhavgarh (MP), Desert (RAJ), Sariska (RAJ), Corbett (UP) and Dudhwa (UP).

Of the above, only 2 parks ie; Namdapha (ARU), and Nagarhole (KAR) reported the existence of quarantine facilities for livestock at the entrance to the park.

# Table - 24 (VACCIMATIONS OF LIVESTOCK)

CODE		LIVESTOCK DI	PERCENTAGE OF LIVESTOCK VACCIEATED	PERCENTAGE OF LIVESTOCK VACCINATED	LIVESTOCK PASSING THROUGH PARK CHECKED FOR	EXISTENCE OF QUARANTINE PACILITIES
		VILLAGES	INSIDE PARK	IN VILLAGES	VACCINATION	AT ENTRANCE
AAN/X/HAR	N	Б	0.00			a
MAN/H/HED	I	I			I	I
RAN/N/HOU	N	8	0.00		X	X
AAN/H/HOR	R	H	0.00		I	I
A&H/N/SAD	8	N			X	X
A&#/N/SOU</td><td>I</td><td>ĩ</td><td></td><td></td><td>I</td><td>1</td></tr><tr><td>ARO/N/RAM</td><td>ĩ</td><td>Y</td><td>100.00</td><td>100.00</td><td>T</td><td>Ŷ</td></tr><tr><td>GOA/S/EEA</td><td>H</td><td>Ŷ</td><td></td><td></td><td>Ŷ</td><td>N</td></tr><tr><td>GUJ/N/BAN</td><td></td><td>B</td><td></td><td></td><td>-</td><td>Ħ</td></tr><tr><td>GUJ/N/GIR</td><td>8</td><td>E.</td><td></td><td></td><td>N</td><td>N</td></tr><tr><td>GUJ/N/MAR</td><td>H</td><td>H</td><td></td><td></td><td>I</td><td>I</td></tr><tr><td>GUJ/N/VEL</td><td>R</td><td>H</td><td></td><td></td><td>8</td><td>H</td></tr><tr><td>HP/H/GRE</td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>HP/N/PIN</td><td></td><td></td><td></td><td></td><td>X</td><td>H</td></tr><tr><td>J&K/H/DAC</td><td>8</td><td>Y</td><td>0.00</td><td></td><td>H</td><td>B</td></tr><tr><td>JAK/S/HEM</td><td>X</td><td>N</td><td></td><td></td><td>Ħ</td><td>8</td></tr><tr><td>JEK/H/KIS</td><td>N</td><td>H</td><td></td><td></td><td>I</td><td>8</td></tr><tr><td>KAR/N/BAN</td><td>N</td><td>Y</td><td>0.00</td><td>70.00</td><td>Y</td><td>3</td></tr><tr><td>KAR/B/BARN</td><td>K</td><td>Y</td><td></td><td>50.00</td><td>¥</td><td>R</td></tr><tr><td>KAR/N/HAG</td><td>Y</td><td>Y</td><td>65.00</td><td>30.00</td><td>Y</td><td>Y</td></tr><tr><td>KER/N/BRA=</td><td>R</td><td>8</td><td>0.00</td><td>0.00</td><td>B</td><td>8</td></tr><tr><td>XER/II/PER</td><td></td><td>Ĩ</td><td></td><td>20.00</td><td>X</td><td>N</td></tr><tr><td>KER/N/SIL</td><td>8</td><td></td><td>0.00</td><td>0.00</td><td></td><td>8</td></tr><tr><td>MAB/N/NAM</td><td></td><td></td><td></td><td></td><td>8</td><td>R</td></tr><tr><td>HAH/N/PER</td><td>8</td><td>8</td><td></td><td></td><td>N</td><td>8</td></tr><tr><td>MAR/N/SAN</td><td>N</td><td>R</td><td>0.00</td><td></td><td>N</td><td>ă</td></tr><tr><td>HAH/N/TAD</td><td>Y</td><td>Y</td><td></td><td>50.00</td><td>Y</td><td>R</td></tr><tr><td>HAR/R/XET</td><td>K</td><td>Y</td><td></td><td>60.00</td><td>H</td><td>8</td></tr><tr><td>HAR/R/SIR</td><td>R</td><td>T</td><td>0.00</td><td>60.00</td><td></td><td>X</td></tr><tr><td>HP/N/BAN</td><td>Y</td><td>Ŧ</td><td></td><td></td><td>Y</td><td>X</td></tr><tr><td>HP/H/FOS</td><td></td><td></td><td></td><td></td><td>-</td><td></td></tr><tr><td>MP/N/IND</td><td>H</td><td>X</td><td></td><td></td><td>X</td><td>K</td></tr><tr><td>HP/K/KAN</td><td>I</td><td>8</td><td>10.00</td><td></td><td>N</td><td>N</td></tr><tr><td>NP/H/KANG</td><td></td><td>N</td><td>0.00</td><td>0.00</td><td>N</td><td>8</td></tr><tr><td>HP/H/HAD</td><td>I</td><td>Y</td><td></td><td></td><td>H</td><td>8</td></tr><tr><td>HP/N/PAN</td><td>Ŧ</td><td>Y</td><td>251</td><td></td><td>N</td><td>N</td></tr><tr><td>HP/B/PEH</td><td>R</td><td>Y</td><td>260415</td><td>70.00</td><td>ï</td><td>Æ</td></tr><tr><td>MP/H/SAN</td><td>N</td><td>B</td><td></td><td>10121010</td><td>N</td><td>X</td></tr><tr><td>HP/M/SAT</td><td>N</td><td>H</td><td></td><td></td><td>8</td><td>ñ</td></tr><tr><td>HP/K/VAN</td><td>Ï</td><td>Ĩ</td><td>0.00</td><td></td><td>ĩ</td><td>H</td></tr></tbody></table>						

Table -	24	(contd)

CODE _	VACCINATION OF LIVESTOCK INSIDE PARK	VACCINATION OF LIVESTOCK IN SURROUNDING VILLAGES	PERCENTAGE OF LIVESTOCX VACCINATED INSIDE PARK	PERCENTAGE OF LIVESTOCK VACCINATED IN VILLAGES	LIVESTOCK PASSING THROUGH PARK CHECKED FOR VACCINATION	BIISTERCE OF QUARANTINE FACILITIES AT ENTRANCE
ORI/H/SI	e s	Ŧ	0.00	1.00	ĸ	x
RAJ/N/DES	5 H	Y N	22/2012		K Y	N
RAJ/N/KEC	) N	Y	0.00	20,00	I	B
RAJ/N/RAM		X			I	
RAJ/H/SAM	Y Y	Ŧ			Y	S H
STK/N/XH	8	R			70	H
TR/N/GUI	0	- T-	0.00	0.00		H
UP/R/COR		Y	2.7.5.9.7.	50.00	T	H
UP/N/DUD	I	Ŷ		80.00	Ŧ	N
UP/N/HAN	R	8		0.600.0	Î	N
OP/R/VAL	Ĩ	N.			ī	X
WE/E/SUN	N	R H			75	X

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#### Research

Research projects were reported to have been undertaken in 13 parks (see table 25.1). Of these:- $\sim$ 

1. The most extensively researched park was Kanha (MP), which reported that 5 different research projects had been undertaken in the park. Marine (GUJ), and Sariska (RAJ) reported that 4 research projects each.

2. Most of the "research projects" were either monitoring exercises, especially so in the case of Dachigam (J&K), or were biological and/or ecological studies of a single species of fauna or flora. One could not find a single project which dealt with a topic related to the management of these parks.

12 parks (see table - 25.2) reported ongoing research projects. Of these:-

3. The maximum number of ongoing research projects (4) were reported from Marine (GUJ). Indravati (MP), Keoladeo Ghana (RAJ), and Ranthambhore (RAJ) each reported that 3 projects were being undertaken in these parks. From a managerial point of view however, the interesting studies were reported from Bandhavgarh (MP), where "Dispersal and Livestock Depradation by Tiger" was being studied, and Sunderban (WB), where a study on "Man-eating Tigers" was being undertaken.

#### Facilities for Research

19 out of 52 parks (see table - 25.3), reported the availability of facilities and/or equipment for research and/or research staff.

- Marine National Park, Andaman & Nicobar (Binoculars, Camera / No staff)
- Middle Button National Park, Andaman & Nicobar (Binoculars, Camera / No staff)
- Namdapha National Park, Arunachal Pradesh (Museum, Library, Thermometer, Rain-guage, Survey Equipment, Photo Equipment, Lab Equipment, Binoculars, Generator, Refrigerator / No staff)
- 4. Gir National Park, Gujarat (No equipment / 1 ACF)
- Marine National Park, Gujarat (Boats, Microscopes, Research References, Thermometre, Hygrometre, Sedimentation Disk, Aquarium / No staff)
- Dachigam National Park, Jammu & Kashmir (No equipment / M.S. Bacha, Research Assistant)
  - Bandipur National Park, Karnataka (Camera, Binoculars, Night Viewer / No staff)
  - Periyar (KER) National Park (Night Viewer, Binoculars, Camera, Dart Gun / 1 Range Officer)
  - 9. Tadoba (MAH) National Park (3 Binoculars / No Staff)
- Bandhavgarh National Park, Madhya Pradesh (2 Binoculars, 1 Microscope / No Staff)
- Indravati Nalional Park, Madhya Pradesh (Field Lab, Central Wildlife Lab, Microscope, Photo Equipment, Vegetation Monitoring Equipment, Electric Oven, Balance / No Staff)

- Kanha National Park, Madhya Pradesh (Lab with Photo, Measurement, Innoculation and other equipment / P.C. Kotwal, Research Officer)
- Sanjay National Park, Madhya Pradesh (2 Binoculars, 7 Thermometers / No Staff)
- 14. Simlipal National Park, Orissa (Lab equipment and accommodation / No Staff)
- 15. Keoladeo Ghana National Park, Rajasthan (No equipment / 1 Junior Research Officer)
- Ranthambhore National Park, Rajasthan (No equipment / 1 Research Officer, 1 Lab Assistant, and 7 gamewatchers)
- 17. Sariska National Park, Rajasthan (Tape Recorder, Tranquilising Gun, Altimeters, Hygrometers, Cameras, Binoculars / No Staff)
- Corbett National Park, Uttar Pradesh (Microscope, Medicines, Tranquilizers, and other equipment / 1 Research Officer, 1 Research Range Officer, 1 Research Forester, 1 Research Guard)
- Sunderban National Park, West Bengal (Lab at Gobasa, Depth Sampler, Autopsy Kit, Balance / No Staff)

Of the above listed parks, 11 ie; Marine (A&N), Middle Button (A&N), Namdapha (ARU), Marine (GUJ), Bandipur (KAR), Tadoba (MAH), Bandhavgarh (MP), Indravati (MP), Sanjay (MP), Simlipal (ORI), and Sunderban (WB) reported the availability of equipment for research but did not report the availability of staff for the same. Conversely, 3 parks ie; Gir (GUJ), Dachigam (J&K), and Keoladeo Ghana (RAJ) reported the availability of research staff but reported the unavailability of equipment for research.

#### Monitoring

Monitoring activities were reported to be undertaken by 10 parks. These were:-

- Namdapha National Park, Arunachal Pradesh (Tiger census and laying of plots to monitor flora)
- 2. Bhagwan Mahavir (GOA) National Park, Goa (Annual census)
- 3. Bandipur National Park, Karnataka (Animal census)
- Periyar (KER) National Park, Kerala (Laying plots to monitor vegetation and animal use pattern)
- Kanha National Fark, Madhya Pradesh (Laying plots to monitor vegetation and animals)
- 6. Van Vihar (MP) National Park (Animal Census)
- Simlipal National Park, Orissa (Movement of Tiger, Panther and Elephants)
- 8. Sariska National Park (Census, and studying movement,
- flight distance, sighting, and use of waterhole by animals)
- Khangchendzonga National Park, Sikkim (Survey of Movement frequency)
- 10. Sunderban (WB) National Park (Movement of crocodiles)

Apart from the above, a five yearly lion census is undertaken in Gir (GUJ).

Special/subsidised accommodation for researchers was reported to be available in 11 parks. These were, Marine (A&N), Namdapha (ARU), Gir (GUJ), Marine (GUJ), Dachigam (J&K), Kishtwar (J&K), Eravikulam (KER), Kanha (MP), Simlipal (ORI), Sariska (RAJ) and Corbett (UP).

# Table - 25.1 (RESEARCH PROJECTS COMPLETED)

CODE	SUBJECT	NAME OF THE INVESTIGATOR	YEAR OF COMPLETION	DETAILS OF PUBLICATION IF ANY	COPI AVAI IN P.
QUJ/N/GIR	ECOLOGY OF ASIATIC LION	PAUL JOSLIN, CHICAGO ZOO	1971	PUBLISHED	N
	ECOLOGY OF GIR UNGULATES	STEPHAN BERWICK, YALE UNIVERSITY, USA	1971	PUBLISHED	N.
GUJ/N/MAR	EDIBLE OYSTERS	HARESH DAVE	1981	1981-82	N
	MARINE PARK OF GULF OF KACHCH	SA CHAVAN	1983	BNHS CENTENARY SEMINAR	Y
	FISHES OF GUJARAT	MI PATEL, RESEARCH OFFICER, FISHERIES, SIKKA	1982		
	REEF HERON	DEPT OF BIOSCIENCE, SAURASHTRA UNIV	1983		
J&K/N/DAC	KASHMIR STAG CENSUS	MS BACHA, RESEARCH ASSISTANT	1980		Y
	PROJECT HANGUL	MIR INAYATULLAH, CWLW	1980	NATRAJ PUBLISHERS, DEHRADUN 1981	Y.
	KASHMIR STAG CENSUS	MS BACHA, RESEARCH ASSISTANT	1982		Y

	10	1			
CODE	SUBJECT	NAME OF THE INVESTIGATOR	YEAR OF COMPLETION	DETAILS OF PUBLICATION IF ANY	COPIES AVAILAB IN PARK
KAR/N/BAN		S. SHIVALANGAIH, ACF AND RO			N
		M. MURIYAPPA, ACF AND RO			N
		B. BASHEER AHMAD, ACF AND RO			N
KER/N/PER	BARBETS	S.A.YAHYA, BNHS			N
	ANIMAL MONITORING	RESEARCH INSTITUTE		PUBLISHED	Y
KER/N/PER	DRONGOS	PEECHI TRICHUR MRS V.S.VIJAYAN, BNHS	1980		N
MP/N/BAN	FLORA OF BANDHAVGARH	SDN TEWARI, RETIRED CCF			Ŷ
@/N/KAN	TIGER AND DEER	G SCHALLER	1966	CHICAGO UNIVERSITY	Y
	STATUS & ECOLOGY OF SWAMP DEER	CLAUDE MARTIN	1976	ZURICH UNIVERSITY AND BNHS	Y
	ECOLOGY OF GRASSLANDS OF KANHA NP		1982	PHD THESIS	Y
	INTERRELATIONSHIP OF LANGOOR AND SPOTTED DEER		1983	PHD	¥
	ECOLOGY AND BIOLOGY OF GAUR	SS CHANDIRAMANI	1984	PHD	N
ORI/N/SIM	TIGER AND ITS ASSOCIATES 1974-81	SR CHAUDHURY, EX-FIELD DIRECTOR		INTERIM REPORT PUBLISHED	
RAJ/N/KEO	HYDROBIOLOGY OF FARK	VS VIJAYAN, BNHS		1983, BNHS	Y
RAJ/N/RAN	POPULATION DYNAMICS, ANIMAL COUNTING	ACF		NO	Ÿ

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CODE	SUBJECT	NAME OF THE INVESTIGATOR		DETAILS OF PUBLICATION IF ANY	COPIES AVAILABLE IN PARK
RAJ/N/SAR	FREQUENCY OF ANIMALS ON WATER HOLES		1980		
	ROLE OF SALT LICKS IN ARAVALI ECOSYSTEM		1980		
	FLIGHT DISTANCE OF WILD ANIMALS		1980		
	PREDATION % OF TIGER ON EACH DEER & ANTELOPE SPECIES		1980		
UP/N/COR	BIOLOGICAL IMPACT OF RAMGANGA PROJECT SUBMERGENCE	BS LAMBA	1979		Y
WB/N/SUN	ECOLOGY	AB CHOWDHARY, SK CHAKRABARTY	1977	IN 'CHEETAL' AND 'SCIENCE AND CULTURE'	Y
	ECOLOGY	P SANYAL		IN 'TIGER PAPER' AND 'CHEETAL'	Ŷ
	BOTANY	P SANYAL, MK CHOWDHURY, LK BANNERJEE		IN 'JOURNAL OF INDIAN COAST AGRICULTURE SOCIETY'	Ŷ

Table - 25.2 (RESEARCH PROJECTS ONGOING)

CODE ONGOING RESEARCH PROJECTS

- A&N/N/MAR BIOLOGY OF LEATHERBACK AND GREEN SEA TURTLES: RESULTS GRADUALLY RECEIVED
- ARU/N/NAM ECOLOGY OF HOOLOCK BY AK CHATTERJEE, DFO: EXPECTED DATE OF PUBLICATION 31-3-86

FAUNA OF PARK BY ZOOLOGICAL SURVEY OF INDIA: SINCE 1979-80

FLORA OF PARK BY BOTANICAL SURVEY OF INDIA

GUJ/N/GIR ECOLOGY OF ASIATIC LION BY SP SINHA, DEPT OF BIOSCIENCE, SAURASHTRA UNIV

ECOLOGY OF GIR AVIFAUNA BY AK BANERJEE, DEPT OF BIOSCIENCE, SAURASHTRA UNIV

GUJ/N/MAR CORALS IN GULF OF KUTCH BY MI PATEL, RESEARCH OFFICER, FISHERIES, SIKKA

PEARL OYSTERS BY MI PATEL, RESEARCH OFFICER, FISHERIES, SIKKA

MUD SKIPPERS IN GULF OF KUTCH BY SAURASHTRA UNIV

SHELLS (MOLLUSCS) OF MARINE PARK AND ANIMALS OF CORAL REEF IN THE GULF OF KACHCHH BY SA CHAVAN, MARINE NP

- &K/N/HEM CENSUS OF SNOW LEOPARD BY AN INDO-USA TEAM: STARTED IN 1985; PARK IS PART OF STUDY AREA
- MP/N/BAN ECOLOGY AND BEHAVIOUR OF TIGER IN BANDHAVGARH NP: 1986

DISPERSAL AND LIVESTOCK DEPRADATION BY TIGER IN UMARIA DIVISION: 1986

MP/N/IND VEGETATION MONITORING: 1986-87

BIOMASS STUDIES OF GRASSLANDS: 1986-87

ANIMAL MONITORING: 1989-90

MP/N/KAN EVALUATION OF WILDLIFE HABITAT & ITS UTILISATION BY MAJOR MAMMALS IN KANHA NATIONAL PARK BY PC KOTWAL, RESEARCH OFFICER: 1982-87

> ECOLOGY AND BIOLOGY OF JACKALS BY DK PANDE, GOTEGAON (MP): SINCE 1984-86

CODE ONGOING RESEARCH PROJECTS

RAJ/N/KEO HYDROBIOLOGY OF PARK BY VS VIJAYAN, ENHS

VEGETATIONAL DEVELOPMENT IN SEMI-TROPICAL MONSOONAL WETLAND IN INDIA BY CRAIG DAVIS, SMITHSONIAN WETLAND ECOLOGY TEAM, USA

BIRD NESTS BY KC JOSHI, JUNIOR RANGE OFFICER

RAJ/N/RAN PREPARATION OF INVENTORIES

SOIL SURVEY

VEGETATION MONITORING

UP/N/NAN WILD ANIMALS OF PARK BY ZOOLOGICAL SURVEY OF INDIA

WB/N/SUN OLIVE RIDLEY TURTLE BY P SANYAL AND SD SAHA

MAN-EATING TIGERS BY MK CHOWDHURY AND P SANYAL

# Table - 25.3 (STAFF AND FACILITIES FOR RESEARCE)

CODE	DETAILS OF EQUIPHENT/PACILITIES AVAILABLE FOR RESEARCH		PRIORITIES FOR RESEARCH IF ANY	and the state of the state of the	DETAILS OF MONITORING ACTIVITY INCLUDING FREQUENCY, METHODOLOGY COVERAGE, RESULTS BTC.	ACCOMMODATION FOR
ALN/H/HAR	BINOCULARS, CAMERA	X	COMPLETE AREA OF PARX FOR RESEARCH ON ANIMALS	X		Y WANDOOR POREST GUEST HOUSE
MAN/R/MID	CAMERA, BINOCULARS	X	WEDLE AREA OF PARX	N		N (AVAILABLE AT LONG ISLAND, MORE THAN 10 KM PROM PARK)
AAH/H/HOU	I	B	NANAGEHERT PEAN	Ħ		N (FOREST REST HOUSE UNDER CONSTRUCTION)
AAR/H/HOR	N (CAMERA, BINOCULARS AT PORT BLAIR)	8	WHOLE AREA OF PARK	X		X
A&N/H/SAD	I	H		H		H
AAN/N/SOU	8	Ň	NHOLE AREA OF PARK	Ħ		H
ABO/R/RAM	NUSEUM, LIBEART, THERMONETEE, RAINGUAGE, SURVEY EQUIPMENT, FROTO EQUIPMENT, LABORATORY EQUIPMENT, BINOCULARS, GENERATOR, EXPRIGENATO		EXPLORATIONS OF PLORA AND FAUNA	Ŷ	EUGLOGICAL MONITORING OF TIGER: CENSUS IN ALTERNAYE YARS HONITORING OF FLORA BY LAYING PLOTS	PATHOL CAMPS AT VARIOUS PLACES FREE OF COST
GOA/N/NEA	X	3	STATUS OF DIFFERENT ANIMALS IN PARK: IDEAL TREATMENT OF MABLIAN WITH RESPECT TO TARGETS OF PARK	Y	ARUAL CENSUS	X
GUJ/N/BAN						X
	I	1 ACP	EFFECTS OF NALDHARI HOMADISH ON POPULATION AND FOOD HABITS OF LION AND ON IT'S HABITAT: CAREVING CAPACIT OF GIR FORESTS: LION TERRITORIALITY: POPULATION DYNAMICS AND FOOD HABITS OF UNCULATES: HABITAT CHANGES DOE TO COMMERCIAL FORESTRY IN GIR	X Y		TREATED AT PAR WITH GOVT SERVARTS CH DOTY

ING SPECIAL/SUBSIDISED ACCOMMUDATION FOR LOGY RESEARCHERS STC.
SMALL TENTS MADE AVAILABLE
R
X
8
1 HUT WITH BEDROOH, DRAWING-CUM-DENING ROOM, XITCHEN, ARD BATHROOM
H
i

CODE	DETAILS OF BQUIPHENT/FACILITIES AVAILABLE FOR RESEARCH	DETAILS OF RESEARCH STAPF	PRIORITIES FOR RESEARCE IF ANY		DETAILS OF MONITORING ACTIVITY INCLUDING FREQUENCY, METHODOLOGY COWERNER, RESULTS ETC.	ACCOMMODATION FOR RESEARCHERS
JAR/H/BAH	1 CAMERA, BINOCULAR, NIGHT VIEWER	X	DISTRIBUTION MAPPING: SEASONAL NOVEMENS OF WILDLIPE: EFFECT OF CONTROLLED BUENING IN PATCHES ON FODDER DURING		CENSUS OF ANTHALS	Ŧ
			SUMMER AND CONTROL OF FIRE HAZARDS: POPULATION DYNAMICS:			
KAR/R/BANN	R	N	HREEDING OF ENDARGERED SPECIES	H		A
KAR/N/NAG	N	H	Ŧ	H		H
KER/B/ERA	,	8		Я		1 REST HOUSE OF TATA TEA LID INSIDE PARK AT RS 10 PER PERSON. RS 25 FOR WATCHER PER DAY, AND EXTRA FOR PORTER IF WEEDED.
KER/Ø/FER	HIGHT VIEWER BIHODELARS, CAHERA DART GUN	RANGE GFFICER, TRAINED IN WILDLIFE HANAGEMENT	USE OF POREST AND HABITAT TYPES BY DIFFERENT SPECIES: HOWITORING HOWEMENT OF SPECIE: LIKE TIGHE, ELEPHAN AND GAUE:	s	VEGETATION AND ANIMAL USE PATTERN IN EACH TIPE OF FORMST BY TAKING 1 ha. PLOYS IN EACH	X
KER/N/SIL	R.	H	19 8-10 C	R		3
HAH/N/NAW	B	н		H		R
HAE/N/PER		H		H		R
HER / N/ HER	N.	N	¥	Ħ		N
HAH/K/TAD	3 BIHOCULARS	I	INVENTORY OF HICRO PAUNA AND FLORA: HABITAT UTILISATION PATTERN: EREDTING BEHAVIOUR AND HICEATION OF GAUR AND WILD DOCS: EFFECT ON ECOLOG OF FLOMERING OF RAMBOO			X

CODE	DETAILS OF BQUIPHENT/FACILITIES AVAILABLE FOR RESEARCH	Contraction of the second second second second second second second second second second second second second s	PRIORITIES FOR RESEARCH IF ANY		DETAILS OF HORITORING ACTIVITY INGEDDING FREQUENCY, METHODOLOGY COVERAGE, RESULTS ETC.	ACCOMMODATION FOR
HAR/N/KEI	H	R.	ECOLOGY OF BROW-ANTLERED DEER	R		8
MAN/N/SIR	R	N .	DUCH FULLINGUE DEDIC	R		ā
HE/A/BAX	2 BINOCULARS, 1 HICROSCOPE	ž	DISPERSAL OF TIGERS: CATTLE LIFTING PROBLEM IN ADJOINING AMEAS OF THE PARK:	8	(OFFICIALS MAINTAIN RECORD OF SIGHTING OF AFIMALS IN PRESCRIBED PORMS WHILE PATROLLING THE PARK)	8
			DEPLETICH IN GAU	R		
HP/N/FOS			POPOLATION	N		N
HP/N/IND	PIELD LAB, CENTRAL WILDLIFE LAB, HICROSCOPE, PHOTO SQUIPHENT, VEOSTATION HONITORING SQUIPHENT, ELECTRIC OVEN, BALANCS	8	HEED FURDS TO BSTABLISH LAB, LIBRART, FIELD PACILITIES AND FOR STAPP AND A JEEP	a 2		a H
H2/8/KAN	WELL-EQUIPPED LAB WITH PHOTO, NEASUREMENT, INHOCULATION, AND SEVERAL OTHER EQUIPMENTS		EBGRESSION IM KAMEA HEADGWS: INVASION OF HEADOWS BY TEBE VEGETATION: PERIODIC BURNING OF GRASSLANDS: HIGRATION AND DISPERSAL OF UNGULATES FROM COBE 200E TO BUFFER SCHE:	Ĩ	60 PLOYS DEMARCATED FOR VEGETATION AND AMIMAL MONITORING: BESULTS ON ANIMAL DISPERSAL	2 SUITES ON HOMINAL RENT OR PRES FOR A HAXIMON STAI OF THO YEARS
HP/N/KANG	N	H		N		ñ
		-	OF BIOSPHERE AREA	127		
HP/N/HAD		ā	AULUADA	M		ž.
HE /N/PAN	R	X	CHANGES IN VEGETATION PATTERN AND DENSITY AND WILDLIPS DISTRIBUTION DUE TO PROTECTION	H	×	X
HP/X/28X	R	N		8		R
把/II/SM	2 BINOCULARS, 7 THERMOMETRES	H	BCOLOGY	I		B

Table - 25.3 (...contå)

COBE	DETAILS OF EQUIPHENT/PACILITIES AVAILABLE FOR RESEARCH	DETAILS OF RESEARCH STAFF	PRIORITIES FOR RESEARCH IP ANY	ACTIVITIES	DEVAILS OF MONITORING ACTIVITY INCLUDING - FREQUENCY, METHODOLOGY COVERAGE, RESULTS ETC.	ACCOMMODATION FOR
HP/N/SAT	x	1	PRESENCE OF ALMOST WHITE GAOR IN SOUTHEEN AND WESTERN HALF OF PARK, INCLUDING A TOOME ONR	X		1
ND/R/VAR	E C	1		¥	ANIMAL CENSUS BY DIRECT SIGNYING METHOD IN WHOLE AREA	x .
ORI/N/SEM	LAB SQUIPHENT AND ACCOMMODATION	8	VEGETATION MAPPING: INFACT OF FIRE ON BOCSISTEM: INFACT OF OCMMERCIAL POESSING OR ECOSISTEM: INFACT OF NUMAN INFERFERENCE ON	Ŷ	NOVEMENT OF TIGER, PARTHER, AND ELEPHANTS DATA UNDER PROCESS	ACCOMMODATION AT RAMTIRTH JOSHIPGE: CAMPING HOUSE ACCOMMODATION AT 10 LOCATIONS INSIDE:
BAJ/H/OBS	1	I	ECOSYSTEM RESEARCH IN SAM AND SUDASARI AREAS OF THE PARK	8		1
RAJ/N/880	H	JUNIOR BO, WITH DIPLOKA IN WILDLIPH MANAGEMENT	CHANGE IN HABITAT DUE TO STOPPAGE OF GRAXING BY CATTLE: HYDROLOGY AND VEGETATION:	ł		X
RAJ/N/RAN	LAB BUTLDING	1 ACP (RO), 1 LAB ASSISTANT, 7 GAMEWATCHERS	RELATIONSHIP OF LESSER CARVINGES WITH LADGE PREDATORS: CHANGES IN VEGETATION, ESPECIALLY OF EVICTED VILLAGE SITES	X		X
RAJ/N/SAR	TAPE RECORDER, TRANQUILISING GUR, ALTIMETRES, HYGEOMETRES, CAMERAS, BIHOCULARS	POSTS EXIST EUT ARE VACART	INDACT OF GRAING AND CARRYING CAPACITY OF KANKWARI PLATEAU AND SILIBERY VALLEY:	Ŧ	CENSUS & STUDY OF OF HEALTH, MOVEMENT, FLIGHT DISTANCE, SIGHTING PERCENTAGE, AND USE OF MATERHOLES	RESEARCH CENTRE AT KALIGHATI, STAY AT RS 20 PER HEAD PER DAY WITH STATE GOVT PERMISSION

CODE	DETAILS OP EQUIPMENT/PACILITIES AVAILABLE FOR RESEARCH	2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PRIORITIES FOR RESEARCH IP ANY		DETAILS OF MONITORING ACTIVITY INCLUDING PREQUENCY, METHODOLOGY COVERAGE, RESULTS ETC.	ACCOMMODATION FOR RESEARCHERS
SIK/H/XHA	R	X	HABITAT OP WUSK Deer, blur sheep, And himalayan tahr		SURVEY OF NOVEMENT FREQUENCY OF SPECIES BY OBSERVING EXCRETA, HAIR DROPPINGS AND POOTPRINTS IN SOME AREAS	I
TN/H/GUI	N	H	INTERACTION OP BLACKBECK AND CHITAL: CARRYING CAPACIT OF PARX	R T		I
up/n/cor	MICROSCOPE, MEDICINES, TRANQUILIZERS, AND OTHER LAE EQUIEMENT	RESEARCH OPFICER, RESEARCH RANGE OFFICER, RESEARCH FORESTER, ARD RESEARCH GUARD		<u>R</u>		HUYS AND CAMPING Grounds
UP/N/DUD	N	R	EFFECT OF CONTROLLED EURNING AND PLANTATION OR RATURAL FLORA AND FAUNA: EFFECT OF REINO GRINTHOBOCTION ON PARK: EFFECT OF ELECTRIC FEECING SEASONAL MIGRATION OF PARK ANTHALS AND FOOD AVAILABLENT	Ĩ		X
UP/8/838	R	3	VEGRYATION HAPPING: PAUNA SURVEY	R		H
UP/N/VAS	• · ·	x	VEGETATION WAPPING AND SCOLOGICAL RESEARCH	N		я
WE/K/SUN	LAB AT GOSABA, UEPTE SAMPLER, AUTOPST KIT, BALANCE		PECBLEM OF MAMEATING TIGERS: SOCIAL BEBAVIOUR OF TIGER, FISHING CAT, AND SALTWAYER CROCODILE: LIFE CYCLE, AND BEEEDIAG BEMAVIOUR OF OLIVE RIDLEY TURYLE		CROCODILES RELEASED WITH LOCATION SPECIFIC COLOURED TAGS: LARGEST DRIFT NOTICE IS 6.5 km in FIRST YEA	D

## Association with outside experts

6 Parks were reported to have had association of outside experts. These were, Great Himalayan (HP), Dachigam (J&K), Hemis (J&K), Bannerghatta (KAR), Kanha (MP) and Van Vihar (MP).

Kanha' (MP) was the most intensively researched park by outsiders, as it reported that 6 different projects had been carried out in the park by various individuals from outside the forest department or the wildlife wing. Great Himalayan (HP) reported 3 projects while Dachigam (J&K) reported 2 projects undertaken by outsiders.

# Table - 26 (ASSOCIATION WITH OUTSIDE EXPERTS)

COD <u>R</u>	NAME OF BREERT	INSTITUTE TO WHICH THE EXPERT BELONGED	SPONSORS	PERIOD OF ASSOCIATION	WORK DONE BY THE EXPERT
H2/N/GRE	Dr. A.J. Gaston and associates	Canadian Wildlife Service	Government of India	1979-80	Studies in the proposed National Park
	Mr. Hunter and Dr. Gaston			1981-82	Studies in the Proposed National Park
	Dr. P.J. Garson and associates	Dept. of Zoology, Hew Castle		1 March to 24 April, 1983	Studies in the proposed Rational Park
J&K/N/DAC	Dr. Colin Holloway, Ecologist	MKF Morges, Surtz	WHE		
	Dr. Fred Kurt, Ecologist	Dept. of Ecology and Environment		Sporadically between 1975-80	Ecological study of Kashmir Stag
J&X/N/HEN	Hr. David Hallon			1982-84	Census of Shapu and potential of Snow Leopard
KAR/N/BANN	Manmath Kumar		Forest Department	1981 opwards	Advice on snake park maintenance
HE/N/KAN	Mr. Seal and Mr. Hech	Oniversity of Minnestota	Project Tiger	1976	Innobilisation of animals and Radiotelemetery
	Dr. Berwick and Hr. Saharia	Wildlife Institute of India	GOI and US Fish & Wildlife Service	1982	Workshop on Wildlife Hanagement Techniques
	Mr. Van Cane and 5 others	US Rational Park Service	US National Park Service	October - November 1984	Park interpretation programme
	Shri Kartikeya and 10 others	CEE Ahnedabad	US National Park Service	April - June 1984	Park interpretation Program
	Shri Hadhav Waik		US National Park Service	April - June 1984	Park interpretation program
KP/N/RUX	S. Kunar		Wildlife Institute of India	One sonth	Grazing Problem

One of the prerequisites of effectively managing a park is an extensive knowledge of the area. Having detailed maps is helpful in gaining this knowledge. 18 out of the 52 parks, (see table - 27.1, 27.2 and 27.3) reported the un-availability of maps. These were, Middle Button (A&N), Mount Harriet (A&N), Gir (GUJ), Marine (GUJ), Pin Valley (HP), Nagarhole (KAR), Eravikulam (KER), Silent Valley (KER), Nawegaon (MAH), Pench (MAH), Sanjay Gandhi (MAH), Keibul Lamjao (MAN), Siroy (MAN), Sanjay (MP), Desert (RAJ), Guindy (TN), Nanda Devi (UP), and Valley of Flowers (UP).

4 parks out of 52 did not answer this question. These were, Bansda (GUJ), Great Himalayan (HP), Hemis (J&K), and Fossil (MP).

Of the 30 national parks which reported the availability of maps (see table - 26.1, 26.2, and 26.3):-

 Only Sariska (RAJ) reported the availability of all the 5 kinds of maps le; vegetation, soil, water availability, terrain, and wildlife distribution maps, for which information was gathered.

2. 14 parks reported the availability of a vegetation map. These were Namdapha (ARU), Dachigam (J&K), Bandipur (KAR), Periyar (KER), Tadoba (MAH), Kanha, Panna (MP), Simlipal (ORI), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Khangchendzonga (SIK), Dudhwa (UP) and Sunderban.

 2 parks ie; Simlipal (ORI) and Sariska (RAJ) reported the availability of a Soil map.

4. 11 parks reported the existence of a water availability map. These were Dachigam (J&K), Bandipur (KAR), Tadoba (MAH), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Madhav (MP), Simlipal (ORI), Sariska (RAJ), Khangchendzonga (SIK), and Dudhwa (UP).

5. 16 parks reported the availability of a Terrain map. These were Namdapha (ARU), Dachigam (J&K), Kishtwar (J&K), Periyar (KER), Tadoba (MAH), Bandhavgarh (MP), Kanha (MP), Kanger Ghati (MP), Madhav (MP), Panna (MP), Pench (MAH), Satpura (MP), Simlipal (ORI), Ranthambhore (RAJ), Sariska (RAJ) and Corbett (UP).

6. 9 parks reported the availability of a wildlife Distribution map. These were Nandapha (ARU), Bhagwan Mahavir (COA), Periyar (KER), Tadoba (MAH), Bandhavgarh (MP), Kanha (MP), Panna (MP), Sariska (RAJ) and Khangchendzonga (SIK).

7. 10 parks reported the availability of maps other than the ones for which information was sought. These were, Marine (A&N), North Button (A&N), Saddle Peak (A&N), South Button (A&N), Velavadar (GUJ), Bannerghatta (KAR), Kanha (MP), Pench (MAH), Van Vihar (MP), and Corbett (UP).

### Maps

CODE	VEGETATION MAP	YEAR OF PREPARATION	PERCENTAGE AREA OF THE PARK COVERED BY THE VEGETATION MAP	SOIL MAP	YEAR OF PREPARATION	PERCENTAGE AREA OF THE PARK COVERED BY THE SOIL MAP
*.1						
A&N/N/MAR		27				
A&N/N/NOR						
A&N/N/SAD						
A&N/N/SOU			¥7			
ARU/N/NAM	Y	1976	20			
GOA/N/BHA	N	1010	20	N		
GUJ/N/VEL	N			N		
J&K/N/DAC	Y	1980	100	N		
J&K/N/KIS						
KAR/N/BAN	Y	1973				
KAR/N/BANN						
KER/N/PER	Y	1971	100	N		
MAH/N/TAD	Y	1984	100	N		
MP/N/BAN						
MP/N/IND	N			N		
MP/N/KAN	Y	1984	100	N		
MP/N/KANG						
MP/N/MAD	N	- 11222		N		
MP/N/PAN	Y	1983	100	N		
MP/N/PEN	N			N		
MP/N/SAT	N			N		
MP/N/VAN		1000	100			
ORI/N/SIM	Y	1979	100	Y	1974	100
RAJ/N/KEO	Y	1979	100	N		
RAJ/N/RAN	Y	1001	100	N Y	1001	105
RAJ/N/SAR	Y	1981	100	Y	1981	100
SIK/N/KHA	Y	1984	70			
UP/N/COR		1001	100			
UP/N/DUD	Y Y	1984	100			
WB/N/SUN	1	1981	100			

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# Table - 27.2 (MAPS - T1)

CODE	WATER AVAILABILIFY MAP	YEAR OF PREPARATION	PERCENTAGE AREA OF THE PARK COVERED BY THE WATER MAP	TERRAIN MAP	YEAR OF PREPARATION	PERCENTAGE AREA OF THE PARK COVERED BY THE TERRAIN MAP
A&N/N/MAR						
A&N/N/NOR						
A&N/N/SAD A&N/N/SOU						
Hour My SUU						
ARU/N/NAM				*	1967	
GOA/N/BHA	N			Y N	1907	
GUJ/N/VEL	N	12.1		N		
J&K/N/DAC	Y	1980	100	Y	1980	100
J&K/N/KIS	•	1000	100	Ŷ	1981	100
KAR/N/BAN	Y	1983		0 <b>8</b> 0	1001	100
KAR/N/BANN		1000				
KER/N/PER	N			Y	1908	100
MAH/N/TAD	Y	1984	100	Ŷ	1000	200
MP/N/BAN	Y	1982	23	Ŷ	1982	100
MP/N/IND	Y	1985		Y N	1000	100
MP/N/KAN	Y	1983	100	Y	1975	100
MP/N/KANG				Y Y	1982	100
MP/N/MAD	Y	1984	100	Y	1984	100
MP/N/PAN	N			Y	1983	100
MP/N/PEN	N			Y		
				*		
MP/N/SAT	N			Y		80 -
MP/N/VAN						
ORI/N/SIM	¥	1973	100	YN	1973	100
RAJ/N/KEO	N			N		
RAJ/N/RAN	N			Y	and the second sec	100
RAJ/N/SAR	Y	1980	100	Y	1980	100
SIK/N/KHA	¥	1983	70			
UP/N/COR				Y	1937	
	Ŷ	1984	100			
UP/N/DUD WB/N/SUN	¥	1984	100	Ŷ	1937	

Survey of India Maps

# Table - 27.3 (MAPS - III)

	CODE	WILDLIFE DISTRIBUTION HAP	YEAR OF PREPARATION	PERCENTAGE-AREA OF THE PARK COVERED BY THE WILDLIFE HAP	OTHER HAPS IF ANY	YEAR OP PREPARATION	PERCENTAGE AREA OF THE PARK COVERED
	AAN/H/MAR A&B/N/HOR A&B/N/SAD				SOI TOPOSHEETS SOI TOPOSHEETS SOI TOPOSHEETS	1978	109
	A&R/R/SOU	22	5220	100	SOI TOPOSHEETS		100
	ARU/N/NAM	Y	1981	60	8		
	GOA/N/BHA	Y	1984	100	N	1000	
	GUJ/N/VEL J&K/N/DAC J&K/N/KIS KAR/N/BAH	N			AREA & VILGAGE HAP	1975	100
	KAR/N/BANN				TOPOSHEETS		
	- Internation	1	12123	1222			
	KER/N/PSR	Y	1979	100	12		
	NAH/N/TAD	Y	1984	100	ĸ		
	MP/N/BAN	Y	1982	23	10		
	股份/100	N			N		
	HE/N/KAN HE/N/KANG HE/N/KAD	Y	1581	100	ASRIAL PHOTOS	1981	100
	HP/X/PAN	Y	1583	100		-	
	MP/N/PEN	N			AERIAL PHOTOS		
	HP/II/SAT	ñ					
(	HP/N/VAN				REVENUE DEPARTMENT HAP & SOI TOPOSHEES	13	
	ORI/N/SIN	8			2		
	RAJ/N/KBO	N			H		
	RAJ/N/RAN	N					
	RAJ/H/SAR	Y	1980	100			
	SIK/B/KHA U2/N/COR U2/N/DUD	¥	1983	70	WORKING PLAN MAP	1935	
	SB/H/SUB						

# Tiger Hap

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SOI = Survey of India

## Introduction of Flora

8 parks (see table - 28) reported the introduction of floral species.

The maximum number of species planted were reported by Sunderban (WB) which reported that 6 different exotic flora species had been introduced to the park in 1976. All the species planted, were said to be thriving and had been planted on the banks of ponds. it was not mentioned however, why they had been planted there.

Bannerghatta (KAR) also reported the introduction of at least 5 as well as a few other plant species between 1971 and 1972. All the species, except <u>Bucalvptus hybrid</u> which was planted for afforestation, were planted for ornamental purposes. All of them were in "GOOD" shape.

Dachigam (J&K) reported the introduction of 5 flora species. All the species, except <u>Populus</u> <u>alba</u> which was planted for ornamental purposes, were planted because they are eaten by animals. All of them were reported to be in a "GOOD" condition.

Simlipal (ORI) reported the introduction of 3 species for ornamental as well as commercial purposes between 1926 and 1980. All these plantations had been abandoned, except for Eucalyptus citriodora which was said to be surviving.

Sanjay Gandhi (MAH) reported the introduction of 2 species of flora in 1981-82. They were reported to have been planted since they were "RARE IN THE PARK" and all of them were doing satisfactorily well. However, it was not clear how a species which was "RARE IN THE PARK", could have been introduced.

Periyar (KER), Keoladeo Ghana (RAJ), and Corbett (UP) each reported the of a single species of flora for varying objectives.

# Table - 28 (INTRODUCTION OF FLORA)

CODE	YEAR OF INTRODUCTION	NAME OF THE SPECIES INTRODUCED	REASON FOR THE INTRODUCTION	CURRENT STATUS
J&K/N/DAC	1940	QUERCUS ROLNIR ROBINTA SPENDOAEDERA POPULUS ALBA SALIX SPP.	FOOD FOR HERBIVORES ORNAMENTAL FOOD FOR HERBIVORES	GOOD GOOD GOOD GOOD
'(ar/n/Bann	1971 1972 1972 1972	PRUNUS ARMENICA EUCALYPTUS HYBRID BAUHINIA PURPUREA SAMANIA SAMAN PELTAFORUM, DELONIX REGIA, AND OTHER ORNAMENTAL SPECIES	FOOD FOR BLACK BEAR AFFORESTATION ORNAMENTAL SHADE PURPOSE ORNAMENTAL	GOOD GOOD GOOD GOOD
KER/N/PER	1962	EUCALYPTUS GRANDIS	RAW MATERIAL FOR INDUSTRY	STOPPED NOW
MAH/N/SAN	1981-82	LEUCENA LEUCOPHILA	SINCE IT WAS RARE IN PARK	SATISFACTORY
	1981-82	AUSTRALIAN ACACIA	SINCE IT WAS RARE IN PARK	SATISFACTORY
ORI/N/SIM	1926	EUCALYPTUS CITRIODORA	AVENUE TREES AROUND	SURVIVING
	1960-84 1920-26 AND 1960-80	TEAK PINUS INSULARIS	COMMERCIAL COMMERCIAL, COVERING FROSTY BLANKS UNDER RESEARCH SCHEME	TRIALS FAILED: DAMAGED BY HAILSTORM, FIRE, AND ELEPHANTS. NOW ABANDONED
RAJ/N/KEO		PROSOPIS JULIFLORA	AFFORESTATION	UNDESIRABLE
.P/N/COR	1954	TEAK	TO COVER BLANKS AT ENTRANCE	IN POLE STAGE
B/N/SUN	1976	ANACARDIUM OCCIDENTALE	BANKS OF POND	THRIVING
	1976	EUCALYPTUS TERETICORNIS	BANKS OF POND	THRIVING
	1976 1976 1976 1976	ACACIA MONILIFORMIS DELLONIX REGIA PELTOPHORUM FERUGINIUM	BANKS OF POND BANKS OF POND BANKS OF POND BANKS OF POND	THRIVING THRIVING THRIVING THRIVING

## Introduction of Fauna

Introduction of fauna refers to the phenomenon of placing an animal species into a habitat where it has never been known to occur. 4 parks (no table) were reported to have introduced species of fauna. These were, Bannerghatta (KAR), Periyar (KER), Sanjay Gandhi (MAH), and Bandhavgarh (MP).

Bannerghatta (KAR), which is basically a zoo, reported rearing of Mugger Crocodiles in captivity and then releasing them into tanks. 7 Crocodiles were reared in captivity to begin with and by 1981 this number had gone upto 10-12.

Spotted Deer were released in 1936, in Periyar (KER), but were reported to have disappeared.

Sanjay Gandhi (MAH) reported that in 1971-72, Giant Squirrel, and porcupine, and in 1982-83, Monitor Lizard, Tortoise, Barking Deer, and Indian Fox were released from captivity in order to increase the population of wildlife. The results of this reintroduction were reported to be satisfactory.

Bandhavgarh (MP) reported that Barasingha had been introduced in the park in 1980 due to suitability of the habitat for these endangered species. The attempt was reported to have been unsuccessful.

Thus, of the 4 attempts at introduction of species of fauna reported, 2 were unsuccessful, while in the case of Bannerghatta (KAR), the introduction was not for the release of the faunal species introduced, into a natural habitat.

## Reintroduction of Fauna

Due to increasing human pressures, animal and plant populations have progressively declined in many parks. While some species have become totally extinct, others have disappeared from some of the areas where they occurred. The placement of a certain species in an environment where it is presently extinct but is known to have existed in the past, is termed as reintroduction. 5 parks were reported to have attempted reintroduction of fauna (see table - 29.1). These were, Gir (GUJ), Dachigam (J&K), Sanjay Gandhi, Madhav (MP), and Dudhwa (UP).

Sanjay Gandhi (MAH) attempted reintroduction of 4 species, between 1971 and 1983. All these species had disappeared from the area between 1930 and 1960. All of them were released into the park from captivity, and their current status was said to be satisfactory.

All the other parks attempted reintroduction of only one species each. Gir (GUJ) and Madhav (MP) reported the reintroduction of Blackbuck in 1978-79, and in both cases the attempted reintroduction was a failure.

Dachigam (J&K) reported the reintroduction of Wild Boar, none of whom survived. Dudhwa (UP) reported the reintroduction of Rhinos in 1984. When last counted, there were 7 Rhinos in the park.

#### Breeding Programme for Fauna

In order to increase the population of a certain species of animals, the park management may decide to undertake captive breeding. Often, captive breeding is also undertaken to introduce or reintroduce a certain species in a given area. 6 parks (see table - 29.2) reported having undertaken the captive breeding of animals. These were, Dachigam (J&K), Bannerghatta (KAR), Tadoba (MAH), Kanha (MP), Khangchendzonga (SIK), and Sunderban (WB).

## Table - 29.1 (REINTRODUCTION OF FAUNA)

CODE	NAME OF THE SPECIES	YEAR OF DISAPPEARANCE	YEAR OF REINTRODU	CTION	MODE OF REINTRODUCTION	CURRENT STATUS
GUJ/N/GIR	BLACKBUCK	UNKNOWN	1978		CAPTURED FROM VELAVADAR	NIL
J&K/N/DAC	INDIAN WILD BOAR	UNKNOWN	1920			NIL
MAH/N/SAN	SAMBAR	1950-60	1971-72		RELEASED FROM	SATISFACTOR
	CHITAL	1950-60	1971-72		CAPTIVITY RELEASED FROM	SATISFACTOR
	NILGAI	1930-40	1971-72		CAPTIVITY RELEASED FROM CAPTIVITY	SATISFACTORY
	FOUR HORNED ANTELOPE	1950-60	1971-72		CAPITVITY RELEASED FROM CAPTIVITY AND TRANSPORTED	SATISFACTOR
-MP/N/MAD	BLACKBUCK		1978-79		CAPTURED FROM	NIL
UN/N/DUD	RHINOCEROS		1984		TRANQUILISED AND TRANSPORTED	7 RIIINOS
	Table - 29.2 (B	REEDING PROGRA	IMME FOR FA	UNA)		
CODE	NAME OF THE SPECIE	S YEAR OF INITIATION	PROGRAM W	opula: Hen pi Tartei	ROGRAM STATUS	
J&K/N/DAC	HANGUL	1986	CAPTIVE	8	10	
	MONAL PHEASANT	1987	CAPTIVE			
KAR/N/BANN	CROCODILES	1974		10	16	
	PANTHERS	1979	BREEDING	2	7	
	LIONS	1975	BREEDING	6	30	
	BISON	1978	BREEDING	2	12	
	SPOTTED DEER	1978		20	80	
	SAMBAR	1978	BREEDING	6	12	
	SILKY FOWL			6	10	
	BLUE ROCK PIGEON			30	50	
MAH/N/TAD	MUGGER CROCODILE	1977	CAPTIVE	~		
MP/N/KAN	BARASINGHA	1970		66	<del>,</del> /9	
	BLACKBUCK	1982		27	36	
SIK/N/KHA	MUSK DEER	1984	CAPTIVE	2	2	

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Many parks in India maintain artificial salt licks for use by wildlife. 29 parks (see table - 29) reported the existence of artificial salt licks.

Khangchendzonga (SIK) reported the maximum number of salt licks, 1. which was 2000.

The reasons for providing artificial salt licks were mainly 2. reported to be either the supplementing of natural salts or facilitating animal sighting. However, some of the parks gave other, more interesting, reasons also. For instance, Bandipur (KAR) reported that the reason for providing salt licks was "to induce the animals to browse more and grow well", while Dudhwa (UP) gave dispersal of animals as the reason for providing salt licks.

#### Table - 30 (ARTIFICIAL SALT LICKS)

CODE

NUMBER OF REASONS FOR HAVING ARTIFICIAL SALT LICK(S) ARTIFICIAL SALT LICKS

ARU/N/NAM	50	INSUFFICIENT NATURAL SALT LICKS
GOA/N/BHA	8	TO SUPPLEMENT NATURAL SALT LICKS
GUJ/N/BAN	Ÿ	TO PROVIDE SALT REQUIREMENTS DURING SUMMER
J&K/N/DAC	6	SUPPLEMENT DEFICIENCY OF CALCIUM DURING WINTER
J&K/N/HEM	Ŷ	VERY LESS NATURAL SALT
J&K/N/KIS	100	TO SUPPLEMENT SALT REQUIREMENTS
KAR/N/BAN	75	TO INDUCE ANIMALS TO BROWSE MORE AND GROW WELL
KAR/N/BANN	20	SUPPLEMENT SALT REQUIREMENTS AND ATTRACT
and the second second second second second	1.	ANIMALS FOR VISITORS
KAR/N/NAG	150	
KER/N/PER	140	NATURAL SOURCES INSUFFICIENT
MAH/N/NAW	10	LIKED BY ANIMALS
MAH/N/PEN	60	REQUIRED FOR WILDLIFE .
MAH/N/TAD	15	CONSIDERED ESSENTIAL FOR WILD ANIMALS
MAN/N/KEI	2	TO PROVIDE NEEDED MINERALS AND TO ENSURE
		SIGHTING OF ANIMALS AT FIXED SPOTS
MP/N/BAN	10	TO ATTRACT THE ANIMALS TO AREAS WITH PLENTY
00-080008-000-000-		OF FOOD
MP/N/IND	6	SIGHTING AND STUDY
MP/N/KAN	181	MAKE UP FOR MINERALS/SALT DEFICIENCY:
		AFFECT DISPERSAL OF ANIMALS
		WHERE NO NATURAL SALT LICKS EXIST
MP/N/MAD	20	HIGHE TO THE OPEN WHELE LEVEL AND ALLOT
MP/N/PAN	8	TO ATTRACT ANIMALS TO TOURIST AREAS
MP/N/PEN	Y	TO ATTRACT ANTIALS TO TOURIST AREAS
MP/N/SAN	38	NATURAL SALT LICKS NOT AVAILABLE
	50	
MP/N/SAT	50	NO NATURAL SALT LICKS EXIST:
		IMPROVE SIGHTING OF ANIMALS NEAR LICKS

CODE	NUMBER OF ARTIFICIAL SALT LICKS	REASONS FOR HAVING ARTIFICIAL SALT LICK(S)
MP/N/VAN	10	ABSENCE OF NATURAL SALT LICKS
ORI/N/SIM	12	SUPPLEMENT NATURAL SALT LICKS AND OBSERVE ANIMALS AT THE LICKS
RAJ/N/SAR	15	INSUFFICIENT NATURAL SALT
SIK/N/KHA	2000	LACK OF NATURAL SALT LICKS: TO EXAMINE FREQUENCY OF VISITS OF ANIMALS TO SALT LICKS
TN/N/GUI	40	
UP/N/COR	Y	TO MEET REQUIREMENT OF MINERAL SALTS OF ANIMALS
UP/N/DUD	8	TO DISPERSE ANIMALS

Of the 52 parks for which questionnaires were received, there were 5 which reportedly did not have any staff attached to them (see table -31.1). These parks were; Middle Button (A&N), North Button (A&N), South

Button (A&N), Mount Harriet (A&N), and Silent Valley (KER) .

The DFO, Middle Andaman Territorial Division, was said to be incharge of Middle Button (A&N), North Button (A&N) and South Button (A&N). These parks also do not have any human population inside and are not reportedly visited by tourists. I forest guard was reported to occasionally visit Mount Harriet (A&N), while the rest-house on Mount Harriet has a chowkidar who is employed by the Territorial Wing of the Forest Department.

4 parks reported the availability of only protection staff. These were, Namdapha (ARU), Marine (GUJ), Kishtwar (J&K), and Sanjay Gandhi (MAH).

11 parks reported that all the regular staff members employed in the park were for combined operations with no one exclusively appointed for wildlife work. These parks were; Pin Valley (HP), Dachigam (J&K), Eravikulam (KER), Nawegaon (MAH), Siroy (MAN), Van Vihar (MP), Sariska (RAJ), Guindy (TN), Corbett (UP), Nanda Devi (UP), and Valley of Flowers (UP).

28 parks reported the <u>availability of protection staff</u> in addition to the regular staff. These parks were; Marine (A&N), Gir (GUJ), Velavadar (GUJ), Dachigam (J&K), Bandipur (KAR), Bannerghatta (KAR), Nagarbole (KER), Periyar (KER), Nawegaon (MAH), Tadoba (MAH), Keibul Lamjao (MAN), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Madhav (MP), Panna (MP), Sanjay (MP), Van Vihar (MP), Simlipal (ORI), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Khangchendzonga (SIK), Corbett (UP), Dudhwa (UP), Valley of Flowers (UP), and Sunderban (WB).

33 parks reported that one of more members of their staff had been trained in wildlife management or related activities (see table 31.3).

The maximum number of regular staff in place was reported from Gir (GUJ) (302), while the maximum number of special protection staff in place was reported from Kanha (MP) (227). Kanha (MP) also had the highest total number of staff members (473) - both regular and special protection staff - in place.

<sup>\*</sup> When we received our questionnaire from Silent Valley National Park with information relevant for the period between 1979 and 1984, no one had been appointed on any post in the park. Subsequently however, many people have been appointed for protection and administrative work in the park.

#### Equipment

Out of 52 parks, only 23 reported the availability of equipment (see table - 31.4).

12 parks reported the availability of fixed wireless sets. These

parks were, Mount Harriet (A&N), Gir (GUJ), Bandipur (KAR), Periyar (KER), Bandhavgarh (MP), Madhav (MP), Desert (RAJ), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Corbett (UP), Dudhwa (UP), and Sunderban (WB).

The maximum number of sets, 18, were reported from Bandipur (KAR), while Mount Harriet (A&N) and Keoladeo Ghana (RAJ) reported a minimum of 1 set each. All the above listed parks with the exception of Mount Harriet (A&N) also reported the availability of portable wireless sets. The maximum number of such sets ie; 11 were reported from Periyar (KER), while Gir (GUJ) and Ranthambhore (RAJ) reported a minimum of 1 portable set each.

The availability of fixed wireless sets per staff member was the highest in Ranthambhore (RAJ) [0.153 set per staff member] while it was the lowest in Gir (GUJ) [0.013 set per staff member]. The availability of portable wireless sets per staff member was the highest in Sunderban (WB) [0.129 set per staff member] while it was the lowest again in Gir (GUJ) [0.005 set per staff member].

15 parks reported the availability of fire arms. (See table 31.4 column 4)

The maximum number of guns and rifles ie; 66 were reported from Sunderban (WB) while Panna (MP) reported the availability of only 1 fire arm. The availability of firearms per staff member was the maximum in the case of Guindy (TN) [0.428 guns and rifles per staff member] while it was minimum [0.006 guns and rifles per staff member] in the case of Panna (MP).

22 parks reported the availability of binoculars (see table 31.4, column 5)

The maximum number of binoculars ie; 16 were reported from Gir (GUJ), while the minimum ie; 1 was reported from Madhav (MP). The availability of binoculars per staff member was highest in Marine (GUJ) [1.50 binoculars per staff member] while it was the lowest in Dudhwa (UP) [0.012 binoculars per staff member].

The availability of Electronic Tracking Equipment was reported only from Dudhwa (UP), which reported 2 sets of the same. 5 parks reported the availability of dart guns. These were, Bandipur (KAR), Periyar (KER), Ranthambhore (RAJ), Dudhwa (UP), and Sunderban (WB).

<sup>\*</sup> The wireless set is installed in the forest rest house

While Ranthambhore (RAJ) and Sunderban (WB) reported the availability of 2 dart guns, Bandipur (KAR), Periyar (KER) and Dudhwa (UP) each reported the availability of one such gun. All the above listed parks with the exception of Dudhwa (UP) reported the availability of an infra-red viewer. In addition, Corbett (UP) also reported the availability of an infra-red viewer.

9 parks reported the availability of out board engines. These were, Periyar (KER), Nawegaon (MAH), Pench (MAH), Bandhavgarh (MP), Indravati (MP), Panna (MP), Ranthambhore (RAJ), Khangchendzonga (SIK), and Dudhwa (UP).

Of the above listed 4 parks, Nawegaon (MAH), Pench (MAH), Bandhavgarh (MP), and Khangchendzonga (SIK) also reported the availability of a motor boat. Availability of a 16 mm projector was reported from only 2 parks ie; Nawegaon (MAH) and Pench (MAH).

Table - 31.1 (Regular Staff Available for Protection Work)

CODE DESIGNATION NUMBER

ĩ A&N/N/MAR Chief Wildlife Warden 1 Deputy Conservator of Forests 2 Assistant Conservator of Forests 1 Forest Ranger 5 2 Deputy Ranger 9 Forester Forest Guard 10 Veterinary compounder 2 GOA/N/BHA Range Forest Officer 1 Round Forester 1 Forest Guards 3 GUJ/N/BAN Superintendent (Range Forest Officer) 1 1 Forester 1 Guard Orderly Guard 1 1 Mali 2 Armed Police Constable 3 GUJ/N/GIR Deputy Conservator of Forests Assistant Conservator of Forests 2 16 Range Forest Officer Forester 74 Guard 207 GUJ/N/VEL Range Forest Officer 1 Forester 4 6 Forest Guard Jeep Driver 1 Police Constables 2

CODE	DESIGNATION	NUMBER
ii		
HP/N/GRE	Rangers Wildlife Guards	7 5
HP/N/PIN	Deputy Ranger Forest Guard	0.5 (CMB) 0.5 (CMB)
J&K/N/DAC	Range Officer Forester Game Guards Lower Division Clerk Research Assistant Helpers/Peons	1 (CMB) 0.5 (CMB) 8 (CMB) 0.5 (CMB) 0.5 (CMB) 2 (CMB)
J&K/N/HEM	Range Officer Forester Wildlife Guards	1 1 5
J&K/N/KIS	Range Officer Forest Guards	0.5 (CMB) 6.5 (CMB)
KAR/N/BAN	Field Director Deputy Director Assistant Conservator of Forests Range Forest Officer Forester Forest Guards Mahout Watchers	1 2 6 17 84 7 8
KAR/N/BANN	Assistant Conservator of Forests Range Forest Officer Forester Forest Guards Watchers 1st Division Clerk Driver Peon Animal Attenders and Maintenance Staff 2nd Division Clerk Kanadi (helper) Veterinary Assistant Surgeon	0.5 (CMB) 1.5 (CMB) 1 (CMB) 3.5 (CMB) 0.5 (CMB) 4 0.5 (CMB) 15 (CMB) 0.5 (CMB) 15 (CMB) 4 1
KAR/N/NAG	Range Forest Officer Forester Forest Guard Forest Watcher Caretaker Butler Sweeper Anti Poaching Squad Watcher	2 + 3.5 (CMB) 8 + 11 (CMB) 14 + 38 (CMB) 1 + 6 (CMB) 2 + 1.5 (CMB) 1 1 52

CODE	DESIGNATION	NUMBER
KER/N/ERA	Foresters Fire Watchers (For 3 months in an year) Assistant Wildlife Preservation Officer Guards Wildlife Assistant Peon	0.5 (CMB) 2.5 (CMB) 0.5 (CMB) 2 (CMB) 0.5 (CMB) 0.5 (CMB)
KER/N/PER	Wildlife Preservation Officer Assistant Field Director Rangers Deputy Rangers Foresters Forest Guards Wildlife Assistant Upper Division Clerk Surveyor Peon <sup>-</sup> Tasker Boat Watcher Rest House Watcher Sweeper Accountant Lower Division Clerk Jeep Driver Boat Driver Boat Cleaner Tracker Watcher Cook	1 1 6 2 6 5 3 1 1 7 1 1 3 1 6 3 4 1 3 3
MAH/N/NAW	Assistant Conservator of Forests Range Forest Officer Range Forest Officer (Reception)	0.5 (CMB) 0.5 (CMB) 0.5 (CMB)
MAH/N/PEN	Range Forest Officer Forest Guard	1 2
MAH/N/TAD	Deputy Conservator of Forests Assistant Conservator of Forests Range Forest Officer Forester Guards	1 1 4 6 31
MAN/N/KEI	Ranger Forester Forest Guard Mali Boatman	1 + 0.5 (CMB) 5 + 2.5 (CMB) 9 + 4.5 (CMB) 3 + 1.5 (CMB) 6 + 3 (CMB)
MAN/N/SIR	Forester Forest Guard	1 (CNB) 2 (CMB)

CODE	DESIGNATION	NUMBER
MP/N/BAN	Director Assistant Director Game Ranger Deputy Ranger Forester Game Guard Head Clerk Accountant Upper Division Clerk Lower Division Clerk Steno Driver Peon Mahout	1 2 4 2 4 24 1 2 1 2 1 2 1 3 4 1
MP/N/FOS	Forest Guard Chowkidar	0.5 (CMB) 1
₩₽/N/ IND	Superintendent Rangers Botanist Upper Division Clerk Stenographer Mali Chowkidar Accountant Lower Division Clerk Peon Cook	1 3 1 1 1 2 1 1 2 2 1
MP/N/KANG	Director Park Supervisor Game Guard Accountant Peon Driver Park Range Upper Division Clerk Chowkidar	1 2 20 1 1 1 2 1 1
MP/N/KAN	Field Director Deputy Director Research Officer Education Warden Forester Ranger Deputy Ranger Forester Forest Guards Asst. Director Mahout	1 1 1 6 40 155 1 1

CODE	DESIGNATION	NUMBER
MP/N/KAN	Chara Cutter	13
40 <sup>11</sup>	Driver	7
	Shikari	2
MP/N/MAD	Director (Also Director of Karera Great Indian Bustard Sanctuary)	0.5
	Assistant Director	1
	Forest Ranger	ī
	Deputy Ranger	2
	Forester	1
	Forest Guard	31
MP/N/PAN	Director	1
	Assistant Director	ĩ
	Ranger	4
	Game Supervisor	10
	Game Guard	56
	Barrier Guard	9
MP/N/PEN	Director	1
	Range Officer	2
	Forester	6
	Game Guard	20
	Forest Guard	22
	Accountant	1
	Upper Division Clerk	- 1
	Lower Division Clerk	î
	Stenographer	1
	of ellographer	
MP/N/PEN	Orderly	1
	Chowkidar	1
	Driver	1
	Khansama	1
	Mell	2
	Draughtsman	1
MP/N/SAN	Director	1
	Assistant Conservator of Forests	2
	Ranger	10
	Deputy Ranger	7
	Forester	35
	Driver	3
	Accountant	2 1 8
	Upper Division Clerk	1
	Lower Division Clerk	8
	Steno	1
	Peons	4
	Mali	1

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CODE	DESIGNATION	NUMBER
MP/N/SAT	Director Forest Ranger Foresters Game Guards Accountant Mali Khansama Upper Division Clerk Lower Division Clerk Stenographer Peon Chowkidar	1 2 4 + 1 (CMB) 20 + 6.5 (CMB) 1 2 1 1 1 1 1 1
MP/N/VAN -	Director Forest Ranger Game Guards Steno Accountant Peon	0.5 (CMB) 1 (CMB) 2 (CMB) 0.5 (CMB) 0.5 (CMB) 0.5 (CMB)
ORI/N/SIM	Field Director Assistant Conservator of Forests Forest Ranger Forester Forest Guards Orderly Forest Guard Wireless Technician Gate Guards Driver	1 2 5 12 41 7 1 6 5
RAJ/N/DES	Deputy Director Assistant Conservator of Forests Range Forest Officer Foresters Assistant. Forester Forest Guard Accountant Stenographer Upper Division Clerk Helper Junior Accountant Drivers Class IV	0.5 (CMB) 1 4 9 1 38 1 1 4 1 5 5
RAJ/N/KEO	Deputy Chief Wildlife Warden Ranger Forester Forest Guard/Game Watcher Jr. Accountant	0.5 (CMB) 1 (CMB) 1.5 (CMB) 9 + 5.5 (CMB) (CMB)

CODE	DESIGNATION	NUMBER	
RAJ/N/KEO	Jr. Research Officer Receptionist	0.5	(CMB) (CMB)
RAJ/N/RAN	Field Director Assistant Field Director Research Officer Rangers Foresters Forest Guard Game Watcher	0.5 1 2 4 22 7	(CMB)
RAJ/N/SAR	Field Director Assistant Field Director Research Officer Forest Rangers Research Assistant Forester = Assistant Forester Forest Guard Trackers Wireless Operator Wireless Technician Accountant Upper Division Clerk Lower Division Clerk Steno Class IV Drivers Store Clerk Chowkidar	0.5 0.5 3 0.5 4 1.5 27 5 0.5 0.5 0.5 1.5 1.5 1.5 0.5	(CMB) (CMB)
RAJ/N/SAR	Field Director Zamadar Game Watcher Orderly Masalchi	1 0.5 11.5 0.5 0.5	(CMB) (CMB) (CMB) (CMB)
SIK/N/KHA	Wildlife Warden Assistant Wildlife Warden Wildlife Guard	2 3 12	
TN/N/GUI	Ranger Forester Forest Guard Forest Watcher	0.5 0.5 0.5 2	(CMB) (CMB) (CMB) ( <u>CMB</u> )
UP/N/COR	Field Director Deputy Director Research Officer Special Duty Officer	0.5 0.5 0.5 0.5	(CMB) (CMB) (CMB) (CMB)
16.			

CODE	DESIGNATION	NUMBER	
UP/N/COR	Wildlife Warden	0.5	(CMB)
	Forest Ranger	3	(CMB)
	Assistant Park Officer	0.5	(CMB)
	Deputy Ranger	1.5	(CMB)
	Assistant Wildlife Warden	1.5	(CMB)
	Foresters, Guides and Range Clerks	10	(CMB)
	Forest Guards and other guards	36.5	(CMB)
	Receptionist	0.5	(CMB)
	Road Jamadar	1	(CMB)
	Divisional Accountant	0.5	(CMB)
	Upper Division Clerk	1	(CMB)
	Lower Division Clerk	. 4	(CMB)
	Mechanic	0.5	(CMB)
	Steno	0.5	(CMB)
	Draftsman	0.5	(CMB)
	Wireless Technician	0.5	(CMB)
	Artist	0.5	(CMB)
	Store Keeper	0.5	(CMB)
	Mahout	4.5	(CMB)
	Chara Cutter	4.5	(CMB)
	Driver	3	(CMB)
	Orderly	4	(CMB)
	Chowkidar	4.5	(CMB)
	Mali	0.5	(CMB)
	Sweeper	5	(CMB)
	Dakwala	1	(CMB)
UP/N/DUD	Director	1	
	Assistant Conservator of Forests	1	
	Wildlife Warden	1	
	Range Officer	6	
	Deputy Ranger	6	
	Forester	17	
	Forest Guard	27	
	Mahout	6	
	Cultural Jamadar	6	
	Head Clerk	1	
	Senior Accountant	7	
	Draftsman	1	
	Stenographer	1	
	Range Clerk	5	
UP/N/NAN	Deputy Conservator of Forests	0.5	(CMB)
	Assistant Wildlife Warden	1.5	(CMB)
	Wildlife Guards	9	(CMB)
UP/N/VAL	Assistant Wildlife Warden	0.5	(CMB)
	Wildlife Guards	2	(CMB)
	999 CENTRAL CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF CONTROL OF C	278.2	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1

CODE	DESIGNATION	NUMBER	
WB/N/SUN	Field Director	0.5	(CMB)
	Assistant Field Director	0.5	(CMB)
	Forest Ranger	3	(CMB)
	Deputy Ranger Forester	6.5	(CMB)
	Head Forest Guard	1	(CMB)
	Forest Guard	16	(CMB)
	Field Assistant	1	(CMB)

Key

(CMB) = Combined operations

- Staff members of a national park may be engaged in wildlife work, ž forestry work, and combined operations. If a staff member is engaged in only forestry work, he is not deemed to make any contribution to protection and other related activities in the park. Analogously, a staff member engaged in wildlife work is deemed to contribute all his time for protection work. The staff member who is engaged in combined operations, is deemed to equally divide up his time between forestry and wildlife work. None of the parks, reported the existence of any staff members who were only engaged in forestry work. Some parks however did report the existence of staff for combined operations. In all such cases, half the number of people engaged in combined work in a park have been counted. Thus, if there are 5 forest guards engaged in combined work in a park, only 2.5 have been taken into account for protection work in the table. A distinction between administrative staff and field staff has however not been made.
- i The questionnaire for Marine National Park, Andaman and Nicobar (A&N) had details of personnel working for the A&N Wildlife Wing but not specifically in the park.
- ii The questionnaire for Great Himelayan National Park did not specify whether the personnel listed were engaged in wildlife, forestry or combined operations. It has therefore been assumed that they were engaged in wildlife work.

Table - 31.2 (Special Protection Staff)

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CODE	DESIGNATION	NUMBER
4&N/N/MAR		6
	Forest Guard	4
ARU/N/NAM	Assistant Conservator of	Forests 4
	Forest Ranger	8
	Foresters	15
	Forest Guard	7
	Game Watcher	4
GOA/N/BHA	Tracker/Watchmen	4
GUJ/N/GIR	Range Forest Officer	1
	Police Constable	2
	Beat Guards	66
UJ/N/MAR	Constable	2
JUJ/N/VEL	Range Forest Officer	1
	Forester	3
	Forest Guards	4
	Beat Guards	2
	Armed Police Constable	- 2
HP/N/PIN	Deputy Ranger	1
	Guard	1
J&K/N/DAC	Game Guards	5
	Army Personnel	35
	Border Security Force Personnel	7
J&K/N/KIS	Forest Guards	13
KAR/N/BAN	Assistant Conservator of	Forests 1
	Forester	8
	Guards	8
	Labourers on Daily Wages	150
CAR/N/BANN	Range Forest Officer	1
	Forester	10
	Forest Guard	10
	Game Watchers	8
R/N/NAG		2
	Anti Poaching Watcher	62
KER/N/PER	Ranger	1
	Forester	2
	Forest Guard	- 2

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CODE	DESIGNATION		NUMBER
KER/N/PER	Guards		4
	Driver	2022233200 (U	1
	Head Constable		2
	Police Constab	les	10
MAH/N/NAW			6
	Forest Guard		7
	Labourers (dai	ly wages)	5
MAH/N/SAN	Range Forest O	fficer	1
	Forester		1
	Guards		3
	Forest Guard		18
MAH/N/TAD			1
	Guards		7
MAN/N/KEI			1
	Forest Guard		2
	Boatman		3
MP/N/BAN	Deputy Ranger		1
	Game Guards	100100001-000	2
	Head Constable	(Police)	1
	Police Constab	le	3
	Guards		3
	Game Guards		10
	Labour		10
	Special Fire F	ighting Squad	10
MP/N/IND			36
	Checking Guard		6
MP/N/KAN	Forest Ranger		5
	Forester		18
8	Forest Guard		144
	Foresters	(During rains)	
	Forest Guards	(During rains)	45
MP/N/MAD			1
	Forest Guards		26
MP/N/PAN		s	10
	Daily Labour		10
	Beat Guards		42
MP/N/SAN	Deputy Ranger		24
	Forester		24
	Forest Guard		16

CODE	DESIGNATION	NUMBER
MP/N/VAN	Game Guard	2
	Chowkidar	2
ORI/N/SIM	Assistant Conservator of Fore	sts 6
	Forest Ranger	6
	Forest Guard	12
	Home Guard	30
	Armed Police	8
RAJ/N/DES	Assistant Conservator of Fore	sts 1
	Forester	10
	Forest Guard	35
RAJ/N/KEO	Forest Guard	10
IVW/N/N/NDO	Game Watcher	11
TA T /31 /13433	Preste OPPI	0
RAJ/N/RAN	Range Officer Forest Guards	8
1	rorest Guards	0
RAJ/N/SAR	Forest Ranger	1
	Forester	14
	Forest Guard	65
	Ranger	5
	Game Watcher	23
	Tracker	10
SIK/N/KHA	Assistant Wildlife Officer	1
	Wildlife Warden	2
	Assistant Wildlife Warden	3
	Wildlife Guards	12
	Chowkidar	2
UP/N/COR	Forest Guards	17
UP/N/DUD	Wildlife Warden	1
	Range Officer	6
	Forest Guard	27
	Wildlife Guards	40
	Police Guard	4
UP/N/VAL	Wildlife Guards	3
WB/N/SUN	Forester/Forest Guard	6

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CODE	DESIGNATION	HEEF	MINE OF TRAINING
A&B/N/MAR	Deputy Conservator of Forests	2	Diplott in Wildlife Hamagement
	Assistant Conservator of Porests	1	Dipiona in Crocodile and Sanctuary Management
	Forest Bangers	2	Certificate in Wildlife Management
ARO/E/MAK	Assistant Conservator of Forests	2	Wildlife Hanagezent Diploze Course and Crossfile Breeding
GOR/R/BRA	Range Forest Officer	1	Diplozs in Wildlife Hanagezont
GUJ/N/BAX	Range Forest Officer	1	Pores: Certificate Wildlife Course
GUJ/N/GIR	Deputy Conservator of Porests	1	Diplons in Wildlife
	Range Forest Officer	3	Crocodile Breeding and Sanctuary Kanagement
	Foresters	3	Vildinfe Kanagement
	Guards	13	Wildlife Management
	601105	15	wighter versionersuc
GUJ/#/HAP	Range Forest Officer	1	Wildinfe
GOJ/N/VEL	Assistant Conservator of Porests	1	Wildlife Certificate Course
	Range Forest Officer	1	Wildlife Certificate Course
HP/K/GRE	Forest Ranger	1	Diplozz in Wildlife Management
ar lat our	Porest Ranger	1	Certificate Course Wildlife
HP/N/PIK	Divisional Forest Officer (Wildlife)	: 1	Movancel Diploma in Wildlife
JAX/N/DAC	Game Guards	2	Captive Breeding of Pheasants
VAD /U /WAC	Range Porest Officer	1	Wildlife Training
nnat at ano	Assistant Conservator of		Tiger Census Training
	Forests		
	Range Forest Officer	2	figer Census Training
KER/N/ERA	Wildlife Assistant	1	Wildlife Training
KER/H/PER	Pannore	2	Wildlife Management
PENNICEE	Wildlife Assistant	3	Wildlife Management
	ATTAILLE ADDIDUGHL	2	arrarre wanaAcabur
KAR/N/SAR	Divisional Manager	1	Diploma in Wildlife Management
1111101030	Divisional Porest Officer		Biplom: in Wildlife Management
nm/8/160	Assistant Conservator of		Biploss in Grocodile Breeding Kanagement
	Porests		
	Range Forest Officer	1	Diplocs in Crocodile Breeding Wanagement

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ODE	DESIGNATION N	UNBER	HATCHE OF TRAINING
船用港	Director	1	Advance Wildlife Hanagement Course
	Assistant Director	1	Advance Wildlife Management Course
	Guard	8	Wildlife Training
KP/TK/IND	Forest Guard	3	Wildlife Training
HP/N/EAK	Deputy Director	1	Porestry and Wildlife Training
	Forest Guard	10	Wildlife Training
KP/N/KAD	Director	1	Wildlife Hanagement
	Assistant Director	1	
	Forest Guards	16	
KP/R/PAR	Director	1	Diplocs in Wildlife Hanagesent
	Forest Ranger	1	
	Forest Guard	4	
KP/E/PEX	Director	1	Diploms in Wildlife
and the base of	Forest Guard	10	Wildlife Training
HP/E/SAK	Porester	1	Wildlife Kanagement
the List serve	Forest Guard	10	Wildlife Management
	Game Guard	15	
K2/R/SAT	Game Guards	1	Wildlife Management
KB\N/AYR	Forest Banger	2	Crocodile Breeding and Sanctuary Management
ORI/N/SIK	Assistant Director	1	Wildlife Kanagement
	Assistant Director	1	Tranquilisation and Radio Telemetry
	Assistant Director	1	
_AJ/N/DES	Foresters	10	Porestry and Wildlife
	Forest Guards	3	Forestry and Wildlife
AT\/K/KEO	Junior Research Officer	1	Certificate Course in Forestry, Diploma in Wildlife_Kasageneet
AJ/8/BAR	Field Director	1	Diploma in Wildlife Hanagement
AJ/N/SAR	Field Director	1	Wildlife Kanagement Course & Forestry Kanagement
M.5074007.0	Forester	8	
	Game Watcher	2	
SIK/K/KER	Assistant Wildlife Offic	er 1	Vildlife Management
P/H/COR	Field Director	1	Management of National Park
	Research Officer	1	Trangilising Wild Animals

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CODE DESIGNATION		KOHBEE	NATURE OF TRAINING			
QP/K/D00	Director	1	Ksc. in Wildlife Kanagement			
	Assistant Conservator o Forests	if 1	Rhino Hanagenent			
	Range Officer	1	Rhino Hanagement			
	Wildlife Guards	2	Ehino Management			
UP/R/NAN	Assistant Wildlife Ward and Wildlife Guards	ien 20	Tracking and Catching Poschers			

## Table - 31.4 (List of Equiprent Available)

COBE	NUMBER OF Fired Wireless Sets	NUMBER OF PORTABLE VIDELESS SETS	KUHBER OF GUNS AND RIFLES AVAILABLE	NUMBER OF BINOCULARS AVAILABLE	ELECTROKIC TRACEING EQUIPHENT	NUMBER OF DART GUIS AVAILABLE		OUT-BOAT BEGINES	KYTOR BOAT	5 16ez. Projector
AAN/K/HOO	1									
GUJ/K/GIR	5	2	54	16						
GUJ/E/HAR				3						
GOJ/N/VEL			3	8						
JEX/H/DAC			8	5						
KAR/R/BAR	18	8	15	16		1	1			
KEE/N/PEE	7	11	21	3		1	1	1		
HER/B/NAK						4		1	1	1
HAH/N/PEX						4		• 1	1	1
KAL/N/TAD						3				
HAN/N/KEI			1	8						
HP/H/BAX	2	8	4	2				1	1	
NP/N/IND				2				2	41	
KP/K/HAD	2	4	3	1						

CODE	NUMBER OF PIXED WIRELESS SETS	NUMBER OF PORTABLE WIRELESS SETS	NUMBER OF GUNS AND RIFLES AVAILABLE	BINOCULARS AVAILABEE	ELECTRONIC TRACKING DQUIPHENT	RUMBER OF DART GUNS AVAILABLE	and the second second	OUT-BOAT ENGINES	NOTOR	BOATS	16EN PROJECTOR
82/1/PAN			1	2				1			
RAJ/R/DES	10		22	14							
RAJ/N/KEO	1	6	3	13							
RAJ/N/RAH	8	2	16	7		2	1	2			
SIK/N/KHA				2				3	1		
TB/N/GUI			3	2							
UP/8/COR	4	7		4			1				
0P/8/000	11	2	41	2	2	1		1			
WB/K/SUK	5	8	66	8		2					

#### Visitors Facilities

Most parks are visited by several people, both tourists as well as nontourists. Many parks therefore, try and provide several kinds of facilities for these visitors. Of the 52 parks listed in tables 32.1 and 32.2:-

 24 parks (see table 32.1 column 2) reported the availability of a map of the park for visitors.

20 park (see table 32.1 column 3) reported the availability of a booklet on the park.

 24 parks (see table 32.1 columns 4 and 5) reported the availability of wildlife slides and/or films.

Of these 24 parks, 19 (see table 32.2 column 7) reported that slide/film shows were held for visitors. These were Marine (A&N), Gir (GUJ), Marine (GUJ), Bandipur (KAR), Bannerghatta (KAR), Nagarhole (KAR), Periyar (KER), Sanjay Gandhi (MAH) Siroy (MAN), Bandhavgarh (MP), Indravati (MP), Kanha (MP), Simlipal (ORI), Keoladeo Ghana (RAJ), Sariska (RAJ), Guindy (TN), Corbett (UP), and Dudhwa (UP). In addition, Dachigam (J&K) also reported special slide/film shows during the wildlife week.

4. 28 parks (see table 32.1 column 6) reported the availability of books for reference.

5. 12 parks (see table 32.1 column 7) reported the existence of an exhibition on flora and fauna.

6. 14 parks (see table 32.1 columns 8 and 9) reported the existence of a Museum of species and/or a Zoo.

7. 24 parks (see table 32.2 columns 2 and 3) reported the Existence of Hides and/or availability of binoculars for viewing wildlife.

8. 22 parks (see table 32.2 columns 4 and 5) reported th availability of checklists of Birds and/or Animals.

9. 16 parks (see table 32.2 column 6) reported the availability ( vehicles for tourists.

## Table - 32.1 (VISITE'S PACILITIES - I)

CODE	NAP OF PARK FOR VISITORS	BOOKLET ON PARK POR VISITORS	WILDLIFE SLIDES		BOOKS FOR Reference	EXEIBITION ON FLORA AND/OR FAUNA	SPECIES	SAFARI/200 IN THE PARK
MS/K/HAR	ĭ	Y	X	T	ĩ	E	I	ž
ALX/R/NED	F	1	R	8	K	R	X	ä
AAB/N/HOU	B		R	R	R	N	8	N
A&H/N/HOR	N	8	H	H	N	R	H	H
AAN/N/SAD	B	N S	N	R	8	X	¥	R
AAN/N/SOU	N	8	R	8	Х	X	R	X
ARU/N/NAX	FOR REFERENCE	"RAMDAPER RATIONAL PARK", PREE.	Ŧ	Ŧ	Y	Y	¥	Y
GOX/N/BHX	POR REFERENCE	"BHAGWAN MAHAVIR SANCTUARY, MOLEN"	Ŧ	3	Ħ	N	R	E
GUJ/H/BAR	N	N	8	8	R.	8	R	R
GUJ/H/GIR	N	R	Ĩ	Ï	Ĩ	Y	R	X
GUJ/H/HAR	NOT FOR SALE	FREE	Ŷ	Î	T	Ŷ	T	8
GUJ/N/VEL	R	X	R	8	Y	R .	E	R.
HP/N/GRE	N	i	R	R	8	1	8	R
HP/X/PIX	ROUGH SKETCH	Ň	R	8	R	R	8	B
JAK/H/DAC	FOR REFERENCE	2000	H	X	Y	R	8	Ŧ
JAK/N/HEN	Y	R	N	R	H	¥	B	R
JAK/N/KIS	FOR REFERENCE	ä	N	B	N	H	N	H
KAR/N/BAN	FOR SALE	ON TOURISH	Ÿ	Ĩ	Ÿ	Ŷ	Ŷ	N
oraci ul sero		PACILITIES, FREE	•	•	•	•	•	
KAR/R/BANR	POR REPERENCE	LEAFLET ON PARK, FREE	3	Ī	¥	X	K	Y
KAR/K/KAG	N	"NAGARHOLE NATIONAL PARK" IN ENGLISH AND KANNADA, POR SALE AND REFERENCE	X	ĩ	ĩ	Y	I	H
IE2/H/ERA	FOR REFERENCE	B	R	x ·	ĩ	8	8	3
. KSR/K/PER	Y	"PERIYAR TIGER RESERVE", AND "PORESTS OF KERALA". BOTH FREE		Y	Y	ĭ		
KER/N/SIL	R	X	R	X	N	N .	H	H
HAH/N/NAM	х	E	Ŧ		ĩ	N	Y	Ĩ
HAH/N/PER	Ŧ	*PERCH RATIONAL PARK* BY NAGPUE FOREST DIVISION, PEBRUARY 1972, PREE	8	1	3	X	N	8
HAE/H/SAR	1	'LION SAFARI PARK' AND 'WAYIONAL PARK BORIVALI': PREE	r	Ÿ	I	Ĭ	8	Ĩ
nni/k/trd	1	'TADORA MATIONAL PARK': Rs. 0.50, INCLUMES MAP	8	R	Ĩ	8	۱	
HAN/E/KEI	Y	B	R	N	N	R	H	N
HAR/R/SIR	Y	8	Y	Y	Y	X	N	X

CODE	HAP OF PARK FOR VISITORS	BOOKLET ON PARK FOR VISITORS	WILDLIPE SLIDES	WILDLIFE PILKS	BOOKS FOR REPERENCE	EXHIBITION ON FLORA AND/ON PAUNA	SPECIES	SAFARI/EOO IN THE PARK
KE/N/BAN	N	NOTE ON BANDHAVGARH WATIONAL PARK, FREE	B	Ŧ	Y	H	3	X
HE/N/FOS	R	N	H	X	N	X	N	N
NP/N/IND	Ť	Ϋ́ κ	N	Y		8	N	Y
HP/B/KAN	FOR REFERENCE	KANHA TIGER	Ÿ	Y	Y	Ŷ	Y	R
as fel nos	EVE ESTIMATION	RESERVE <sup>1</sup> & "KANHA NATIONAL PARK <sup>1</sup> : (HINDI & ENGLISH):	•	•	•	•	•	
HP/H/KANG	FOR REFERENCE	PREE N		9 S				
	FUR EAFLEZOUS	CONTRACTOR OF CONTRACTOR OF CONTRACTOR	H T	N Y	R Y	H T	N	N H
HP/X/HAD		'HADBAY NATIONAL PARK': (HINDI): FREE	1			1	8	
肥润泡瓶	R	8	B	N	F.	Ħ	N	8
HP/R/PER	R	£	N	K	R	N	R	8
HP/N/SAN	н	R	N	3	H	R	R	8
HP/K/SAT	B	K	R	B	R	K	1	N
HP/N/VAN	SPECIAL DISTRIBUTION	H	8	H	H	B	¥	N
ORI/N/SIH	T	N.	Y	Y	Y	8	K	N
RAJ/H/DES	R	F	K	R	Ĩ	R	R	x
RAJ/N/KEO	SKETCRED HAP FOR SALE	POLDER, AND A BIED CHECKLIST FOR SALE	Y	ï	ĩ	Y	R	1
RAJ/K/RAN	X	N	Y	N	Y	H	N.	N
RAJ/N/SAR	FOR SALE	TIGER RESERVE	Ŷ	Y	Ŷ	R	N	B
ecost of secon	a was written	SARISKA' FOR SALE	<u>.</u>	с.	· ·			
SIK/N/KHA	TOPOSHEETS FOR REFERENCE	'KHANSCHENDIONGA RATIONAL PARK': FREE	Ŧ	R	¥	1	R	Y
TH/H/GUI	H	R	Y	T	T	R	B	Ŧ
UP/N/COR	Ï	"CORRETT HATICHAL PARK"	R	Î	Ŷ	Ŷ	ř	X
ue/x/dud	X	Y 'DODHWA HP' (ERGLISH & HINDI): PREE	1	Ŧ	Y	Y	ł	ĭ
UP/R/MAN	T	B	R	R	H	H	B	X
UP/H/VAL	1 -	8	K	R	i i	N	R	B
WB/R/SUR		'SUBBERRANS, THE FORESTS BY THE SEA': FREE	Ŷ	Ť	072	B	ÿ	i

## Table - 32.2 (VISITOR'S FACILITIES - II)

0008	HIDES FOR VIEWING WILDLIPE	BINOCULARS POR USE BY THE VISITORS			VEHICLES FOR DSE OF THE VISITORS	SLIDE/FILM SHOWS FOR VISITORS	WHY NOT	NUMBER OF Slids/fil Shows
A&N/H/HAR	R	7			N	Y		10
ABR/R/HED	N	I	¥	1	ł	¥	(ISLAND, NEGLIGIELE TOURISM)	
ran/n/kou	R	N	R	1	R	R	NO SUCH PACILITIES	
AAN/N/HOR	<b>B</b>	8	8	B.	×	R		
AAN/N/SAD	8	1	1	R	N	N	PARK NOT OPEN FOR TOURISTS	
AAN/R/SOU	8	8	8	N	F	R		
ARU/N/NAH	Ŷ	a.	Y	T	Y	Y (OCCASIONAL)		20
goa/k/eka	x	¥	R	8	R	3	PARK NOT YET OPEN TO VISITORS	
GUJ/N/BAN	N	I	8	R	1	R	VERY FRN VISITCES: PARK IN DEVELOPMENTAL STAGE	
outbuiets	X		Y	Y	ON RENT	Y	atrios	
GUJ/H/GIR GUJ/N/HAR	N	I I	Ŷ	Ŷ	BOATS, HETADOR, STATION WAGON	Ŷ		30
GUJ/E/VEL	N	Y	R .	B	K	N	NO EQUIPMENT	
HP/X/GRE	1	1	5	В	8	X	PARK NEWLY ESTABLISHED: HO WORK DONE OF SLIDES OR FILMS PREPARATION	
HE/N/PIN	ĸ	1	X	R	1	n	NO PUNDS AND RA PLAN	)
Jak/N/Dac	Y	8	T	Y	N	Ť	FACILITIES NOT AVAILABLE: BUT SHOWN DURING WIEDLIFE WEEK	5
JAX/N/HEN	N	X	R	8	3	H	PARK BECKNTLY ESTABLISHED	
J&K/H/KIS	X.	F			X	R ·	NO EQUIPMENT	
KAR/R/EAS	T	B	Ī	Y	VAN AND MINIBUS	Y		350
KAR/R/BANN	8	R	Y	Y	Y	Y		25
KAR/N/HAG	N	¥		Y	Y	Y		30
KER/N/BRA	H	8	R	R.	B	N	NOT SUPPLIED	
KER/N/PER	ON RENT	T	I	ĭ	ON RENT	Y		100
KER/H/SLL	- X	1	X	R	3	N	NOT TET BQUIPPED	
NAR/K/HAN	ĭ	Y	Ĩ	Y	R	E		
MAR/R/2EE	R	Ŷ	R	B	N	X	EQUIPHENT AND HACRINEEY NOT AVAILABLE	

Table - 32.2 (...cantd)

CODE	BIDES POR VIEWING WILDLIFE	BINOCULARS FOR USE BY THE VISITORS	CHECKLIST ON BIRDS FOR THE VISITORS		VEHICLES FOR USE OF THE VISITORS	SLIDE/FILM SHOWS FOR VISITORS	'IN NOT THEN WEY NOT	NUMBER OF SLIDE/FIL SHOWS
HAE/N/SAN	ă	1	ĩ	R	4 BUSES FOR LION	Ÿ.		325
	121	2			SAFARI			
HAR/N/TAD	R	B	Y	Y	OHE COACH: FOR	8	NO PACILITIES	
NAR/R/KEI	T	Ŧ	N	.H	Rs. 10 PER ka DUGOUTS	X	PROJECTORS AND SLIDES NOT AVAILABLE	
MAR/N/SIR	X	ł	Ж	H	N	Y	MALTERAD	100
@/N/BAN	N	N	R	8	ON RENT	Ŷ		20
HP/H/FOS	K	R	E	R	N ADAL	8		24
E/N/DD	й Т	Y	Ň	R	N	r Y		25
HE/K/KAN	'n	y .	Ŷ	Y	A JEEPS, MINIBUSES, ELEPRANTS	Y		25 90
HP/K/KANG	5	X	R	R	N	8	NOT PREPARED	
HP/N/HAD	PREE	Ĩ	Ŷ	Ŷ	NIEIBUS Rs 5 PER km TZEXXER BS 2 PER km		NON-AVAILABILIS OF SHOW-HALL	ï
HP/N/PAN	R	N	N	¥	R.	R	NO FACILITIES: VERY FEW VISITORS TILL NOW	
@/N/2E8	N	3	3	8	R	X	NEW PARK: BO ROUIDWENT YET	
HP/H/SAR	K	¥.	T	Y	B	R.	NOT AVAILABLE	
P/E/SKT	E	1	8	Ŷ	8	E .	NO TOURIST	
				•			PACILITIES IN PARK	
HP/X/VAR	R	ł	в	н.	8	X	SLIDES/FILMS NOT AVAILABLE	
CRI/R/SIN	¥ -	ľ	R	N	N .	Y	1997-1997 - 10 C 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	2-
RAJ/H/DES	Ŧ	ĩ	¥ .	8	N	Ň	SLIDES HOT AVAILABLE	
eaj/n/keo	¥	H	Y	H	H	¥		180
RAJ/N/RAR	N	1	ī	ĩ	8	N	NO PACILITIES	11111 K21111
RAJ/H/SAR	OK RENT	Ť .	-	Y	ES 30 PER HEAD	Y		5
SIK/R/KHA	Y	1	Y	¥	8	I	NO TOURISH	
TH/R/GUI	Y	τ	Y	Y	B	T	Post in the second part of	12
P/R/COR	Y	I	Y	Y	Y	I I I		250
000/8/900	FEE	8	Y	A	OF REST	ĩ		11
IP/H/NAN	1	X	H	H	B	H	NO ARRANGEMENT FOR THIS	-
OG/#/AVP	1	X	1	N	R	H	NO EQUIPHENT OR STAFF	
WB/B/SUN	Ŧ	8	1	H	B	F	NO TOURISTS ALLOWED	

## Veterinarian

There may be situations when the park authorities require the services of a veterinarian. In some cases therefore, the park authorities may have a veterinarian attached, or may engage the services of one who is conveniently located.

Of the 52 national parks listed in table - 33, only 9 Namdapha (ARU), Gir (GUJ), Dachigam (J&K), Bandipur (KAR), Bannerghatta (KAR), Nagarhole (KAR), Periyar (KER), Sanjay Gandhi (MAH), and Kanha (MP), reported that they had a veterinarian attached.

Marine (GUJ) reported that the question was irrelevant.

Of the rest, the nearest veterinarian was located at a distance of less than or equal to 20 km from the park in case of 16, Bhagwan Mahavir (GOA), Velavadar (GUJ), Great Himalayan (HP), Hemis (J&K), Pench (MAH), Keibul Lamjao (MAN), Siroy (MAN), Madhav (MP), Panna (MP), Pench (MAH), Van Vihar (MP), Simlipal (ORI), Keoladco Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), and Guindy (TN).

The nearest veterinarian was located at a distance of greater than 20 km but less than or equal to 40 km from the park in case of 12, Marine (A&N), Middle Button (A&N), Mount Harriet (A&N), North Button (A&N), South Button (A&N), Eravikulam (KER), Silent Valley (KER), Nawegaon (MAH), Kanger Ghati (MP), Khangchendzonga (SIK), Nanda Devi (UP), and Valley of Flowers (UP).

The nearest veterinarian was located at a distance greater than 40 km, but less than or equal to 60 km from the park in case of 6, Kishtwar (J&K), Tadoba (MAH), Indravati (MP), Sanjay (MP), Desert (RAJ), and Corbett (UP).

The nearest veterinarian was located at a distance greater than 60 km from the park, in case of Saddle Peak (A&N), and Sunderban (WB).

4 parks did not provide information regarding distance of the nearest veterinarian located, from the park. These were, Bansda (GUJ), Pin Valley (HP), Bandhavgarh (MP), and Dudhwa (UP).

#### Table - 33 (VETERINARIAN)

CODE		NEAREST VETERINARIAN IF NONE ATTACHED	DISTANCE OF THE NEAREST VETERINARIAN FROM THE PARK (IN km)	
	2227		32225	

N		PORT BLAIR (HADDO)	28
N		RANGET	30
N		HUMFRYGUNJ	26
N		RANGET	30
·N		PORT BLAIR	200
N		RANGET	30
Y			
N		MOLEM	1
	N N N N Y	N N N N Y	N RANGET N HUMFRYGUNJ N RANGET N PORT BLAIR N RANGET Y

CODE		NEAREST VETERINARIAN IF NONE ATTACHED	DISTANCE OF THE NEAREST VETERINARIAN FROM THE PARK (IN km)
GUJ/N/BAN	N		
GUJ/N/GIR	Y		
GUJ/N/MAR	1		
GUJ/N/VEL	N	VELAVADAR	1
HP/N/GRE	N	GUSHENI	15
HP/N/PIN	N		
J&K/N/DAC	У	SHEEP FARM ON PERIPHERY OF PARK	
J&K/N/HEM	N	LEH	15
J&K/N/KIS	N	KISHTWAR -	60
KAR/N/BAN	Y		
KAR/N/BANN	Y		
*			
KAR/N/NAG	Y	MYSORE	98
KER/N/ERA	N	MUNNAR	28
*			
KER/N/PER	У	VANDIPERIYAR	20
KER/N/SIL	N	AGALI	40
MAH/N/NAW	N	MORGAON/ARJUNI	30
MAH/N/PEN	N	DEOLAPUR	15
MAH/N/SAN	Y		55555
MAH/N/TAD	N	CHANDRAPUR	45
MAN/N/KEI	N	KEIBUL VILLAGE	5
MAN/N/SIR	N -	UKHRUL.	15
MP/N/BAN MP/N/FOS	N	TALA	
MP/N/IND *	N	BIJAPUR	60
MP/N/KAN	Y	BAIHAR	20
MP/N/KANG	N	JAGDALPUR	30
MP/N/MAD	N	SHIVPURI	6
MP/N/PAN	N	PANNA	20
MP/N/PEN	N	KHAWASA KURAI	15
MP/N/SAN	N	SIDHI	60
MP/N/SAT	N	PIPARIA	55
MP/N/VAN	N	BHOPAL	7
ORI/N/SIM	N	BARIPADA	17
RAJ/N/DES	N	JAISALMER	45
RAJ/N/KEO	N	BHARATPUR	3
RAJ/N/RAN	N	BEHRAONDA	2.5
RAJ/N/SAR	N	THANAGAZI	8
SIK/N/KHA	N	MANGAM	38
TN/N/GUI	N	SAIDAPET(MADRAS)	3
UP/N/COR	N	RAMNAGAR	50
UP/N/DUD	N	PALIA	
UP/N/NAN	N	JOSHIMATH	23
UP/N/VAL	N	JOSHIMATH	35
WB/N/SUN	N	BASANTI	66

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In these cases the veterinarian attached may not have been directly

## Education and Interpretation

The creation of a park often leads to a conflict of the objectives of conservation with local needs for the resources of the park. Educational and interpretational activities can help in lessening this conflict as well as spread awareness among other groups like tourists/visitors etc. on issues relating to conservation. Of the 52 national parks listed in tables - 34.1, 34.2, and 34.3.

#### Village Education

1. 14 parks (see table 34.1) reported the existence of educational programmes. These were, Mount Harriet (A&N), Namdapha (ARU), Marine (GUJ), Dachigam (J&K), Hemis (J&K), Kishtwar (J&K), Bandipur (KAR), Nagarhole (KAR), Siroy (MAN), Simlipal (ORI), Sariska (RAJ), Khangchendzonga (SIK), Corbett (UP), and Dudhwa (UP).

Of the above listed, 3 parks, Mount Harriet (A&N), Dachigam (J&K), and Hemis (J&K) reported that educational activities were undertaken only during the wildlife week. Bandipur (KAR) reported an education program for visiting students etc. None of the 4 parks mentioned above had an education programme for visitors.

Of the rest of the parks (10) which had an education program for villagers, Dudhwa (UP) reported the maximum number of villages covered per month and the total number of villages covered which was 37. Marine (GUJ) reported the maximum number of visits to each village per month which was 4-5 visits.

The 11 parks which did not report the existence of an education or interpretation program but had some plans for the future were Marine (A&N), Bhagwan Mahavir (GOA), Velavadar (GUJ), Bannerghatta (KAR), Sanjay Gandhi (MAH), Tadoba (MAH), Indravati (MP), Kanger Ghati (MP), Kanha (MP), Sanjay (MP) and Sunderban (WB).

### Visitor's Centre

2. 10 parks (see table 34.2) reported the existence of a visitor's centre. These were, Gir (GUJ), Bahdipur (KAR), Bannerghatta (KAR), Nagarhole (KAR), Periyar (KER), Sanjay Gandhi (MAH), Siroy (MAN), Kanha (MP), Keoladeo Ghana (RAJ), and Dudhwa (UP).

3. Trained guides were reported from 11 parks which were, Marine (GUJ), Dachigam (J&K), Kishtwar (J&K), Periyar (KER), Bandhavgarh (MP), Simlipal (ORI), Keoladeo Ghana (RAJ), Sariska (RAJ), Corbett (UP), Dudhwa (UP), and Sunderban (WB).

4. Extension officers were not reported from any of the parks listed in table 34.2

Other Educational Activities

5. 10 parks (see table 34.3) reported that educational work other than village education was being undertaken. These were, Namdapha (ARU), Marine (GUJ), Bannerghatta (KAR), Nagarhole (KAR), Periyar (KER), Sanjay Gandhi (MAH), Kanha (MP), Sanjay (MP), Keoladeo Ghana (RAJ), and Khangchendzonga (SIK).

6. 28 parks (see table 34.3) reported that they were visited by students and/or researchers.

## Table - 34.1 (VILLAGE EDUCATION PROGRAM:

CODE	PROGRAMMES TO EDUCATE VILLAGEES	NATURE OF PROSEANNES	NUMBER OF VILLAGES VISITED PER MONTH	VILLAGES COVERED	NUMBER OF VISITS TO EACH VILLAGE EVERY NONTH	and a second second second	PEEDBACK OF THE VILLAGERS EDUCATION PROGRAMME	PUTURE PLANS IP ANY
AAR/R/MAR	3							EDUCATION CENTRE
A4K/8/HID	1							
AAN/K/HOU	ĩ	RADIO BROADCASTS AND CELEBRATION OF ML WEEK						
AAN/N/HOR	I							
AAN/N/SAD	N							N
AAN/H/SOU	1							
ARU/E/NAM GOA/E/REA	Ŷ	FILM SBOKS, PARK TOURS, HERTINGS, VISITS TO OTHER PARKS		8	1	ACF, POREST RANGER, DPO	AWARENESS OF VL PROTECTION AND VL ACT	
GUJ/H/BAH	NAR.							HATURE CLUES: AUDIO-VISUAL PUBLICITY
GUJ/N/GIR	R		2	52%	17.021	0.025-1 1433/025	an is a star and the star of t	X
GUJ/N/HAB	¥	VISIT TO PARK, SLIDE SHOWS, LECTURES	1	20	1-5	CF, EANGE FOREST OFFICERS	VERY SUCCESSFUL IN CREATING AWARENESS	NATURE EDUCATION CAMPS: PILM/SLIDE SHOWS:
GUJ/X/VEL	N							HATURE EDUCATION CAMPS
HP/N/GRE	B							
HP/#/PIN	8							
JAK/N/DAC	Ĩ	PILH/SLIDE SHOWS DURING WE WEEK						
JAK/H/HEH	Ÿ	DURING CELEBRATION OF ERVIRONMENT/WL WEEKS						NATURE INTERPRETATION CENTRE WITE EXHIBITS ON VL
J&X/K/KIS	¥ -	LECTURES, DISTRIBUTION OF PAHPHLETS AND POSTERS, MASS CONTACT PROGRAMMES	1		2	PORESTERS, CHLN, REGIONAL WLW, RANGE - FORMST OFFICER	ENCOURAGING	EDUCATION ON VILLAGE CLEANLINESS AND ANTHAL PROTECTION
842/8/BAB	T	SCHOOL YEACHERS AND CHILDERN WILL BE BROUGHT IN PARX AND GIVEN LECTURES ON WL PEOTECTION				UNDER ORGANISATION	YET 70 BE ASSESSED	NATURE CAMPS

Table -	32.1	(contó)
*****		furingered.

'CODE	PROGRAMMES TO EDUCATE VILLAGERS	HATURE OF PROGRAMMES	NUMBER OF VILLAGES VISITED PER HOWTH	VILLAGES COVERED	NUMBER OF VISITS TO EACH VILLAGE EVERY MONTH		PEEDBACK ON THE VILLAGERS EDUCATION PROGRAMME	PUTURE PLANS IP ANY
KAR/H/BARH	K							NATURE CAMPS
KAR/N/RAG	Y	FILM SROWS	4-5	30	1	1 RFO AND 2 FOREST GUARDS IN JEEP	VILLAGERS ARE INFORMED ABOUT IMPORTANCE OF WL	N
KER/H/BRA	H						All Children of Bu	X
XER/N/PER	A							R
KBR/N/SIL	N							
HAH/H/RAN	R							
HAR/N/PEN	B							
-4AH/K/SAK HAB/K/TAD	N							INTERPRETATIVE SERVICE
HAB/A/TAU	N							NUSEUN CUN INFORMATION CENTRE
-HAH/N/KEI	N							INCORPORTION CONTROL
HAN/N/STR	Ÿ	NATURE EDUCATION AND INTERPRETATION PROGRAMME	1	8	1	UNIVERSITY PROFESSORS, RESEARCHERS, STUDENTS	VERY POSITIVE	CENTINUATION OF SAME
Æ/H/BAR	H					0100mm10		
HP/N/FOS	R							
-42/11/110	R.							ENVIRONMENTAL EDUCATION CENTHE
SP/N/KAR	B							PARK VISITS BY VILLAGERS: FILM/SLIDE SHOWS:
								CAMPS
_HP/N/KANG	¥.							SLIDE/FILM SECHS ON WL
TP/R/HAD	R							
-HP/H/PAN	R							H
HP/N/PEN	N H							mailter
'IP/N/SAN	n.							FILM/SLIDE
HP/H/SAT-	K							SHOWS, TALKS
HP/N/VAR	ĥ							
'ri/N/Sih	Y	SLIDE SHOWS: HESTINGS ON IMPORTANCE OF WI. AND ILL-EFFECTS OF FIRE, HURTING, & TREE-CUTTING	1	8	1			
RAJ/K/DES	N	a sung official						
naj/n/keo	a a				1			N

CAJ/R/MO R ZAJ/R/BAR - P

c		programmes TO EDUCATE VILLAGERS	NATURE OF PROGRAMMES	FURBER OF VILLAGES VISITED PER NOWTH	VILLAGES COVERED	HUMBER OF VISITS TO EACH VILLASE EVERY MONTH	DETAILS OF PERSONNEL INVOLVED IN REDUCATION	FEEDBACK ON THE VILLBGERS EDUCATION PROGRAMME	FUTURE PLANS IF ANY
3		Ĩ	WL WEEK AND PILM SNOW WEEK	1	6		FIELD DIRECTOR AND RANGE OFFICERS	HELEFUL IN GETTING VILLAGERS' COOPERATION	REGULAR FILM SHONS 4 TALKS IN ADJACENT VILLAGE INSTITUTION
5	SIK/X/KBA	Y	VL PILM SHOWS	2	5	2	ASSISTANT HE OFFICER, WEN, ANEH, GUARDS	HIBINISED HUNTING ACTIVITY	
	(R/H/GUL IP/N/COR	Ĩ	CHLY DURING FIRE SEASON AND VE VEEX	6	15	1	OPPICIALS	ALERTRESS ABOUT PIRE AND WL PROTECTION	HANY
8	R/K/000	Y	MEETINGS WITH TRIBAL HEADS TO DISCUSS THEIR PROBLEMS AND SEEK THEIR COOPERATION	37	37	1	DIRECTOR, ÁCP, HLN, 3 REO		WL FILMS
1	IP/N/NAM	R	AAAF BIRTE FAM.					90 - C	N
	IP/W/WAL	R							8
	KB/N/SUN	Ň	(HO VILLAGE EVER OF PERIPHERT)				FIELD DIRECTOR, ASSISTANT FIELD DIRECTOR, AND RESEARCH ASSISTANT	NINTHISATION OF HOSTILITY	FILM SHOW IN VILLAGES SLIDE SHOWS AT INTERPRETATION CENTRE

## Table - 34.2 (VISITOR'S CENTRE)

CODE	VISITOR EDUCATION CENTRE	DEIAILS OF FACILITIES PROVIDED IN VISITOR CENTRE	TRAINED GUIDES IF ANY	EXTENSION OFFICERS IF ANY
A&N/N/MAR	N		++	++
A&N/N/MID	N		++	++
A&N/N/MOU	N		++	++
A&N/N/NOR	N		++	++
A&N/N/SAD	N		++	++
A&N/N/SOU	N		++	++
ARU/N/NAM	N		++	++
GOA/N/BHA	N		0	0
GUJ/N/BAN				
GUJ/N/GIR	У	INFORMATION ABOUT AND ORIENTATION TO PARK	++	++
GUJ/N/MAR	N	1 Thui	2	++
GUJ/N/VEL	N		++	++
HP/N/GRE	N	*5		
HP/N/PIN	N		++	++
J&K/N/DAC	N		6	++
J&K/N/HEM	N		++	
J&K/N/KIS	N		10	++
KAR/N/BAN	Y	CHARTS ON	0	0
11 av 17 20 21		NATURE CONSERVATION: LIERARY ON WL: TROPHIES, SKELI BONES OF ANIMAI	ETONS,	Ϋ́.
KAR/N/BANN	Y	MAP OF PARK, BROCHURE, GREETING CARDS OF WL, LITERATURE ON THE PARK, GUIDES AND ASSISTANCE	0	0
KAR/N/NAG	¥	LIERARY, FILM SHOWS	0	0
KER/N/ERA	N		0	
KER/N/PER	Ÿ	WILDLIFE INFORMATION: BOAT AND TREEKING ARRANGEMENTS	3	0
KER/N/SIL	N	and the second	0	0
a many a ty second	С.		-	
	*a - 3	(4) 1		8 2

CODE	VISITOR EDUCATION CENTRE	DETAILS OF FACILITIES PROVIDED IN	TRAINED GUIDES IF ANY	EXTENSION OFFICERS IF ANY
		VISITOR CENTRE		20
			255	3753
MAH/N/NAW	N		++	++
MAH/N/PEN	N Y	OTTO ANOTO INC.	++	++
MAH/N/SAN	Y	GUIDANCE TO VISITORS: INFORMATION ON NATIONAL PAI	++ RK:	++
		FILM SHOWS ON WL ON SUNDAYS AND OTHER HOLIDAYS		
MAH/N/TAD	N		++	++
MAN/N/KEI	N		++	++
MAN/N/SIR	Y	FIELD GUIDES	++	++
MP/N/BAN	N		4	++
MP/N/FOS	N			
MP/N/IND	N		++	++
MP/N/KAN	Y	INFORMATION COUNTER, LIBRARY, AUDIO/VISUAL FACILITIES (UNDER CONSTRUCTION)	++	++
MP/N/KANG	N		++	++
MP/N/MAD	N		++	+-1
MP/N/PAN	N		++	++
MP/N/PEN				
MP/N/SAN	N		++	++
MP/N/SAT	N		++	++
MP/N/VAN	N		++	++
ORI/N/SIM	N		2	++
RAJ/N/DES	N	THE REPORT OF THE	++	++
RAJ/N/KEO	Ŷ	CHARTS AND PHOTOGRAPHS OF WILDLIFE IN DIFFERENT HABITATS AND SEASONS	12	++
RAJ/N/RAN	N		+	++
RAJ/N/SAR	N		Y	++
SIK/N/KHA	N		++	++
TN/N/GUI	N		00.	00
UP/N/COR			10	++

CODI		PETAILS OF FACILITIES PROVIDED IN VISITOR CENTRE	THAINED GUIDES IF ANY	EXTENSION OFFICERS IF ANY
UP/N/DUD	Y	PHOTOGRAPHS, DESCRIPTION OF IMPORTANT EVENTS, BOARDS, CANTEEN	2	**
UP/N/NAN	N		++	++
UP/N/VAL	N		++	++
WB/N/SUN	N		++ 2	++
VTV.				

KEY:

++ = Exact figures not known

## Table - 34.3 (OTHER EDUCATIONAL ACTIVITIES)

3002	PROBLEMS FACED IN UNDERTAKING EDECATIONAL AND EXTENSION WORK	OTHER EDUCATIONAL WORK UNDERTAKEN	PARK VISITED BY STUDENTS/ RESEARCHERS	VISITING THE PARK	RESEARCHERS WISITING THE PARK EVERY YEAR
AAH/N/HAR	1 .	8	Y		
AAN/N/HED	NEGLIGIELE TOURISH, NO SURBOUNDING VILLAGES, SO NO EDUCATIONAL PROGRAMMES	N	<u>R</u>		
A&N/R/HOU	CAR BE CONSIDERED ONLY AFTER TAXEOVER OF AREA BY WILDLIFE WING	1	R		
MAR/N/HOR	VISIYORS REGLICIBLE: NO SURROUNDING VILLASES SO NO PROBLEMS	1	Ε.		
A&N /N /SAD	X	ł	X		
kur/n/sou	REGLIGIBLE VISITORS AND NO SURECONDING VILLAGES, SO NO SUCE PROBLEMS	ł	H		
aru/8/mm	BOAD CONFECTION WITH VILLAGES DIFFICULT, AS IS PARE VISITATION DUE TO TOUGH TERRATH				
GOA/R/ERA	to the beam	8	Y	1250	100
GUJ/H/EAK			Ŷ	220	
GUJ/R/GIR		1	ĩ	2500	4
guj/n/nar	ADDITICKAL STAFP POR ADDITICKAL EDUCATICKAL PROGRAMMES NEEDED	THTEEPERTATION CENTEE	I	1450	30
GUJ/N/VEL	R	3	ĩ	500	5
HP/N/GER			3		
HP/N/PIN	NO HANAGENENT PLAN	N	Y		
Jak/B/DAC			Ĩ	439	30
JAX/R/HEM			1		
J&K/H/KIS	LACK OF TRAINED DEDICATED WORKERS		I		
KAR/N/BAR				0	0
KAR/H/BANR	SHORTAGE OF TRAINED GUIDES: INVOLVEMENT OF WILDLIFE CLUBS ALSO DESIRABLE	RATURE CAMPS FOR SCHOOL CHILINER	Ĩ	13000	190
KAB/N/NAG	LIMITED STAFF, EEST HOUSES AND CONVEYANCE PACILITIES HAMPER ACTIVITIES: NEED TO INCREASE ALL THERE	NATURE CAMPS FOR CHILDREN	Ĩ	450	0

CODE	PROBLEMS FACED IN UNDERTAKING EDUCATIONAL AND EXTENSION WORK	OTHER EDUCATIONAL WORK UNDERTAKEN	PARX VISITED BY STUDERTS? RESEARCHERS	VISITING THE PARK	RESEARCHERS VISITING THE PARK EVERT YEAR
KER/N/EBA	NO ACCOMMODATION AND PACILITIES	1	R	0	0
KER/N/PER	1	LECTURES OF ML OR REQUEST	Y	10000	500
KER/N/SIL	VERY RECENTLY DECLARED: NO PACILITIES YET		g	0	0
MAE/IN/NAW	N	K	N		
MAH/N/PEH	ĥ	8	Ŷ	2000	
HAR/W/SAN	TO RECRUIT MORE STAFF FOR THESE PROGRAMES	HIKING, BIRDWATCHING, HOUNTAINEERING	Ŷ	100000	100
KAH/K/TAD	LACK OF FACILITIES, ORIENTED STAFF, AND LOW PRIORITY	N	Y		
MAR/N/KET		N	Y	300	10
HAN/H/SIR	LAW AND ORDER PROBLEMS	8	Y	2000	100
HP/N/BAN	H	R	Y	500	25
HP/N/FOS		-	8		
HP/N/IND	NO ELECTRICITY INSIDE: LOCAL LANGUAGE OF TRIBALS DIFFICULT	R	N		
HE /R/KAR	1	EXHIBITION, AND COMPETITIONS FOR STUDENTS IN WILD- LIFE WEEK	Ŧ	500	8
HE/N/TAKG	NO PACILITIES FOR EDUCATIONAL PROGRAMMES: NEED VERICLES, PROJECTOR, YIINS, SLIDES, BOOKS	1	×		
HP/N/WAD	NON-AVAILABILITY OF TRAINED GUIDES AND SHOW-HALL	I	Ŷ		
H2/11/233	NO PUNDS OR TRAINED STAFF FOR THIS: ALL YIME GOES IN PROJECTION WORK: EDUCATION NOW VERY INFORTANT	Ŧ	K		
HP/H/PRH	H	8	N		
WP/N/SAR	INSUPPICIENT OR TOTAL LACK OF EQUIPHENT, TRAINED STAFF, EDUCATIONAL MATERIAL,	INTERPRETATION WORK LIKE BOARDS, NATURE TRAILS	R		
	VEHICLES, AND FURDS				

CODE	PROBLEMS FACED IN	OTHER EDUCATIONAL	PARK VISITED	C	RESEARCHERS
	ONDERTAXING EDUCATIONAL AND EXTENSION WORK	NORK UNDERTAKER	BT STUDENTS/ RESEARCHERS	THE PARK	VISITING THE PARK EVERY YEAR
EP/N/SET	3	R	Y	250	5
AP/N/VAR	H	H	Y	10000	
CRI/K/SIN	50 GOVT VEHICLES POE HIRE BY TOURISTS: LACK OF TRAINED STAFF POR EDUCATION: HEED FOR STAFF TO KNOW TRIBAL LANGUAGE	x	Y	1500	5
RAJ/N/DES	N	H	8		
raj/n/kro	COLOURED BOOKLET OR PARK UNAVAILABLE: PROJECTOR OPERATOR POST UNSANCTIONED: NO AUDITORIUM	WL WEEK ACTIVITIES LIKE SCHOOL COMPETITIONS, TRIPS	Ĩ	5500	50
EAJ/II/EAN	LACK OF FUNDS AND PERSONNEL	X	8		
raj/r/sar	FILMS AND BOOKLETS IN HINDI HEEDED FOR VILLAGERS: ALSO SPECIAL STAFF FOR EDUCATIONAL ACTIVITIES	¥	Ĩ	2000	13
SIK/N/KHA	STAFP INADEQUATE: AREA INACCESSIBLE WITHOUT PROPER TRAFSPORT AND COMMUNICATION	WILDLIFE FILMS IN DISTRICT HEAD- QUARTERS REGIONAL CENTRES AND SCHOOLS	1		
R/N/GUI		1	Y	300	10
UP/N/COR	NEED EXTENSION OFFICER CAPABLE OF COMMUNICATION IN HINDI AND ENGLISH	H	Y		
פטט/א/פט	NOR-AVAILABILITY OP EXTENSION STAFF AND AUDIO-VISUAL AIDS: NEED EXTENSION WING WITH EQUIPMENT	I	Y	739	0
UP/N/NAN	I	H	X		
UP/R/VAL	ĸ	H	8		
WB/R/SUN		8	H		

#### NGO'S and Honorary Wildlife Wardens

Most parks of India are under pressure from human uses and activities. Managing these pressures is often the most difficult task for a park manager. The first and the most important thing for the park management is to be able to communicate with the local people and understand their problems. This is where the NGO's can perform the task of a mediator. The NGO's can also help in educational and interpretational activities of the park management. Despite the potentially important role of the NGO's in the management of the park, only nine parks reported their involvement. These were, Gir (GUJ), Marine (GUJ), Dachigam (J&K), Eravikulam (KER), Periyar (KER), Nawegaon (MAH), Kanha (MP), Keoladeo Ghana (RAJ), and Dudhwa (UP).

Local people can also be involved in the management of a park by appointing Honorary Wildlife Wardens. Of all the parks however, only Dudhwa (UP) reported the nomination of an Honorary Wildlife Warden.

Table - 35 (NGO's AND INDIVIDUALS ASSOCIATED)

CODE

NGO'S ASSOCIATED WITH PARKS

GUJ/N/GIR WWF-I, SAURASHTRA BRANCH, HELPS IN EDUCATION AND NATURE CAMPS FOR STUDENTS

GUJ/N/MAR WWF, GRAMJIVAN VIKAS, JAMNAGAR NATURE CONSERVATION

SOCIETY, AND NATURE & ADVENTURE CLUB, ALL IN JAMNAGAR

J&K/N/DAC NATURE CONSERVATION SOCIETY, SRINAGAR, AND NATURE CONSERVATION CLUB, SRINAGAR

KER/N/ERA HIGH RANGE GAME PRESERVATION ASSOCIATION WHICH HELPS IN PRESERVATION.

KER/N/PER PEERMADE WL PRESERVATION SOCIETY AND THERKADY WL SOCIETY.

MAH/N/NAW DR SALIM ALI SOCIETY, NAWEGAON BRANCH

MP/N/KAN WWF-I, PROVIDES EQUIPMENT UNDER PROJECT TIGER SCHEME

RAJ/N/KEO BHARATPUR NATURE CONSERVATION SOCIETY, AND KEOLADEO NATURAL HISTORY SOCIETY, HELP IN EDUCATION AND CENSUS, WHILE BNHS AND DR CRAIG DAVIS ARE HELPING IN RESEARCH

UP/N/DUD WWF-I, REPRESENTED BY Shri ARJAN SINGH, TIGER HAVEN, WHO IS ALSO THE HONORARY WILDLIFE WARDEN

#### PERCEPTIONS OF PARK DIRECTORS

Directors of 10 parks (see table 36.1) felt that the Wildlife Protection Act, 1972, was inadequate. There were varied reasons given for stating that the Wildlife Protection Act, 1972, was inadequate, and are listed in the table.

Directors of 11 parks (see table 36.2) felt that there were problems with the procedure for notifying a national park. Except for Dachigam (J&K), Sariska (RAJ), and Corbett (UP) directors of all other parks felt that the procedures relating to acquisition and extinguishing of local rights were problematic.

Directors of 13 parks (see table 36.2) felt that protection activities were being hindered due to an inadequacy in the Wildlife Protection Act, 1972. All the complaints referred to inadequate prosecuting and punishing powers of the forest officials in relation to the offenders, or of taking them to court.

Directors of 11 parks (see table 36.3) felt that protection activities were being hindered due to the inadequacy of rules and procedures.

Directors of 28 parks (see table 36.3) recommended changes in 'the law and procedures for the successful prosecution of offences.

Directors of 35 parks see (table - 36.4) responding felt that there were offences occurring in the park which were undetected by the authorities. The reasons given ranged from the shortage of staff to the inaccessibility and ruggedness of terrain. In some cases, lack of equipment and procedural inadequacies were also cited. In most cases, it was the habitat related minor offences which were said to be undetected.

Directors of 20 parks (see table - 36.4) reported that in some cases even after an offence had been detected, the offender was not prosecuted. The reasons given included insufficient evidence and a lack of witnesses. Also, unfamiliarity of the staff with procedures of the court was cited in some cases.

Directors of 25 parks (see table - 36.5) felt that they did not have sufficient powers and/or facilities for effective management of the park. The reasons given included lack of staff and inadequate equipment, as well as a lack of power for dealing with offenders etc.

Directors of 33 parks (see table - 36.6) felt that he budget was inadequate.

Directors of 45 (see table - 36.7) parks felt that the equipment available was inadequate.

Directors of 38 parks (see table - 36.8) felt that they did not have adequate staff. Of the above, 11 Directors from Marine (A&N), Middle Button (A&N), Bandipur (KAR), Bannerghatta (KAR), Nagarhole (KAR), Eravikulam (KER), Keoladeo Ghana (RAJ), Ranthambhore (RAJ), Sariska (RAJ), Nanda Devi (UP) and Valley of Flowers (UP) felt that the calibre of their staff was adequate. 6 Directors felt that their staff was adequate both in number and in calibre. 2 Directors from Saddle Peak (A&N), and Fossil (MP), thought that the question was irrelevant, while the director of Pench (MAH) did not answer the question regarding the calibre of staff. The Rest of the Directors (32) did not think that the calibre of staff was adequate.

Directors of 11 parks (see table - 36.9) felt that enough interdepartmental co-operation and help was not forthcoming.

Directors of 19 parks (see table - 36.10) felt that the people in and around their parks were a threat to the park. The proposals to minimise the threat from local people included eco-development measures, relocation, extinguishing of rights, fencing etc.

Directors of 8 parks (see table - 36.11) perceived tourism to be a threat to their park.

Only 8 Directors (see table - 36.12) felt that the level and quantum of research being undertaken was adequate.

Directors of 15 parks (see table - 36.13) felt that the boundaries of their parks needed to be altered. The Director of Kanha (NP) felt that some of the area of habitation on the periphery should be deleted, while the Director of Bhagwan Mahavir (GOA), proposed both inclusion and deletion of certain areas. All the others proposed expansion of the park boundary.

Directors of 11 parks (see table - 36.14) gave suggestions regarding the notification of certain other area into parks and sanctuaries.

Directors of 9 parks (see table - 36.15) reported that they did not welcome a wildlife posting. The reasons given included a lack of interested and training as well as the fact that wildlife postings are often not accompanied with the kind of facilities which are available in a forestry posting. 5 Directors did not respond to the question while the rest (38) reported that they welcomed a wildlife posting. An overwhelming majority of these stated that they were interested in wildlife, or nature conservation.

#### Table - 36.1 (SHORTFALLS IN THE WLPA)

CCDE DETAILS OF SHORTFALLS IN THE WILDLIFE (PROTECTION) ACT

- GOA/N/BHA MORE STRINGENT PENALTY NEEDED FOR OFFENDERS. CASES REFERRED TO COURTS SHOULD BE EXPEDITED
- HP/N/GRE
- HP/N/PIN CONTROL OF NATIONAL PARKS/SANCTUARIES SHOULD BE HANDED OVER TO WILDLIFE WING SIMULTANEOUSLY ON DECLARATION, FOR WHICH AN APPROPRIATE CLAUSE SHOULD BE ADDED TO THE WLPA
- J&K/N/DAC CONFLICT WITH LOCAL AND NOMADIC GRAZIERS SINCE THERE ARE INSUFFICIENT PROVISIONS FOR ALTERNATIVES FOR THEM
- KAR/N/BAN PUNISHMENT FOR ELEPHANT POACHING BE MORE SEVERE: SUSPECTED POACHERS TO PROVE INNOCENCE
- MAN/N/SIR WILDLIFE OFFICERS SHOULD BE VESTED WITH MAGISTERIAL POWERS
- MP/N/PAN PROCESS FOR NATIONAL PARK LENGTHY AND PROBLEMATIC DUE TO NON-STATUS OF PARK TILL FINAL NOTIFICATION. PROCESS OF DECLARING NATIONAL PARK SHOULD BE LIKE SANCTUARY
- MP/N/SAN SEC 35 NEEDS AMENDMENT TO MAKE ALL RULES OF NATIONAL PARK APPLICABLE EVEN IN CASE OF AREA FOR WHICH ONLY DECLARATION OF INTENTION EXISTS
- RAJ/N/SAR WLPA TO BE TRANSLATED IN HINDI AND ABSTRACT OF THIS DISTRIBUTED IN EDUCATIONAL INSTITUTIONS AND PANCHAYAT HEAD QUARTERS.

UP/N/COR

	Table - 36.2 (PR	OCEDURAL PROBLEMS)	8
CODE	DETAILS OF PROCEDURAL PROBLEMS REGARDING THE SETTING UP OF A PARK		OTHER LEGAL/ PROCEDURAL PROBLEMS
ARU/N/NAM		WLPA HAS NO PROVISION FOR DETERRENT PUNISHMENT FOR HABITAT DESTRUCTION IN SANCTUARIES, THOUGH IT DOES FOR NATIONAL PARKS, THIS SHOULD BE	
GUJ/N/GIR		INCLUDED. FOREST OFFICERS SHOULD BE EMPOWERED TO COMPOUND CASES RELATING TO SCHEDULE I/II ANIMALS. SEPERATE COURT FOR FOREST AND WILDLIFE CASES. FINES AND PUNISHMENT TO BE	
GUJ/N/MAR		ENHANCED. IN MOST WILDLIFE OFFENCES IT IS DIFFICULT TO GET WITNESSES SO VERY FEW CASES SUCCEED IN COURTS.	CLOSE LINK WITH CUSTOMS, COAST GUARD, FISHERIES, AND PORT DEPARTMENTS NEEDED
HP/N/GRE		RFO TO HAVE CHALLAN AND PROSECUTION POWERS. SEC 54, DFO WL TO HAVE POWER TO COMPOUND. SEC 55 DFO'S COMPLAINT TO BE COGNIZABLE AS CMLW'S DEFINITION OF MAGISTRATE (SEC 50/53) AND BAILABLE/NONBAILABLE OFFENCE UNCLEAR	NEEDED
HP/N/PIN	SENIOR FOREST OFFICER BE DECLARED COLLECTOR FOR RIGHTS ACQUISITION PROCESS: ALL LOCAL RIGHTS BE SUSPENDED AFTER DECLARATION UNTIL/UNLESS RIGHTS SETTLED THEREIN: PROVISIONS FOR BOTH THESE BE IN WLPA	RFO BE EMPOWERED TO COMPOUND CASES UNDER	Ν

Table - 36.2 (...contd)

CODE DETAILS OF PROCEDURAL DETAILS OF INADEQUACY OTHER LEGAL/ PROBLEMS REGARDING THE OF THE WLPA FOR THE PROCEDURAL SEITING UP OF A PARK PROPER PROTECTION PROBLEMS OF THE PARK

J&K/N/DAC	PROCEDURE IS CUMBERSOME, NEEDS TO BE SIMPLIFIED: CASES FAIL DUE TO LACK OF EVIDENCE: MAGISTERIAL POWERS SHOULD BE GRANTED		
J&K/N/KIS KAR/N/BAN	Y	N PUNISHMENT FOR ELEPHANT POACHING BE MORE SEVERE	N OFFENCES SHOULD BE NON-BAILABLE
KER/N/PER		EXISTING PUNISHMENTS NOT ENOUGH. OFFENCES RELATED TO SCHEDULE I ANIMALS SHOULD BE NON-BAILABLE. MINIMUM PUNISHMENT TO SHOULD BE INCREASED.	
MAN/N/SIR	FINAL NOTIFICATION OF PARK NEEDS ACTION OF COLLECTOR: COLLECTOR SHOULD BE APPOINTED FROM WL STAFF	POACHERS HAVE TO BE TAKEN TO COURT FOR PROSECUTION AND THERE WILDLIFE STAFF POWERS END. WILDLIFE STAFF SHOULD BE VESTED WITH POWERS OF PROSECUTION OF OFFENCE.	LAW AND ORDER
MP/N/BAN	N	N	EANDHAVGARH FORT, FRIVATE PROPERTY OF EX-RULER OF REWA IS IN MIDDLE OF PARK, SHOULD BE ACQUIRED.
MP/N/IND	SETTLEMENT PROCESS UNDER SEC 35 TO 38 TAKES TOO LONG: IN MOST CASES IT IS DELAYED BY CONCERNED AUTHORITIES	N	N N
MP/N/KAN	SEC 19 TO 26 ARE DELAYED BY COLLECTOR	N	N

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Table - 36.2 (...contd)

CODE	DETAILS OF PROCEDURAL PROBLEMS REGARDING THE SETTING UP OF A PARK	DETAILS OF INADEQUACY OF THE WLPA FOR THE PROPER PROTECTION OF THE PARK	OTHER LEGAL/ PROCEDURAL PROBLEMS
MP/N/PAN	COLLECTOR TAKES TOO LONG TO ACQUIRE RIGHTS: MANDATORY PERIOD SHOULD BE SET FOR HIS INQUIRY COMPLETION OR ELSE STATE GOVT SHOULD APPOINT SUITABLE OFFICERS FOR THIS	WLPA SHOULD AUTHORIZE WL STAFF TO CREATE DEFT CATTLE POUNDS AS PANCHAYAT POUNDS NOT EFFECTIVE. FINES FOR ILLEGAL GRAZING BE SET BY CWLW. WLPA SHOULD INCLUDE PROVISION FOR WL STAFF TO CONFISCATE VEHICLES, TOOLS OF OFFENDER	
MP/N/SAN	SEC 35 NEEDS AMENDMENT.	N	N
ORI/N/SIM	N	NEED TO MAKE OFFENCE NON-BAILABLE SINCE OFFENDER OTHERWISE GETS CHANCE TO COMMIT OFFENCES REPEATEDLY	N
raj/n/keo	12	FOREST/WL OFFICERS TO HAVE POWERS TO CONDUCT ENQUIRY ON OFFENCE. EVIDENCE OF SUCH OFFICERS FOR IDENTIFICATION TO BE ACCEPTED BY COURT. FISHES BE INCLUDED IN DEFINITION OF WILDLIFE.	
RAJ/N/RAN	N	PUNISHMENTS NOT DETERRENT ENOUGH.	
RAJ/N/SAR	ENTIRE PROCEEDINGS UNDER WLPA TO BE IN SIMPLE LOCAL LANGUAGE SO THAT VILLAGERS CAN FOLLOW THEM		FINAL NOTIFICATION OF NP QUICKLY: RELOCATION OF VILLAGES FROM CORE HELD UP DUE TO FUNDS, LAND SHORTAGE, AND POLITICS.

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Table - 36.2 (...contd)

CODE DETAILS OF PROCEDURAL DETAILS OF INADEQUACY OTHER LEGAL/ PROBLEMS REGARDING THE OF THE WLPA FOR THE PROCEDURAL SETTING UP OF A PARK PROPER PROTECTION PROBLEMS OF THE PARK

UP/N/COR REGISTRATION OF ARMS MAGISTRATES VERY DIFFICULT THOUGH NOT NECESSARY, SO SHOULD CONVERSANT BE BINDING ON LICENCE WITH FOREST RENEWAL/ISSUING CONDITIONS AUTHORITY TO GET SO STICK TO CERTIFICATE FROM PARK IMPRACTICAL OFFICE: FOREST APPROACH, FOR OFFICIALS TO HAVE EXAMPLE ABOUT POWER TO REMAND EVIDENCE

Table - 36.3 (INADEQUACY OF RULES)

CODE	DETAILS OF INADEQUATE RULES AND PROCEDURES FOR PROPER	RECOMMENDED CHANGES IN LEGISLATION AND PROCEDURES
	PROTECTION OF PARK	FOR SUCCESSFUL PROSECUTION
		OF OFFENCES

GUJ/N/MAR VERY LITTLE PROVISION FOR PROTECTING AND MANAGING A MARINE NATIONAL PARK IN THE WLPA HP/N/GRE ALL FOREST OFFICERS TO BE WLW AND GAZETTED FOREST DECLARED. WLW TO DEAL WITH OFFICERS BE GIVEN SUMMARY OFFENCES : TRIAL POWERS FOR FOREST PERIOD FOR REGISTRATION OF OFFENCES: SCH I/II ANIMALS BE INCREASED EXECUTIVE STAFF BE GIVEN POLICE POWERS HP/N/PIN SPECIAL ANTI-POACHING SQUAD RFO BE EMPOWERED FOR BE EQUIPPED WITH VEHICLES & COGNIZANCE OF OFFENCES UNDER WEAPONS: SEC 55: SUB-SEC BE ADDED TO SEC 57 EACH WL STAFF MEMBER BE GIVING VALIDITY TO ARMED FOREST OFFICER BE GIVEN PRESUMPTION OF FOREST STAFF IN CASE OF NON-AVAILABILITY JUDICIARY POWERS UNDER SPECIAL CLAUSE OF WLPA OF WITNESS: WLPA IS MORE IDEALISTIC THAN PROVISIONS TO CATER TO LOCAL J&K/N/DAC

NEEDS SHOULD BE IN LEGISLATION:

MAGISTERIAL POWERS FOR

NEEDED

SUMMARY TRIAL OF OFFENCES

PRACTICAL: NEEDS TO BE FLEXIBLE TO SUIT LOCAL CONDITIONS: AMENDMENT NEEDED TO INCLUDE PROVISION OF LIMITED GRAZING IN A NATIONAL PARK OR OTHER LEGITIMATE LOCAL NEEDS 213

CODE	DETAILS OF INADEQUATE RULES. AND PROCEDURES FOR PROPER PROTECTION OF PARK	RECOMMENDED CHANGES IN LEGISLATION AND PROCEDURES FOR SUCCESSFUL PROSECUTION OF OFFENCES
KAR/N/BANN	PUNISHMENT FOR ELEPHANT POACHING SHOULD BE 5 YEARS: IMPRISONMENT AND OFFENCE SHOULD BE NON-BAILABLE	LEGAL ASSISTANCE FOR THE DEPT AT UNIT LEVEL FOR BOOKING OFFENCES AND PROCESSING CASES: PROMULGATION OF SHOOT AT SIGHT ORDERS FOR PREVENTION OF POACHING
MAN/N/SIR	WILDLIFE STAFF TO BE GIVEN MORE POWERS	CWLW BE CONFERRED POWERS OF A MAGISTRATE:
MP/N/IND	IN CASES, BURDEN OF PROOF LIES WITH PROSECUTOR, WHICH IS DIFFICULT SINCE EVIDENCE IS HARD TO GET IN INTERIOR AREAS	BURDEN OF PROOF OF BEING NONGUILTY SHOULD BE WITH THE ACCUSED IN WL OFFENCE CASES
MP/N/PAN	,	INSTEAD OF WLPA STOPPING USE OF OTHER ACTS FOR MATTERS COVERED BY IT, USE OF ANY RELEVANT ACT BE ALLOWED: DEPT PROSECUTERS NEEDED: POWER TO LEVY FINES SHOULD BE WITH WL STAFF: REVERSE CASE AGAINST STAFF BY OFFENDER NOT BE ACCEPTED WITHOUT PERMISSION OF WL DEPT HEAD
RAJ/N/RAN	COURT PROCEDURES TAKE TOO LONG: MOST OFFENDERS GET AWAY DUE TO LACK OF EVIDENCE: ALL OFFENCES ARE BAILABLE	SEPERATE FOREST COURT BE SET UP FOR WL OFFENCES: MORE POWERS BE ACCORDED TO WL MANAGERS: ARMED FORCES BE MADE AVAILABLE TO ENFORCE WLPA AGAINST VIOLENT OFFENDERS
RAJ/N/SAR	FIELD STAFF SHOULD HAVE WEAPONS TO COUNTER ARMED POACHERS	PATROLLING STAFF TO BE PROVIDED WITH GUNS AND CAMERAS: POLICE FACILITIES TO BE PROVIDED AT RANGE HQ TO DEAL WITH ARRESTED POACHERS: PARK SHOULD HAVE ITS OWN VETERINARIAN

Table - 36.3 (...contd)

	Table - 2012 (11100	nou)	
CODE	AND PROCEDURES FOR PROPER PROTECTION OF PARK	RECOMMENDED CHANGES IN LEGISLATION AND PROCEDURES FOR SUCCESSFUL PROSECUTION OF OFFENCES	
UP/N/COR			
Tabl	Le - 36.4 (DETECTION AND PROSECU	TION OF OFFENCES)	
CODE	ESTIMATED NUMBER OF UNDETECTED OFFENCES: NATURE OF AND REASONS FOR THE SAME	ESTIMATED DETECTED BUT NOT PROSECUTED OFFENCES; REASONS FOR THE SAME	
a&N/N/MAR	SOME DUE TO VASTNESS OF OPEN SEA AND LACK OF ADEQUATE WATER TRANSPORT FACILITIES: SPEEDY BOATS NEEDED	VERY FEW	
LANS INC. INCOME	BOATS NEEDED		
A&N/N/MID	2102	NO	
A&N/N/MOU	NO	NO	
A&N/N/NOR	ALL, SINCE ISLAND IS FAR OFF	VERY FEW	
A&N/N/SAD			
A&N/N/SOU	PARK ISOLATED AND FAR OFF, NO OFFENCES RECORDED SO FAR		
aru/n/nam	10-15: DUE TO HARD TERRAIN, COMMUNICATION PROBLEMS, STAFF SHORTAGE, NON-AVAILABILITY OF POLICE IMMEDIATELY: NEED WIRELESS, ATTACHED POLICE, MORE STAFF, ROADS	10-15: PETTY OFFENCES LIKE MFP COLLECTION, PASSAGE THROUGH PARK: NOT PROSECUTED DUE TO IGNORANCE OF PEOPLE: CASES COMPOUNDED	
GOA/N/BHA	NO	Sour Source	
GUJ/N/BAN	NEGILIGIBLE, AS THERE IS STRICT VIGILANCE BY STAFF		
GUJ/N/GIR			
GUJ/N/MAR	HARDLY ANY	Ν	
GUJ/N/VEL	30% INCIDENCES OF UNAUTHORISED GRAZING, DUE TO CLOSE PROXIMITY OF VILLAGES: MORE PROTECTION STAFF AND WEAPONS NEEDED		

Table - 36.4 (...contd)

CODE	ESTIMATED NUMBER OF UNDETECTED OFFENCES: NATURE OF AND REASONS FOR THE SAME	ESTIMATED DETECTED BUT NOT PROSECUTED OFFENCES: REASONS FOR THE SAME
HP/N/GRE HP/N/PIN	YES. SINCE STAFF INADEQUATE, LESS EQUIPPED THAN POACHERS: NON-COOPERATION FROM LOCAL PEOPLE	YES. CASES NOT ADMITTED BY COURTS DUE TO LACK OF WITNESSES: FOREST STAFF STATEMENT BE GIVEN VALIDITY
J&K/N/DAC	YES, DUE TO EXTENT OF AREA AND EASY ACCESS, AND LACK OF COMMUNICATION	
J&K/N/HEM		
J&K/N/KIS	10-20%: OFFENDER BETTER EQUIPPED TO SLIP AWAY THAN STAFF IS TO CATCH THEM	NO
KAR/N/BAN	MOST ELEPHANT POACHING CASES FOR IVORY REMAIN UNDETECTED	NO
KAR/N/BANN	20%: MOST OF ILLICIT COLLECTION OF FIREWOOD ON PERIPHERY	NO
KAR/N/NAG	NO	NO
KER/N/ERA	NO	NO
KER/N/PER	10%: DUE TO LACK OF PROPER ACCESS TO CERTAIN PLACES	NO
KER/N/SIL	2-3 POACHING CASES GO UNNOTICED, DUE TO LICENSING AND CONTROL OF ARMS NOT BEING TIGHT ENOUGH	NO
MAH/N/NAW	YES. BURUD COMMUNITY USES BAMBOO FROM PARK, FELLING ILLEGAL. GOVERNMENT DEPOT SUPPLIES INSUFFICIENT. CHECKING THEM IS DIFFICULT.	YES. ILLEGAL BAMBOO CUTTING DONE IN GROUPS, DIFFICULT FOR EXISTING STAFF TO CHECK AND PROSECUTE. MAGISTERIAL POWERS BE GIVEN FOR TRIAL OF CASES
MAH/N/PEN	YES. PARK BADLY DISTURBED BY CONSTRUCTION WORK	NO
MAH/N/SAN	15%: MOSTLY HEAD-LOADERS WHO RUN AWAY: CAN BE STOPPED IF ENCROACHMENTS AROUND PARK ARE REMOVED	90% CASES ARE COMPOUNDED AS THESE ARE NOT OF SERIOUS NATURE
MAH/N/TAD	VERY LARGE IN CASE OF OFFENCES RELATED TO WLPA: MOST HABITAT DESTRUCTION OFFENCES BOOKED UNDER FOREST ACT: MORE TRAINING ABOUT WLPA NEEDED	PREPARING AND BOOKING CASES PROPERLY, AND LACK OF ORIENTATION OF JUDGES TOWARDS ENVIRONMENTAL CONSERVATION
MAN/N/KEI	NO -	NO
MAN/N/STR	NO	NO

Table - 36.4 (...contd)

CODE	ESTIMATED NUMBER OF UNDETECTED OFFENCES: NATURE OF AND REASONS FOR THE SAME	ESTIMATED DETECTED BUT NOT PROSECUTED OFFENCES: REASONS FOR THE SAME
MP/N/BAN	YES. OFFENDERS IN FIRE CASES PARTICULARLY GO UNDETECTED: ONLY WAY TO REDUCE THIS IS TO REMOVE SURFOUNDING POPULATION	NO. NEED FOR SEPARATE PROSECUTION OFFICER AS RFOS NOT TRAINED IN THIS
MP/N/FOS		
MP/N/IND	40%: MOSTLY WILD LIFE KILLINGS BY LOCAL PEOPLE, NOT DETECTED DUE TO THE MEAGRE STAFF, AND DUE TO PEOPLE NOT COMING FORWARD TO INFORM ABOUT OFFENCES	NO
MP/N/KAN	MANY: 99% FIRES, 50% FISHING, 10% GRAZING, 60% FOREST PRODUCE REMOVAL: DUE TO LONG BORDER WITH VILLAGES: NEED VILLAGE DEVELOPMENT PROGRAMMES	5-10%: DUE TO LACK OF SUFFICIENT EVIDENCE IN REMOTE AREAS
MP/N/KANG	FEW. COULD BE FEWER WITH SUITABLE ARMS AND EQUIPMENT	YES. DUE TO LACK OF SPOT EVIDENCE: PROVISION OF ARMS AND COMMUNICATION EQUIPMENT CAN MINIMISE THIS
MP/N/MAD	10%: AS OFFENDERS RUN AWAY AND THERE IS NO PUBLIC SUPPORT	
MP/N/PAN	NO. DUE TO ENTRY BY VEHICLE BEING CONTROLLED AND THOSE ON FOOT CANNOT ESCAPE	NOST CASES COMPOUNDED AS COURTS ARE NOT SERIOUS ABOUT FOREST OFFENCES AND STAFF HAS LITTLE TIME FOR PROSECUTION
MP/N/PEN	20%: DUE TO LACK OF COMMUNICATION FACILITIES: WIRELESS EQUIPMENT NECESSARY	NO
MP/N/SAN		YES: WITNESSES RARE IN FOREST CASES, AND STAFF UNAWARE OF LEGAL INTRICACIES
MP/N/SAT	VERY FEW: THESE DUE TO STAFF NOT LIVING IN PARK SO FAR	NO
MP/N/VAN	SOME ON WATER BORDER, eg; ILLICIT FISHING, PROPOSAL TO CONSTRUCT BOUNDARY OF BOUYS BOTH TO STOP FISHING AND ESCAPE OF HERBIVORES	FISHING OFFENCES EASY TO PROSECUTE IF NECESSARY
ORI/N/SIM	10%: DUE TO INSUFFICIENT STAFF	20%: DUE TO LACK OF EYE WITNESSES AND PROPER EVIDENCE

CODE	ESTIMATED NUMBER OF UNDETECTED OFFENCES: NATURE OF AND REASONS FOR THE SAME	ESTIMATED DETECTED BUT NOT PROSECUTED OFFENCES: REASONS FOR THE SAME
RAJ/N/DES	NO	NO (STAFF NEEDS TRAINING IN MAKING VARIOUS DOCUMENTS FOR LODGING COMPLAINTS IN COURT)
RAJ/N/KEO	5%: DUE TO VILLAGES ADJACENT TO PARK: ADDITIONAL STAFF NEEDED FOR INTENSIVE PATROLLING	NO
RAJ/N/RAN	VERY FEW	250 TO 350 INCIDENTS: OFFENDERS NOT IDENTIFIED
RAJ/N/SAR	OVER 50% DUE TO PROBLEMS WHICH HAVE BEEN HIGHLIGHTED BEFORE	
SIK/N/KHA	NO	NO
TN/N/GUI	NO	NO
UP/N/COR	FEW: DUE TO VAST AREA, NON-COOPERATION OF PEOPLE AND LIMITED WATCH FACILITIES	NO
UP/N/DUD	SOME MINOR OFFENCES LIKE TRESPASSING, FIREWOOD COLLECTION	
UP/N/NAN	SOME BY ARMY PERSONNEL WHO LAND IN PARK WITH HELICOPTERS: NEED TO EDUCATE THEM	NO
UP/N/VAL	NO	NO
WB/N/SUN	OCCASIONAL DEER FOACHING CAN BE STOPPED BY CHECKING ARMS IN 10 KM RADIUS OF PARK: DISTRICT ADMINISTRATION NOT HELPFUL	SOME ARE COMPOUNDED

Table - 36.5 (POWERS NEEDED FOR EFFECTIVE MANAGEMENT)

CODE

A&N/N/MAR

A&N/N/MID YES

YES

ARE THE POWERS GIVEN IF NOT, THEN GIVE DETAILS OF TO A PARK DIRECTOR THE MAIN HANDICAPS WHICH YOU FACE SUFFICIENT FOR EFFECTIVE MANAGEMENT

A&N/N/MOU	YES	
A&N/N/NOR	YES	
A&N/N/SAD		
A&N/N/SOU		
ARU/N/NAM	NO	ROAD COMMUNICATION FROM MIAO TO VIJAYNAGAR ROAD NEEDS IMPROVEMENT TO REMOVE OBSTACLES TO MANAGEMENT
GOA/N/BHA	NO	
GUJ/N/BAN	YES	
GUJ/N/GIR	YES	
GUJ/N/MAR	NO	NEED ADEQUATE STAFF OF SUITABLE CATEGORIES AND REQUIRED SPECIAL EQUIPMENT AND GEAR
GUJ/N/VEL	YES	
HP/N/GRE	NO	
HP/N/PIN	NO	LACK OF STAFF AND TRAINING, EQUIPMENT, BUDGET, TRANSPORT: TOO MUCH OFFICE WORK RESULTING IN LESS TIME/INTEREST IN FIELD WORK
J&K/N/DAC	NO	(FACILITIES YES POWERS NO): OFFENCE CASES FAIL ON BASIS OF CIRCUMSTANTIAL EVIDENCE, OFFICIAL DEPOSITION NOT CONSIDERED: MAGISTERIAL POWERS NEEDED
J&K/N/HEM	YES	
J&K/N/KIS	NO	POLITICAL INTERFERENCE
KAR/N/BAN	YES	
KAR/N/BANN	NO	FINANCIAL FOWER SHOULD BE INCREASED
KAR/N/NAG	YES	
KER/N/ERA	YES	
KER/N/PER	NO	TOO MANY AGENCIES/DEPTS FUNCTIONING IN THE SANCTUARY INDEPENDENTLY. A SINGLE ADMINISTRATION NEEDED.
KER/N/SIL	YES	
MAH/N/NAW	NO	NEED SUFFICIENT STAFF: MAGISTERIAL POWERS: ADEQUATE VEHICLES: SPECIAL FORCE FOR PROTECTION: STAFF ACCOMMODATION
MAH/N/PEN	NO	
MAH/N/SAN	NO	MORE FINANCIAL AND ADMINISTRATIVE POWERS: MAGISTERIAL POWERS: ARMED CONSTABLES

CODE	ARE THE POWERS GIVEN TO A PARK DIRECTOR SUFFICIENT FOR EFFECTIVE MANAGEMENT	IF NOT, THEN GIVE DETAILS OF THE MAIN HANDICAPS WHICH YOU FACE
MAH/N/TAD	NO	PRIORITY GIVEN MORE TO TOURISM, GAME, AND PRODUCTIVITY ORIENTED WORKS RATHER THAN SCIENTIFIC AND WILD LIFE ORIENTED
MAN/N/KET	YES	
MAN/N/SIR	YES	
MP/N/BAN	YES	
MP/N/FOS	YES	
	- (mail: 1001)	
MP/N/IND	YES	
MP/N/KAN	YES	
MP/N/KANG		LACK OF ARMS, COMMUNICATION EQUIPMENT
MP/N/MAD	NO	
MP/N/PAN	YES	
MP/N/PEN	NO	LACK OF RESEARCH PERSONNEL, VEHICLES,
		WIRELESS AND OTHER EQUIPMENT
MP/N/SAN	NO	FINAL NOTIFICATION UNDER SECTION 35
		NOT YET-ISSUED: LACK OF VEHICLES, '
0.000.000.000 PROV		EQUIPMENT, TRAINED STAFF, FUNDS
MP/N/SAT	YES	
MP/N/VAN	YES	
ORI/N/SIM	NO	FIELD DIRECTOR IN CHARGE ONLY OF WILD LIFE OPERATIONS IN PARK, FOREST MANAGEMENT REMAINS IN CHARGE OF SIMLIPAL FOREST DEVELOPMENT CORPORATION
RAJ/N/DES	NO	FINANCIAL SANCTIONS NOT ACCORDED AS PER PLAN, PUTTING CONSTRAINT ON DEVELOPMENT OF PARK
RAJ/N/KEO	YES	Distance master of trade
RAJ/N/RAN	YES	
	NO	DIGEDICE MAGINE AND ALLAD
RAJ/N/SAR	NO	DISTRICT MAGISTRATE AND ALWAR DISTRICT COLLECTOR TO BE ASKED NOT TO ALLOW FURTHER ALLOTMENTS OF LAND AND REHABILITATION OF HUMANS IN REVENUE VILLAGES INSIDE PARK
SIK/N/KHA	NO	NO VEHICLE AND ADMINISTRATIVE STAFF: NO RECURRING FUND FOR MAINTENANCE: FIELD STAFF INADEQUATE: PROPOSALS ON THESE NOT HEEDED
TN/N/GUI	NO	MORE POWERS SHOULD BE GIVEN
UP/N/COR	NO	FINANCIAL PROBLEMS: POLITICAL AND PUBLIC PRESSURE
UP/N/DUD	YES	

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### Table - 36.5 (...contd)

CODE ARE THE POWERS GIVEN IF NOT, THEN GIVE DETAILS OF TO A PARK DIRECTOR THE MAIN HANDICAPS WHICH YOU FACE SUFFICIENT FOR EFFECTIVE MANAGEMENT

UP/N/NAN NO RESEARCH STAFF, EDUCATION, AND EXTENSION WORKERS NEEDED UP/N/VAL NO INADEQUATE RESEARCH STAFF, TRAINED GUIDES, RECEPTIONISTS WB/N/SUN NO OFFICERS ON DUTY SHOULD TAKE FREE PASS FROM DIRECTOR

Table - 36.6 (ADEQUACY OF BUDGET)

CODE	ADEQUATE	DETAILS	IF	BUDGET	NOT	ADEQUATE
	BUDGET ?					

A&N/N/MAR	NO	FUNDS FOR STAFF TO BE POSTED AND FOR EQUIPMENT TO THEM
A&N/N/MID	NO	FUNDS FOR STAFF TO BE POSTED AND FOR EQUIPMENT
A&N/N/MOU	NO	NO SEPARATE BUDGET YET
A&N/N/NOR	NO	STAFF NEEDS TO BE POSTED FOR BETTER PROTECTION: FUNDS NEEDED FOR THIS AND FOR EQUIPMENT TO STAFF
A&N/N/SAD	NO	NO BUDGET AT ALL
A&N/N/SOU	NO	FUNDS REQUIRED FOR STAFF TO BE POSTED AND FOR EQUIPMENT FOR IT
ARU/N/NAM	YES	
GOA/N/BHA		
GUJ/N/BAN	YES	
GUJ/N/GIR	YES	
GUJ/N/MAR	NO	WHEN MORE STAFF IS APPOINTED, MORE BUDGET FOR OCEANARIUM AND EQUIPMENT WILL BE NEEDED
GUJ/N/VEL	YES	
HP/N/GRE	NO	INADEQUATE BUDGET
HP/N/PIN	NO	NO BUDGET FOR SANCTUARY MANAGEMENT, ACCOMMODATION, OFFICE EXPENSES, AND TRAVEL ALLOWANCE
J&K/N/DAC	YES	
J&K/N/HEM	YES	
J&K/N/KIS	NO	NEW PARK: FUNDS NEEDED FOR DEVELOPMENTAL ACTIVITY LIKE INSPECTION PATHS, REST HOUSES
KAR/N/BAN	NO	MORE NEEDED TO MAKE SEASONAL GAME ROADS ALL-WEATHER ROADS, TO IMPROVE WATER RESOURCES, INCREASE FIRELINES
KAR/N/BANN	NO	BUDGET SUFFICIENT ONLY FOR MAINTENANCE. MORE NEEDED FOR EXPANSION AND OTHER CONSERVATION MEASURES.
R/N/NAG	YES	

		and a second second second
CODE	ADEQUATE BUDGET ?	DETAILS IF BUIGET NOT ADEQUATE
KER/N/ERA	NO	NO ALLOTMENT THIS YEAR FOR FIRE TRACING AND CLEARANCE WORK, BIKE PATH MAINTENANCE AND WATCHERS.
KER/N/PER	NO	FUNDS INADEQUATE FOR DEVELOPMENTAL WORKS AND FIRE PROTECTION WORKS
KER/N/SIL		
MAH/N/NAW	NO	FUNDS NEEDED FOR COMMUNICATION FACILITIES, VEHICLES, FIRE PROTECTION WORK
MAH/N/PEN	NO	
MAH/N/SAN	NO	LOT OF CURTAILMENTS IN BUDGET PROPOSALS SUBMITTED TO STATE GOVT: FOR EXPENDITURE OVER RS 1 LAKH, NEEDED SANCTION FROM BOARD OF DIRECTORS IS DELAYED
MAH/N/TAD	NO	MORE FOR RESEARCH, EQUIPMENT, AND DEVELOPMENT OF EDUCATION AND INTERPRETATION FACILITIES
MAN/N/KEI	NO	LACK OF FUNDS FOR SOCIAL AMENITIES: THUS HOSTILE ATTITUDE OF VILLAGERS
MAN/N/SIR		
MP/N/BAN	NO	SHORT OF ACCOMMODATION, LAB BUILDING, AND HEAVY VEHICLE FOR TRANSPORT
MP/N/FOS	NO	NO ALLOTMENT SO FAR
MP/N/IND	YES	
MP/N/KAN	YES	
MP/N/KANG	NO	NO ALLOTMENT FOR STAFF HOUSING: MORE BUDGET FOR
MP/N/MAD	YES	DEMARCATION, ROAD REPAIRS, FIRE-FIGHTING NEEDED
		NOON DEPART OF LOOTED IND ON LOTED. THEY
MP/N/PAN	NO	MOST BUDGET SPENT ON ASSETS AND SALARIES: LITTLE FOR NEW DEVELOPMENTAL ACTIVITIES: NEED FUNDS FOR FIRE-FIGHTING, ROAD MAINTENANCE, AND RELOCATION
MP/N/PEN	NO	PRESENT BUDGET ADEQUATE ONLY FOR SALARIES: NO FUNDS FOR DEVELOPMENTAL ACTIVITIES: CENTRAL ASSISTANCE OF 100% SHOULD BE GIVEN
MP/N/SAN	NO	INSUFFICIENT DUE TO STATE'S POOR FINANCIAL CONDITION, AND TO PARK BEING NEW
MP/N/SAT	NO	MORE FUNDS FOR STAFF ACCOMMODATION, EQUIPMENT, TOURIST COMPLEX, WATERHOLES
MP/N/VAN	NO	ADEQUATE FUNDS ARE MOST IMPORTANT NEED AT THIS DEVELOPMENTAL STAGE OF PARK
ORI/N/SIM	NO	LOW RELATIVE TO SIZE OF PARK
RAJ/N/DES	NO	FINANCIAL SANCTIONS NOT ACCORDING TO PLAN
RAJ/N/KEO	NO	NO FUNDS FOR CONTRACTUAL LABOUR FOR PLYING BOATS, BUILDING MAINTENANCE: INSUFFICIENT FUNDS FOR RUNNING FOREST REST HOUSE
RAJ/N/RAN	NO	BUDGET AMOUNT HAS REMAINED CONSTANT SINCE 1974, THOUGH VALUE OF RUPEE HAS DECLINED AND EXPENDITURES INCREASED

CODE ADEQUATE DETAILS IF BUDGET NOT ADEQUATE BUDGET ?

RAJ/N/SAR NO FUNDING FROM CENTRAL GOVT FROJECT TIGER SCHEME TO BE INCREASED FROM 50% TO 100%, AND ACCORDING TO MANAGEMENT PLAN SIK/N/KHA NO NO MAINTENANCE FUND: MORE FUNDS FOR STAFF NEEDED TN/N/GUI YES UP/N/COR UP/N/DUD YES UP/N/NAN YES UP/N/VAL YES WB/N/SUN

### Table - 36.7 (ADEQUACY OF EQUIPMENT)

CODE	ADEQUATE	DETAILS	IF	EQUIPMENT	NOT	ADEQUATE
	EQUIPMENT?					

A&N/N/MAR	NO	1 TELEMETRIC DEVICE FOR STUDYING ANIMAL MOVEMENT: 4 BINOCULARS FOR OBSERVATION AND DETECTION: 2 20-KNOT MOTOR BOATS: 6 GUNS: 3 PORTABLE WIRELESS SETS
A&N/N/MID	NO	TELEMETRY EQUIPMENT FOR STUDYING ANIMAL MOVEMENT: 2 BINOCULARS FOR DETECTION & OBSERVATION OF OFFENCES: 2 FAST MOTORBOATS: 1 FIXED & 2 PORTABLE WIRLESS SETS
A&N/N/MOU	NO	CAMERA: BINOCULARS
A&N/N/NOR	NO	1 TELEMETRY DEVICE TO STUDY ANIMAL MOVEMENT: 2 BINOCULARS FOR OBSERVATION & DETECTION OF OFFENCES: 2 FAST MOTOR BOATS: 1 FIXED & 2 PORTABLE WIRELESS SETS: GUNS
A&N/N/SAD	NO	
A&N/N/SOU	NO	1 TELEMETRIC DEVICE TO STUDY ANIMAL MOVEMENT: 2 BINOCULARS FOR OBSERVATION AND PROTECTION: 1 PORTABLE WIRELESS SET: 1 GUN
ARU/N/NAM	NO	MORE ELEPHANTS, TRANSPORT, GUNS, RESEARCH EQUIPMENT, LATEST MAPS
GOA/N/BHA		
GUJ/N/BAN	YES	
GUJ/N/GIR	YES	
GUJ/N/MAR	NO	DIVING GEAR, PROJECTORS, UNDERWATER MINI-SUBMARINE, UNDERWATER CAMERA, NETS AND GEAR, RESEARCH EQUIPMENT
GUJ/N/VEL	NO	ARMS FOR EFFECTIVE PROTECTION
HP/N/GRE	NO	NO FIELD EQUIPMENT PROVIDED FOR PROTECTION, COMMUNICATION, SAFETY, CAMPING, TREKKING, RESEARCH

CODE ADEQUATE DETAILS IF EQUIPMENT NOT ADEQUATE EQUIPMENT?

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HP/N/PIN	NO	
J&K/N/DAC	NO	WIRELESS OR WALKIE-TALKIE SETS: TENTS: BINOCULARS: TRACKING EQUIPMENT
J&K/N/HEM	YES	
J&K/N/KIS	NO	WIRELESS SETS, BINOCULARS, CAMERAS, RIFLES, ALPINE TENTS, CAMPING EQUIPMENT
KAR/N/BAN	NO	WIRELESS SETS FOR EFFECTIVE ANTI-POACHING MEASURES: MORE VEHICLES FOR PATROLLING
KAR/N/BANN	NO	WIRELESS SETS FOR EFFECTIVE COMMUNICATION: 2 JEEPS FOR EFFECTIVE PATROLLING: MORE FIREARMS FOR PROTECTION
KAR/N/NAG	NO	
KER/N/ERA	NO	5 RIFLES, 3 BINOCULARS, 1 JEEP, WIRELESS SET AND TELEPHONE.
KER/N/PER	NO	BATTERIES FOR INFRA RED VIEWER: TRANQUILISING MEDICINES: 2 JEEPS FOR 2 RANGERS TO IMPROVE PROTECTION
KER/N/SIL	NO	WIRELESS SETS AND A VEHICLE
MAH/N/NAW	NO	MICROSCOPE, TELESCOPE, SEARCH-LIGHTS
MAH/N/PEN		
MAH/N/SAN	NO	DART GUNS, VIDEO CAMERAS, NIGHT-VISION SCOPE, RIFLES, TELEPHOTO LENS, ROAD MAINTENANCE EQUIPMENT
MAH/N/TAD	NO	RESEARCH, FIRE-FIGHTING, AND INTERPRETATION EQUIPMENT
MAN/N/KEI	NO	WIRELESS SET: RIFLE AND GUNS FOR SELF-PROTECTION OF STAFF
AAN/N/SIR	NO	WIRELESS SETS AS TERRAIN IS RUGGED AND DETECTION OF MOBILE POACHERS DIFFICULT
MP/N/BAN	NO	HEAVY TRANSPORT VEHICLE: CAPTURE EQUIPMENTS; CAMERA: BINOCULARS
MP/N/FOS	YES	
MP/N/IND	NO	
MP/N/KAN	YES	
MP/N/KANG	NO	TELEPHONE, WIRELESS SETS, BINOCULARS, CAMERA OR VCR, PROJECTOR, TRANQUILISER GUN, ARMS, SEARCHLIGHTS, TAPE RECORDER
MP/N/MAD	NO	RESEARCH EQUIPMENT
MP/N/PAN	NO	BINOCULARS: GUNS: VEHICLES FOR PATROLLING AND TOURISTS: TRANQUILISING EQUIPMENT: ELEPHANTS FOR TIGER SHOW: WIRELESS EQUIPMENT: WATER TANKERS FOR FIRE-FIGHTING
MP/N/PEN	NO	WIRELESS: TRANQUILISING EQUIPMENT: RADIO-COLLAR: BINOCULARS: SPOTTING SCOPE AND SCANNER

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# Table - 36.7 (...contd)

1025		idole odii (iiiodila)
CODE	ADEQUATE EQUIPMENT?	DETAILS IF EQUIPMENT NOT ADEQUATE
MP/N/SAN	NO	15 RIFLES/GUN: 18 BINOCULARS: 2 ELECTRONIC TRACKING EQUIPMENT: 2 DART GUNS: 3 INFRARED VIEWERS: 2 CAMERAS: 3 FIREFIGHTING SETS: 2 TAPERECORDERS: 2 AERIAL PHOTO STEREOSCOPES
MP/N/SAT	NO	WIRELESS SET FOR FIRE PROTECTION AND QUICK COMMUNICATION: PICK-UP FOR FIRE FIGHTING & HILLY TRANSPORT: 2 JEEPS FOR TOURISTS: CAGES FOR CAPTURED ANIMALS
MP/N/VAN	NO	ELECTRIC PUMPS & MOTOR FOR WATER SUPPLY: WIRELESS SETS: TELEPHONE CONNECTION: BINOCULARS: TRANQUILISING & IMMOBILISING EQUIPMENT FOR MOVING & TREATING WILDLIFE
ORI/N/SIM	NO	4 MORE JEEPS FOR CONTROLLING TRIBAL HUNTS: 1 STATION WAGON/BUS FOR TOURISTS AND STAFF
RAJ/N/DES	YES	
RAJ/N/KEO	NO	TRACTOR AND TROLLY FOR TRANSPORTING MATERIAL: NIGHT-VISION EQUIPMENT FOR BIRD OBSERVATION IN DARKNESS
RAJ/N/RAN	NO	VEHICLES INADEQUATE, NEED MORE FOR PROTECTION AND RESEARCH WORK
RAJ/N/SAR	NO	1 TRACTOR TANKER TO DEAL WITH SUMMER WATER SHORTAGE: 1 JEEP FOR WILDLIFE FLYING SQUAD
SIK/N/KHA	NO	BINOCULARS, ALTIMETERS, BAROMETERS, TRANQUILISER, WIRELESS SETS, CAMERA WITH TELELENS, HIGH ALTITUDE TENTS
TN/N/GUI	NO	WIRELESS SETS, ELECTRONIC TRACKING EQUIPMENT, DART GUNS, RIFLES, TRANQUILISER GUNS, INFRA-RED VIEWERS
UP/N/COR	YES	
UP/N/DUD	NO	ELEPHANTS: FIRE DETECTION AND FIGHTING EQUIPMENT
UP/N/NAN	NO	COMMUNICATION FACILITIES
UP/N/VAL	NO	COMMUNICATION FACILITIES

# Table - 36.8 (ADEQUACY OF STAFF)

CODE	ADEQUATE STAFF?	DETAILS IF STAFF NOT ADEQUATE	ADEQUATE CALIBRE OF STAFF?	RECOMMENDED CHANGES IF CALIBRE OF STAFF NOT ADEQUATE
A&N/N/MAR	NO	1 ACF, 1 RFO, 4 DEPUTY RFO, 30 FOREST GUARDS, 1 MARINE BIOLOGIST, 2 FIELD ASSISTANTS	YES	×
A&N/N/MID	NO	1 RANGE OFFICER, 4 FOREST GUARDS	YES	
A&N/N/MOU	NO	1 RANGE OFFICER FOR SUPERVISION: 10 FORESTERS AND 15 FOREST GUARDS FOR PROTECTION	NO	TRAINING FOR ALL THE STAFF MEMBERS
A&N/N/NOR	NO	1 FOREST RANGER: 5 FOREST GUARDS	NO	TRAINED STAFF NEEDED
A&N/N/SAD	NO		I	
A&N/N/SOU	NO	1 RFO, 1 DEPUTY RANGER, 5 FOREST GUARDS	NO	TRAINING NEEDED
ARU/N/NAM	NO	10 FORESTERS, 4 DEPUTY RFO, 30 FOREST GUARDS, FOR BETTER PROTECTION	NO	FOREST RANGERS POSTED HAD BAD RECORD WITH NO WL APTITUDE: STAFF BE DIRECT & EXCLUSIVE RECRUIT TO WL
GOA/N/BHA	NO		NO	TRAINING IN WL MANAGEMENT, AND KNOWLEDGE OF WLPA NEEDED
GUJ/N/BAN	YES		YES	
GUJ/N/GIR	YES		NO	ALL STAFF UP TO DEPUTY CF SHOULD BE TRAINED IN WL MANAGEMENT
GUJ/N/MAR	NO	SPECIALISED STAFF LIKE MARINE BIOLOGIST, GEOLOGIST, ECOLOGIST, CURATOR: MOBILE SQUAD: DEPUTY CF, ACF, RPO	NO	SINCE THIS IS VERY SPECIALISED SUBJECT, TRAINING IN MARINE NP IN OTHER COUNTRIES REQUIRED
GUJ/N/VEL HP/N/GRE	YES NO	2 ACF, 4 FOREST RANGERS, 6 DEPUTY RANGERS, 40 FOREST GUARDS, 20 WL WATCHERS, 6 PEONS	YES NO	

CODE	ADEQUATE STAFF?	DETAILS IF STAFF NOT ADEQUATE	ADEQUATE CALIBRE OF STAFF?	RECOMMENDED CHANGES IF CALIBRE OF STAFF NOT ADEQUATE
HP/N/PIN	NO	3 DEPUTY RFO, AND 2 FOREST GUARDS FOR MANAGEMENT & PROTECTION: 2 DEPUTY RFO & 6 FOREST GUARDS FOR FLYING SQUAD: GUARDS FOR CHECK- POST	NO	YOUNG TRAINED STAFF NEEDED, EVERY MEMBER TRAINED IN WL AND INTERESTED IN SUBJECT
&K/N/DAC	YES		YES	
&K/N/HEM	YES		YES	
&K/N/KIS	NO	1 DIRECTOR: 8 FORESTERS: 27 FOREST GUARDS: 5 CLERICAL STAFF: 1 DRIVER: 3 PEONS: 6 CHOWKIDARS	NO	TRAINING NEEDED
ar/n/ban	NO	5 TRAINED TOURIST GUIDES, 1 PHOTO-TECHNICIAN FOR FILMING, 10 GUARDS FOR PROTECTION AND MOBILE UNIT	YES	
KAR/N/BANN	NO	30 MAINTENANCE STAFF MEMBERS, 20 PROTECTION STAFF MEMBERS	YES	
KAR/N/NAG	NO	AND INCREASE IN ALL CATEGORIES OF STAFF, DUE TO YEARLY INCREASE OF VISITORS	YES	
KER/N/ERA	NO	4 FORESTERS, 15 GUARDS, 10 WATCHERS, 2 CAMP FOLLOWERS, 1 WL GUARD, 1 BUTLER. FOR EFFECTIVE PROTECTION, AND FUNCTIONING	YES	
KER/N/PER	YES		NO	WEAPONS TRAINING TO FIELD STAFF NEEDED TO COUNTER ORGANISED POACHING: TRAINING IN WIRELESS OPENATION

OPERATION

# Table - 36.8 (...contd)

CODE	ADEQUATE STAFF?	DETAILS IF STAFF NOT ADEQUATE	ADEQUATE CALIBRE OF STAFF?	RECOMMENDED CHANGES IF CALIBRE OF STAFF NOT ADEQUATE
KER/N/SIL	NO	10 PROTECTION PERSONNEL TRAINED IN WL MANAGEMENT	NO	REQUIRE WL MANAGEMENT TRAINING
MAH/N/NAW	NO		NO	
MAH/N/PEN MAH/N/SAN	YES NO	ARMED CONSTABLES FOR PROTECTION: POLICE PROSECUTOR	NO	TRAINED STAFF NEEDED
		TO PURSUE OFFENCE CASES: NATURALIST FOR RESEARCH		
MAH/N/TAD	YES		NO	LOWER STAFF IS NOT ORIENTED TO WL WORKING
MAN/N/KEI	NO	1 RANGER FOR MOBILE SQUAD: 3 FORESTERS AND 9 FOREST GUARDS FOR MOBILE SQUAD AND CHECK FOST DUTY	NO	OFFICER IN CHARGE NEEDS WL TRAINING: ALL SUBORDINATE STAFF BE ALLOWED TO VISIT NP IN ADVANCE
MAN/N/SIR	NO	1 ACF, 2 RANGERS, 3 FORESTERS, 6 FOREST GUARDS, FOR EFFECTIVE PARK MANAGEMENT	10	
MP/N/BAN	NO	2 RFO: 20 FOREST GUARDS: BOTH FOR NEW AREA; STAFF IN OLD AREA SUFFICIENT	NO	MOST RFO AND LOWER STAFF NOT TRAINED IN WL AND VERY LOW PAID: NEED INCENTIVES
MP/N/FOS	NO	REST OF ESTABLISHMENT NOT SANCTIONED	I	NO STAFF
MP/N/IND	NO		NO	STAFF NEWLY RECRUITED, BUT GETTING EXPERIENCE AND TRAINING
MP/N/KAN	YES		NO	ALL STAFF NEEDS TRAINING IN FORESTRY AND WL
MP/N/KANG	YES		NO	CONSTANT TRAINING FOR FIELD STAFF NEEDED
MP/N/MAD	NO	WIRELESS OPERATORS, RESEARCH ASSISTANT, TOURIST GUIDE	NO	ONLY WL TRAINED STAFF SHOULD BE POSTED IN PARK

		Table - 5010 (11	(contra)	
CODE	ADEQUATE STAFF?	DETAILS IF STAFF NOT ADEQUATE	ADEQUATE CALIBRE OF STAFF?	RECOMMENDED CHANGES IF CALIERE OF STAFF NOT ADEQUATE
MP/N/PAN	YES		NO	STAFF PICKING UP NECESSARY SKILLS, BEING TRAINED THROUGH EXPERIENCE AND SPECIAL COURSES GRADUALLY
MP/N/PEN	NO	NO RESEARCH STAFF	NO	NEW PARK AND EXISTING STAFF TRAINED ONLY IN FORESTRY WORK: 10% STAFF BE SENT ANNUALLY FOR TRAINING
MP/N/SAN	NO	1 ASSISTANT DIRECTOR, 4 RFO, 14 FORESTER, 60 GUARD, 11 DRIVER, 16 CLERKS, 6 MAHAVAT & 10 GUIDE	NO	WL TRAINING AND SPECIAL INCENTIVES NEEDED: PROPER AMENITIES FOR STAFF: NEW STAFF FROM FOREST COLLEGES
MP/N/SAT	NO	1 ASSISTANT DIRECTOR, 2 RFO FOR NEW RANGE, AND SPECIAL DUTY, 2 FORESTERS FOR FIELD WORK, 10 GUARDS FOR CHECK- POINTS AND GUIDES	NO	INCENTIVES FOR THEM
MP/N/VAN	NO	2 FORESTERS & 10 FOREST GUARDS FOR FIELD WORK, PATROLLING: 5 OFFICE STAFF IN DIRECTOR'S OFFICE AND RFO'S	NO	EXECUTIVE STAFF NEEDS WL TRAINING
ORI/N/SIM	NO		NO	NEED TO TRAIN RANGE OFFICERS AND STAFF BELOW IN WL: THEY SHOULD ALSO HAVE EXPERIENCE OF OTHER PARKS
RAJ/N/DES RAJ/N/KEO	YES NO	1 RFO, 2 FORESTER, 6 GUARDS, 4 CLERKS 3 WIRELESS & 1 FIL OPERATOR, 1 DRIVER & 1 ELECTRICIAN	M	

CODE	ADEQUATE STAFF?	DETAILS IF STAFF NOT ADEQUATE	ADEQUATE CALIBRE OF STAFF?	RECOMMENDED CHANGES IF CALIBRE OF STAFF NOT ADEQUATE
RAJ/N/RAN	NO	10 GUARDS: 8 TRAINED GAME WATCHERS: 1 RESEARCH	YES	
RAJ/N/SAR	NO	ASSISTANT 1 RESEARCH OFFICER AND ASSISTANT, 1 WIRELESS OPERATOR & TECHNICIAN, 1 FILM OPERATOR, 2 FORESTERS	YES	
SIK/N/KHA	NO	ADMINISTRATIVE STAFF: GUARDS AND WARDENS FOR PATROLLING SQUAD, CHECKPOINTS, CENSUS AND SURVEY	NO	NEED FOR WL TRAINING AT WL INSTITUTE, DEHRADUN, FOR WL WARDENS AND AWLW
TN/N/GUI	YES		NO	SHOULD BE TRAINED IN WL MANAGEMENT
UP/N/COR	YES		VES	THOUGH MANY NOT WITH ADEQUATE TRAINING
UP/N/DUD	NO	6 GATEMEN TO CONTROL ENTRY: 14 WIRELESS OPERATORS	NO	ALL RFO AND FIELD STAFF SHOULD BE TRAINED IN WL MANAGEMENT PERIODICALLY
UP/N/NAN	NO	RESEARCH STAFF: EXTENSION AND EDUCATION STAFF	YES	PERIODICADEL
UP/N/VAL	NO	TRAINED GUIDES: RECEPTIONISTS: ENTRY POINT STAFF	YES	
WB/N/SUN	NO	PROPOSAL PENDING FOR LONG	NO	RANGERS NEED WL TRAINING

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# Table - 36.9 (INTER-DEPARTMENTAL COOPERATION)

CODE

#### INTER-DEPARTMENTAL DETAILS IF INTER-DEPARTMENTAL HELP ADEQUATE? HELP INADEQUATE

A&N/N/MAR	YES	
A&N/N/MID	YES	
A&N/N/MOU	YES	
A&N/N/NOR	YES	
A&N/N/SAD	YES	
A&N/N/SOU	YES	
ARU/N/NAM	YES	
GOA/N/BHA	YES	
GUJ/N/BAN	YES	
GUJ/N/GIR	YES	
GUJ/N/MAR	NO	NO COOPERATION FROM FISHERIES DEPARTMENT OF GUJARAT: THIS IS ESSENTIAL FOR SUCCESS
GUJ/N/VEL	YES	GOARAT: THIS IS ESSENTIAL FOR SUCCESS
HP/N/GRE	NO	
HP/N/GRE	NO	NO INCENTIVE BEING PROVIDED FOR
		DETECTION OF POACHING
J&K/N/DAC	YES -	
J&K/N/HEM	YES	
J&K/N/KIS	YES	
KAR/N/BAN	YES	
KAR/N/BANN	YES	
KAR/N/NAG	YES	
KER/N/ERA	YES	
KER/N/PER	NO-	
KER/N/SIL	YES	
MAH/N/NAW		
MAH/N/PEN	YES	
MAH/N/SAN	YES	
MAH/N/TAD	YES	
MAN/N/KEI	YES	
MAN/N/SIR	YES	
MP/N/BAN	YES	
MP/N/FOS	NO	AREA NOT NOTIFIED NOR ACQUIRED
MP/N/IND	YES	saine site Newscard Man Schenes
MP/N/KAN	YES	
MP/N/KANG	YES	
MP/N/MAD	NO	CASES REGISTERED WITH POLICE NOT DEALT
	NO	WITH PROPERLY, HANDLED WRONGLY AND DELAYED RESULTING IN ACQUITTAL OF CULPRITS
MP/N/PAN	NO	REVENUE AUTHORITIES NOT SERIOUS ABOUT SETTLEMENT PROCEEDINGS: COLLECTOR SANCTIONED QUARRYING OF STONE INSIDE PARK DESPITE LEGAL AND ADMINISTRATIVE OBJECTIONS: OPPOSING THESE ACTIONS MAKES THEM HOSTILE
MP/N/PEN		
MP/N/SAN	YES	

# Table - 36.9 (...contd)

CODE INTER-DEPARTMENTAL DETAILS IF INTER-DEPARTMENTAL HELP ADEQUATE? HELP INADEQUATE

MP/N/SAT	YES	
MP/N/VAN	YES	
ORI/N/SIM	YES	
RAJ/N/DES	YES	
RAJ/N/KEO	YES	2
RAJ/N/RAN	NO	COOPERATION FROM POLICE WHEN OFFENDERS
RAJ / W/ RAN	NO	TURN VIOLENT IS NIL, NO ACTION TAKEN EVEN WHEN PARK PERSONNEL MANHANDLED BY OFFENDERS INSIDE PARK
RAJ/N/SAR	YES	
SIK/N/KHA	YES	
TN/N/GUI	YES	
UP/N/COR	YES	
UP/N/DUD	YES	
		WL STAFF CONSIDERED HINDRANCE BY OTHER
UP/N/NAN	NO	DEPARTMENTS: LATTER NEED TO BE EDUCATED ABOUT CONSERVATION
UP/N/VAL	NO	WL STAFF CONSIDERED HINDRANCE BY OTHER DEPTS: NEED TO EDUCATE STAFF OF OTHER DEPTS IN NATURE CONSERVATION
WB/N/SUN	NO	DISTRICT ADMINISTRATION DOES NOT HELP IN ENFORCING REGISTRATION OF GUNS IN ADJACENT AREAS

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# Table - 36.10 (THREAT FROM LOCAL PROPLE)

CODE

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ARE THE PEOPLE DETAILS OF HOW THIS THREAT CAN IN AND AROUND BE MINIMISED YOUR PARK A THREAT?

A&N/N/MAR	NO	
A&N/N/MID	NO	
A&N/N/MOU	NO	
A&N/N/NOR	NO	
A&N/N/SAD	NO	
A&N/N/SOU	NO	
ARU/N/NAM	NO	
GOA/N/BHA	NO	
GUJ/N/BAN	NO	
GUJ/N/GIR	YES	POPULATION OF LIVESTOCK AROUND PARK SHOULD BE MINIMISED QUANTITATIVELY, THROUGH BETTER PASTURE MANAGEMENT, IMPROVING BREED, AND ELIMINATING USELESS CATTLE
GUJ/N/MAR	NO	
GUJ/N/VEL	YES	LIVESTOCK OF SURROUNDING VILLAGES IS A THREAT: LIVE-HEDGE FENCE AROUND PARK PROPOSED
HP/N/GRE	YES	SHIFTING INSIDE VILLAGERS OUT AND
	110	EXTINGUISHING THEIR RIGHTS OF GRAZING, MFP COLLECTION, TIMBER AND FUELWOOD COLLECTION
HP/N/PIN	YES	RIGHTS MUST BE SETTLED: PARK BOUNDARY BE FENCED OFF TO PREVENT ENTRY: CATTLE OUTSIDE BE KEPT FREE FROM ALL DISEASES
J&K/N/DAC	YES	
J&K/N/HEM	NO	
J&K/N/KIS	YES	SHIFTING VILLAGES AND REGULATING ENTRY INTO NATIONAL PARK
KAR/N/BAN	NO	
KAR/N/BANN	YES	TRENCH ALL ROUND BOUNDARY: ACQUIRING PRIVATE LAND INSIDE PARK: MAINTAINING LAW AND ORDER WITH POLICE
KAR/N/NAG	NO	
KER/N/ERA	NO	
KER/N/PER	WWW.FR	
KER/N/SIL	NO	
MAH/N/NAW		
MAH/N/PEN	YES	7 VILLAGES (NAMES GIVEN) ARE THREAT
MAH/N/SAN	YES	RESETTLEMENT OF THESE PEOPLE
MAH/N/TAD	NO	
MAN/N/KEI	YES	SOCIAL AMENITY SCHEMES BE TAKEN UP IN ADJACENT VILLAGES
MAN/N/SIR	NO	
MP/N/BAN	NO	

# Table - 36.10 (...contd)

CODE	ARE THE PEOPLE IN AND AROUND YOUR PARK A THREAT?	DETAILS OF HOW THIS THREAT CAN BE MINIMISED
MP/N/IND MP/N/KAN	YES YES	RELOCATION OUTSIDE PARK IS ONLY SOLUTION WHERE PARK BOUNDARIES TOUCH VILLAGES: COMMUNITY DEVELOPMENT MEASURES eg; WELLS, IRRIGATION TANKS, BIOGAS PLANTS, HONEY BEE INDUSTRY, BETTER CATTLE BREED: ALSO INVOLVEMENT IN PARK MANAGEMENT AND EDUCATION
MP/N/KANG MP/N/MAD	NO YES	CREATING NISTAR PLANTATION AND GRASSLANDS AROUND PARK TO MINIMISE PRESSURE OF NISTAR
MP/N/PAN	YKS	ARGORD PARK TO MINIPLISE PRESSORE OF WISTAR ON PARK RELOCATION OF INSIDE VILLAGES MUST:
ALT IN LEAD	155	ALTERNATIVES FOR FUELWOOD AND WOOD FOR AGRICULTURAL IMPLEMENTS
MP/N/PEN		
MP/N/SAN	YES	SHIFTING INSIDE VILLAGES: MORE STAFF AND EQUIPMENT FOR PROTECTION AGAINST OUTSIDE' VILLAGERS: CATTLE PROOF TRENCH AROUND PARK: DEVELOPMENT OF PASTURES: INTRODUCTION OF IMPROVED CATTLE BREED
MP/N/SAT	NO	VILLAGES BEING RELOCATED FROM INSIDE
MP/N/VAN	NO	
ORI/N/SIM	YES	LIVESTOCK TRANSMITS DISEASES TO WILD LIFE AND REDUCES GRAZING STOCK: PEOPLE INDULGE IN POACHING AND HABITAT DESTRUCTION
RAJ/N/DES	NO	
RAJ/N/KEO	NO	
RAJ/N/RAN	YES	DEVELOPING ALTERNATIVE FODDER AND FUEL SOURCES OUTSIDE PARK, NEAR VILLAGES
RAJ/N/SAR	YES	MAINLY FROM CATTLE AND FUELWOOD COLLECTION: PASTURES NEED TO BE DEVELOPED IN ADJACENT AREAS WITH ROTATIONAL GRAZING, AND SUBSIDISED BIOGAS PLANTS OR GOVT DEPOTS AS ALTERNATIVE TO FUELWOOD COLLECTION
SIK/N/KHA	NO	
TN/N/GUI	NO	
UP/N/COR	YES	WITH INCREASE IN POPULATION, MAY UNDERTAKE ILLEGAL ACTIVITIES
UP/N/DUD	NO	
UP/N/NAN	NO	
UP/N/VAL	NO	
WB/N/SUN	NO	

# Table - 36.11 (THREAT FROM TOURISM)

-CODE

IS TOURISM SUGGESTIONS ON REGULATING TOURISM IF A THREAT? PERCEIVED AS A THREAT

A&N/N/MAR	NO	
A&N/N/MTD	NO	
A&N/N/MOU	NO	
A&N/N/NOR	NO	
A&N/N/SAD	NO	
A&N/N/SOU	NO	
ARU/N/NAM	NO	
GOA/N/BHA	+++	
GUJ/N/BAN	NO	
GUJ/N/GIR	NO	
GUJ/N/MAR	YES	MARINE ECOSYSTEM VERY FRAGILE DUE TO 40 YEARS OF INDUSTRIAL ACTIVITY, SO TOURISTS CAN BE VERY HARMFUL
GUJ/N/VEL	NO	
HP/N/GRE	NO	
HP/N/PIN	NO	NO TOURISTS
J&K/N/DAC	YES	NEEDS TO BE CONTROLLED
J&K/N/HEM	NO	
J&K/N/KIS	NO	
KAR/N/BAN	NO	
KAR/N/BANN	NO	
KAR/N/NAG	NO	
KER/N/ERA	YES	TOURISTS SHOULD BE RESTRICTED
KER/N/PER	NO	
KER/N/SIL	NO	
MAH/N/NAW		
MAH/N/PEN		
MAH/N/SAN	YES	SHOULD BE REGULATED BY PROVIDING FIXED PLACES
	121121	FOR RECREATION
MAH/N/TAD	YES	UNREGULATED SO FAR, EVEN ENTRY FEES NOT YET
		PRESCRIBED
MAN/N/KEI	NO	
MAN/N/SIR	YES	SHOULD BE TOTALLY STOPPED, SINCE THEY DESTROY
1000000		ECOSYSTEM OF LILIUM MACKLINAE BY UPROOTING
MP/N/BAN	NO	
MP/N/FOS	NO	
MP/N/IND	NO	
MP/N/KAN	NO	CARRYING CAPACITY TO BE ASSESSED: VEHICLES CURTAILED: ROTATE TOURIST ZONES: TIME RESTRICTIONS, ETC
MP/N/KANG	NO	
MP/N/MAD	NO	
MP/N/PAN	YES	NOT IF HANDLED BY OTHER AGENCIES SO STAFF TIME
en l'hit han	160	IS NOT WASTED: HELPFUL IN ADDING GLAMOUR TO NATIONAL PARK WORK
MP/N/PEN	NO	NEW PARK: NO TOURISM YET
MP/N/SAN	NO	
MP/N/SAT	NO	
20012302127	1000000	

# Table - 36.11 (...contd)

CODE IS TOURISM SUGGESTIONS ON REGULATING TOURISM IF A THREAT? PERCEIVED AS A THREAT

MP/N/VAN	NO	
ORI/N/SIM	NO	
RAJ/N/DES	NO	
RAJ/N/KEO	NO	
RAJ/N/RAN	NO	
RAJ/N/SAR	YES	THOUSANDS OF FILGRIMS COME TO TEMPLES: RESTRICTIONS IN NON-PILGRIMAGE SEASON WILL OFFSET THIS
SIK/N/KHA	NO	
TN/N/GUI	NO	
UP/N/COR	NO	
UP/N/DUD	NO	
UP/N/NAN	I	5
UP/N/VAL	NO	
WB/N/SUN	NO	

# Table - 36.12 (LEVEL OF RESEARCH)

CODE	IS THE LEVEL AND QUANTUM OF RESEARCH ADEQUATE?	DETAILS IF LEVEL AND QUANTUM OF RESEARCH NOT ADEQUATE
A&N/N/MAR	NO	VARIOUS KINDS OF STUDIES ON MARINE FAUNA
A&N/N/MID	NO	ECOLOGY OF WHOLE ISLAND
A&N/N/MOU	NO	WHOLE AREA NEEDS TO BE STUDIED IN VIEW OF ITS NOTIFICATION FOR THE PURPOSE OF BIOSPHERE RESERVE
A&N/N/NOR	NO	ECOLOGY OF WHOLE BIOTOME OF ISLAND
A&N/N/SAD	NO	WHOLE AREA
A&N/N/SOU	NO	ECOLOGY OF COMPLETE BIOMASS OF ISLAND, · ESPECIALLY SINCE IT IS TOTALLY UNDISTURBED
ARU/N/NAM	YES	
GOA/N/BHA	NO	STATUS OF DIFFERENT SPECIES IN PARK: IDEAL TREATMENT FOR HABITAT WITH RESPECT TO PARK TARGETS
GUJ/N/BAN	YES	
GUJ/N/GIR	NO	
GUJ/N/MAR	YES	
GUJ/N/VEL	NO	CARRYING CAPACITY OF PARK WITH RELATION TO POPULATION OF BLACKBUCKS
HP/N/GRE	NO	
HP/N/PIN	NO	WHOLE PARK NEEDS STATUS SURVEY OF FLORA AND FAUNA
J&K/N/DAC	YES	
J&K/N/HEM	NO	STUDY OF MOUNTAIN SHEEP AND GOATS
J&K/N/KIS	NO	CAPTIVE BREEDING: INTRODUCTION OF NEW SPECIES: CENSUS
KAR/N/BAN	NO	SEASONAL CHANGE IN BEHAVIOUR OF ANIMALS: DISTURBANCE TO NOVEMENT OF ANIMALS
KAR/N/BANN	NO	BREEDING OF ALBINOS: BREEDING OF ENDANGERED SPECIES OF BIRDS AND INTRODUCING INTC WILD
KAR/N/NAG	NO	ANIMAL BEHAVIOUR, CARRYING CAPACITY, LOCAL MIGRATION
KER/N/ERA	NO	SHOLAS AND GRASSLANDS
KER/N/PER	YES	
KER/N/SIL	NO	
MAH/N/NAW		na an an an an an an an an an an an an a
MAH/N/PEN	NO	PROPOSED CZ AND BZ
MAH/N/SAN	NO	WHOLE PARK
MAH/N/TAD	NO	ECOLOGICAL IMPACT OF BAMBOO FLOWERING AND EFA HABITAT UTILIZATION, TRENDS: POPULATION TRENDS BREEDING, MIGRATION, AND BEHAVIOUR
MAN/N/KEI	NO	CHANGES OCCURRING IN THE NATURAL VEGETATIC, OF THE PARK AND ITS EFFECTS ON BROW-ANTLERED DEER
MAN/N/SIR	NO	TEMPERATE ECOSYSTEM OF LILIUM MACKLINAE: BREEDING OF BLYTH'S TRAGOPAN AND OTHER ENDEMIC PHEASANTS

CODE		DETAILS IF LEVEL AND QUANTUM OF RESEARCH NOT ADEQUATE		
MP/N/BAN	NO	TIGER DISPERSAL: CATTLE LIFTING PROBLEM IN ADJACENT AREAS: DEPLETION IN GAUR POPULATION		
MP/N/FOS				
MP/N/IND	NO	CORE AREA		
MP/N/KAN	NO	TELEMETRY OF ANIMALS: SWAMP DEER MIGRATION PATTERN: PARASITISM ON UNGULATES: CARRYING CAPACITY: PREY-PREDATOR RELATIONSHIP		
MP/N/KANG	NO	ON BIOSPHERE AREA AND KUTUMSAR CAVE AREA		
MP/N/MAD	YES			
MP/N/PAN	NO	ECOLOGICAL CHANGES DUE TO INTENSIFIED PROTECTION: ANIMAL RESPONSES TO SUCH PROTECTION		
MP/N/PEN	NO	BURNING REGIME: FEEDING HABITS: CARRYING CAPACITY: NEED FULL RESEARCH STAFF AND EQUIPMENT		
MP/N/SAN	NO	ECOLOGY		
MP/N/SAT	NO	FLORA AND FAUNA IN WHOLE PARK		
MP/N/VAN	NO	SINCE ANIMALS ARE CONFINED TO LARGE ENCLOSURES, RESEARCH ON BEHAVIOUR ETC NOT DIFFICULT		
ORI/N/SIM	NO			
RAJ/N/DES	NO			
RAJ/N/KEO	YES	e		
RAJ/N/RAN	NO	POPULATION STRUCTURE OF ANIMALS: VEGETATIONAL CHANGES: CLIMATIC CYCLES		
RAJ/N/SAR	NO	POSTS OF RESEARCH STAFF LYING VACANT		
SIK/N/KHA	NO	VIABILITY AND CARRYING CAPACITY OF MANANGDANG, FIN PHU, GREEN LAKE, FOR VARIOUS SPECIES		
TN/N/GUI	NO	AS MENTIONED EARLIER		
UP/N/COR	NO	ELEPHANT, BIRD MIGRATION: MAHSEER BREEDING, CAUSES OF DECLINE: LANTANA ERADICATION: TIGER/PANTHER TERRITORIALITY		
UP/N/DUD	Ю	RESEARCH OFFICER BE POSTED TO TAKE UP LONG-TERM STUDIES ON FOOD PREFERENCES OF VARIOUS ANIMALS		
UP/N/NAN	NO	VEGETATION MAPPING: ANIMAL SURVEY: WL HABITS AND HABITAT		
UP/N/VAL	NO	VEGETATION MAPPING: RESTORING ECOLOGICAL BALANCE DISTURBED BY GRAZING		
WB/N/SUN	YES			

# Table - 36.12 (...contd)

# Table - 36.13 (ALTERATION OF BOUNDARIES)

CODE SHOULD THE BOUNDARIES SUGGESTION REGARDING ALTERATION OF THE PARK BE OF BOUNDARIES ALTERED?

A&N/N/MAR	NO	
A&N/N/MID	NO	
A&N/N/MOU	NO	
A&N/N/NOR	NO	
A&N/N/SAD	NO	
A&N/N/SOU	NO	
ARU/N/NAM	YES	VIRGIN AREAS OF LOHIT AND MIAO SHOULD BE ADDED
GOA/N/BHA	YES	DELETION OF PRIVATE LANDS ON PERIPHERY AND ACQUISITION OF THOSE IN INTERIOR OF CORE WILL FACILITATE EETTER MANAGEMENT
GUJ/N/BAN	NO	
GUJ/N/GIR	NO	
GUJ/N/MAR	NO	(MAY BECOME NECESSARY ONCE MANAGEMENT PLAN IS WRITTEN)
GUJ/N/VEL	NO	LARN MARINETA SARAT AN MARA LART
HP/N/GRE	YES	
HP/N/PIN	YES	MAKE A COMPACT, LARGE REPRESENTATIVE AREA OF WESTERN HIMALAYA SYSTEM
J&K/N/DAC	NO	men of "Lottered Himberth Orotter
J&K/N/HEM	YES	NOTIFIED SHUNG RESERVE ADJOINING
o way sy stars		PARK, CHANG-CHY FALL ADJACENT TO MARKHA, AND LOWER REGION OF RIVER ZANSKAR PROPOSED TO BE ADDED
J&K/N/KIS	YES	RINAI NALLAH DRAINAGE YET TO BE TRANSFERRED FROM FOREST DEPARTMENT: THIS WILL ALTER BOUNDARIES
KAR/N/BAN	NO	
KAR/N/BANN	YES	CHANGES AFTER ACQUISITION OF PRIVATE LAND, WHICH IS UNDER PROCESS
KAR/N/NAG	NO	
KER/N/ERA	NO	
KER/N/PER	NO	
KER/N/SIL	NO	
MAH/N/NAW		
MAH/N/PEN		
MAH/N/SAN	NO	
MAII/N/TAD	YES	AREAS WHERE GAUR AND WILD DOG MIGRATION TAKES PLACE, TO EAST OF PARK
MAN/N/KEI	NO	100525555
MAN/N/SIR		Vi
MP/N/BAN	NO	
MP/N/FOS	NO	
MP/N/IND	NO	
and a second second		

CODE	SHOULD THE BOUNDARIES OF THE PARK BE ALTERED?	SUGGESTION REGARDING ALTERATION OF BOUNDARIES
MP/N/KAN	YES	1360 HA OF PROTRUDING AREAS AROUND CHHATARPUR, PATORA, JHAPUL, AND JHULAP FOREST VILLAGES SHOULD BE DELETED
MP/N/KANG	YES	PART OF KANGER RF OUTSIDE PARK, AND AREA OF BHIMSEN RIVER WATERFALL
MP/N/MAD	YES	2 NATIONAL HIGHWAYS PASS THROUGH PARK BREAKING THE AREA: BETTER IF PARK AREA WAS ONE COMPACT BLOCK
MP/N/PAN	NO	
MP/N/PEN		
MP/N/SAN	YES	(TOO EARLY TO COMMENT)
MP/N/SAT	NO	
MP/N/VAN	NO	
ORI/N/SIM	NO	
RAJ/N/DES	NO	
RAJ/N/KEO	NO	
RAJ/N/RAN	YES	ADEQUATE BUFFER AREA NEEDED AROUND PARK
RAJ/N/SAR	NO	
SIK/N/KHA	YES	ADD ADJACENT WILDLIFE RICH AREAS TO MAKE PROPER ECOLOGICAL UNIT
TN/N/GUI	NO	
UP/N/COR	YES	110000 HA AROUND PARK PROPOSED FOR INCLUSION BECAUSE IT IS SUBJECT TO BIOTIC INTERFERENCE AND IN NEED OF INTENSIVE PROTECTION
UP/N/DUD	NO	
UP/N/NAN	NO	
UP/N/VAL WB/N/SUN	NO	

# Table - 36.14 (NOTIFICATION OF OTHER AREAS)

CODE OTHER AREAS WHICH DETAILS SHOULD BE NOTIFIED AS PARKS AND SANCTUARIES

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GOA/N/BHA	YES	AREAS TO THE NORTH WHICH ARE UNDISTURBED AND CONTIGUOUS
GUJ/N/GIR	YES	MITIYALA FOREST, BHAVNAGAR DISTRICT, AS ALTERNATE LION SANCTUARY.
GUJ/N/MAR	YES	MANGROVE FORESTS OF KUTCH.
HP/N/PIN	YES	15-20 UNDISTURBED AREAS OF KULU, SHIMLA, KINNAUR: NEED STUDY
MAH/N/TAD	YES	AREA AROUND RAM DEGI DAM FOR BIRDS, TO NORTH-WEST: PROPOSAL SENT
MP/N/IND	YES	ADJOINING AREA IN MAHARASHTRA: TO IMPROVE PROTECTION IN PARK
MP/N/KAN	YES	9000 TO 15000 ha. FORESTS TO SOUTH-WEST, TO RECEIVE SPILL-OVER ANIMALS
MP/N/PAN	YES	SYANGIRI PLATEAU FOR CARACAL, AND PAHADI KHEDA ROAD FORESTS FOR BLACKBUCK
ORI/N/SIM	YES	MAHUBHANDAR PF AND TATO RF, ADJOINING THIS PARK
RAJ/N/RAN	YES	RF ADJOINING PARK BE DECLARED SANCTUARY TO PROVIDE BUFFER
RAJ/N/SAR	YES	JUMMA RAMGARH & ALWAR RANGE, SIRAWAS & SHAHPURA FORESTS

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## Table - 36.15 (WILDLIFE POSTING)

CODE	WILDLIFE	WILDLIFE POSTING BEING WELCOME	OTHER SUGGESTIONS IF ANY	DETAILS OF PREVIOUS POSTINGS
a&n/n/mar	YES	PERSONAL INTEREST: PURELY TECHNICAL SUBJECT	NO	PREVIOUS WL POST AS ACF WL PORT BLAIR 1978-79: THIS WL POST AS DCF WL POST BLAIR SINCE MARCH 1979
A&N/N/MID	YES	PERSONAL INTEREST: PURELY TECHNICAL SUBJECT	NO	PREVIOUS WL POST AS ACF WL PORT BLAIR 1978-79: THIS WL POST AS DCF WL PORT BLAIR SINCE 1979
A&N/N/MOU	YES	BEING TRAINED IN WL MANAGEMENT	NO	THIS POST AS DFO SOUTH ANDAMANS
A&N/N/NOR	YES	PERSONAL INTEREST AND BECAUSE IT IS A PURELY TECHNICAL SUBJECT		THIS WL POST AS DCF WL, PORT BLAIR, SINCE MARCH 1979
A&N/N/SAD	YES	NO SCOPE OTHER THAN WL PROTECTION	NO	THIS POST AS DFO, NORTH ANDAMANS, SINCE OCTOBER 1983
A&N/N/SOU	YES	PERSONAL INTEREST: PURELY TECHNICAL SUBJECT	NO	PREVIOUS WL POST AS ACF WL, PORT BLAIR 1978-79: THIS WL POST AS DCF WL, PORT BLAIR, SINCE MARCH 1979
ARU/N/NAM	YES	CAN WORK WITH DEVOTION WITHOUT PRESSURE	TENDENCY TO POST UNWANTED PEOPLE IN WL HAS HURT REPUTATION OF WL	THIS WL POSTING AS DFO NAMDAPHA NP SINCE 1981
GOA/N/BHA				THIS WL POSTING SINCE 1980, AS RFO WL, MOLEM

		Table - 36.15 (.	contd)	
CODE	IS A WILDLIFE POSTING WELCOME?	REASONS FOR A WILDLIFE POSTING BEING WELCOME	OTHER SUGGESTIONS IF ANY	DETAILS OF PREVIOUS POSTINGS
GUJ/N/BAN	YES	INTEREST IN LEARNING MORE ABOUT WL AND WORKING FOR ITS PRESERVATION	NO	
GUJ/N/GIR	YES	BEING BIOLOGIST AND KEEN NATURALIST, IN BETTER POSITION FOR WL MANAGEMENT	NO	THIS WL POST SINCE MAY 1984 AS CF WL JUNAGADH
GUJ/N/MAR	YES	LOVE WL AND NATURE, HAVE INTEREST AND KNOWLEDGE IN IT	MORE INCENTIVES FOR WL POSTS: OFFICERS SHOULD BE SENT ABROAD FOR STUDY, RATHER THAN TOP LEVEL OFFICERS OF GOVT WHO MAI NOT BE CONCERNED	×
GUJ/N/VEL	YES	BEING A BIOLOGIST AND KEEN NATURALIST, IN BETTER POSITION FOR WL MANAGEMENT	NO	THIS WL POST SINCE MAY 1984 AS CF WL CIRCLE JUNAGADH
HP/N/GRE HP/N/PIN J&K/N/DAC	YES YES	INTEREST IN WL INTERESTED IN OUTDOOR LIFE AND WL MANAGEMENT	NO	PREVIOUS WL POSTS FORESTER DACHIGAM 1966-70, SUPERINTENDENT DACHIGAM 1972-80, RFO KHREW/TRAL 1980: THIS POST SUPERVISOR DACHIGAM SINCE 84
J&K/N/HEM	YES	FULL OF ADVENTURE, HARD WORK, AND AMUSEMENT:		PRESENT POST AS RANGE WLW/DFO LEH-LADAKH

**J**8 AMUSEMENT: OPPORTUNITY TO LEARN ABOUT NATURE AND ITS BEAUTY

CODE		REASONS FOR A WILDLIFE POSTING BEING WELCOME	OTHER SUGGESTIONS IF ANY	DETAILS OF PREVIOUS POSTINGS
J&K/N/KIS	YES	BETTER TO PROTECT THAN TO KILL FOR SPORT		THIS POST AS RANGE WLW JAMMU SINCE JUNE 1984
KAR/N/BAN	YES	LOVE AND REGARD FOR FLORA AND FAUNA		NO PREVIOUS WL POSTING
KAR/N/BANN	YES	INTERESTING WORK	NO	THIS IS FIRST POSTING
KAR/N/NAG	YES	TO BE WITH NATURE	NO	PREVIOUS WL POSTING 1973 TO 1978, RFO, PROJECT TIGER, BEGUR. PRESENT POSTING SINCE 1984
KER/N/ERA	NO	MORE INTERESTED IN SILVICULTURAL WORKS AND RESEARCH	SHOULD BE	
ker/n/per ker/n/sil Mah/n/naw	NO	NO INTEREST IN WL		NO PRIOR WL POSTING NO PRIOR WL POSTING THIS POST AS DEPUTY CF WL NAGPUR
MAH/N/PEN	NO		TOURISM DEVELOPMENT SHOULD BE OUTSIDE CORE AREA	CF WL NAUPUR
H/N/SAN	YES	LIKING	NO	PREVIOUS WL POSTS ACF MELGHAT 1967-69, AWLW NAGPUR 1972-74, WLW
				NAGPUR 1979-82: THIS POST SINCE 1982

Table	-	36.15	(contd)

CODE .	and the stand of the	REASONS FOR A WILDLIFE POSTING BEING WELCOME	OTHER SUGGESTIONS IF ANY	DETAILS OF PREVIOUS POSTINGS
MAH/N/TAD	YES	OPPORTUNITY TO SERVE CONSERVATION CAUSE, WHICH IS ESSENTIAL FOR HUMAN SURVIVAL	KNOWLEDGE AND INTEREST IN CONSERVATION LACKING NOT ONLY IN PUBLIC BUT ALSO IN SENIOR GOVT OFFICIALS, INCLUDING FOREST DEPT: NEED FOR ORIENTATION COURSE FOR THEM	PREVIOUS WL POST ASSISTANT DIRECTOR, MELCHAT TIGER RESERVE 1983: DFO TADOBA NP SINCE OCTOBER 1983
MAN/N/KEI	YES	INTERESTED IN DEVELOPMENT OF NATURAL HERITAGE	NO	THIS WL POSTING SINCE MAY 1979, AS ACF IN CHARGE OF PARK
MAN/N/SIR	YES	OPPORTUNITY OF OUT-DOOR LIFE AND TO OBSERVE AND STUDY WL		THIS WL POSTING SINCE DEC 1982, AS ACF IN-CHARGE OF MANIPUR ZOOLOGICAL GARDEN, IMPHAL
MP/N/BAN	YES	PERSONAL LIKING IN WL CONSERVATION	SEPARATE WL SERVICE MUST BE CREATED IF THIS VALUABLE HERITAGE IS TO BE MANAGED PROPERLY	PREVIOUS WL POSTS ACF KANHA 1973-78, DCF CWLW OFFICE
MP/N/FOS				THIS POST AS DFO TERRITORIAL MANDLA, ALSO DIRECTOR FOSSIL NP SINCE 1984
MP/N/IND	NO.	GENERAL POSTINGS GET MORE PRIORITY IN COMPARISON TO SPECIAL POSTS INCLUDING WL EY STATE GOVT	ADDITIONAL FACILITIES SHOULD BE GIVEN FOR THIS TYPE OF POSTING	PREVIOUS WL POST SUPERINTENDENT KUTRU SANCTUARY 1977-78 AND DFO WEST BASTAR 1978-81: THIS POST DIRECTOR INDRAVATI NP SINCE 1982

XDE		REASONS FOR A WILDLIFE POSTING BEING WELCOME	OTHER SUGGESTIONS IF ANY	DETAILS OF PREVIOUS POSTINGS
Æ/N/KAN	YES	RESULT-ORIENTED WORK, FRUITS DISCERNIBLE WITHIN GOOD TIME: NEW DISCIPLINE, SCOPE FOR INITIATIVE	WL SHOULD BE CONCERN ONLY OF FOREST OFFICERS, NOT PART OF TOURISM	WL DATA COLLECTION IN PREVIOUS POST OF WORKING PLAN OFFICER, KANGER: THIS POST FIELD DIR, KANHA NP SINCE SEPT 1983
MP/N/KANG	NO	NOT TRAINED IN WL	PERSONS EMPLOYED FOR WL WORK SHOULD BE SELECTED EARLY ON IN SERVICE, AND SHOULD EE RETAINED IN WL THROUGHOUT SERVICE	THIS POST AS DIRECTOR KANGER
MP/N/MAD	NO	NOT INTERESTED IN STUDY OF ANIMALS		THIS POST AS DIRECTOR MADHAV NATIONAL PARK SINCE JULY 1984
/IP/N/PAN	YES	CONTACT WITH FOREST WORKING POSSIBLE: LESS INTERFERENCE FROM OTHER DEPTS	SETTING UP A NP SHOULD BE DONE ONLY AFTER GOVT HAS RESOURCES AND WILL TO RUN IT PROPERLY, ALL ESSENTIALS LIKE STAFF, STORES, EQUIPMENT, VEHICLES SHOULD BE SANCTIONED SIMULTANEOUSLY TO DECLARATION ADEQUATE SECURITY, REMUNERATION, EDUCATION FOR CHILDREN A MUST	PREVIOUS WL POST DY DIR KANHA NP 181-82: THIS POST AS DCF & DIRECTOR PANNA NP SINCE 1982

CODE		REASONS FOR A WILDLIFE POSTING BEING WELCOME	OTHER SUGGESTIONS IF ANY	DETAILS OF PREVIOUS POSTINGS
MP/N/PEN	YES	INTEREST IN WL PROTECTION: LEAST POLITICAL INTERFERENCE: HRALTHY CUTDOOR LIFE	SURROUNDING VILLAGES ARE HURT BY RESTRICTIONS ON GRAZING AND FUEL COLLECTION, ALSO BY CROP DAMAGE BY ANIMALS: NEED FOR CIVIL AUTHORITIES TO DRAW UP INTEGRATED PLAN FOR THEM INCLUDING PASTURE IMPROVEMENT AND FUEL PLANTATIONS AROUND PARK	MANY PREVIOUS WL POSTS AS ACF SINCE 1964, & DEPUTY DIRECTOR & DIRECTOR KANHA SINCE 1980: THIS POST SINCE 1980 AS DIRECTOR PENCH
MP/N/SAN	YES			THIS POST AS DIR SANJAY NP SINCE AUGUST 1983
MP/N/SAT	YES	NEW EXPERIENCES EVERY DAY, NOT BORING: OPPORTUNITY TO BE CLOSE TO NATURE		PREVIOUS WL POST AS SUPERINTENDEN KANHA 1977-83: THIS POST AS DIRECTOR PACHMARHI SINCE 1983
MP/N/VAN	YES	INTERESTING	STUDY OF WL FROM CLOSE RANGE POSSIBLE HERE SO MORE RESEARCH TO BE ENCOURAGED	THIS WL POST SINCE AUGUST 1984
ORI/N/SIM	NO	NO SPECIAL TRAINING IN OR OUT OF COUNTRY GIVEN: NO FACILITIES FOR FAMILY ESPECIALLY HCUSING, MEDICAL, EDUCATIONAL	NO	THIS WL POSTING SINCE 1983 AS FIELD DIRECTOR, SIMLIPAL TIGER RESERVE, JASHIPUR

- CODE	WILDLIFE	REASONS FOR A WILDLIFE POSTING BEING WELCOME	OTHER SUGGESTIONS IF ANY	DETAILS OF PREVIOUS POSTINGS
RAJ/N/DES	NO	FORESTRY JOB MORE SUITED AND CHALLENGING	NO	THIS POST AS DEPUTY CF, VARIOUS DISTRICTS
RAJ/N/KEO	YES	SPECIAL LIKING FOR WILDLIFE ESPECIALLY FOR BIRDS	CHEAPER GOVT ACCOMMODATION FOR LARGE NUMBER OF VISITORS NEEDED	THIS WL POST AS
RAJ/N/RAN	YES			PREVIOUS WL POSTS GAME RFO 61-64: WLW MOUNT ABU, SAWAIMADHOPUR, SARISKA 64-78: DEPUTY CWLW BHARATPUR 78-79: THIS POST FIELD DIRECTOR RANTHAMBHORE SINCE 1979
RAJ/N/SAR	YES	LIKE IT, DUE TO WL TRAINING AND WL POSTS IN 16 OUT OF 22 YEARS SERVICE	TAKE INTEREST	SEVERAL WL POSTS, RFO 1964-72, WLW, BHARATPUR &
SIK/N/KHA	YES	PROTECTION OF ALL SPECIES THROUGH SCIENTIFIC MANAGEMENT METHODS, NOT DESTRUCTION	NO	PREVIOUSLY 1977-79 & 1980-82 AS AWLW AND WLW; THIS POST SINCE NOVEMBER 1983 AS ASSISTANT WILDLIFE OFFICER
mu/N/GUI	YES	INTERESTING SUBJECT		र केंद्राया विभिन्ने के विभिन्ने किंद्रीयों है थे।

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CODE		REASONS FOR A WILDLIFE POSTING BEING WELCOME	OTHER SUGGESTIONS IF ANY	DETAILS OF PREVIOUS POSTINGS
UP/N/COR	NO	WORK HARDER BUT FACILITIES AND PROMOTIONAL AVENUES LESS THAN TERRITORIAL POSTING		PREVIOUS WL POSTS DIRECTOR LUCENOW ZOO: DIRECTOR DUDHWA NP TILL 1984: THIS POST DIRECTOR CORBETT TIGER RESERVE SINCE MAR 1984
UP/N/DUD	YES	TRAINING IN WL AT POST-GRADUATE LEVEL, WORKING IN WL FOR LAST 8 YEARS		PREVIOUS WL POSTS DIRECTOR DUDHWA NP 1976-82: DIRECTOR LUCKNOW ZOO 1982-84: THIS POST DIRECTOR DUDHWA NP SINCE 1984
UP/N/NAN	YES	INTEREST	Ю	THIS WL POST AS DEPUTY CF IN CHARGE OF NP AND MUSK DEER EREEDING PROGRAMME, SINCE 1980
UP/N/VAL	YES	DEEPLY INTERESTED IN NATURE CONSERVATION	NO	PREVIOUS WL POSTING DIRECTOR LUCKNOW ZOO 1973-74: THIS POST DEPUTY CF JOSHIMATH SINCE JULY 1980
B/N/SUN	YES		NO	THIS POST AS FIELD DIRECTOR, SUNDERBANS TIGER RESERVE, SINCE 1980

NAME OF THE PARK

CODE

STATE/UNION TERRITORY

A&N/N/MAR	MARINE NATIONAL PARK	ANDAMAN AND NICOBAR ISLANDS
A&N/N/MID	MTDDLE BUTTON ISLAND NATIONAL PARK	
		ANDAMAN AND NICOBAR ISLANDS
A&N/N/MOU A&N/N/NOR	NORTH BUTTON ISLAND NATIONAL PARK	ANDAMAN AND NICOBAR ISLANDS
A&N/N/SAD	SADDLE PEAK NATIONAL PARK	ANDAMAN AND NICOBAR ISLANDS
A&N/N/SOU ARU/N/NAM	NAMDAPHA NATIONAL PARK	ARUNACHAL PRADESH
GOA/N/BHA	SOUTH BUTTON ISLAND NATIONAL PARK NAMDAPHA NATIONAL PARK BHAGWAN MAHAVIR NATIONAL PARK BANSDA NATIONAL PARK GIR NATIONAL PARK MARINE NATIONAL PARK VELAVADAR NATIONAL PARK GREAT HIMALAYAN NATIONAL PARK PIN VALLEY NATIONAL PARK DACHIGAM NATIONAL PARK HEMIS HIGH ALTITUDE NATIONAL PARK KISHTWAR NATIONAL PARK BANDIPUR NATIONAL PARK	GOA
GUJ/N/BAN	BANSDA NATIONAL PARK	GUJARAT
GUJ/N/GIR	GIR NATIONAL PARK	GUJARAT
GUJ/N/MAR	MARINE NATIONAL PARK	GUJARAT
GUJ/N/VEL	VELAVADAR NATIONAL PARK	GUJARAT
HP/N/GRE	GREAT HIMALAYAN NATIONAL PARK	HIMACHAL PRADESH
HP/N/PIN	PIN VALLEY NATIONAL PARK	HIMACHAL PRADESH
J&K/N/DAC	DACHIGAM NATIONAL PARK	JAMMU AND KASHMIR
J&K/N/HEM	HEMIS HIGH ALTITUDE NATIONAL PARK	JAMMU AND KASHMIR
J&K/N/KIS	KISHTWAR NATIONAL PARK	JAMMU AND KASHMIR
KAR/N/BAN	BANDIPUR NATIONAL PARK	KARNATAKA
KAR/N/BANN	BANNERGHATTA NATIONAL PARK	KARNATAKA
KAR/N/NAG	NAGARHOLE NATIONAL PARK	KARNATAKA
KER/N/ERA	ERAVIKULAM NATIONAL PARK	KERALA
KER/N/PER	PERIYAR NATIONAL PARK	KERALA
KER/N/SIL	SILENT VALLEY NATIONAL PARK	KERALA
MAH/N/NAW	NAWEGAON NATIONAL PARK	MAHARASHTRA
MAH/N/PEN	PENCH NATIONAL PARK	MAHARASHTRA
MAH/N/SAN	SANJAY GANDHI NATIONAL PARK	MAHARASHTRA
MAH/N/TAD	TADOBA NATIONAL PARK	MAHARASHTRA
MAN/N/KEI	KEIBUL LAMJAO NATIONAL PARK	MANITRUP
MANINISTR	SIRUY NATIONAL PARK	MANIPUR
MP/N/BAN	BANDHAWGARH NATIONAL PARK	MADHYA PRADESH
MP/N/FUS	FUSSIL NATIONAL PARA	MADHYA PRADESH
PEP/N/IND	INDRAVATI NATIONAL PARA	MADHYA PRADESH
MP/N/KAN	KANHA NATIONAL PARK	MADITYA PRADESH
MP/N/KANG	KANGER GRATI NATIONAL PARK	MALMYA PRADESH
ME/N/MAD	MADRAY NATIONAL PARK	MADHYA PRADESH
MP/N/PAN	PANNA NATIONAL PARK	MADHYA PRADESH
MP/N/PEN	PENCH NATIONAL PARK	MADHYA PRADESH
MD/N/SAT	SANGAT NATIONAL PAR	MADUVA DDADDOU
MP/N/VAN	DACHIGAN NATIONAL PARK HEMIS HIGH ALTITUDE NATIONAL PARK KISHTWAR NATIONAL PARK BANDIPUR NATIONAL PARK BANDIPUR NATIONAL PARK BANNERGHATTA NATIONAL PARK NAGARHOLE NATIONAL PARK ERAVIKULAM NATIONAL PARK SILENT VALLEY NATIONAL PARK SILENT VALLEY NATIONAL PARK NAWEGAON NATIONAL PARK SANJAY GANDHI NATIONAL PARK SANJAY GANDHI NATIONAL PARK TADOBA NATIONAL PARK SINOY NATIONAL PARK KEIBUL LAMJAO NATIONAL PARK SIROY NATIONAL PARK BANDHAVGARH NATIONAL PARK FOSSIL NATIONAL PARK KANHA NATIONAL PARK KANGER GHATI NATIONAL PARK KANGER GHATI NATIONAL PARK MADHAV NATIONAL PARK PENCH NATIONAL PARK SANJAY NATIONAL PARK SANJAY NATIONAL PARK SANJAY NATIONAL PARK SANJAY NATIONAL PARK SIMLIPAL NATIONAL PARK VAN VIHAR NATIONAL PARK SIMLIPAL NATIONAL PARK KEOLADEO GHANA NATIONAL PARK RANTHAMEHORE NATIONAL PARK	MADINA PRADESH
ORT/N/STM	SIMLIPAL NATIONAL PARK	ORTSSA
RAJ/N/DES	DESERT NATIONAL PARK	RAJASTHAN
RAJ/N/KEO	KEOLADEO GHANA NATTONAL PARK	RAIASTHAN
RAJ/N/RAN	RANTHAMEHORE NATIONAL PARK	RAJASTHAN
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# CODE NAME OF THE PARK

## STATE/UNION TERRITORY

RAJ/N/SAR	SARISKA NATIONAL PARK	RAJASTHAN
SIK/N/KHA	KHANGCHENDZONGA NATIONAL PARK	SIKKIM
TN/N/GUI	GUINDY NATIONAL PARK	TAMIL NADU
UP/N/COR	CORBETT NATIONAL PARK	UTTAR PRADESH
UP/N/DUD	DUDHWA NATIONAL PARK	UTTAR PRADESH
UP/N/NAN	NANDA DEVI NATIONAL PARK	UTTAR PRADESH
UP/N/VAL	VALLEY OF FLOWERS NATIONAL PARK	UTTAR PRADESH
WB/N/SUN	SUNDERBAN NATIONAL PARK	WEST BENGAL

#### Water Resources

CODE	PERENNIAL WATER RESOURCES (ARTIFICIAL AND NATURAL)	NON-PERENNIAL WATER RESOURCES (ARTIFICIAL AND NATURAL)
A&N/N/MAR	Natural water hole-1	đ.
A&N/N/MID	Natural water hole-1	
A&N/N/MOU	Dugout well-1 Several perennial streams	
&N/N/NOR	Natural water hole-1	
A&N//SAD	Several perennial streams	Man-made water hole-1
A&N/N/SOU	Natural lake-1	
ARU/N/NAM	Natural lake-4 Natural water hole-1 Streams & Springs	
GOA/N/BHA	Streams-7	Artificial tank-1 Streams-2
GUJ/N/BAN	Streams-1	Artificial tank-1
GUJ/N/GIR	Artificial tank-18 Streams-6 Man made water hole-75 Irrigation dams-4	Artificial tank-7
GUJ/N/MAR	The question was reported to	be irrelevant
GUJ/N/VEL		Man made water hole-8 Streams-1
HP/N/GRE	Rivers - 3 several springs and streams	
HP/N/PIN	Streams-12	
J&K/N/DAC	Natural lake-1 Streams & Springs	Man made water hole
J&K/N/HEM	Several perennial Streams and Springs	

- CODE PERENNIAL WATER RESOURCES (ARTIFICIAL AND NATURAL)
- NON-PERENNIAL WATER RESOURCES (ARTIFICIAL AND NATURAL)

Artificial tank-15

Artificial tank-1

Streams-3

- J&K/N/KIS Natural lake-10 Man made water hole-99 Streams-8 River-1 Several natural water holes
- KAR/N/BAN
   Natural lake-2
   Artificial tank-1

   Springs-2
   Man made water hole-20

   Borewell-6
   Pick ups-14

   Natural water hole-50
   Springs-5

   Streams-1
   Natural water hole-50
- KAR/N/BANN Artificial tank-20 Natural lake-5 Man made water hole-2
- KAR/N/NAG Man made water hole-10 Natural water hole-22 Streams-16 Reservoirs-2 Rivers-4
- KER/N/ERA Artificial tank-1 criss-crossed with small streams
- KER/N/PER Man made water hole-1 Stream-1 Dam reservoir
- KER/N/SIL Natural lake-2 Natural water hole-40-60 Natural water hole-10-15 Stream-4-6
- MAH/N/NAW Man made water hole-1 Natural water hole-25
- MAH/N/PEN Man made water hole-12 Springs-9 Anicut-2
- MAH/N/SAN Artificial tank-2 Natural water hole-30 Streams-5
- AH/N/TAD Artificial tank-1 Artificial tank-2 Natural water hole-7 Man made water hole-2 Streams-1 Streams-5

CODE	PERENNIAL WATER RESOURCES (ARTIFICIAL AND NATURAL)	NON-PERENNIAL WATER RESOURCES (ARTIFICIAL AND NATURAL)
MAN/N/KEI	Natural water hole-25	Man made water hole-5 Natural water hole-4
MAN/N/SIR	No information was given	
MP/N/BAN	Artificial tank-7 Man made water hole-2 Natural water hole-3 Streams-5	Artificial tank-2 Many Streams
MP/N/FOS	No information was given	
MP/N/IND	Artificial tank-6 Man made water hole-2 Streams-16	
MP/N/KAN	Artificial tank-27 Man made water hole-16 Streams-14 Anicuts-14	Artificial tank-14 Man made water hole-69 Streams-24 Anicuts-8
MP/N/KANG	Streams-2 Springs-2	
MP/N/MAD	Artificial tank-2 Man made water hole-5 Natural water hole-10 Streams-8 Springs-6	
MP/N/PAN	Natural water hole-10 Streams-1 Water falls-2 Reservoir-3 Springs-104	Natural water hole-2
MP/N/PEN	Artificial tank-1 Natural water hole-2 Well-1 Pench river-1	Artificial tank-1 Natural water hole-6 Streams-8
MP/N/SAN	Streams-13 Springs-5	Artificial tank-1 Many Streams
MP/N/SAT	Artificial tank-1 Man made water holes and Anicuts-18 Natural water hole-100 Streams-25 Water reservoir-2 Hand pumps & water hole-2 Springs-3	Streams-70

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CODE	PERENNIAL WATER RESOURCES (ARTIFICIAL AND NATURAL)	NON-PERENNIAL WATER RESOURCES (ARTIFICIAL AND NATURAL)
MP/N/VAN	Natural lake-1 Man made water hole-1	
ORI/N/SIM	Man made water hole-1 Natural water hole-1 Streams-1 Springs-1	
RAJ/N/DES	Artificial tank-16	Man made water hole-72
RAJ/N/KEO	Natural lake-1 Well-2	Natural lake-1
RAJ/N/RAN	Artificial tank-4 Natural lake-3 Natural water hole-70 Springs-7	¥),
RAJ/N/SAR	Natural water hole-16 Streams-16	Artificial tank-3 Natural lake-9 Man made water hole-8 Natural water hole-37 Streams-2 Tanks-2 Wells-6
SIK/N/KHA	Natural lake-4 Streams-18 Glaciers-6	
TN/N/GUI		Natural lake-4 Man made water hole-20
UP/N/COR	Pucca water holes-9 Water holes with Polythene sheets-13 Dug outs-17 Bundh-2	
UP/DUD	Man made water hole-25 Natural water hole-15 Streams-3	Natural water hole-20 Streams-5
UP/N/NAN	Several streams	
UP/N/VAL	No information was given	
WB/N/SUN	Artificial tank-3	

Annexure - III

List of Mammals Found in the Parks of India

<ul> <li>A&amp;W/N/MAB Andaman Wild Pig, Chital</li> <li>A&amp;W/N/MDD Chital, Civet Cat</li> <li>A&amp;N/N/MOU Chital, Barking Deer, Civet Cat, Andaman Wild Pig, Leaf Bat</li> <li>A&amp;W/N/NCR Chital, Andaman Wild Pig</li> <li>A&amp;W/N/NCR Chital, Andaman Wild Pig</li> <li>A&amp;W/N/SCU Large Rat</li> <li>ARU/N/NAM Tiger, Musk Deer, Wild Buffalo, Clouded Leopard, Fishing Cat, Hoolock Gibbon, Slow Loris, Snoy Lecpard, Mishmi Takin, Panther</li> <li>GOA/N/BHA Leopard, Indian Wild Dog, Jackal, Jungle Cat, Gaur, Chital, Sambar, Indian Chevrotain, Sloth Bear, Indian Wild Boar, Barking Deer, Hyena, Jackal, Indian Porcupine, Grey Langur, Falm Civet, Barking Deer, Hyena, Jackal, Indian Porcupine, Monker, Wild Fowl</li> <li>GUJ/N/BAN Panther, Chital, Sambar, Indian Wild Boar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/GIR Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Porcupine, Monker, Winle, Bolphin, Dugong</li> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/ORE Hex, Leopard, Musk Deer, Tahr, Bbaral</li> <li>HP/N/FIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Soow Wolf</li> <li>J&amp;K/N/AC Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Henalayan Marmot, Himalayan Hangayan Black Bear Common Otter, Himalayan Blue Sheer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Marmot, Minalayan Black Bear, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Weasel, Himalayan Marmot, Jackal Bara, Wolf, Picca, Himalayan Machage, Bara, Wolf, Of, Smal, Shawa Weasel, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Pox, Leopard Cat, Himalay</li></ul>	CODE	LIST OF MAMMALS
<ul> <li>A&amp;N/N/MOU</li> <li>Chital, Barking Deer, Civet Cat, Andaman Wild Pig, Leaf Bat</li> <li>A&amp;N/N/NCR</li> <li>Chital, Andaman Wild Pig</li> <li>A&amp;N/N/SAD</li> <li>Chital, Andaman Wild Pig</li> <li>AAN/N/SAD</li> <li>Chital, Andaman Wild Pig</li> <li>AAN/N/SAD</li> <li>Chital, Andaman Wild Pig</li> <li>AAN/N/SAD</li> <li>Chital, Andaman Wild Pig</li> <li>AAN/N/NAM</li> <li>Tigger, Musk Deer, Wild Buffalo, Clouded Leopard, Fishing</li> <li>Cat, Hoolock Gibbon, Slow Loris, Snow Leopard, Mishmi</li> <li>Takin, Panther</li> <li>GOA/N/BHA</li> <li>Leopard, Indian Wild Dog, Jackal, Jungle Cat, Gaur, Chital, Sambar, Indian Chevrotain, Sloth Bear, Indian Wild Boar, Monitor Lizzrd, Indian Porcupine, Grey Langur, Palm Civet, Barking Deer, Elephant</li> <li>GUJ/N/BAN</li> <li>Panther, Chital, Sambar, Indian Wild Boar, Hare, Barking Deer, Hyena, Jackal, Indian Porcupine, Monkey, Wild Foel</li> <li>GUJ/N/GIR</li> <li>Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai,</li> <li>Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/MAR</li> <li>Whale, Bolphin, Dugong</li> <li>GUJ/N/VEE</li> <li>Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE</li> <li>Hex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/GRE</li> <li>Hex, Drown Bear, Himalayan Black Bear Common Uter, Himalayan Marmot, Himalayan Black Bear Common Otter, Red Fox, Brown Bear, Himalayan Black Bear, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM</li> <li>Himalayan Brown Bear, Goral, Snow Leopard, Jackal</li> <li>KAR/N/BAN</li> <li>Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN</li> <li>Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Mentur</li> <li>Kark/N/MAG</li> <li>Kar, Shapu, Ba</li></ul>	A&N/N/MAR	Andaman Wild Pig, Chital
<ul> <li>Bat</li> <li>AAN/N/NCR</li> <li>Chital, Andaman Wild Pig</li> <li>AAN/N/SAD</li> <li>Chital, Andaman Wild Pig</li> <li>AAN/N/SAD</li> <li>Large Rat</li> <li>ARU/N/NAM</li> <li>Tiger, Musk Deer, Wild Buffalo, Clouded Leopard, Fishing</li> <li>Cat, Hoolock Gibbon, Slow Loris, Snow Leopard, Mishni</li> <li>Takin, Panther</li> <li>GOA/N/EHA</li> <li>Leopard, Indian Wild Dog, Jackal, Jungle Cat, Gaur, Chital,</li> <li>Sambar, Indian Chevrotain, Sloth Bear, Indian Wild Boar,</li> <li>Monitor Lizard, Indian Porcupine, Grey Langur, Palm Civet,</li> <li>Barking Deer, Elephant</li> <li>GUJ/N/BAN</li> <li>Panther, Chital, Sambar, Indian Wild Boar, Hare, Barking</li> <li>Deer, Hyena, Jackal, Indian Porcupine, Monkey, Wild Fowl</li> <li>GUJ/N/GIR</li> <li>Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai,</li> <li>Common Langur, Indian Wild Boar, Fourhorned Antelope,</li> <li>Black Naped Hare</li> <li>Black Naped Hare</li> <li>GUJ/N/VEL</li> <li>Jackal, Jungle Cat, Nilgai, Indian Pox, Indian Porcupine,</li> <li>Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE</li> <li>Hex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown</li> <li>Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/FIN</li> <li>Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard,</li> <li>Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow</li> <li>Throated Marten</li> <li>J&amp;K/N/HAM</li> <li>Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare,</li> <li>Shapu, Ebaral, Wolf, Pica, Himalayan Red Fox, Himalayan</li> <li>Waska Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Musk Deer, Indian Wild Boar, Snow Leopard, Snow</li> <li>KaR/N/BM</li> <li>Tiger, Wild Buffalo, Gaur, Indian Wild Boar, Himalayan Weasel, Himalayan Marmot, Jackal, Leopard, Snow</li> <li>Fox, Leopard Cat, Himalayan Black Bear, Kashmir Stag,</li> <li>Himalayan Brown Bear, Greal, Snow Leopard, Leopard, Snow</li> <li>Fox, Leopard Cat, Himalayan Black Bear, Kashmir Stag,</li> <li>Himalayan Brown Bear, Greal, Snow Leopard, Jeopard, Snow</li> <li>Fox, Leopard</li></ul>	A&N/N/MID	Chital, Civet Cat
<ul> <li>AAN/N/SGD Ghital, Andaman Wild Pig</li> <li>AAN/N/SGU Large Rat</li> <li>ARU/N/NAM Tiger, Musk Deer, Wild Buffalo, Clouded Leopard, Fishing Cat, Hoolock Gibbon, Slow Loris, Snow Leopard, Mishmi Takin, Panther</li> <li>GOA/N/EHA Leopard, Indian Wild Dog, Jackal, Jungle Cat, Gaur, Chital, Sambar, Indian Chevrotain, SLoth Bear, Indian Wild Boar, Monitor Lizard, Indian Porcupine, Grey Langur, Palm Civet, Barking Deer, Elephant</li> <li>GUJ/N/BAN Panther, Chital, Sambar, Indian Wild Boar, Hare, Barking Deer, Hyena, Jackal, Indian Porcupine, Monkey, Wild Fowl Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/MAR Whale, Bolphin, Dugong</li> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Forcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/PIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Snow Wolf Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear, Common Otter, Himalayan Marmot, Himalayan Black Bear, Common Otter, Himalayan Marmot, Himalayan Black Bear, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir Stag, Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Husklayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Boar, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN Tiger, Wild Boar, Indian Wild Dog, Sloth Bear, Indian Civet, Elephant, Panther, Indian Wild Boar, Sambar, Indian Wild Boar, Samba</li></ul>	A&N/N/MOU	
<ul> <li>AMN/N/SOU Large Rat</li> <li>ARU/N/NAM Tiger, Musk Deer, Wild Buffalo, Clouded Leopard, Fishing (Cat, Hoolock Gibbon, Slow Loris, Snow Leopard, Mishani Takin, Panther</li> <li>GOA/N/BHA Leopard, Indian Wild Dog, Jackal, Jungle Cat, Gaur, Chital, Sambar, Indian Chevrotain, Sloth Bear, Indian Wild Boar, Monitor Lizard, Indian Porcupine, Grey Langur, Palm Civet, Barking Deer, Elephant</li> <li>GUJ/N/BAN Panther, Chital, Sambar, Indian Wild Boar, Hare, Barking Deer, Hyena, Jackal, Indian Porcupine, Monkey, Wild Fowl</li> <li>GUJ/N/GIR Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/MAR Whale, Bolphin, Dugong</li> <li>GUJ/N/ME Uhae, Dolphin, Dugong</li> <li>GUJ/N/VEE Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/CRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/FIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Soow Wolf</li> <li>JEK/N/DAC Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Ibee, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Bharai, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot, Himalayan Black Bear, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Bharai, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Boar, Indian Wild Boar, Shawir-Stag, Himalayan Brown Bear, Chral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Klephant, Indian Porcupine, Panther</li> <li>KAR/N/NAG Gaur, Tinger, Milgini Tahr, Sambar, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flyring Squirrel</li> <li>KER/N/EM Elephan</li></ul>	A&N/N/NOR	Chital, Andaman Wild Pig
<ul> <li>ARU/N/NAM Tiger, Musk Deer, Wild Buffalo, Clouded Leopard, Fishing Cat, Hoolock Gibbon, Slow Loris, Snow Leopard, Mishmi Takin, Panther</li> <li>GOA/N/BHA Leopard, Indian Wild Dog, Jackal, Jungle Cat, Gaur, Chital, Sambar, Indian Chevrotain, Sloth Bear, Indian Wild Boar, Monitor Lizard, Indian Porcupine, Grey Langur, Palm Civet, Barking Deer, Elephant Porcupine, Monkey, Wild Fowl</li> <li>GUJ/N/BAN Panther, Chital, Sambar, Indian Porcupine, Monkey, Wild Fowl</li> <li>GUJ/N/GIR Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/MAR Whale, Bolphin, Dugong</li> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/PIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Snow Wolf</li> <li>Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Black Bear, Common Otter, Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Bharal, Wolf, Pica, Himalayan Red Fox, Himalayan Wassel, Himalayan Marmot, Jackal Bear, Kashmir Stag, Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir, Stag, Himalayan Brown Bear, Goral, Snow Leopard, Jeopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir, Stag, Himalayan Brown Bear, Indian Wild Dog, Elephant, Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque, Barking Deer, Elephant, Gaur, Chital</li></ul>	A&N/N/SAD	Chital, Andaman Wild Pig
<ul> <li>Cat, Hoolock Gibbon, Slow Loris, Snow Leopard, Mishmi Takin, Panther</li> <li>GOA/N/EHA</li> <li>Leopard, Indian Wild Dog, Jackal, Jungle Cat, Gaur, Chital, Sambar, Indian Chevrotain, Sloth Bear, Indian Wild Boar, Monitor Lizard, Indian Porcupine, Grey Langur, Palm Civet, Barking Deer, Elephant</li> <li>GUJ/N/EAN</li> <li>Panther, Chital, Sambar, Indian Wild Boar, Hare, Barking Deer, Hyena, Jackal, Indian Porcupine, Monkey, Wild Fowl</li> <li>GUJ/N/GIR</li> <li>Lion, Pangolin, Panther, Chital, Samber, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/VEL</li> <li>Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE</li> <li>Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/FIN</li> <li>Himalayan Blue Sheep, Ibex, Nimalayan Fox, Snow Leopard, Snow Wolf</li> <li>J&amp;K/N/DAC</li> <li>Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Mouse Hare, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM</li> <li>Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shogu, Bharal, Wolf, Pica, Himalayan Black Bear, Kashmir-Stag, Himalayan Marmot, Himalayan Black Bear, Kashmir-Stag, Himalayan Marmot, Himalayan Black Bear, Kashmir-Stag, Himalayan Marmot, Himalayan Black Bear, Kashmir-Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN</li> <li>Musk Deer, Indian Chen, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN</li> <li>KaR/N/MaG</li> <li>Guar, Tiger, Milgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Mild Boar, Barking Beer, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N</li></ul>	A&N/N/SOU	Large Rat
<ul> <li>Sambar, Indian Chevrotain, Sloth Bear, Indian Wild Boar, Monitor Lizard, Indian Porcupine, Grey Langur, Palm Civet, Barking Deer, Elephant</li> <li>GUJ/N/BAN Panther, Chital, Sambar, Indian Wild Boar, Hare, Barking Deer, Hyena, Jackal, Indian Porcupine, Monkey, Wild Fowl</li> <li>GUJ/N/GIR Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/MAR Whale, Bolphin, Dugong</li> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/FIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Snow Wolf</li> <li>Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Black Bear Common Otter, Himalayan Narmot, Himalayan Black Bear Common Otter, Bapu, Bharal, Wolf, Pica, Himalayan Red Fox, Himalayan Waasel, Himalayan Snow Leopard, Alpine Woody Hare, Shapu, Bharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/HEM Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir-Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir-Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BANN Indian Wild Boar, Sambar, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KBR/N/ERA</li> <li>Kelephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripeneeked Mongoose, Otter, Rudy Mongoose, Jackal.</li> </ul>	ARU/N/NAM	Cat, Hoolock Gibbon, Slow Loris, Snow Leopard, Mishmi
<ul> <li>GUJ/N/BAN Panther, Chital, Sambar, Indian Wild Boar, Hare, Barking Deer, Hyena, Jackal, Indian Porcupine, Monkey, Wild Fowl Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/MAR Whale, Bolphin, Dugong</li> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/FIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Snow Wolf</li> <li>J&amp;K/N/DAC Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear, Common Otter, Himalayan Marmot, Himalayan Black Bear, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Bharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/KIS Musk Deer, Marmot Jacka Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN Indian Vild Boar, Indian Civet, Elephant, Porcupine, Barking Deer, Flephant, Gaur, Chital</li> <li>KAR/N/MAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Boar, Subar, Indian Wild Boar, Subar, Super, Subar, Indian Wild Boar, Indian Wild Boar, Sambar, Jackal, Sambar, Super, Shigri Tahr, Sambar, Jackal, Sambar, Super, Shigri Marten, Super, Sambar, Indian Wild Boar, Indian Wild Boar, Sambar, Super, Sambar, Super, Sambar, Indian Wild Boar, Super, Sambar, Sambar, Super, Sambar, Sambar, Sambar, Super, Sambar, Super, Sambar, Super, Sambar, Super, Sambar, Super, Sambar, Suphant, Sambar, Super, Sambar, Super, Samba</li></ul>	GOA/N/BHA	Sambar, Indian Chevrotain, Sloth Bear, Indian Wild Boar, Monitor Lizard, Indian Porcupine, Grey Langur, Palm Civet,
<ul> <li>GUJ/N/GIR Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope, Black Naped Hare</li> <li>GUJ/N/MAR Whale, Bolphin, Dugong</li> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/PIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Snow Wolf</li> <li>J&amp;K/N/DAC Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Mouse Hare, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Eharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/KIS Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/MAM Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KAR/N/EAA</li> <li>KAR/N/MAG Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Bog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Singurel, Elephant, Squirrel, Flying Squirrel</li> <li>KBR/N/EAA</li> <li>Kapart, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Singiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal,</li> </ul>	GUJ/N/BAN	Panther, Chital, Sambar, Indian Wild Boar, Hare, Barking
<ul> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/PIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Snow Wolf</li> <li>J&amp;K/N/DAC Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Mouse Hare, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Eharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/KIS Musk Deer, Markhor, Himalayan Black Bear, Kashmir-Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir-Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN Indian Wild Boar, Enghant, Gaur, Chital</li> <li>KAR/N/MAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KBR/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal,</li> </ul>	GUJ/N/GIR	Lion, Pangolin, Panther, Chital, Sambar, Hyena, Nilgai, Common Langur, Indian Wild Boar, Fourhorned Antelope,
<ul> <li>GUJ/N/VEL Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine, Desert Cat, Mongoose, Hare, Palm Squirrel</li> <li>HP/N/GRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/PIN Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard, Snow Wolf</li> <li>J&amp;K/N/DAC Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Mouse Hare, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Eharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/KIS Musk Deer, Markhor, Himalayan Black Bear, Kashmir-Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Black Bear, Kashmir-Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN Indian Wild Boar, Enghant, Gaur, Chital</li> <li>KAR/N/MAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KBR/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal,</li> </ul>	GUJ/N/MAR	Whale, Bolphin, Dugong
<ul> <li>HP/N/GRE Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown Bear, Leopard, Musk Deer, Tahr, Bharal</li> <li>HP/N/PIN Himalayan Blue Sheep, Ibex, Mimalayan Fox, Snow Leopard, Snow Wolf</li> <li>J&amp;K/N/DAC Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Mouse Hare, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Bharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/KIS Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque, Barking Deer, Elephant, Gaur, Chital</li> <li>KAR/N/NAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongocse, Jackal.</li> </ul>	GUJ/N/VEL	Jackal, Jungle Cat, Nilgai, Indian Fox, Indian Porcupine,
<ul> <li>HP/N/PIN Himalayan Blue Sheep, Ibex, Himalayan Fox, Snow Leopard, Snow Wolf</li> <li>J&amp;K/N/DAC Common Langur, Leopard Cat, Snow Leopard, Jackal, Leopard, Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Mouse Hare, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Bharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/KIS Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque, Barking Deer, Elephant, Gaur, Chital</li> <li>KAR/N/NAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongcose, Jackal.</li> </ul>	HP/N/GRE	Ibex, Goral, Black Bear, Common Langur, Wolf, Serow, Brown
<ul> <li>Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Mouse Hare, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten</li> <li>J&amp;K/N/HEM Himalayan Ibex, Nayan, Snow Leopard, Alpine Woody Hare, Shapu, Eharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/KIS Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BANN Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque, Barking Deer, Elephant, Gaur, Chital</li> <li>KAR/N/NAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongcose, Jackal.</li> </ul>	HP/N/PIN	Himalayan Blue Sheep, Ibex, Kimalayan Fox, Snow Leopard,
<ul> <li>Shapu, Bharal, Wolf, Pica, Himalayan Red Fox, Himalayan Weasel, Himalayan Marmot</li> <li>J&amp;K/N/KIS Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat. Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BAN Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque, Barking Deer, Elephant, Gaur, Chital</li> <li>KAR/N/NAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongcose, Jackal.</li> </ul>	J&K/N/DAC	Red Fox, Brown Bear, Himalayan Black Bear Common Otter, Himalayan Marmot, Himalayan Mouse Hare, Serow, Kashmir Stag, Musk Deer, Indian Wild Boar, Himalayan Yellow Throated Marten
<ul> <li>J&amp;K/N/KIS Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snow Leopard, Leopard, Snow Fox, Leopard Cat, Himalayan Marmot, Jackal</li> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BANN Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque, Barking Deer, Elephant, Gaur, Chital</li> <li>KAR/N/NAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongcose, Jackal.</li> </ul>	J&K/N/HEM	Shapu, Eharal, Wolf, Pica, Himalayan Red Fox, Himalayan
<ul> <li>KAR/N/BAN Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant, Indian Porcupine, Panther</li> <li>KAR/N/BANN Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque, Barking Deer, Elephant, Gaur, Chital</li> <li>KAR/N/NAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongcose, Jackal.</li> </ul>	J&K/N/KIS	Musk Deer, Markhor, Himalayan Black Bear, Kashmir Stag, Himalayan Brown Bear, Goral, Snów Leopard, Leopard, Snow
<ul> <li>KAR/N/BANN Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque, Barking Deer, Elephant, Gaur, Chital</li> <li>KAR/N/NAG Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongocse, Jackal.</li> </ul>	KAR/N/BAN	Tiger, Wild Buffalo, Gaur, Indian Wild Dog, Elephant,
<ul> <li>KAR/N/NAG</li> <li>Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying Squirrel</li> <li>KER/N/ERA</li> <li>Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Beer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal.</li> </ul>	KAR/N/BANN	Indian Wild Boar, Indian Lion, Panther, Lion Tailed Macaque,
KER/N/ERA Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Deer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal.	KAR/N/NAG	Gaur, Tiger, Chital, Small Indian Civet, Elephant, Panther, Indian Wild Dog, Sloth Bear, Indian Wild Boar, Sambar, Indian Porcupine, Medium Giant Squirrel, Flying
	KER/N/ERA	Elephant, Tiger, Nilgiri Tahr, Sambar, Indian Wild Dog, Leopard, Gaur, Indian Wild Boar, Barking Beer, Nilgiri Marten, Stripenecked Mongoose, Otter, Ruddy Mongoose, Jackal.

KER/N/PER Elephant, Gaur, Sambar, Tiger KER/N/SIL No estimate carried out MAH/N/NAW Tiger, Panther, Sambar, Chital, Hyena, Fourhorned Antelope, Nilgai, Indian Wild Dog, Fishing Cat, Gaur Tiger, Panther, Sloth Bear, Sambar, Chital, Chinkara, MAH/N/PEN Barking Deer, Nilgai, Fourhorned Antelope MAH/N/SAN Fourhorned Antelope, Leopard, Common Langur, Common Fox, Jackal, Indian Wild Boar, Sambar, Mongoose MAH/N/TAD Tiger, Panther, Leopard Cat, Fourhorned Antelope, Pangolin, Mouse Deer, Sloth Bear, Gaur, Langur, Indian Wild Dog, Chital, Barking Deer, Nilgai, Sambar, Indian Wild Boar, Hyena MAN/N/KET Brow-antlered Deer, Hog-deer, Indian Wild Boar, Otter, Leopard Cat, Fishing Cat Clouded Leopard, Stump Tailed Macaque, Flying Squirrel MAN/N/SIR MP/N/BAN Tiger, Panther, Gaur, Chital, Sambar, Barking Deer MP/N/FOS No information was given MP/N/IND Tiger, Panther, Indian Wild Dog, Wolf, Chital, Jackal, Bear, Sambar, Barking Deer, Wild Buffalo, Gaur, Fourhorned Antelope, Nilgai, Mouse Deer, Indian Wild Boar, Langur, Rhesus Macaque, Hyena MP/N/KAN Chital, Sambar, Barking Deer, Barasingha , Nilgai, Fourhorned Antelope, Gaur, Indian Wild Boar, Sloth Bear, Hare, Indian Wild Dog, Hyena, Jackal, Jungle Cat, Mongoose, Langur, Blackbuck Tiger, Panther, Caracal, Wolf, Gaur, Langur, Barking Deer, MP/N/KANG Chital, Fourhorned Antelope, Hyena, Nilgai, Sambar, Indian Wild Boar, Indian Porcupine MP/N/MAD Chital, Fourhorned Antelope, Hyena, Indian Wild Dog, Nilgai, Indian Wild Boar, Panther, Sambar, Barking Deer, Chinkara, Pangolin, Blackbuck MP/N/PAN Tiger, Panther, Nilgai, Chinkara, Fourhorned Antelope, Chital, Sambar, Indian Wild Boar, Langur, Rhesus Macaque, Indian Wild Dog, Wolf, Sloth Bear, Hyena, Jackal, Indian Fox, Indian Porcupine MP/N/PEN Tiger, Panthor, Chital, Sambar, Fourhorned Antelope, Indian Wild Boar, Gaur, Indian Gazelle, Barking Deer, Sloth Bear, Indian Wild Dog, Wolf, Jackal, Hyena, Jungle Cat, Ratel, Indian Porcupine, Fox, Indian Hare, Rhesus Macaque, Hamman Langur MP/N/SAN Tigor, Panther, Jungle Cat, Wolf, Hyena, Jackal, Bear, Indian Wild Boar, Sambar, Nilgai, Chinkara, Fourhorned Antclope, Barking Deer, Chital, Mongoose, Rhesus Macaque, Indian Wild Dog, Fox, Common Civet, Hare, Common Langur, Indian Porcupine, Tree Shrew, Common Shrew MP/N/SAT Tiger, Hyena, Panther, Chital, Wild Cat, Fourhorned Antelope, Sambar, Giant Squirrel, Chinkara, Nilgai, Hare, Gaur, Barking Deer, Mongoose, Indian Wild Boar, Indian Wild Dog, Sloth Bear, Indian Porcupine MP/N/VAN Blackbuck, Chinkara, Fourhorned Antelope, Panther, Tiger Ratel, Hanuman Langur, Sloth Bear, Chital, Barking Deer, Nilgai, Sambar, Indian Wild Boar

CODE

LIST OF MAMMALS

#### CODE LIST OF MAMMALS

ORI/N/SIM Fourhorned Antelope, Mouse Deer, Elephant, Leopard, Pangolin, Sloth Bear, Tiger, Wolf, Bison, Indian Wild Dog, Barking Deer, Chital, Hyena, Sambar, Ratel, Indian Wild Boar, Civet, Common Fox, Giant Squirrel

Chinkara, Desert Cat, Desert Fox, Desert Hare, Mongoose, RAJ/N/DES Hedgehog

RAJ/N/KEO Fishing Cat, Blackbuck, Pangolin, Jackal, Chital, Hyena,

- Nilgai, Sambar, Indian Wild Boar, Otter, Toddy Cat Rhesus Macaque, Tiger, Leopard, Jungle Cat, Caracal, Mongoose, Small Indian Mongoose, Jackal, Indian Fox, RAJ/N/RAN Striped Hyena, Sloth Bear, Ratel, Indian Flying Fox, Indian False Vampire Bat, Common Yellow Bat, Five Striped Palm Squirrel, Indian Mole Rat, Indian Porcupine, Rufous Tailed Hare, Nilgai, Chinkara, Sambar, Chital, Indian Wild Boar
- RAJ/N/SAR Tiger, Indian Wild Boar, Rhesus Monkey, Panther, Jackal, Indian Porcupine, Sambar, Caracal, Jungle Cat, Nilgai, Civet, Mongoose, Hyena, Ratel, Fourhorned Antelope, Langur, Chital
- SIK/N/KHA Clouded Leopard, Himalayan Tahr, Tibetan Wolf, Leopard, Leopard Cat, Snow Leopard, Sloth Bear, Musk Deer, Bharal, Serow, Red Panda, Common Langur, Rhesus Macaque, Otter, Himalayan Black Bear
- 'TN/N/GUI Blackbuck, Chital

UP/N/COR Panther, Tiger, Hanuman Langur

- UP/N/DUD Blackbuck, Fishing Cat, Hispid Hare, Indian Elephant, Panther, Rhinoceros, Swamp Deer, Tiger, Sloth Bear, Sambar, Indian Porcupine, Indian Wild Boar, Barking Deer, Common Fox, Chital, Common Langur, Rhesus Macaque, Otter, Nilgai, Jacka1
- Snow Leopard, Musk Deer, Himalayan Brown Bear, Himalayan UP/N/NAN Black Bear, Bharal, Himalayan Tahr
- UP/N/VAL Snow Leopard, Bharal, Musk Deer, Himalayan Brown Bear, Himalayan Black Bear, Himalayan Tahr
- WB/N/SUN Tiger, Fishing Cat, Gangetic Dolphin

Annexure - IV

List of Reptiles Found in the Parks of India

CODE LIST OF REPTILES

A&N/N/MAR Salt Water Crocodile, Giant Leather Back Turtle, Green Sea Turtle, Olive Ridley Turtle, Water Monitor Lizard A&N/N/MID Green Sca Turtle, Water Monitor Lizard, Cobra, Rat Snake, Green Tree Snake, Andaman Big Gecko A&N/N/MOU Water Monitor Lizard Rat Snake, Green Trinket Snake A&N/N/NOR Andaman Water Monitor Lizard A&N/N/SAD A&N/N/SOU Water Monitor Lizard ARU/N/NAM King Cobra, Python, Flying Squirrel, Giant Squirrel GOA/N/BHA GUJ/N/BAN Crocodile, Agra Monitor Lizard GUJ/N/GIR Green Sea Turtle, Leather Back Sea Turtle, Black Bonded GUJ/N/MAR Sea Snake, Saw Scaled Viper GUJ/N/VEL Rat Snake, Saw Scaled Viper, Cobra, Krait, Red Sand Boa, Wolf Snake, Monitor Lizard HP/N/GRE HP/N/PIN J&K/N/DAC J&K/N/HEM J&K/N/KIS KAR/N/BAN Crocodile, Gharial, Python, Monitor Lizard KAR/N/BANN

Python

KAR/N/NAG KER/N/ERA KER/N/PER KER/N/SIL MAH/N/NAW

MAĤ/N/PEN MAH/N/SAN MAH/N/TAD

MAN/N/KEI MAN/N/SIR MP/N/BAN MP/N/FOS MP/N/IND

MP/N/KAN

MP/N/MAD

MP/N/KANG

Crocodile, Python, Large Bengal Monitor Lizard

Python Python Crocodile, Python, Lizard

MP/N/PAN Gharial, Marsh Crocodile, Python, Other Snakes MP/N/PEN MP/N/SAN Cobra, Viper, Krait, Python, Tortoise MP/N/SAT Python, Lizard MP/N/VAN Monitor Lizard, Bengal Monitor Lizard, Python

	CODE	LIST C	OF REPTILES
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ORI/N/SIM	Python, Marsh Crocodile, Tortoise
RAJ/N/DES	Monitor Lizard, Spiny Tailed Lizard, Snakes
RAJ/N/KEO	Agra Monitor Lizard, Water Lizard, Python
RAJ/N/RAN	
RAJ/N/SAR	
SIK/N/KHA	
TN/N/GUI	
UP/N/COR	Gharial, King Cobra
UP/N/DUD	Crocodile, Python, Cobra, Krait
UP/N/NAN	
UP/N/VAL	
WB/N/SUN	Salt Water Crocodile, Salt Water Lizard, Olive Ridley,
	Water Monitor Lizard

Annexure - V

List of Birds Found in the Parks of India

CODE LIST OF BIRDS

A&N/N/MAR Andaman Lesser Whistling Teal, Andaman Green Imperial Pigeon, Andaman Large Parakeet, White Bellied Sea Eagle, Andaman Emerald Dove

A&N/N/MID Emerald Dove, Grey Heron, Reef Heron, Koel, Red Breasted Parakeet, Pariah Kite, Serpent Eagle, Andaman Green Imperial Pigeon, Andaman Wood Pigeon, Large Egret, Alexandrine Parakeet

A&N/N/NOR Red Breasted Parakeet, Pariah Kite, White Breasted Water Hen, Hill Myna, Crested Serpent Eagle, Green Imperial Pigeon, White Bellied Sea Eagle Reef Heron, Koel, Common Myna, Andaman Cuckoo Dove, Emerald Dove, Shikra, Whimbrel, Andaman Drongo

A&N/N/SAD Andaman Hill Myna, Andaman Large Parakeet, Andaman Imperial Pigeon

A&N/N/SOU Large Andaman Parakeet, Andaman Green Imperial Pigeon, Andaman Wood Pigeon, Andaman Hill Myna, Emerald Dove, Andaman Koel, Black Naped Kingfisher ARU/N/NAM Great Indian Hornbill, Cheer Pheasant

GUJ/N/BAN Peafowl, Golden Oriole, Wood Packer, Partridge, Green Pigeon, Paradise Fly Catcher, Crow Pheasant, Drongo GUJ/N/GIR Peafowl

GUJ/N/MAR GUJ/N/VEL HP/N/GRE Chir Pheasant, Kalij Pheasant, Western Tragopan, Koklas Pheasant, Monal Pheasant

HP/N/PIN Himalayan Snow Cock, Chukor Partridge, Snow Partridge, Hill Pigeon, Griffon, Kestrel, Blue Rock Pigeon, Snow Pigeon, Alpine Chough, House Sparrow, Snow Finches, Rose Finches, Larks, Wagtail, Thrush, Redstarts, Martins, Swifts, Crow, Red Billed Chough, Bearded Vulture

J&K/N/HEM Himalayan Snow Cock, Chukor, Golden Eagle, Bearded Vulture J&K/N/KIS Wood Pecker, Mynas, Orioles, Bulbul, Monal Pheasant, Babbler, Jungle Fowl KAR/N/BAN

KAR/N/BANN Peafowl, Red Jungle Fowl, Owl, Grey Partridge, Pelicans, Pintail Duck, Stork KAR/N/NAG

KER/N/ERA KER/N/PER KER/N/SIL MAH/N/NAW MAH/N/PEN MAH/N/SAN MAH/N/TAD

Peafowl

J&K/N/DAC

GOA/N/BHA

Hawk, Peafowl, Pheasant, Osprey

#### CODE LIST OF BIRDS

MAN/N/KEI MAN/N/SIR MP/N/BAN MP/N/FOS MP/N/KAN MP/N/KAN MP/N/KANG MP/N/PAN MP/N/PAN MP/N/PAN MP/N/PAN MP/N/SAN

Duck, Hawks Great Indian Hornbill, Blyth's Tragopan

Jungle Fowl

Peafowl, Duck, Jungle Fowl, Grouse, Pigeon Owls, Ducks Peafowl

Peafowl, Myna, Jungle Myna, Collared Dove, Koel, Copper Smith, Little Ringed Plover, Red Wattled Lapwing, Large Egret, Little Cormorant, Black Ibis, Jungle Bush Quail, White Spotted Fantail, Black Headed Babbler, Pied Bush Chat, Yellow Backed Sunbird, Black Drongo, Barred Jungle Owlet, White Eyed Buzzard, Pallas' Fishing Eagle, Scavenger Vulture, White Peacock, Brahminy Myna, Green Pigeon, Spotted Dove, Coucal, Green Barbet, Spurwinged Plover. Yellow Wattled Lapwing, Grey Heron, Painted Stork, Crested Tree Swift, Great Stone Plover, Grey Heron, Painted Stork, White Backed Vulture, Red Jungle Fowl, Blue Tailed Bee eater, Golden Oriole, Adjutant Stork, Common Quail, White Breasted Kingfisher, Black Partridge, Laughing Thrush, Magpie Robin, Stone Chat, Red Vented Bulbul, Chestnut Headed Bee Eater, Purple Rumped Sunbird, White Bellied Drongo, Collared Scup Owl, Short Toed Eagle, Pariah Kite, Pied Myna, Blue Rock Pigeon, Indian Pitta, Night Jar, Fairy Blue Bird, White Wagtail, Indian Shag, Pond Heron, White Necked Stork, Common Kingfisher, Hawk Cuckoo, Common Babbler, Indian Robin, House Swift, Common Grey Hornbill. Common Crow, Indian Great Horned Owl, Crested Serpent Eagle, Brahminy Kite, Rose Ringed Parakeet, Large Indian Parakeet, Blossom Headed Parakeet, Indian Cuckoo, Indian Roller, Tailor Bird, Large Pied Wagtail, Cattle Egret, Night Heron, Dusky Crag Martin, Jungle Babbler, Grey Tit, Palm Swift, Stone Curlew, Purple Sunbird, Tree Pie, Jungle Crow, Barn Owl, Crested Hawk Eagle, King Vulture Owls, Myna, Spurfowl, Fly Catchers, Sunbird, Parakeet, Mornbills, Partridge, Pheasant, Munia, Babbler, peafowl, Night Jar, Tits, Thrush, Trespie, Vulture, Magpie Peafowl Peafowl, Hornbill Great Indian Bustard, Doves, Larks, Houbara Bustard, Falcons, Partridge, Peafowl, Hawks, Vultures, Grouse, Drongo 北

RAJ/N/KEO

MP/N/SAT

MP/N/VAN

ORI/N/SIM

RAJ/N/DES

Finches, Common Peafowl, Siberian White Crane, Barbet, Granes, Ducks

\* Although the total number of bird species found in Keoladeo Ghama (RAJ) is certainly much greater than the list given here, this was the list which was sent to us in guestionnaire = I. RAJ/N/RAN Little Grebe, Pond Heron, Night Heron, White Ibis, Pintail, Black Tailed Godwit, Green Sand Piper, Painted Snipe, Yellow Footed Green Pigeon, Spotted Dove, Greater Coucal, Barn Owl, Red Crested Pochard, Black Winged Kite, Shikra, Spotted Eagle, Marsh Harrier, Great Egret, Laggar Falcon, Kestrel, Grey Partridge, Sarus Crane, Pheasant Tailed Jacana, White Breasted Kingfisher, Barbet, Brown Capped Pygmy Chat, Little Cormorant, Cattle Egret, Green Bittern, Spoonbill, Teal, Shoveller, Spotted Redshank, Wood Sand. Piper, Black Winged Stilt, Rock Pigeon, Ring Necked Parakeet, Succor Cuckoo, Little Swift, Pochard, Crested Honey Buzzard, Sparrow Hawk, Lesser Spotted Eagle, Short Teed Eagle, Common Quail, White breasted Water Hen, Pied Kingfisher, Wryneck, Woodpecker, Darter, Great Egret, Painted Stork, Goose, Gadwall, Braze Winged Jacana, Marsh Sandpiper, Common Sandpiper, Gull Killed Tern, Laughing Dove, Blossom Headed Parakeet, Dusky Eagle Owl, Palm Swift, Cotton Teal, Black Kite, Sparrow Hawk, King Vulture, Crested Serpent Eagle, Laggar, Common Peafowl, Moorhen, Common Kingfisher, Hoopoe, Lesser Golden Backed Woodpecker, Purple Heron, Little Egret, Black Stork, Ruddy Shelduck, Wigeon, Wattled Plover, Green Shank, Sand Grouse, Red Turtle Dove, Grey Heron, Intermediate Egret, White Necked Stork, Lapwing, Ruff, Bar Headed Goose, Lesser Whistling Duck, Redshank, Common snipe, Collared Dove, common Hook Cuckoo, Spotted Little Owl, Fork Tailed Swift, Comb Duck, Goshawk, Tawny Eagle, Egyptian Vulture, Vulture, Osprey, Buzzard, Button Quail, Indian Roller, Kashmir Roller, Crested Lark, Coot, Indian Rufous Ringed Bushlark, Crested Lark, Dusky Crag Martin, Great Grey Shrike, Golden Oriole, Brahminy Starling, Common Myna, House Crow, White Cheeked Bulbul, Common Babbler, Red Breasted Flycatcher, Clamors Reed Warbler, Lesser Whitethroat, Blue Throat, Store Chat, Olive Backed Pipit, Citron Wagtail, Purple Sunbird, Yellow Throated Sparrow, Grey Bush Chat, Jungle Nightjar, Dusky Warbler, Ashy Crowned finch Lark, Small Skylark, Common Swallow, Bay Backed Shrike, Black Drongo, Asian Pied Starling, Bank Myna, Grey Tit, Jungle Crow, Red Vented Bulbul, Large Grey Babbler, Plain Prinia, TailorBird, , Black Redstart, Pied Bush Chat, Tree Pipit, Grey Wagtail, Baya Weaver, Hawk Eagle, Nightjar, Rufous Tailed Desert Lark, Short Toed Lark, Red Rumped Swallow, Rufous Tree Pie, Black Headed Shrike, White Bellied Drongo, Starling, Marshal's Iora, Yellow Eyed Babbler, Jungle Babbler, Rufous Fronted Prinia, Blyth's Reed Warbler, Tickell's Leaf Warbler, Brown Rock Chat, Indian Robin, Yellow Wagtail, Large Pied Wagtail, House Sparrow, Nightjar, Indian Silver Bill, Smokey Nightjar, River Tern, Red Crested Pochard, Sparrow Hawk, Lesser Spotted Eagle, Indian Longbilled Vulture, Crested Serpent Eagle, Peasant Tailed Jacana, White Breasted Water Hen, Cotton Teal, Black Kite, Tawny

Eagle, Marsh Harrier

#### CODE · LIST OF BIRDS

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RAJ/N/RAN	Osprey, Buzzard, Comb Duck, Goshawk, Spotted Eagle, Egyptian Vulture, Kestrel, Moorhen, Black Winged Kite, Brahminy Kite, King Vulture, White Backed Vulture, Bonnelli's Eagle, Grey Partridge, Sarus Crame, Crested Honey Buzzard, Shikra, Sparrow-hawk, Short Teed Eagle, Button Quail, Common Quail
-RAJ/N/SAR	Peafowl
SIK/N/KHA	Snow Partridge, Tibetan Snowcock, Bearded Vulture, Monal Pheasant, Western Tragopan
TN/N/GUI	
UP/N/COR	Peafowl, Kalij Pheasant, Jungle Crow, Partridge, Jungle Fowl
UP/N/DUD	Peafowl, Crow
UP/N/NAN	
UP/N/VAL	
WB/N/SUN	