

Reassessing the Management of National Parks and Sanctuaries in India

Volume 2: Biological Profiles of Individual PAs



Compiled and Edited by
**Raman Mehta, Vishaish Uppal,
Shekhar Singh**

*Cover painting of Spotted owlets (*Athene brama*) is by Uma Bordoloi, as are the sketches and paintings in the volume.*

*2nd All India Survey of Wildlife Protected Areas
in India:*

1998-2003

*Reassessing the Management of
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Shekhar Singh*



Research, Assessment and Analysis Group

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Volume 2 - Biological Profiles of Individual PAs

Volume 3 - Socio-economic Profiles of Individual PAs

Volume 4 - Management Profiles of Individual PAs

*Volume 5 - Detailed Socio-economic Profiles of Selected PAs:
Part I (Andhra Pradesh & Gujarat)*

*Volume 6 - Detailed Socio-economic Profiles of Selected PAs:
Part II (Haryana, Himachal Pradesh,
Meghalaya, Mizoram, Rajasthan)*

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NAMES AND CODES OF PROTECTED AREAS RESPONDING TO THE SURVEY

<i>State/ UT- wise Sl. No.</i>	<i>PA Code</i>	<i>PA Name</i>	<i>Accumulative national total of PAs responding</i>
Andaman and Nicobar Islands			
1.	A&N/N/SAD	Saddle Peak National Park	
2.	A&N/S/CUT	Cuthbert Bay Sanctuary	
3.	A&N/S/INT	Interview Island Sanctuary	
4.	A&N/S/NAR	Narcondam Sanctuary	
5.	A&N/S/NOR	North Reef Sanctuary	5
Andhra Pradesh			
1.	AP/N/KAS	Kasu Brahmananda Reddy National Park	
2.	AP/N/MAH	Mahaveer Harina Vanasthali National Park	
3.	AP/N/MRU	Mrugavani National Park	
4.	AP/N/VEN	Sri Venkateswara National Park	
5.	AP/S/COR	Coringa Sanctuary	
6.	AP/S/ETU	Eturnagaram Sanctuary	
7.	AP/S/GUN	Gundla Brahmeswaram Sanctuary	
8.	AP/S/KAW	Kawal Sanctuary	
9.	AP/S/KOL	Kolleru Sanctuary	
10.	AP/S/KOU	Koundinya Sanctuary	
11.	AP/S/KRI	Krishna Sanctuary	
12.	AP/S/MAN	Manjira Sanctuary	
13.	AP/S/NEL	Neelapattu Bird Sanctuary	
14.	AP/S/PAK	Pakhal Sanctuary	
15.	AP/S/PAP	Papikonda Sanctuary	
16.	AP/S/POC	Pocharam Sanctuary	
17.	AP/S/PRA	Pranhita Black Buck Sanctuary	
18.	AP/S/PUL	Pulicat Bird Sanctuary	
19.	AP/S/SIW	Siwaram Sanctuary	24
Arunachal Pradesh			
1.	ARU/N/MOU	Mouling National Park	
2.	ARU/N/NAM	Namdapha National Park	
3.	ARU/S/DER	D' Ering Memorial Sanctuary	
4.	ARU/S/KAM	Kamlang Sanctuary	
5.	ARU/S/MEH	Mehao Sanctuary	
6.	ARU/S/YOR	Yordi Rabe Supse Sanctuary	30
Assam			
1.	ASS/N/DIB	Dibru Saikhowa National Park	
2.	ASS/N/KAZ	Kaziranga National Park	

3.	ASS/N/MAN	Manas National Park	
4.	ASS/N/ORA	Orang Sanctuary	
5.	ASS/S/BAR	Barnadi Sanctuary	
6.	ASS/S/DIP	Dipar Beel Sanctuary	
7.	ASS/S/GIB	Gibbon Sanctuary	
8.	ASS/S/LAO	Laokhowa Sanctuary	
9.	ASS/S/PAN	Panidehing Bird Sanctuary	
10.	ASS/S/POB	Pobitora Sanctuary	
11.	ASS/S/SON	Soni-Rupai Sanctuary	
12.	ASS/S/NAME	Nameri Sanctuary	
13.	ASS/S/BUR	Burha Chapori Sanctuary	
14.	ASS/S/KAR	Karbi Anglong Sanctuary	
15.	ASS/S/NAMB	Nambor Sanctuary	
16.	ASS/S/EAS	East Karbi Anglong Sanctuary	
17.	ASS/S/GAR	Garampani Sanctuary	
Bihar			47
1.	BIH/S/RAJ	Rajgir Sanctuary	48
Chandigarh			
1.	CHD/S/SUK	Sukhna Sanctuary	49
Chattisgarh			
1.	CHT/N/IND	Indravati National Park	
2.	CHT/N/KAN	Kanger Valley National Park	
3.	CHT/S/ACH	Achanakmar Sanctuary	
4.	CHT/S/BAR	Barnawapara Sanctuary	
5.	CHT/S/BHA	Bhairamgarh Wild Buffalo Sanctuary	
6.	CHT/S/GOM	Gomarda Sanctuary	
7.	CHT/S/PAM	Pamed Wild Buffalo Sanctuary	
8.	CHT/S/SIT	Sitanadi Sanctuary	
9.	CHT/S/TAM	Tamor Pingla Game Sanctuary	
10.	CHT/S/UDA	Udanti Sanctuary	59
Delhi			
1.	DEL/S/ASO	Asola-Bhatti Sanctuary	60
Goa			
1.	GOA/S/CHO	Chorao Island - Dr. Salim Ali Bird Sanctuary	
2.	GOA/S/BON	Bondla Sanctuary	62
Gujarat			
1.	GUJ/N/BAN	Bansda National Park	
2.	GUJ/S/WIL	Wild Ass Sanctuary	
3.	GUJ/S/PUR	Purna Sanctuary	
4.	GUJ/S/RAT	Ratanmahal Sanctuary	66
Haryana			
1.	HAR/N/SUL	Sultanpur National Park	
2.	HAR/S/ABU	Abuabsher Sanctuary	

3.	HAR/S/BHIN	Bhindarwas Bird Sanctuary	
4.	HAR/S/BIRB	Bir Bara Ban Sanctuary	
5.	HAR/S/BIRS	Bir Sikargah Sanctuary	
6.	HAR/S/CHIL	Chilchilla (Bird) Sanctuary	
7.	HAR/S/KAL	Kalesar Sanctuary	
8.	HAR/S/KHA	Khaparwas Bird Sanctuary	
9.	HAR/S/NAH	Nahar Sanctuary	
10.	HAR/S/SAR	Saraswati Plantation Sanctuary	76
Himachal Pradesh			
1.	HP/N/GRE	Great Himalayan National Park	
2.	HP/S/DAR	Daranghati Sanctuary Part I & II	
3.	HP/S/DHA	Dhauladhar Sanctuary	
4.	HP/S/GAM	Gamgul Siyabehi Sanctuary	
5.	HP/S/KAL	Kalatop - Khajjiar Sanctuary	
6.	HP/S/KHO	Khokhan Sanctuary	
7.	HP/S/KAN	Kanawar Sanctuary	
8.	HP/S/KIA	Kias Sanctuary	
9.	HP/S/KUG	Kugti Sanctuary	
10.	HP/S/LIP	Lippa Asrang Sanctuary	
11.	HP/S/MAN	Manali Sanctuary	
12.	HP/S/NAR	Nargu Sanctuary	
13.	HP/S/PON	Pong Lake Bird Sanctuary	
14.	HP/S/RUP	Rupi Bhaba Sanctuary	
15.	HP/S/SAN	Sangla Valley Sanctuary	
16.	HP/S/SHI	Shikari Devi Sanctuary	
17.	HP/S/TUN	Tundah Sanctuary	93
Jammu & Kashmir			
1.	J&K/N/KIS	Kishtwar High Altitude National Park	
2.	J&K/N/HEM	Hemis National Park	
3.	J&K/S/KAR	Karakoram Sanctuary	
4.	J&K/S/CHA	Changthang Sanctuary	
5.	J&K/S/OVE	Overa Aru Sanctuary	98
Jharkhand			
1.	JHA/N/RAJ	Rajmahal National Fossil Park	
2.	JHA/S/HAZ	Hazaribagh Sanctuary	
3.	JHA/S/PAR	Parasnath Sanctuary	
4.	JHA/S/UDH	Udhwa Bird Sanctuary	102
Karnataka			
1.	KAR/N/ANS	Anshi National Park	
2.	KAR/N/BAND	Bandipur National Park	
3.	KAR/N/BANN	Bannerghatta National park	
4.	KAR/N/KUD	Kudremukh National Park	
5.	KAR/N/NAG	Nagarhole (Rajiv Gandhi) National Park	
6.	KAR/S/ADI	Adichunchanagiri Peacock Sanctuary	

7.	KAR/S/ARA	Arabitittu Sanctuary	
8.	KAR/S/ATT	Attiveri Sanctuary	
9.	KAR/S/BHA	Bhadra Sanctuary	
10.	KAR/S/BIL	Billigiri Ranga Swami Sanctuary	
11.	KAR/S/BRA	Brahmagiri Sanctuary	
12.	KAR/S/DAN	Dandeli Sanctuary	
13.	KAR/S/DOR	Doraji Bear Sanctuary	
14.	KAR/S/GHA	Ghataprabha Bird Sanctuary	
15.	KAR/S/GUD	Gudavi Bird Sanctuary	
16.	KAR/S/KAV	Kaveri Sanctuary	
17.	KAR/S/MEL	Melkote Sanctuary	
18.	KAR/S/MOO	Mookambika Sanctuary	
19.	KAR/S/NUG	Nugu Sanctuary	
20.	KAR/S/PUS	Pushpagiri Sanctuary	
21.	KAR/S/RANE	Ranebennur Black Buck Sanctuary	
22.	KAR/S/RANG	Ranganathittu Bird Sanctuary	
23.	KAR/S/SHA	Sharavathi Valley Sanctuary	
24.	KAR/S/SHE	Shettihalli Sanctuary	
25.	KAR/S/SOM	Someshwara Sanctuary	
26.	KAR/S/TAL	Talakaveri Sanctuary	128
Kerala			
1.	KER/N/ERA	Eravikulam National Park	
2.	KER/S/ARA	Aralam Sanctuary	
3.	KER/S/CHIN	Chinnar Sanctuary	
4.	KER/S/WAY	Wayanad Sanctuary	132
Maharashtra			
1.	MAH/N/AND	Tadoba Andhari Tiger Reserve	
2.	MAH/N/NAV	Navegaon National Park	
3.	MAH/N/PEN	Pench Tiger Reserve	
4.	MAH/N/SAN	Sanjay Gandhi National Park	
5.	MAH/S/AMB	Ambabarva Sanctuary	
6.	MAH/S/ANR	Aner Dam Sanctuary	
7.	MAH/S/BHA	Bhamragarh Sanctuary	
8.	MAH/S/BHI	Bhimashankar Sanctuary	
9.	MAH/S/BOR	Bor Sanctuary	
10.	MAH/S/CHAN	Chandoli Sanctuary	
11.	MAH/S/CHAP	Chaprala Sanctuary	
12.	MAH/S/DEU	Deulgaon Rehekuri Sanctuary	
13.	MAH/S/GAU	Gautala-Autramghat Sanctuary	
14.	MAH/S/GYA	Gyanganga Sanctuary	
15.	MAH/S/JAI	Jaikwadi Bird Sanctuary	
16.	MAH/S/KAL	Kalusubai Harishchandragad Sanctuary	
17.	MAH/S/KAR	Karnala Bird Sanctuary	
18.	MAH/S/KAT	Katepurna Sanctuary	

19.	MAH/S/MAL	Malwan Marine Sanctuary	
20.	MAH/S/MAY	Mayureshwar Supe Sanctuary	
21.	MAH/S/NAG	Nagzira Sanctuary	
22.	MAH/S/NAI	Naigaon Peacock Sanctuary	
23.	MAH/S/NAR	Narnala Bird Sanctuary	
24.	MAH/S/PAI	Painganga Sanctuary	
25.	MAH/S/RAD	Radhanagiri Sanctuary	
26.	MAH/S/SAG	Sagreshwar Sanctuary	
27.	MAH/S/TIP	Tipeshwar Sanctuary	
28.	MAH/S/WAN	Wan Sanctuary	
29.	MAH/S/YAW	Yawal Sanctuary	
30.	MAH/S/YED	Yedshi Ramling Ghat Sanctuary	162
Manipur			
1.	MAN/N/KEI	Keibul Lamjao National Park	
2.	MAN/S/YAN	Yangoupokpi Lokchao Sanctuary	164
Meghalaya			
1.	MEG/N/BAL	Balpakram National Park	
2.	MEG/N/NOK	Nokrek National Park	
3.	MEG/S/BAG	Baghmara Pitcher Plant Sanctuary	
4.	MEG/S/NON	Nongkhylliem Sanctuary	
5.	MEG/S/SIJ	Siju Sanctuary	169
Mizoram			
1.	MIZ/N/MUR	Murlen National Park	
2.	MIZ/N/PHA	Phawngpui (Blue Mountain) National Park	
3.	MIZ/S/DAM	Dampa Tiger Reserve	
4.	MIZ/S/KHA	Khawnglung Sanctuary	
5.	MIZ/S/LEN	Lengteng Sanctuary	
6.	MIZ/S/NGE	Ngengpui Sanctuary	175
Madhya Pradesh			
1.	MP/N/BAN	Bandhavgarh Tiger Reserve (including Panpatha Sanctuary)	
2.	MP/N/GHU	Ghughuwa Fossil National Park	
3.	MP/N/PEN	Pench National Park	
4.	MP/N/SAT	Satpura National Park	
5.	MP/N/VAN	Van Vihar National Park	
6.	CHT/S/BAD	Badalkhol Sanctuary	
7.	CHT/S/BAG	Bagdara Sanctuary	
8.	MP/S/GAN	Gandhi Sagar Sanctuary	
9.	MP/S/KAR	Karera Great Indian Bustard Sanctuary	
10.	MP/S/KHE	Kheoni Sanctuary	
11.	MP/S/KUN	Kuno Sanctuary	
12.	MP/S/NAR	Narsingarh Sanctuary	
13.	MP/S/NAT	National Chambal Sanctuary	

14.	MP/S/NOR	Noradehi Sanctuary	
15.	MP/S/ORC	Orcha Sanctuary	
16.	MP/S/PEN	Pench Sanctuary	
17.	MP/S/RAL	Ralamandal Sanctuary	
18.	MP/S/SAI	Sailana Sanctuary	
19.	MP/S/SAN	Sanjay (Dubri) Sanctuary	
20.	MP/S/SAR	Sardarpur Sanctuary	
21.	MP/S/SON	Son Gharial Sanctuary	196
Nagaland			
1.	NAG/N/INT	Intanki National Park	
2.	NAG/S/FAK	Fakim Sanctuary	
3.	NAG/S/PUL	Pulie Badze Sanctuary	
4.	NAG/S/RAN	Rangapahar Sanctuary	200
Orissa			
1.	ORI/N/SIM	Similipal Tiger Reserve	
2.	ORI/S/BAD	Badarma Sanctuary	
3.	ORI/S/BAI	Baisapalli Sanctuary	
4.	ORI/S/BAL	Balukhand-Konark Sanctuary	
5.	ORI/S/BHI	Bhittarkanika Sanctuary	
6.	ORI/S/CHA	Chandaka-Dompada Sanctuary	
7.	ORI/S/CHI	Chilika Sanctuary	
8.	ORI/S/DEB	Debrigarh Sanctuary	
9.	ORI/S/HAD	Hadgarh Sanctuary	
10.	ORI/S/KAR	Karlapat Sanctuary	
11.	ORI/S/KHA	Khalasuni Sanctuary	
12.	ORI/S/KOT	Kotgarh Sanctuary	
13.	ORI/S/KUL	Kuldiha Sanctuary	
14.	ORI/S/LAK	Lakhari Valley Elephant Sanctuary	
15.	ORI/S/SAT	Satkosia Gorge Sanctuary	
16.	ORI/S/SUN	Sunabeda Sanctuary	216
Punjab			
1.	PUN/S/ABO	Abohar Sanctuary	
2.	PUN/S/AIS	Bir Aishwan Sanctuary	
3.	PUN/S/BHA	Bir Bhadson Sanctuary	
4.	PUN/S/BHU	Bir Bhunerheri Sanctuary	
5.	PUN/S/DOS	Bir Doshamajan Sanctuary	
6.	PUN/S/GUR	Bir Gurdial Pura Sanctuary	
7.	PUN/S/HAR	Harike Lake Bird Sanctuary	
8.	PUN/S/MAH	Bir Mahas Sanctuary	
9.	PUN/S/MOT	Bir Moti Bag Sanctuary	
10.	PUN/S/TAK	Takhani Rehmapur Sanctuary	226
Rajasthan			
1.	RAJ/N/DES	Desert National Park	
2.	RAJ/N/KEO	Keoladeo Ghana National Park	

3.	RAJ/S/BAS	Bassi Sanctuary	
4.	RAJ/S/BAI	Bainsroadgarh Sanctuary	
5.	RAJ/S/JAM	Jamwa Ramgarh Sanctuary	
6.	RAJ/S/JAI	Jaisamand Sanctuary	
7.	RAJ/S/KAI	Kailadevi Sanctuary	
8.	RAJ/S/KUM	Kumbalgarh Sanctuary	
9.	RAJ/S/NAH	Nahargarh Sanctuary	
10.	RAJ/S/PHU	Phulwari Ki Nai Sanctuary	
11.	RAJ/S/SAJ	Sajjangarh Sanctuary	
12.	RAJ/S/SIT	Sitamata Sanctuary	
13.	RAJ/S/TAL	Tal Chappar Sanctuary	
14.	RAJ/S/TOD	Todgarh Rawali Sanctuary	
15.	RAJ/S/VAN	Van Vihar Sanctuary	241
Sikkim			
1.	SIK/N/KHA	Khangchendzonga National Park	
2.	SIK/S/BAR	Barsey Rhododendron Sanctuary	
3.	SIK/S/FAM	Fambung Lho Sanctuary	
4.	SIK/S/KYON	Kyongnosla Alpine Sanctuary	
5.	SIK/S/MAE	Maenam Sanctuary	
6.	SIK/S/SHIN	Shingba Rhododendron Sanctuary	247
Tamil Nadu			
1.	TN/N/GUL	Gulf of Mannar Marine National Park	
2.	TN/S/GUI	Guindy National Park	
3.	TN/N/IND	Indira Gandhi National Park & Sanctuary	
4.	TN/N/MUD	Mudumalai National Park & Sanctuary	
5.	TN/N/MUK	Mukurthi National Park	
6.	TN/S/CHI	Chitrangudi Sanctuary	
7.	TN/S/GRI	Grizzled Squirrel Sanctuary	
8.	TN/S/KAN	Kanjirankulam Birds Sanctuary	
9.	TN/S/KARA	Karaivetti Bird Sanctuary	
10.	TN/S/KARI	Karikili Bird Sanctuary	
11.	TN/S/KEL	Kela Selvanur Bird Sanctuary*	
12.	TN/S/KOO	Koontakulam Bird Sanctuary	
13.	TN/S/MEL	Mela Selvanur*	
14.	TN/S/POIN	Point Calimere Sanctuary	
15.	TN/S/PUL	Pulicat Bird Sanctuary	
16.	TN/S/UDA	Udayamarthandapuram Bird Sanctuary	
17.	TN/S/VAD	Vaduvoor Bird Sanctuary	
18.	TN/S/VALL	Vallanad Black Buck	
19.	TN/S/VED	Vedanthangal Bird Sanctuary	
20.	TN/S/VELL	Vellode Birds Sanctuary	
21.	TN/S/VET	Vettangudi Birds Sanctuary	268
<i>*Data for TN/S/KEL and TN/S/MEL were filled in the same questionnaire</i>			

Trippura			
1.	TRI/S/GUM	Gumati Sanctuary	
2.	TRI/S/TRI	Trishna Sanctuary	270
Uttar Pradesh			
1.	UP/S/BAK	Bakhira Sanctuary	
2.	UP/S/CHA	Chandraprabha Sanctuary	
3.	UP/S/KAI	Kaimur Sanctuary	
4.	UP/S/KAT	Katerniaghat Sanctuary	
5.	UP/S/LAK	Lakh Bahosi Sanctuary	
6.	UP/S/MAH	Mahaveer Swami Sanctuary	
7.	UP/S/NAT	National Chambal Sanctuary	
8.	UP/S/NAW	Nawabganj Sanctuary	
9.	UP/S/OKH	Okhla Sanctuary	
10.	UP/S/PAR	Parvati Aranya Sanctuary	
11.	UP/S/PAT	Patna Sanctuary	
12.	UP/S/RAN	Ranipur Sanctuary	
13.	UP/S/SAMN	Saman Sanctuary	
14.	UP/S/SAMS	Samaspur Sanctuary	
15.	UP/S/SAN	Sandi Sanctuary	
16.	UP/S/SOHA	Sohagiberva Sanctuary	
17.	UP/S/SOHI	Sohilwa Sanctuary	
18.	UP/S/SURA	Surahatal Sanctuary	
19.	UP/S/SURS	Sur Sarovar Sanctuary	
20.	UP/S/TUR	Turtle Sanctuary	
21.	UP/S/VIJ	Vijay Sagar Sanctuary	291
Uttaranchal			
1.	UTT/N/COR	Corbett National Park	
2.	UTT/N/GAN	Gangotri National Park	
3.	UTT/N/GOV	Govind National Park and Sanctuary	
4.	UTT/S/ASK	Askote Sanctuary	
5.	UTT/N/BIN	Binog Mountain Quail Sanctuary	
6.	UTT/S/BIN	Binsar Sanctuary	
7.	UTT/S/KED	Kedarnath Muskdeer Sanctuary	
8.	UTT/S/SON	Sonanadi Sanctuary	299
West Bengal			
1.	WB/N/GOR	Gorumara National Park	
2.	WB/N/NEO	Neora Valley National Park	
3.	WB/N/SUN	Sunderban National Park*	
4.	WB/S/BAL	Ballavpur Sanctuary	
5.	WB/S/BET	Bethuadahari Sanctuary	
6.	WB/S/BIB	Bibhuti Bhushan Sanctuary	
7.	WB/S/CHA	Champramari Sanctuary	
8.	WB/S/HAL	Halliday Island Sanctuary	
9.	WB/S/LOT	Lothian Island Sanctuary	

10.	WB/S/RAI	Raiganj Sanctuary	
11.	WB/S/RAM	Ramnabagan Sanctuary	
12.	WB/S/SAJ	Sajnakhali Sanctuary*	
13.	WB/S/SEN	Senchal Sanctuary	
<i>* Data for WB/N/SUN and WB/S/SAJ were filled in the same questionnaire</i>			
		NATIONAL TOTAL	312



Glossary of Terms and Expansion of Abbreviations

TERM/ ABBREVIATION	MEANING
Adjacent area	10 kms radius from park or sanctuary boundary
Ave or avg.	Average
Bunds	Raised earthen ridges, usually for soil and water conservation
CES	Centre for Equity Studies
chullahs	Cooking fire
Comnt.	Comment/communication
Compt.	Compartment
Dinghies	Small boats
F & WL	Forests and wildlife
FAO	Foods and Agriculture Organisation of The United Nations
Gad/gadh	fortress
Gaur	Indian Bison (<i>Bos gaurus</i>)
Gumpa	Also sometimes spelled gompa - "is a meditation room where practitioners meditate and listen to teachings" of Tibetan Buddhism.
Gurudwara/ gurdwara	A Sikh temple
Ha / ha.	hectares
IIPA	Indian Institute and Public Administration, New Delhi
IUCN	International Union for the Conservation of Nature and Natural Resources
Jhumming	Shifting cultivation
Jt	Joint
Jyotirlingas	Jyotirlinga or Jyotirling or Jyotirlingam is a shrine dedicated to Lord Shiva where Shiva is worshipped in the form of a Jyotirlingam or "Lingam of Light". There are said to be twelve Jyotirlinga shrines in India although their location is not consistently identified.
Kila/quila	Fort
m	meters
Machan	A raised platform, usually in a tree, used for observing animals
MoEF	Ministry of Environment & Forests
msl	Mean Sea Level
n.a	not available
n.r.	not relevant
N or NP/S	national park / sanctuary

NP	If occurring in a column titled “old data 1984-1987”, depicts that the relevant data is “not present” for that PA in the old data set.
Nala	Drain, stream, canal, water channel
Neelgai/nilgai	Blue bull (<i>Boselaphus tragocamelus</i>)
Nistar	Land set apart for exercise of nistar rights may be timber or fuel reserve; pasture, grass, or fodder reserve; burial ground and cremation ground; or village site; encamping ground; threshing floor; bazaar (market); skinning ground; manure pit; public purposes such as schools, playgrounds, parks, lanes, drains; and any other purposes that may be prescribed.
NTFP	Non-timber forest produce
OTH	Other
PA	Protected areas - National Parks and Sanctuaries
Park Manager	An official of any designation and level holding overall responsibility for a park /sanctuary
Pers.	personal
Pop.	population
Rs.	Indian Rupees
S	Sanctuary
Sant	saint
SCs	Scheduled castes
Smt.	Srimati (Mrs)
spp.	Species
State	Union Territory or State
T	total
Tal	lake
Toposheet	topographical sheet of the survey of India
UT	Union Territory
Van	forest
WL	Wildlife (spelled as ‘wildlife’ in the Wildlife (protection) Act of 1972)
WLPA	Wildlife (protection) Act of 1972
Yatra	trip/pilgrimage

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	PA code	Total Area	Forests	Forests%	Wetlands	Wetlands%	Perennial rivers (Length)	Coasts (Length)	Islands	Islands%	Oceans	Oceans%	Rangelands/ grasslands	Rangelands%	Mountains	Mountains%	Deserts	Deserts%	Glaciers	Glaciers%
1	A&N/N/SAD	32.54	32.54	100.00%			one			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
2	A&N/S/CUT	5.82						9		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
3	A&N/S/INT	133.00	133.00	100.00%					133.00	100.00%										
4	A&N/S/NAR	6.81	6.81	100.00%					6.81											
5	A&N/S/NOR	3.48	3.48	100.00%					3.48											
6	AP/N/KAS	1.43	1.43	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
7	AP/N/MAH	14.59	14.59	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
8	AP/N/MRU	2.80	2.80	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
9	AP/N/VEN	525.97	525.97	100.00%	26.30	5.00%				0.00%		0.00%		0.00%	525.97	0.00%		0.00%		0.00%
10	AP/S/COR	235.70	235.70	100.00%	235.70	100.00%	40	20		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
11	AP/SETU	803.00	803.00	100.00%	1.63	0.20%	175 kms			0.00%		0.00%	1.00	0.12%		0.00%		0.00%		0.00%
12	AP/S/GUN	1194.00	1194.00	100.00%						0.00%		0.00%		0.00%	716.00	59.97%		0.00%		0.00%
13	AP/SKAW	893.00	893.00	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
14	AP/SKOL	308.00			308.00	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
15	AP/SKOU	357.63	199.63	55.82%						0.00%		0.00%		0.00%	160.00	44.74%		0.00%		0.00%
16	AP/S/KRI	194.21			194.21	100.00%	Krishna			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
17	AP/S/MAN	20.00			20.00	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
18	AP/S/NEL	4.58	3.75	81.88%	0.88	19.21%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
19	AP/SPAK	860.00	860.00	100.00%			1.07 km.sq./59 kms			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
20	AP/SPAP	590.68	575.15	97.37%			Godavari 15.53			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
21	AP/S/POC	130.00	130.00	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
22	AP/S/PRA	136.00	136.00	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
23	AP/S/PUL	600.00	16.16	2.69%	461.00	76.83%		70		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
24	AP/S/SIW	29.81	29.81	100.00%			17.5 kms			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
25	ARU/N/MOU	483.00	483.00	100.00%						0.00%		0.00%		0.00%	483.00	100.00%		0.00%		0.00%
26	ARU/N/NAM	1985.25	1807.82	91.06%											1807.82	91.06%				
27	ARU/S/DER	190.00	28.50	15.00%			80-100 km		190.00	100.00%		0.00%	142.50	75.00%		0.00%		0.00%		0.00%
28	ARU/S/KAM	783.00	783.00	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
29	ARU/S/MEH	281.50	281.50	100.00%			250			0.00%		0.00%	0.20	0.07%	280.00	99.47%		0.00%		0.00%
30	ARU/S/YOR	445.98								0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
31	ASSN/DIB	340.00	122.40	36.00%	17.00	5.00%	17			0.00%		0.00%	71.40	0.21%		0.00%		0.00%		0.00%
32	ASSN/KAZ	407.90	114.01	27.95%	31.12	7.63%	147.8			0.00%		0.00%	261.15	64.02%		0.00%		0.00%		0.00%
33	ASSN/MAN	519.77	150.00	28.86%			300			0.00%		0.00%	370.00	71.19%		0.00%		0.00%		0.00%
34	ASSN/NAME	200.00																		

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35	ASS/NORA	78.80	11.81	14.99%	9.53	12.09%	25 km.	12 km.	9.04	11.47%		0.00%	36.45	46.26%		0.00%		0.00%		0.00%
36	ASS/S/BAR	26.21	9.00	34.34%			6			0.00%		0.00%	11.00	41.97%	9.00	34.34%		0.00%		0.00%
37	ASS/S/BUR	44.00	14.56	33.09%	3.00	6.82%	3 km.						29.50							
38	ASS/S/DIP	0.02			0.02	100.00%	2.50 km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
39	ASS/S/EKAR	221.81	221.81	100.00%			120 meters						30.00		120.00					
40	ASS/S/GAR	6.00	6.00	100.00%			21 km.						0.20							
41	ASS/S/GIB	19.16	15.60	81.42%	2.56	13.36%	1.60 km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
42	ASS/S/KAR	96.00	96.00	100.00%																
43	ASS/S/LAO	70.10	42.10	60.06%	8.00	11.41%				0.00%		0.00%	20.00	28.53%		0.00%		0.00%		0.00%
44	ASS/S/NAMB	37.00	37.00	100.00%			30 km.						10.00							
45	ASS/S/PAN	33.93			33.93	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
46	ASS/S/POB	16.00	2.04	12.75%	0.65	4.06%	1.86			0.00%		0.00%	11.45	71.56%		0.00%		0.00%		0.00%
47	ASS/S/SON	220.00	158.00	71.82%	5.00	2.27%	15			0.00%		0.00%	35.00	15.91%	7.00	3.18%		0.00%		0.00%
48	BIH/S/RAJ	35.84																		
49	CHD/S/SUK	26.11																		
50	CHT/N/IND	2799.09	2799.09	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
51	CHT/N/KAN	200.00	200.00	100.00%	2.50	1.25%	50km			0.00%		0.00%	1.50	0.75%	160.00	80.00%		0.00%		0.00%
52	CHT/S/ACH	551.55	551.55	100.00%			Maniyari-50km			0.00%		0.00%		0.00%	200.00	36.26%		0.00%		0.00%
53	CHT/S/BAR	244.66	244.66	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
54	CHT/S/BHA	138.95	124.95	89.92%			18KM						10.00	7.20%						
55	CHT/S/GOM	277.82	277.82	100.00%																
56	CHT/S/PAM	442.23	422.23	95.48%			10			0.00%		0.00%	20.00	4.52%		0.00%		0.00%		0.00%
57	CHT/S/SIT	558.55	558.55	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
58	CHT/S/TAM	608.53	593.84	97.59%			91km			0.00%		0.00%	3.69	0.61%	608.53	100.00%		0.00%		0.00%
59	CHT/S/UDA	237.27	237.27	100.00%									1.50	0.63%						
60	DEL/S/ASO	27.81	27.81	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
61	GOA/S/BON	7.95	7.95	100.00%																
62	GOA/S/CHO	1.80	1.80	100.00%	1.80	100.00%	4.3	4.3	1.80	100.00%		0.00%		0.00%		0.00%		0.00%		0.00%
63	GUJ/N/BAN	23.99	23.99	100.00%																
64	GUJ/S/PUR	160.35	268.90	167.70%			51.25			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
65	GUJ/S/RAT	55.65	54.24	97.47%											54.24					

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66	GUJ/SWIL	4953.71	531.62	10.73%				300 km	185.00	3.74%		0.00%		0.00%		0.00%	3569.71	72.06%		0.00%
67	HAR/N/SUL	1.42	0.40	28.38%	0.81	56.76%							0.21	14.79%						
68	HAR/S/ABU	113.97																		
69	HAR/S/BHIN	4.07			4.07	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
70	HAR/S/BIRB	4.14	4.14	100.00%	0.30	7.24%	2 kms			0.00%		0.00%	0.50	12.07%		0.00%		0.00%		0.00%
71	HAR/S/BIRS	7.58	7.58	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
72	HAR/S/CHIL	0.28			0.28	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
73	HAR/S/KAL	100.00	100.00	100.00%			Yamuna river			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
74	HAR/S/KHA	0.82			0.82	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
75	HAR/S/NAH	2.09	2.09	100.00%																
76	HAR/S/SAR	44.02	44.02	100.00%			6 KM (Sarswati river)			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
77	HP/N/GRE	905.40																		
78	HP/S/DAR	46.59	46.59	100.00%											46.59	100.00%				
79	HP/S/DHA	943.98	164.00	17.37%	3.00	0.32%	100.00 km. Approximately			0.00%		0.00%	280.00	29.66%	943.98	100.00%		0.00%	500.00	52.97%
80	HP/S/GAM	109.00	80.40	73.76%			26km (Siul river)			0.00%		0.00%	23.00	21.10%	109.00	100.00%		0.00%		0.00%
81	HP/S/KAI	12.61	9.89	78.43%									2.5		12.6108				0.22	

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82	HP/S/KAL	69.47	18.00	25.91%	0.03	0.04%				0.00%		0.00%	2.00	2.88%	69.47	100.00%		0.00%		0.00%
83	HP/S/KAN	58.18	50.00	85.94%									12		62.49				0.5	
84	HP/S/KHO	19.35	11.31	58.47%									1.35		19.3474					
85	HP/S/KUG	378.87	117.35	30.97%									243.65	64.31%	378.87	100.00%			13.37	3.53%
86	HP/S/LIP	30.89	20.00	64.75%									19.85	64.25%	30.89	100.00%			5.64	18.26%
87	HP/S/MAN	29.00	24.00	82.75%									5		29.003					
88	HP/S/NAR	278.38	139.05	49.95%			River Uhl-40 Km Various other Nalahs 70 km.			0.00%		0.00%	34.18	12.28%	278.38	100.00%		0.00%		0.00%
89	HP/S/PON	307.70	32.19	10.46%	273.76	88.97%			0.60	0.19%		0.00%		0.00%		0.00%		0.00%		0.00%
90	HP/S/RUP	269.15	113.20	42.06%			85 km (Approx)						109.96	40.85%	269.15	100.00%			44.29	16.46%

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91	HP/S/SAN	650.00	33.08	5.09%															66.16	10.18%
92	HP/S/SHI	90.37	85.38	94.48%			50 km.			0.00%		0.00%	2.75	3.04%		0.00%		0.00%		0.00%
93	HP/S/TUN	64.00	27.24	42.56%									35.11	54.86%	64.00	100.00%			10.00	15.63%
94	J&K/N/HEM	3350.00					180 km.						1306.00		3350.00				837.00	
95	J&K/N/KIS	425.00	425.00	100.00%						0.00%		0.00%	212.50	50.00%	425.00	100.00%		0.00%		0.00%
96	J&K/S/CHA	4000.00			1300.00	32.50%	240 km.						2300.00		1000.00		1500.00		200.00	
97	J&K/S/KAR	5000.00	30.00	0.60%			360 km.								5000.00		160.00		3000.00	
98	J&K/S/OVE	425.00	260.00	61.18%	50.00	11.76%	125 km.			0.00%		0.00%	100.00	23.53%		0.00%		0.00%	65.00	15.29%
99	JHA/N/RAJ	0.74								0.00%		0.00%		0.00%	0.74	100.00%		0.00%		0.00%
100	JHA/S/HAZ	186.26	186.26	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
101	JHA/S/PAR	50.81	50.81	100.00%			Six Nala and Two Jharna			0.00%		0.00%		0.00%	50.81	100.00%		0.00%		0.00%
102	JHA/S/UDH	1.27			1.27	100.00%														
103	KARN/N/ANS	250.00	250.00	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
104	KARN/BAND	880.02	880.02	100.00%			35			0.00%		0.00%	10.00	1.14%		0.00%		0.00%		0.00%
105	KARN/N/BANN	104.27	93.27	89.45%			20 km.													
106	KARN/KUD	600.32	265.32	44.20%			147 kms			0.00%		0.00%	218.00	36.31%	117.00	19.49%		0.00%		0.00%
107	KARN/N/NAG	643.39	563.39	87.57%	80.00	12.43%	River = 69.50 km, Stream = 24.00 km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
108	KAR/S/ADI	0.89	0.89	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
109	KAR/S/ARA	13.50	13.50	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
110	KAR/S/ATT	2.23	0.50	22.46%	1.50	67.39%	0.116 sq.km.													
111	KAR/S/BHA	492.46	492.46	100.00%			70 km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
112	KAR/S/BIL	540.00	540.00	100.00%									54.00		486.00					

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113	KAR/SBRA	181.29	181.29	100.00%	5.00	2.76%	30			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
114	KAR/SDAN	475.02	475.02	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
115	KAR/SDOR	55.87	55.87	100.00%						0.00%		0.00%		0.00%	32.00	57.27%		0.00%		0.00%
116	KAR/SGHA	29.79							29.79	100.00%		0.00%		0.00%		0.00%		0.00%		0.00%
117	KAR/SGUD	0.74	0.44	59.28%								0.00%		0.00%		0.00%		0.00%		0.00%
118	KAR/SKAV	526.95	526.95	100.00%			160			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
119	KAR/SMEL	49.82	49.82	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
120	KAR/SMOO	247.00	175.00	70.85%	15.00	6.07%	200 km			0.00%		0.00%	25.00	10.12%	25.00	10.12%		0.00%		0.00%
121	KAR/SNUG	30.32	30.32	100.00%			Nugu river 10 km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
122	KAR/SPUS	92.66	92.66	100.00%			Kumaradhar a 40 kms			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
123	KAR/STRANE	119.00	119.00	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
124	KAR/STRANG	0.67	0.67	100.00%			2 Kms		0.67	1.00%		0.00%		0.00%		0.00%		0.00%		0.00%
125	KAR/SSHA	431.23	302.53	70.16%			Sharavathi		5.07	1.18%		28.67%		0.00%		0.00%		0.00%		0.00%
126	KAR/SSHE	395.60	395.60	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
127	KAR/SSOM	88.97	76.47	85.95%			35 Km			0.00%		0.00%	3.50	3.93%	9.00	10.12%		0.00%		0.00%
128	KAR/STAL	105.01	105.01	100.00%			Nadamokhole = 35 km, Mundrote River = 41 km			0.00%		0.00%	29.00	27.62%		0.00%		0.00%		0.00%
129	KER/N/ERA	100.00	30.00	30.00%			55						70.00	70.00%	100.00	100.00%				
130	KER/S/ARA	55.00	52.09	94.70%			25 km													
131	KER/S/CHIN	90.44	90.44	100.00%			20km.Pampar & 15km. Chennar						10.00	11.06%	70.00	77.40%				
132	KER/S/WAY	344.44	344.44	100.00%																
133	MAH/N/AND	625.40	548.00	87.62%	19.00	3.04%	76kms(Appo rx.)			0.00%		0.00%	43.00	6.88%		0.00%		0.00%		0.00%
134	MAH/N/NAV	133.88	133.88	100.00%						0.00%		0.00%	6.69	5.00%	53.55	40.00%		0.00%		0.00%
135	MAH/N/PEN	257.26	257.26	100.00%			Pench River 20km			0.00%		0.00%	2.50	0.97%	200.00	77.74%		0.00%		0.00%
136	MAH/N/SAN	103.09	103.09	100.00%			Nala's:- 59.470kms			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
137	MAH/S/AMB	127.11	127.11	100.00%			30kms			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
138	MAH/S/ANE	82.94	82.94	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
139	MAH/S/BHA	104.38	104.38	100.00%	1.00	0.96%	5.0km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%

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140	MAH/S/BHI	130.78	113.87	87.07%			25 km.								113.87					
141	MAH/S/BOR	61.10	61.10	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
142	MAH/S/CHAN	308.97	187.45	60.67%	45.50	14.73%	44 km.						55.00		308.97					
143	MAH/S/CHAP	133.23	133.23	100.00%	2.00	1.50%	8.775km			0.00%		0.00%	7.00	5.25%		0.00%		0.00%		0.00%
144	MAH/S/DEU	2.17	2.17	100.00%																
145	MAH/S/GAU	260.00	260.00	100.00%						0.00%		0.00%	32.00	12.31%		0.00%		0.00%		0.00%
146	MAH/S/GRE	8496.41	482.30	5.68%																
147	MAH/S/GYA	203.56	203.56	100.00%			Gyanganga-12km			0.00%		0.00%		0.00%	203.56	100.00%		0.00%		0.00%
148	MAH/S/JAI	341.05			339.80	99.63%	Godavari 55 Km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
149	MAH/S/KAL	361.71	171.20	47.33%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
150	MAH/S/KAR	4.27	4.27	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
151	MAH/S/KAT	73.69	38.76	52.60%			14.50km		0.01	0.27%		0.00%		0.00%		0.00%		0.00%		0.00%
152	MAH/S/MAL	29.12								0.00%	29.12	100.00%		0.00%		0.00%		0.00%		0.00%
153	MAH/S/MAY	5.15	5.15	100.00%																
154	MAH/S/NAG	152.81	152.81	100.00%						0.00%		0.00%	7.64	5.00%	61.12	40.00%		0.00%		0.00%
155	MAH/S/NAI	29.90	20.90	69.90%						0.00%		0.00%	9.00	30.10%		0.00%		0.00%		0.00%
156	MAH/S/NAR	12.35	12.35	100.00%											12.35	100.00%				
157	MAH/S/PAI	324.64	324.62	99.99%			Painaganga river			0.00%		0.00%	5.00	1.54%		0.00%		0.00%		0.00%
158	MAH/S/RAD	351.16	263.08	74.92%	51.42	14.64%				0.00%		0.00%	9.22	2.63%		0.00%		0.00%		0.00%
159	MAH/S/SAG	10.87	10.87	100.00%						0.00%		0.00%	5.00	45.99%		0.00%		0.00%		0.00%
160	MAH/S/TIP	140.29	140.29	100.00%			Painganga 8km river			0.00%		0.00%	42.08	30.00%	28.05	19.99%		0.00%		0.00%
161	MAH/S/WAN	205.86	205.86	100.00%			Wanriver 24kms			0.00%		0.00%		0.00%	205.86	100.00%		0.00%		0.00%
162	MAH/S/YAW	177.52	177.52	100.00%	0.40	0.23%	11kms			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
163	MAH/S/YED	22.37	22.37	100.00%						0.00%		0.00%	5.00	22.35%		0.00%		0.00%		0.00%
164	MAN/N/KEI	40.00	1.20	3.00%	24.60	61.50%	4. Km. (Khordak Stream)		0.20	0.50%	14.00	35.00%		0.00%		0.00%		0.00%		0.00%

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165	MAN/S/YAN	184.40	184.40	100.00%											184.40					
166	MEG/N/BAL	220.00	213.00	96.82%						0.00%		0.00%	7.00	3.18%		0.00%		0.00%		0.00%
167	MEG/N/NOK	47.48	47.48	100.00%			Not yet surveyed			0.00%		0.00%		0.00%	47.48	100.00%		0.00%		0.00%
168	MEG/S/BAG	0.03	0.03	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
169	MEG/S/NON	29.00	25.00	86.21%	1.00	3.45%	60 kms			0.00%		0.00%	3.00	10.34%		0.00%		0.00%		0.00%
170	MEG/S/SIJ	5.18	5.18	100.00%	0.01	0.10%	4km			0.00%		0.00%	0.01	0.19%		0.00%		0.00%		0.00%
171	MIZ/N/MUR	200.00	200.00	100.00%			136 km			0.00%		0.00%	0.00	0.00%	194.00	9700.00%		0.00%		0.00%
172	MIZ/N/PHA	50.00	48.00	96.00%			2 k.m.			0.00%		0.00%	2.00	4.00%	50.00	100.00%		0.00%		0.00%
173	MIZ/S/DAM	500.00	498.50	99.70%			100 km			0.00%		0.00%	1.50	0.30%	300.00	60.00%		0.00%		0.00%
174	MIZ/S/KHA	41.00	38.00	92.68%	3.00	7.32%	35 km			0.00%		0.00%		0.00%	40.00	97.56%		0.00%		0.00%
175	MIZ/S/LEN	120.00	120.00	100.00%						0.00%		0.00%		0.00%	120.00	100.00%		0.00%		0.00%
176	MIZ/S/NGE	110.00	110.00	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
177	MP/N/BAN	1161.47			2.00	0.17%				0.00%		0.00%		0.00%		0.00%	0.00	0.00%	0.00	0.00%
178	MP/N/GHU	0.27								0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
179	MP/N/PEN	292.86	238.35	81.39%	54.51	18.61%	24 km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
180	MP/N/SAT	524.37	478.06	91.17%	44.48	8.48%	55			0.00%		0.00%	0.80	0.15%	9.10	1.74%		0.00%		0.00%
181	MP/N/V/AN	4.45	4.45	100.00%	0.45	10.11%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
182	MP/S/BAD	104.45	104.45	100.00%			Dorki-10km, Ibb-5km, Dega-7km			0.00%		0.00%	20.89	20.00%	83.56	80.00%		0.00%		0.00%
183	MP/S/BAG	478.00	231.05	48.34%			170			0.00%		0.00%	71.70	15.00%	47.80	10.00%		0.00%		0.00%
184	MP/S/GAN	368.62	368.62	100.00%			38.25 km			0.00%		0.00%	148.00	40.15%		0.00%		0.00%		0.00%
185	MP/S/KAR	202.21			3.05	1.51%	38.4 km													
186	MP/S/KHE	132.78	132.78	100.00%						0.00%		0.00%	25.00	18.83%		0.00%		0.00%		0.00%
187	MP/S/KUN	344.69	344.69	100.00%			32.00 km			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
188	MP/S/NAR	57.20	57.20	100.00%			10.00 km			0.00%		0.00%	25.00	43.71%	28.00	48.95%		0.00%		0.00%
189	MP/S/NAT	460.00			460.00	100.00%	460			0.00%		0.00%		0.00%	210.00	45.65%		0.00%		0.00%
190	MP/S/NOR	1186.96	1197.04	100.85%			70			0.00%		0.00%		0.00%	50.00	4.21%		0.00%		0.00%
191	MP/S/ORC	44.90	44.90	100.00%			44 km													
192	MP/S/PEN	118.00	118.47	100.40%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%

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193	MP/S/RAL	2.62	2.62	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
194	MP/S/SAI	12.96								0.00%		0.00%	12.96	100.00%		0.00%		0.00%		0.00%
195	MP/S/SAN	364.59	304.61	83.55%			68.4km						18.22	5.00%	72.91	20.00%				
196	MP/S/SAR	348.12	5.68	1.63%						0.00%		0.00%	19.99	5.74%		0.00%		0.00%		0.00%
197	MP/S/SON	209.21					209.21 km.													
198	NAG/N/INT	202.02	202.02	100.00%						0.00%		0.00%	6.00	2.97%		0.00%		0.00%		0.00%
199	NAG/S/FAK	6.41	6.41	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
200	NAG/S/PUL	9.23	9.23	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
201	NAG/S/RAN	4.70	4.70	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
202	ORI/N+S/BHI	145.00	141.45	97.55%			280 km.	40 km.	8.19											
203	ORI/S/BAD	304.03	304.03	100.00%						0.00%		0.00%	0.40	0.13%	182.42	60.00%		0.00%		0.00%
204	ORI/S/BAI	168.35	135.05	80.22%						0.00%		0.00%		0.00%	135.05	80.22%		0.00%		0.00%
205	ORI/S/BAL	71.72	71.72	100.00%				40		0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
206	ORI/S/CHA	193.39	183.59	94.93%	5.09	2.63%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
207	ORI/S/CHI	15.53			15.53	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
208	ORI/S/DEB	346.90	346.90	100.00%			25			0.00%		0.00%	100.00	28.83%	250.00	72.07%		0.00%		0.00%
209	ORI/S/HAD	191.60	104.22	54.39%	31.83	16.61%	12am approx.			0.00%		0.00%		0.00%	50.00	26.10%		0.00%		0.00%
210	ORI/S/KAR	147.66	175.53	118.87%																

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211	ORI/S/KHA	116.00	116.00	100.00%			5kms			0.00%		0.00%		0.00%	116.00	100.00%		0.00%		0.00%
212	ORI/S/KOT	399.50	269.51	67.46%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
213	ORI/S/KUL	272.75	272.75	100.00%	4.00	1.47%	20 km. (3 major streams)	NA					4.00							
214	ORI/S/LAK	174.96	171.23	97.87%	0.20	0.11%	40		3.73	2.13%		0.00%	0.30	0.17%	40.00	22.86%		0.00%		0.00%
215	ORI/S/SATN	795.52	446.69	56.15%	30.10	3.78%	41 Km.													
216	ORI/S/SATS	268.94	169.98	63.20%	0.02	0.01%	River Mahanadi on the Northern border													
217	ORI/S/SIM	2200.00	2200.00	100.00%			300 km. (11 major streams)	NA					80.00							
218	ORI/S/SUN	600.00	509.00	84.83%	10.87	1.81%	(i)Jonk river & (ii)Eleren falls			0.00%		0.00%		0.00%	150.00	25.00%		0.00%		0.00%
219	PUN/S/ABO	186.05								0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
220	PUN/S/AIS	2.60	2.60	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
221	PUN/S/BHA	8.20	8.20	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
222	PUN/S/BHU	6.60	6.60	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
223	PUN/S/DOS	7.50	7.50	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
224	PUN/S/GUR	6.10	6.10	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
225	PUN/S/HAR	86.00			28.00	32.56%							50.00	58.14%						
226	PUN/S/MAH	2.20	2.20	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
227	PUN/S/MOT	5.24	5.24	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
228	PUN/S/TAK	3.86	3.86	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
229	RAJ/N/DES	3162.00								0.00%		0.00%	2000.00	63.25%		0.00%	1162.00	36.75%		0.00%
230	RAJ/N/KEO	28.73	9.73	33.87%	9.50	33.07%							9.50							
231	RAJ/S/BAS	138.69	138.69	100.00%			10 km.													
232	RAJ/S/BHA	195.02	195.02	100.00%																
233	RAJ/S/JAI	52.00	52.00	100.00%													N/A			

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234	RAJ/S/JAM	300.00	276.97	92.32%	4.50	1.50%				0.00%		0.00%	10.00	3.33%		0.00%		0.00%		0.00%
235	RAJ/S/KELA	672.00	400.00	59.52%									100.00							
236	RAJ/S/KUM	608.56	608.56	100.00%									50.00		559.00					
237	RAJ/S/NAH	52.40	50.01	95.44%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
238	RAJ/S/PHU	511.41	511.41	100.00%			10 km.													
239	RAJ/S/SAJJ	5.19	5.19	100.00%											2.50					
240	RAJ/S/SIT	422.94	422.94	100.00%			40 km.													
241	RAJ/S/TAL	7.19								0.00%		0.00%	7.19	100.00%		0.00%	7.19	100.00%		0.00%
242	RAJ/S/TOD	495.27	495.27	100.00%																
243	RAJ/S/VAN	25.60	20.60	80.47%	1.00	3.91%							4.00							
244	SIK/N/KHA	1784.00								0.00%		0.00%	410.00	22.98%		0.00%		0.00%		0.00%
245	SIK/S/BAR	104.00	104.00	100.00%						0.00%		0.00%		0.00%	104.00	100.00%		0.00%		0.00%
246	SIK/S/FAM	51.76	51.76	100.00%											51.76					
247	SIK/S/KYON	31.00	31.00	100.00%						0.00%		0.00%		0.00%	31.00	100.00%		0.00%		0.00%
248	SIK/S/MAE	35.34	35.34	100.00%									35.34		35.34					
249	SIK/S/SHIN	43.00	43.00	100.00%	2.00	4.65%	20			0.00%		0.00%		0.00%	43.00	100.00%		0.00%		0.00%
250	TN/N/GUI	2.82	2.71	95.97%									0.10							
251	TN/N/GUL	6.23						Not determined	6.23		10500.00									
252	TN/N/IND	958.57	958.57	100.00%			Approx.250 kms			0.00%		0.00%	43.22	4.51%		0.00%		0.00%		0.00%
253	TN/N/MUD	321.00	310.75	96.81%			100km.			0.00%			5.00	1.56%		0.00%		0.00%		0.00%
254	TN/N/MUK	78.46					17-25km.			0.00%		0.00%	78.46	100.00%	39.22	50.00%		0.00%		0.00%
255	TN/S/CHI	0.48			0.48	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
256	TN/S/GRI	477.83	477.83	100.00%																

Table 1.1: Habitat Types in PAs
Note: All values for area in this table are in square kilometers

	PA code	Total Area	Forests	Forests%	Wetlands	Wetlands%	Perennial rivers (Length)	Coasts (Length)	Islands	Islands%	Oceans	Oceans%	Rangelands/ grasslands	Rangelands%	Mountains	Mountains%	Deserts	Deserts%	Glaciers	Glaciers%
257	TN/SKAN	1.04			1.04	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
258	TN/SKARA	4.53			4.53	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
259	TN/SKARI	0.65			0.65	100.00%														
260	TN/SKOO	1.20								0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
261	TN/SMEL	5.93			5.93	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
262	TN/SPOIN	25.00	17.28	69.12%				8.5km.		0.00%		0.00%	5.60	22.40%		0.00%		0.00%		0.00%
263	TN/SPUL	61.47			15.00	24.40%		500meters												
264	TN/SUDA	0.44			0.45	102.27%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
265	TN/SVAD	1.28			1.28	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
266	TN/SVALL	16.41			16.41	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
267	TN/SVED	0.27			0.27	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
268	TN/SVELL	0.77			0.77	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
269	TN/SVET	0.38			0.38	100.00%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
270	TRI/S/GUM	389.59	389.16	99.89%			0.38			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
271	TRI/S/TRI	194.70	194.70	100.00%			100			0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
272	UP/S/BAK	28.94	0.15	0.52%	18.20	62.89%							10.59							
273	UP/S/CHA	96.00	96.00	100.00%			15.5 km.													
274	UP/S/KAC	7.00	7.00	100.00%	7.00	100.00%	7.00 km.													
275	UP/S/KAI	501.00	647.18	129.18%			64 km.								46.00					
276	UP/S/KAT	400.09	400.09	100.00%	17.43	4.36%	29.45 km.						50.00							
277	UP/S/LAK	80.24																		
278	UP/S/MAH	5.42	5.42	100.00%																
279	UP/S/NAT	635.00	235.00	37.01%			210 km.													
280	UP/S/NAW	2.25	0.85	37.67%	1.40	62.33%														
281	UP/S/OKH	4.00			4.00	100.00%														
282	UP/S/SPAR	10.84			10.84	100.00%														
283	UP/S/PAT	1.05			0.75	71.43%														
284	UP/S/RAN	220.41	220.41	100.00%																
285	UP/S/SAMN	5.26	1.46	27.76%	3.80	72.24%														
286	UP/S/SAMS	7.99	2.99	37.42%	5.00	62.62%														
287	UP/S/SAN	2.25			3.09	137.13%														
288	UP/S/SOH	428.20	392.20	91.59%			200 km.													
289	UP/S/SUH	452.47	452.47	100.00%									28.81							
290	UP/S/SURA	34.33	34.33	100.00%	34.33	100.00%	2.0 km.		0.02				0.02							
291	UP/S/SURS	7.13	4.13	57.92%	3.00	42.08%														
292	UP/S/VIJ	2.62																		
293	UTT/N/COR	520.82	447.02	85.83%			Ramganga river 18 kms.			0.00%		0.00%	28.00	5.38%		0.00%		0.00%		0.00%
294	UTT/N/GAN	2390.02	25.15	1.05%									266.38						1893.14	

Table 1.1: Habitat Types in PAs
Note: All values for area in this table are in square kilometers

	PA code	Total Area	Forests	Forests%	Wetlands	Wetlands%	Perennial rivers (Length)	Coasts (Length)	Islands	Islands%	Oceans	Oceans%	Rangelands/ grasslands	Rangelands%	Mountains	Mountains%	Deserts	Deserts%	Glaciers	Glaciers%
295	UTT/N+S/GOV	957.97	305.96	31.94%									198.59		957.97				230.90	
296	UTT/S/ASK	599.93	170.38	28.40%	85.00	14.17%									600.00				345.00	
297	UTT/S/BIN	47.07	47.07	100.00%						0.00%		0.00%		0.00%	47.07	100.00%		0.00%		0.00%
298	UTT/S/BINO	3.39	3.39	100.00%			4 km.								3.39					
299	UTT/S/KED	975.20	975.20	100.00%						0.00%		0.00%	6.45	0.66%		0.00%	310.40	31.83%	10.05	1.03%
300	UTT/S/SON	301.10	301.10	100.00%			31 km.													
301	WB/N/GOR	79.45	79.45	100.00%						0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
302	WB/N/NEO	88.00	88.00	100.00%																
303	WB/N/SUN	2585.00	1680.00	64.99%	905.00	35.01%	Including the above	20 km				0.00%		0.00%		0.00%		0.00%		0.00%
304	WB/S/BAL	2.02	1.82	90.10%	0.20	9.90%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
305	WB/S/BET	0.67	0.67	100.00%	0.02	2.99%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
306	WB/S/BIB	0.64	0.64	100.00%	0.02	3.13%	2 km						0.00	0.14%						
307	WB/S/CHA	9.49	9.49	100.00%	0.15	1.58%	Not known	0					0.75							
308	WB/S/HAL	5.95	5.95	100.00%					5.95	100.00%		0.00%		0.00%		0.00%		0.00%		0.00%
309	WB/S/LOT	38.00	38.00	100.00%					38.00	100.00%										
310	WB/S/RAI	1.30	1.30	100.00%	0.50	38.46%	4.5km			0.00%		0.00%	0.40	30.77%		0.00%		0.00%		0.00%
311	WB/S/RAM	0.14	0.14	100.00%	0.01	6.99%				0.00%		0.00%		0.00%		0.00%		0.00%		0.00%
312	WB/S/SEN	38.88	38.88	100.00%																
Total		100907.70	53270.39	52.79%	5440.43	5.39%			627.59	0.62%	10543.12	10.45%	10350.89	10.26%	24179.19	23.96%	6709.30	6.65%	7221.26	7.16%

Table 1.2: Forest Types

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
1	A&N/N/SAD	32.54	Andaman tropical evergreen forests	1A/C2	
	A&N/N/SAD		Andaman moist deciduous forests	3A/C1	
	A&N/N/SAD		Andaman semi evergreen forests	2A/C1	
	A&N/N/SAD		Cane brake	1/E1	
	A&N/N/SAD		Wet bamboo	1/E2	
	A&N/N/SAD		Littoral forests	4A/L1	
2	A&N/S/CUT	5.82	Littoral forests	4A/L1	40 m. wide belt in the PA
	A&N/S/CUT		Giant evergreen forests	1A/C1	
3	A&N/S/INT	133	Andaman tropical evergreen forests	1A/C2	
	A&N/S/INT		Andaman semi evergreen forests	2A/C1	
	A&N/S/INT		Littoral forests	4A/L1	
	A&N/S/INT		Mangrove Forests	4B/TS2	
4	A&N/S/NAR	6.81	1A/C2		
	A&N/S/NAR		2A/C1		
	A&N/S/NAR		3A/C1		
	A&N/S/NAR		4A/L1		
	A&N/S/NAR		4B/TS2		
5	A&N/S/NOR	3.48	1A/C2		
	A&N/S/NOR		2A/C1		
	A&N/S/NOR		4B/TS2		
	A&N/S/NOR		4A/L1		
6	AP/N/KAS	1.425	Southern Dry Mixed Deciduous Forest of Deccan Plateau	5A/C3	1.425
7	AP/N/MAH	14.59	Southern Tropical Dry Mixed Deciduous forest,	5A/C3	14.59
8	AP/N/MRU	2.8	Southern dry mixed deciduous forest	5A/C3	2.8
9	AP/N/VEN	525.97	Southern tropical dry deciduous forests	5A	150
	AP/N/VEN	375.97	Dry red Sanders- bearing forests	5A/C2	134.31
10	AP/S/COR	235.7	Mangroves		235.7
11	AP/S/ETU	803	Dry Teak Bearing Forests	5A/C1(b)	380.35
	AP/S/ETU		Southern Dry Mixed Deciduous Forests	5A/C3	425.46
12	AP/S/GUN	1194	Southern Tropical dry deciduous Forest	5A	
13	AP/S/KAW	893		Sub group A	141.27
	AP/S/KAW			Type C1	167.74
	AP/S/KAW		Tropical Dry Deciduous forest	Group 5	95.19
	AP/S/KAW			Sub Type B	202.93
	AP/S/KAW			5AC1	227.9
	AP/S/KAW		Southern Tropical Dry Deciduous	5AC1	95.2
14	AP/S/KOL	308	Wet Lands		308
15	AP/S/KOU	357.63	Southern Tropical Dry Mixed Deciduous forest	5A/C3	142
	AP/S/KOU		Southern Tropical Dry Mixed Deciduous forest	5A/C3	145
	AP/S/KOU		Southern Thorn forest	6A/C1	6.11
	AP/S/KOU		Southern Thorn forest	6A/C1	64.52
16	AP/S/KRI	194.21	Mangrove Forest		60
17	AP/S/MAN	20	Not Reported		
18	AP/S/NEL	4.58	Tropical DryEvergreen Forests& Tropical DryEvergreen Scrub	[7/C1 & 7/DS1]	3.75
	AP/S/NEL		Barringtonia (Warm) Forests		0.3

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
19	AP/S/PAK	860	Tropical Dry Deciduous forest	5	
	AP/S/PAK		Southern Tropical Dry Deciduous forest	5A	
	AP/S/PAK		Dry Teak Bearing forest	5A/C1(b)	
	AP/S/PAK		Southern Dry Mixed Deciduous forest	5A/C3	
	AP/S/PAK		Boswellia Forest	5F2	
	AP/S/PAK		Saline Forests	5F	
20	AP/S/PAP	590.68	Southern Tropical Secondary Dry Deciduous Forest	5A/C3	
	AP/S/PAP		Secondary Southern Moist Mixed Deciduous forest	3B/C2	
	AP/S/PAP		Dry Savana forest	5/DS2	
21	AP/S/POC	130	Southern Tropical Dry Deciduous Forest	5A/C3	78
	AP/S/POC		Southern Tropical Dry Deciduous Forests/Dry Scrub Forest	5A/C3	52
22	AP/S/PRA	136		5A/C1	
23	AP/S/PUL	600	Tropical Dry Evergreen Forests	7/C1	4.53
	AP/S/PUL		Tropical Dry Evergreen Scrub	7/DS1	11.63
24	AP/S/SIW	30	Dry Teak forest	5A/C1	32.7603
	AP/S/SIW		Dry Teak foresst	5A/C1	32.7603
25	ARU/N/MOU	483	Sub-Himalayan light alluvial semi-evergreen forest	2B/C1/1S1	96.6
	ARU/N/MOU		<i>Syzygium</i> parkland	2B/C1/1S2	120.15
	ARU/N/MOU			3C/1S2 (B)(?)[NO SUCH FOREST TYPE]	24.15
	ARU/N/MOU		Secondary moist bamboo brakes	2/2S1	48.3
	ARU/N/MOU		Temperate Broadleaved forest(?)		145.5
	ARU/N/MOU		Temperate coniferous forest(?)		48.3
26	ARU/N/NAM	1985.25	Assam valley tropical wet evergreen forest(<i>Dipterocarpus</i>)	1B/C1	
	ARU/N/NAM		Kayea forest	1B/C2a	
	ARU/N/NAM		Mesua forest	1B/C2b	
	ARU/N/NAM		Assam Valley semi evergreen forest	2B/C1	
	ARU/N/NAM		Sub-Himalayan light alluvial semi-evergreen forest	2B/1S1	
	ARU/N/NAM		Secondary moist bamboo brakes	2/2S1	
	ARU/N/NAM		Eastern hollock forests (<i>Terminalia myriocarpa</i>)	3/1S2b	
	ARU/N/NAM		Eastern Himalayan moist temperate forest	12/C3	
	ARU/N/NAM		Birch/ <i>Rhododendron</i> scrub forest	15/C1	
27	ARU/S/DER	190	Assam alluvial plains semi-evergreen forest	2B/C1a	28.5
	ARU/S/DER		Alluvial grassland(?)		142.5
28	ARU/S/KAM	783	Tropical Wet Evergreen Forests	GROUP 1	783
29	ARU/S/MEH	281.5	Tropical Wet Evergreen Forests	GROUP 1	90
	ARU/S/MEH		Tropical Semi-Evergreen Forests	GROUP 2	105
	ARU/S/MEH		Temperate Forest(?)		82
	ARU/S/MEH		Bamboo Forest(?)		4.3
	ARU/S/MEH		Grass Land(?)		0.2
30	ARU/S/YOR	445.975	Eastern Himalayan Semi Evergreen Forest(?)	2B/C1a(?)[THIS FOREST TYPE IS ASSAM ALLUVIAL PLAINS SEMI- EVERGREEN FOREST]	

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	ARU/S/YOR		Sub Himalayan light alluvial semi-evergreen forest	2B/1S1	
	ARU/S/YOR		Secondary moist bamboo brakes	2/2S1	
31	ASS/N/DIB	340			
32	ASS/N/KAZ	407.9	Eastern seasonal swamp forest, <i>Barringtonia</i> swamp forest, <i>Syzygium cumini</i> swamp low forest, Eastern seasonal swamp low forest(<i>Cephalanthus</i>) & Eastern <i>Dillenia</i> swamp forest	4D/SS1,4D/SS2,4D/SS3,4D/SS4 &4D/SS5	114.01
	ASS/N/KAZ		Tall alluvial grassland(?)		248.85
	ASS/N/KAZ		Alluvial Short grassland(?)		12.3
	ASS/N/KAZ		Wetland (Aquatic grass)(?)		24.32
33	ASS/N/MAN	519.77	Low alluvial Savannah woodland	3/1S1	370
	ASS/N/MAN		Assam Semi-evergreen forest	2B/C1(a,b)	50
	ASS/N/MAN		Sub-himalayan high alluvial semi-evergreen	2B/C1/1S1	100
34	ASS/N/NAME	200	Eastern Alluvial Secondary Semi Evergreen forest	2B/2S2	
	ASS/N/NAME		Eastern Wet Alluvial Grassland	4D/2S2	
	ASS/N/NAME		Eastern Dillenia Swamp forest	4D/3S5	
35	ASS/N/ORA	78.8	deciduous(?)		
36	ASS/S/BAR	26.21	Semi deciduous type(?)		
37	ASS/S/BUR	44	Low Alluvial Savanna Woodland	3/1S1	20.06
	ASS/S/BUR		Eastern Wet Alluvial Grassland	4D/2S2	19.5
	ASS/S/BUR		Swamp forest	5S2	4.5
38	ASS/S/DIP	4.14	Not Reported		
39	ASS/S/EKAR	221.81	Moist Semi-evergreen forest	2BC-1/b	221.81
40	ASS/S/GAR	6	Moist semi evergreen	2BC-1/s	6
41	ASS/S/GIB	19.16	Tropical Semi Evergreen Forest	GROUP 2	19.16
42	ASS/S/KAR	96	Moist Deciduous forest		52
	ASS/S/KAR		Degraded forest		44
43	ASS/S/LAO	70.1	Eastern wet alluvial grassland	4D/2S2	20
	ASS/S/LAO		Low alluvial Savannah woodland	3/1S1	7.1
	ASS/S/LAO		Seral stages of moist mixed deciduous formation(?)		20
	ASS/S/LAO		Tropical Semi-evergreen formation(?)		15
	ASS/S/LAO		Aquatia area(?)		8
44	ASS/S/NAMB	37	Moist Semi-evergreen forest	2BC-1/b	37
45	ASS/S/PAN	33.93	Not Reported		
46	ASS/S/POB	16	Eastern wet alluvial grassland	4D/2S2	11.45
	ASS/S/POB		i swamp forest	4D/SS2	0.65
	ASS/S/POB		Low alluvial savannah woodland	3/1S1	2.04
47	ASS/S/SON	220	Tropical Wet Evergreen Forests	GROUP 1	
	ASS/S/SON		Assam Alluvial plains semi-evergreen forest	2B/C1a	
	ASS/S/SON		Bamboo Brakes(?)		
	ASS/S/SON		Cane Brakes(?)		
	ASS/S/SON		Grass land and Thatch area(?)		
	ASS/S/SON		Deciduous(?)		
48	BIH/S/RAJ	35.84	Dry deciduous Miscellaneous type		35.84

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
49	CHD/S/SUK	26.11	Not Reported		9.96
	CHD/S/SUK				16.02
50	CHT/N/IND	2799.09	Southern dry mixed deciduous forest	5A/C3	
	CHT/N/IND		forest	3B/C2	
51	CHT/N/KAN	200	Moist peninsular valley sal forest	3C/C2eiii	150
	CHT/N/KAN		forest	3B/C2	35
	CHT/N/KAN		Slightly moist teak forest	3B/C1c	15
52	CHT/S/ACH	551.552	Moist Sal Bearing Forest	3C/C2	551.55
53	CHT/S/BAR	244.66	Sal forest		
			Teak forest		
			Teak Plantations		
			Mixed Forest		
			Bamboo overlapping		
54	CHT/S/BHA	138.95	Southern dry mixed deciduous forest	5A/C3	138.95
55	CHT/S/GOM	277.82	Northern Dry Mixed Deciduous Forest	5B/C2	277.82
56	CHT/S/PAM	442.23	Southern moist mixed deciduous	3B/C2	382
	CHT/S/PAM		Southern dry mixed deciduous forest	5A/C3	60.23
57	CHT/S/SIT	558.55	Mixed Sal Forest		
58	CHT/S/TAM	608.527	Dry peninsular sal forest	5B/C1c	268.69
	CHT/S/TAM		Northern dry mixed deciduous forest	5B/C2	315.36
	CHT/S/TAM		Khair-sissu forest	5B/1S2	9.8
59	CHT/S/UDA	237.27	Southern dry mixed deciduous forest	5A/C3	
	CHT/S/UDA		Dry Teak Forest	5A/C1b	
	CHT/S/UDA		Dry peninsular sal forest	5B/C1c	
	CHT/S/UDA		Moist peninsular sal forest	3C/C2eii	
	CHT/S/UDA		Northern dry mixed deciduous forest	5B/C2	
60	DEL/S/ASO	27.81	North Tropical Thorn		27.81
61	GOA/S/BON	7.95	Western Coastal Semi Evergreen		2
	GOA/S/BON		Moist Bamboo brakes		3
	GOA/S/BON		Southern Secondary Moist Mixed Deciduous forest		3
62	GOA/S/CHO	1.8		4BTS2	1.8
	GOA/S/CHO		Mangrove forest		
	GOA/S/CHO		Mangrove forest		0.8
63	GUJ/N/BAN	23.99	Tropical Moist Deciduous Forest	3	23.99
64	GUJ/S/PUR	160.345	Tropical Moist Deciduous Forest	3	160.35
			Tropical Dry Deciduous Teak Bearing forest , Southern Tropical Dry Mixed Deciduous forests	5A/C1, 5A/C3	54.24
65	GUJ/S/RAT	55.65			
66	GUJ/S/WIL	4953.71	Mangrove Scrub	4B/TS1	
	GUJ/S/WIL		Dry Deciduous Scrub	5/DS1	
	GUJ/S/WIL		Dry Savannah Forest	5/DS2	
	GUJ/S/WIL		Desert Thorn Forest	6B/C1	
	GUJ/S/WIL		Zizyphus Scrub	6B/DS1	
67	HAR/N/SUL	1.42	Not Reported		
68	HAR/S/ABU	113.968	Not Reported		
69	HAR/S/BHI	4.07	Not Reported		
70	HAR/S/BIRB	4.14	Not Reported		
71	HAR/S/BIRS	7.584	Not Reported		
72	HAR/S/CHIL	0.28	Not Reported		
73	HAR/S/KAL	100	Not Reported		100
74	HAR/S/KHA	0.816	Not Reported		
75	HAR/S/NAH	2.09	Not Reported		
76	HAR/S/SAR	44.02	Not Reported		
77	HP/N/GRE	905.4	Not Reported		

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
78	HP/S/DAR	46.5857	Moist deodar forests	12/C1c	1.24
	HP/S/DAR		Western Mixed coniferous forests	12/C1d	25.99
	HP/S/DAR		Moist temperate deciduous forests	12/C1e	15.31
	HP/S/DAR		Kharsu oak forests	12/C2a	4.05
	HP/S/DAR		West Himalayan sub alpine forests	14/C1b	
79	HP/S/DHA	943.98	Ban oak forests	12/C1a	8.87
	HP/S/DHA		Moist deodar forests	12/C1c	1.51
	HP/S/DHA		Western Mixed coniferous forests and Himalayan temperate parkland	12/C1d and 12/DS2	73.33
	HP/S/DHA		Kharsu oak forests and Birch/Rhododendron scrub	12/C2 a and 15/C1	50.02
	HP/S/DHA		Himalayan temperate pasture, Sub-alpine pasture and Alpine pasture	12/DS3, 14/DS1 and 15/C3	254.46
80	HP/S/GAM	109	Moist deodar forests	12/C1c	35
	HP/S/GAM		Western Mixed coniferous forests	12/C1d	45
	HP/S/GAM		Kharsu oak forests	12/C2a	4
	HP/S/GAM		Alpine pastures	15/C3	25
81	HP/S/KAI	12.6108	Not Reported		
82	HP/S/KAL	69.47	Moist deodar forests	12/C1c	14.6626
	HP/S/KAL		Ban oak forests	12/C1a	1.2
	HP/S/KAL		Western Mixed coniferous forests	12/C1d	5.5289
83	HP/S/KAN	58.1797	Not Reported		
84	HP/S/KHO	19.3474	Not Reported		
85	HP/S/KUG	378.87	Moist deodar forests	12/C1c	0.0971
	HP/S/KUG		Western Mixed coniferous forests	12/C1d	41.5958
	HP/S/KUG		Deciduous alpine forests	15/C2	75.6741
	HP/S/KUG		Alpine pastures	15/C3	243.6542
86	HP/S/LIP	30.89	Dry deodar forests	12/C2b	
	HP/S/LIP		Dry Alpine scrub	16/C1	
	HP/S/LIP		Dwarf juniper scrub	16/B1d	
	HP/S/LIP		Alpine pastures	15/C3	
87	HP/S/MAN	29.003	Moist Deodar forest	12/C1c	2.88
	HP/S/MAN		Western Mixed Coniferous forest	12/C1d	12.783
	HP/S/MAN		Kharsu Oak forest	12/C2a	1.34
	HP/S/MAN		Himalayan Temperate Pastures	12/DS3	4
	HP/S/MAN		Birch/Rhododendron Scrub forest	15/C1	3
	HP/S/MAN		Alpine Pastures	15/C3	5
88	HP/S/NAR	139.05	Not Reported		
89	HP/S/PON	307.7	Not Reported		
90	HP/S/RUP	269.15	Upper or Himalayan chir pine forests	9/C1b	20
	HP/S/RUP		Ban oak forests	12/C1a	10
	HP/S/RUP		Western Mixed coniferous forests	12/C1d	56
	HP/S/RUP		Moist temperate deciduous forests	12/C1e	5
	HP/S/RUP		Low level blue pine forests	12/C1f	10
	HP/S/RUP		Kharsu oak forests	12/C2a	5
	HP/S/RUP		Alder forests	12/1S1	2
	HP/S/RUP		West Himalayan sub alpine forests	14/C1b	3

Table 1.2: Forest Types
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Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	HP/S/RUP		Alpine pastures	15/C3	110
	HP/S/RUP		Dry Alpine scrub	16/C1	2
91	HP/S/SAN	650	Ban oak forests	12/C1a	
	HP/S/SAN		Moist deodar forests	12/C1c	
	HP/S/SAN		Western Mixed coniferous forests	12/C1d	
	HP/S/SAN		Moist temperate deciduous forests	12/C1e	
	HP/S/SAN		Low level blue pine forests	12/C1f	
	HP/S/SAN		Kharsu oak forests	12/C2a	
	HP/S/SAN		Dry broad leaved and coniferous forests	13/C1	
	HP/S/SAN		Neozoa pine forests	13/C2a	
	HP/S/SAN		Dry deodar forests	12/C2b	
	HP/S/SAN		Alpine pastures	15/C3	
	HP/S/SAN		Dry Alpine scrub	16/C1	
92	HP/S/SHI	90.37	Moist deodar forests	12/C1c	
	HP/S/SHI		Ban oak forests	12/C1a	
	HP/S/SHI		Moist temperate deciduous forests	12/C1e	
	HP/S/SHI		Western Mixed coniferous forests	12/C1d	
	HP/S/SHI		Kharsu oak forests	12/C2a	
	HP/S/SHI		Upper or Himalayan chir pine forests	9/C1b	
93	HP/S/TUN	64	Western Mixed coniferous forests	12/C1d	59.9774
	HP/S/TUN		Low level blue pine forests	12/C1f	14.1359
	HP/S/TUN		Sub alpine forest	15/C1	3.0555
	HP/S/TUN		Deciduous alpine forest	15/C2	1.8433
	HP/S/TUN		Alpine Pastures	15/C3	8.8321
94	J&K/N/HEM	3350	Riverine forest		300
95	J&K/N/KIS	425	Mixed conifer		325
	J&K/N/KIS		Forest in the area of 35% of the total area (425) sq.km.		325
	J&K/N/KIS		Moist temperate deciduous forest		
	J&K/N/KIS		Mixed conifer forest		
96	J&K/S/CHA	4000	Mycricaria spp.		100
97	J&K/S/KAR	5000	Hippophae spp.		30
98	J&K/S/OVE	425	Not Reported		
99	JHA/S/HAZ	186.255	Dry peninsular sal forest	5B/C1c	
	JHA/S/HAZ		Northern dry mixed deciduous forest	5B/C2	
	JHA/S/HAZ		Dry Bamboo brake	5/E9	
100	JHA/S/PAR	50.8	Dry Sal bearing Forests	5B/C1	
	JHA/S/PAR		Northern mixed deciduous forests	5B/C2	
	JHA/S/PAR		Dry deciduous scrub forests	5/DS1	
	JHA/S/PAR		<i>Boswellia</i> Forests	5/E2	

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	JHA/S/PAR		Central Indian Subtropical Hill Forest	8A/C3	
101	JHA/S/RAJ	0.74	Not Reported		
102	JHA/S/UDH	1.27	Not Reported		
103	KAR/N/ANS	250	Moist Deciduous	3B/C2	59.53
	KAR/N/ANS		Semi-ever green	2A/C2	119
	KAR/N/ANS		Semi-ever green	2A/C2	51.57
	KAR/N/ANS		Ever green	1A/C4	19.9
104	KAR/N/BAND	880.02	Moist Mixed Deciduous		394.59
	KAR/N/BAND		Dry Deciduous		320.07
	KAR/N/BAND		Scrub type		165.36
105	KAR/N/BANN	104.27	Dry Deciduous		73
	KAR/N/BANN	104.27	Dry Deciduous Scrub		31.24
106	KAR/N/KUD	600.324	1A/C4		185.99
	KAR/N/KUD		2A/C2		196.334
	KAR/N/KUD		5D/S2		218
107	KAR/N/NAG	643.392	Moist-Deciduous		104.074
	KAR/N/NAG		Moist/Dry Deciduous		111.152
	KAR/N/NAG		Scrub/Dry Deciduous		48.906
	KAR/N/NAG		Dry Deciduous		63.072
	KAR/N/NAG		Dry Deciduous		89.557
	KAR/N/NAG		Dry Deciduous/Semi evergreen		136.473
	KAR/N/NAG		Dry/moist deciduous		90.155
108	KAR/S/ADI	0.885	5DS1-Dry deciduous forest scrub		0.885
109	KAR/S/ARA	13.5	5 AC3 (3 is subscript)		13.5
110	KAR/S/ATT	2.226	Moist Deciduous		2.226
111	KAR/S/BHA	492.46	Moist deciduous		396.84
	KAR/S/BHA		Dry deciduous		70.17
	KAR/S/BHA		Evergreen and grassy blanks(Shola and grassy blanks)		17.68
112	KAR/S/BIL	540	Dry Deciduous forest, Evergreen		234.78
	KAR/S/BIL		Dry Deciduous forest		86.22
	KAR/S/BIL		Evergreen forest		218.52
113	KAR/S/BRA	181.29	Tropical Wet evergreen		
	KAR/S/BRA		Shola Forest		
	KAR/S/BRA		Tropical-Moist Deciduous forest		
	KAR/S/BRA		Tropical-Dry Deciduous Forest		
	KAR/S/BRA		Tropical-Semi- Every green		
	KAR/S/BRA		Grassland Total		
114	KAR/S/DAN	475.018	Moist-Deciduous 3A/C1		142.758
	KAR/S/DAN		Moist-Deciduous 3A/C1		151.9
	KAR/S/DAN		Moist-Deciduous 3A/C1		84.77
	KAR/S/DAN		Moist-Deciduous 3A-C1		33.28
	KAR/S/DAN		Semi-evergreen 2A/C2		21.19
	KAR/S/DAN		Semi-evergreen 2A/C2		41.12
115	KAR/S/DOR	55.873	Open Srub Forest		55.873
116	KAR/S/GHA	29.785	Not Reported		29.785
117	KAR/S/GUD	0.7368	Moist Deciduous Forest		0.4368
118	KAR/S/KAV	526.95	Southern Tropical Dry Deciduous Forest		526.955
	KAR/S/KAV		Type 5A Champion		
	KAR/S/KAV		Type 5A Champion classified		
119	KAR/S/MEL	49.82	Dry Deciduous scrub forest		4.48
	KAR/S/MEL		Dry Deciduous scrub forest		45.34

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
120	KAR/S/MOO	247	West Coast Tropical Evergreen Forests		60
	KAR/S/MOO		West Coast Semi Evergreen Forests		70
	KAR/S/MOO		Southern Secondary Moist Mixed Deciduous Forest		70
	KAR/S/MOO		Dry Grass Lands and others		47
121	KAR/S/NUG	30.32	Southern Dry Mixed Deciduous Forest	5AC3	30.32
122	KAR/S/PUS	92.66	Tropical Semi-Evergreen		19.5
	KAR/S/PUS		Tropical Wet Evergreen		30.65
	KAR/S/PUS		Shola Forest		10.1
	KAR/S/PUS		Tropical Moist Deciduous		7.6
	KAR/S/PUS		Grasslands		24.8
123	KAR/S/RANE	119	Southern Forests		119
124	KAR/S/RANG	67	5 DS1 - Dry Deciduous Scrub		0.67
125	KAR/S/SHA	431.26	Evergreen Forests		192.84
	KAR/S/SHA		Evergreen Forests		7.65
	KAR/S/SHA		Moist Deceduous		102.03
126	KAR/S/SHE	395.6	Southern Tropical Dry Deciduous		243
	KAR/S/SHE		Southern Tropical Moist Deciduous		107
	KAR/S/SHE		Semi Evergreen		45.6
127	KAR/S/SOM	88.97	1A/C4		15
	KAR/S/SOM		2A/C2		50
	KAR/S/SOM		3B/C2/2Si		23.97
128	KAR/S/TAL	105.01	Tropical Wet Evergreen		35
	KAR/S/TAL		Tropical Moist Deciduous		26
	KAR/S/TAL		Semi Evergreen		9
	KAR/S/TAL		Shola		6
	KAR/S/TAL		Grass land		29
129	KER/N/ERA	100	Southern montane wet temperate forests (Shola forests)	11A/C1	30
	KER/N/ERA		Southern montane wet grasslands	11A/C1/DS2	70
	KER/N/ERA		Southern montane wet scrub	11A/C1/DS1	3
	KER/N/ERA		South Indian tropical hill savannah	8A/C1/DS1	1
	KER/N/ERA		West coast tropical evergreen forest	1A/C4	2
130	KER/S/ARA	55	West Coast Tropical Evergreen		21
	KER/S/ARA		West Coast Semi-evergreen		28.087
	KER/S/ARA		South Indian Moist Deciduous		3
	KER/S/ARA		Plantations		2.913
131	KER/S/CHIN	90.442	Laterite Thorn Forest	5/E7	30
	KER/S/CHIN		Southern dry mixed deciduous forest	5A/C3	55
	KER/S/CHIN		Southern montane wet grasslands	11A/C1/DS2	10
	KER/S/CHIN		Southern montane wet temperate forests (Shola forests)	11A/C1	5
132	KER/S/WAY	344.44	Southern moist mixed deciduous forests	3B/C2	
	KER/S/WAY		West coast semi-evergreen forest	2A/C2	
133	MAH/N/AND	625.4	Southern tropical dry deciduous forest.	5A-CI-1B	
134	MAH/N/NAV	133.884	Southern Tropical dry deciduous forest	5A/C3	133.884
135	MAH/N/PEN	257.26	Southern Tropical dry deciduous forest		
	MAH/N/PEN		Dry teak bearing	5A/C/ii/v	200

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	MAH/N/PEN		Southern dry deciduous mixed forest	5A/C-3	57.26
136	MAH/N/SAN	103.09	Type 3 B/C-7 M.Teak bearing forest		15.1791
	MAH/N/SAN		Type 3/B C-2 Southern Moist mixed deciduous forest		86.8676
	MAH/N/SAN		Type 4B/TS-1 Mangrove Scrub Forest		0.65689
	MAH/N/SAN		Type 8A A/C-2 Western Sub tropical hill forest		0.39.04
	MAH/N/SAN		Mangrove Scrub 4B/TS-1		
	MAH/N/SAN		Semi evergreen patches 8A/C-2		
137	MAH/S/AMB	127.11	S.Tropical Dry Deciduous	5A/C-I	127.11
	MAH/S/AMB		'A' Type		124.72
138	MAH/S/ANE	82.94	Not Reported		
139	MAH/S/BHA	104.38	Southern India 'Moist deciduous 'Mixed forest	3 B/C 2	104.38
140	MAH/S/BHI	130.78	Sub Tropical Evergreen forest		69
	MAH/S/BHI		Western Sub-tropical hill forests		14
	MAH/S/BHI		Moist Deciduous forest		30
141	MAH/S/BOR	61.1	Not Reported		
142	MAH/S/CHAN	308.97	Western Sub Tropical hill forests	8A/C2	78.73
	MAH/S/CHAN		West Coast Semi Evergreen forests	2A/C2	73.11
	MAH/S/CHAN		Southern Moist Mixed Deciduous forests	3B/C2	35.61
143	MAH/S/CHAP	133.23	5 A Southern Tropical dry deciduous Forest		133.23
144	MAH/S/DEU	2.17	Dry Deciduous scrub forest		2.17
	MAH/S/DEU		Deccan Peninsula Central plateau	6 B	
145	MAH/S/GAU	260	Southern tropical Dry deciduous 'Thorny forest	5A-C	260
146	MAH/S/GRE	8496.41	Dry Deciduous Scrub forest and Thorn forest		
	MAH/S/GRE		Southern Tropical Thorn forest	6A/O	
147	MAH/S/GYA	203.56	Southern Tropical dry deciduous	6B	203.56
148	MAH/S/JAI	341.05	Not Reported		
149	MAH/S/KAL	361.71	Southern tropical evergreen forests		
	MAH/S/KAL		Southern tropical dry deciduous forest		
	MAH/S/KAL		Moist deciduous forest		
150	MAH/S/KAR	4.27	3B/C2		4.18
	MAH/S/KAR		4F		0.09
151	MAH/S/KAT	73.69	Southern tropical dry deciduous forest	4AC/1	38.76
152	MAH/S/MAL	29.122	Not Reported		
153	MAH/S/MAY	5.145	Southern Tropical Dry Deciduous Thorn forest		
154	MAH/S/NAG	152.81	5A/ C-3		152.81
155	MAH/S/NAI	29.9	Southern tropical dry deciduous thorny forest	5A-3C	29.9
156	MAH/S/NAR		Southern tropical Dry deciduous Forest,sub group 5-A		12.35
157	MAH/S/PAI	324.64	Southern tropical dry deciduous		177.53
	MAH/S/PAI		Southern tropical dry deciduous		185.92
158	MAH/S/RAD	351.16	Western Tropical hill forests(evergreen)		

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	MAH/S/RAD		West coast semi-evergreen forests.	2A/C2	
	MAH/S/RAD		Southern moist mixed deciduous forests	3B/C2	
159	MAH/S/SAG	10.87	Major group:-Tropical Forest.Sub Group:-Southern Tropical Thorn Forest		10.87
160	MAH/S/TIP	140.29	Dry deciduous		140.29
	MAH/S/TIP		5A Southern Tropical Dry Deciduous Forest		140.29
161	MAH/S/WAN	205.86	Southern tropical'Dry Deciduous Teak Bearing Forest sub group 5AC1(b)		205.86
162	MAH/S/YAW	177.52	Type-1 Southern Tropical Dry Deciduous subtype-5AC1b		177.52
163	MAH/S/YED	22.37	Southern tropical dry deciduous thorny forest 5 A.3 C		22.37
164	MAN/N/KEI	40	Pine forests		1.2
165	MAN/S/YAN	184.4	Wet Deciduous forest		184.4
166	MEG/N/BAL	220	Tropical Wet Evergreen Forests	GROUP 1	
	MEG/N/BAL		Tropical Semi- Evergreen forests	GROUP 2	
	MEG/N/BAL		Shola type forests(?)		
	MEG/N/BAL		Riverine forest(?)		
	MEG/N/BAL		Grassland and tree savannah(?)		
	MEG/N/BAL		Tropical moist deciduous forests	GROUP 1	
	MEG/N/BAL		Bamboo forests(?)		
	MEG/N/BAL		Secondary formation(?)		
167	MEG/N/NOK	47.48	Eastern subsubmontane semi - evergreen forest	2B/C1b	47.48
	MEG/N/NOK		Tropical Wet Evergreen Forests	GROUP 1	Not Surveyed
	MEG/N/NOK		Tropical Semi-Evergreen Forests	GROUP 2	Not surveyed
	MEG/N/NOK		Tropical Moist Deciduous Forests	GROUP 3	Not surveyed
	MEG/N/NOK		Subtropical Broadleaved Hill Forests	GROUP 8	Not surveyed
	MEG/N/NOK		Bamboo forest(?)		Not surveyed
168	MEG/S/BAG	0.027			
	MEG/S/BAG		Tropical Moist Deciduous Forests	GROUP 3	
	MEG/S/BAG		Deciduous Forest(?)		
	MEG/S/BAG		Bamboo Forest(?)		
	MEG/S/BAG		Secondary Formation(?)		
169	MEG/S/NON	29	Tropical Wet Evergreen Forests	2B/1S1(?)[THIS IS THE SUB-HIMALAYAN LIGHT ALLUVIAL SEMI-EVERGREEN FOREST]	9
	MEG/S/NON		Moist mixed deciduous forest (without sal)	3C/C3	6
	MEG/S/NON		Khasi hill sal	3C/C1(ii)	10
170	MEG/S/SIJ	5.18	Tropical Wet Evergreen Forests	GROUP 1	5.18
	MEG/S/SIJ		Tropical Semi -Evergreen Forests	GROUP 2	
	MEG/S/SIJ		Riverine Forest & Grassland(?)		
171	MIZ/N/MUR	200	Cachar semi-evergreen forest	2B/C2	200
	MIZ/N/MUR		Sub-tropical evergreen(?)		90
	MIZ/N/MUR		Montane Sub-tropical Forests		80
172	MIZ/N/PHA	50	Sub-Montane(?)		30
	MIZ/N/PHA		Tropical Wet Evergreen Forests	GROUP 1	
	MIZ/N/PHA		deciduous		18

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
173	MIZ/S/DAM	500	Tropical Wet Evergreen Forests	GROUP 1	500
174	MIZ/S/KHA	41	Cachar semi-evergreen forest	2B/C2	41
175	MIZ/S/LEN	120	Sub tropical evergreen(?)		70
	MIZ/S/LEN		Montane Sub-tropical Forests		50
176	MIZ/S/NGE	110	Sub-tropical evergreen(?)		60
	MIZ/S/NGE		Tropical Semi-Evergreen Forests	GROUP 2	50
177	MP/N/BAN	1161.47	Moist Siwalik sal forest	3C/C2a	N.A.
	MP/N/BAN		West Gangetic moist mixed deciduous forest	3C/C3a	N.A.
178	MP/N/GHU	0.272	Not Reported		
179	MP/N/PEN	292.857	Slightly moist teak forest	3B/C1c	20
	MP/N/PEN		Dry teak forest	5A/C1b	85
	MP/N/PEN		Southern dry mixed deciduous forest	5A/C3	187.857
180	MP/N/SAT	524.37	Moist teak forest	3B/C1b	78.65
	MP/N/SAT		Slightly moist teak forest	3B/C1c	89.14
	MP/N/SAT		forest	3B/C2	82.87
	MP/N/SAT		Dry plains sal forest	5A/C1b	36.7
	MP/N/SAT		Dry sal-bearing forest	5B/C1	98.12
	MP/N/SAT		Southern dry mixed deciduous forest	5A/C3	78.65
	MP/N/SAT		Central Indian subtropical hill forest	8A/C3	15.76
	MP/N/SAT		Under submergence		44.48
181	MP/N/VAN	4.45	Tidal swamp forests	4B	4.45
182	MP/S/BAD	104.45	Dry peninsular sal forest	5B/C1c	
	MP/S/BAD		Northern dry mixed deciduous forest	5B/C2	
183	MP/S/BAG	478	Northern dry mixed deciduous forest	5B/C2	231.047
184	MP/S/GAN	368.62	Northern tropical dry deciduous	5B	92.15
	MP/S/GAN		Northern dry mixed deciduous forest	5B/C2	92.15
	MP/S/GAN		<i>Boswellia</i> forest	5/E2	36.8
	MP/S/GAN		<i>Anogeissus pendula</i> forest	5/E1	36.8
	MP/S/GAN		Dry deciduous scrub	5/DS1	73.72
	MP/S/GAN		<i>Khair -sissu</i> forest	5/IS2	36.8
185	MP/S/KAR		Not Reported		202.21
186	MP/S/KHE	132.778	Tropical Dry Deciduous Forests	GROUP 5	105.778
	MP/S/KHE		Forest blanks		2
187	MP/S/KUN	344.686	Northern tropical dry deciduous	5B	344.686
188	MP/S/NAR	57.197	Dry deciduous scrub	5/DS1	57.197
189	MP/S/NAT	460	No Forest		
190	MP/S/NOR	1186.96	South Indian moist deciduous forests	3B	61.119
	MP/S/NOR		Southern tropical dry deciduous forests	5A	1080.457
	MP/S/NOR		Dry deciduous scrub	5/DS1	31.053
	MP/S/NOR		Dry grassland	5/DS4	24.413

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
191	MP/S/ORC	44.9	Southern Tropical Dry Deciduous Teak forest	5 A/C IB	44.9
192	MP/S/PEN	118	Slightly moist teak forest	3B/C1c	25
	MP/S/PEN			5AC(b)iv(?)	20
	MP/S/PEN		Southern dry mixed deciduous forest	5A/C3	73
193	MP/S/RAL	2.6198	Not Reported		
194	MP/S/SAI	12.96	Dry grassland	5/DS4	12.96
195	MP/S/SAN	364.593	Moist peninsular sal forest	3C/C2e	304.61
196	MP/S/SAR	348.12	Dry deciduous scrub	5/DS1	5.68
197	MP/S/SON	209.21	Not Reported		
198	NAG/N/INT	202.02	Northern tropical semi-evergreen forests	2B	
	NAG/N/INT		Sub- Tropical Forest(?)		
	NAG/N/INT		Cane and Bamboo brakes(?)		202.02
	NAG/N/INT		Revering forests and Swamps(?)		
199	NAG/S/FAK	6.41	Northern montane wet temperate forests	11B	6.41
200	NAG/S/PUL	9.23	Northern sub-tropical broad-leaved wet hill forests	8B	9.23
201	NAG/S/RAN	4.7	Northern tropical semi-evergreen forests	2B	4.7
203	ORI/N+S/BHI	145	Mangrove forests	4B/TS2	141.448
204	ORI/S/BAD	304.03	Moist peninsular low level sal	3C/C2e(ii)	304.03
	ORI/S/BAD		Moist peninsular valley sal	3C/C2e(iii)	304.03
	ORI/S/BAD		Northern secondary moist mixed deciduous forest	3C/2S1	304.03
	ORI/S/BAD		Northern dry mixed deciduous forest	5B/C2	
	ORI/S/BAD		Dry bamboo brake	5B/E9	304.03
205	ORI/S/BAI	168.35	Moist Peninsular sal forest	3C/C2e	Area of sub type not estimated
	ORI/S/BAI		Northern dry mixed deciduous forest	5B/C2	Area of sub type not estimated
	ORI/S/BAI		Moist mixed deciduous forest(without sal)	3C/C3	Area of sub type not estimated
	ORI/S/BAI		Moist bamboo brakes,Moist peninsular sal forest	2/E3,3C/C2e&5B/C(?)	
206	ORI/S/BAL	71.72	Not Reported		71.72
207	ORI/S/CHA	193.39	Not Reported		
	ORI/S/CHA				
	ORI/S/CHA				
208	ORI/S/CHI	15.53	Not Reported		15.53
209	ORI/S/DEB		Northern dry mixed deciduous forest	5B/C2	321.9
	ORI/S/DEB		Dry peninsular sal forest	5B/C1c	25
210	ORI/S/HAD	191.6	Dry peninsular sal forest	5B/C1c	29.23
	ORI/S/HAD		Northern dry mixed deciduous forest	5B/C2	74.98
211	ORI/S/KAR	147.66	Moist Peninsular High Level Sal forest	3C/c2e	50.77
	ORI/S/KAR		Terminalia tomentosa forest	3/E1	7
	ORI/S/KAR		Dry Peninsular Sal forest	5B/C1c	117.7332

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
212	ORI/S/KHA	116			
	ORI/S/KHA		Dry peninsular sal forest	5B/C1c	
	ORI/S/KHA		Dry bamboo brake	5/E9	
213	ORI/S/KOT	399.5			Not distl.
214	ORI/S/KUL	272.75	Orissa Semi Evergreen forest	2B/C3	40
	ORI/S/KUL		Very moist peninsular (coastal) sal forest	3C/C1d	90
	ORI/S/KUL		Southern secondary moist mixed deciduous forest	3B/2S1	142
215	ORI/S/LAK	174.958	Sub.type 3C/C2		
	ORI/S/LAK		Moist sal-bearing forest	3C/C2	
216	ORI/S/SATN	795.52	Moist Peninsular Sal Forest	3C/C2e	
	ORI/S/SATN		Dry Peninsular Sal Forest	5B/C1c	
	ORI/S/SATN		North Dry Mixed Deciduous Forest	5B/C2	
	ORI/S/SATN		Dry Tropical Riverain Forest	5/ISI	
	ORI/S/SATN		Dry Bamboo Brakes	5/E9	
217	ORI/S/SATS	268.94	Orissa Semi Evergreen Forest; Moist Peninsular Sal Forest ; Moist Mixed Deciduous Forest ;Riparian Fringing Forest ; Bamboo brakes	2B/C3; 3C/C2; 3C/C3; 4RS1;	169.98
218	ORI/S/SIM	2200	Northern Tropical Semi-evergreen forests		80
	ORI/S/SIM		Northern Tropical Moist Deciduous forest		1540
	ORI/S/SIM		Dry Deciduous Hill forests		250
	ORI/S/SIM		High Level Sal Forest		250
	ORI/S/SIM		Grassland		80
218	ORI/S/SUN	600	Moist mixed deciduous forest(without sal)	3C/C3	200
	ORI/S/SUN		Northern tropical dry deciduous forest	5B	400
219	PUN/S/ABO	186.05	Not Reported		
220	PUN/S/AIS	2.6	Northern dry mixed deciduous forest	5B/C2	2.6
221	PUN/S/BHA	8.2	Northern dry mixed deciduous forest	5B/C2	8.2
222	PUN/S/BHU	6.6	Northern dry mixed deciduous forest	5B/C2	6.6
223	PUN/S/DOS	7.5	Northern dry mixed deciduous forest	5B/C2	7.5
224	PUN/S/GUR	6.1	Northern dry mixed deciduous forest	5B/C2	6.1
225	PUN/S/HAR	86	Not Reported		
226	PUN/S/MAH	2.2	Northern dry mixed deciduous forest	5B/C2	2.2
227	PUN/S/MOT	5.24	Northern dry mixed deciduous forest	5B/C2	5.24
228	PUN/S/TAK	3.86	Northern dry mixed deciduous forest	5B/C2	3.86
229	RAJ/N/DES	3162	Desert thorn forest	6B/C1	
230	RAJ/N/KEO	28.73	Not Reported		
231	RAJ/S/BAS	138.69	Southern Tropical Dry Decideous forest	5B	138.69
232	RAJ/S/BHA	195.015	Dry Deciduous Thorn forest		195.015
233	RAJ/S/JAI	52.00	Dry decidious		52
234	RAJ/S/JAM	300	Tropical Dry Deciduous Forests	GROUP 5	300
	RAJ/S/JAM		Northern tropical dry deciduous forests	5B	300
	RAJ/S/JAM		Northern dry mixed deciduous forest	5B/C2	300
	RAJ/S/JAM		Anogeissus pendula scrub.		300
235	RAJ/S/KELA	672	Anogeissus Pendula forest	5B/E1	
	RAJ/S/KELA	672	Northern Dry Mixed Deciduous forest	5B/C2	
	RAJ/S/KELA	672	Desert Thorn forest	6B/C1	

Table 1.2: Forest Types
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Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
236	RAJ/S/KUM	608.56	Tropical Dry Deciduous forest ; Northern Tropical Dry Mixed Deciduous forest	5; 5B	609
237	RAJ/S/NAH	52.4	Tropical Dry Deciduous forests	GROUP 5	52.4
	RAJ/S/NAH		Tropical Dry Deciduous forests	GROUP 5	52.4
	RAJ/S/NAH		Northern troical dry deciduous forests	5B	52.4
	RAJ/S/NAH		Northern dry mixed deciduous forests	5B/C2	52.4
	RAJ/S/NAH		Anogeissus pendula forest	5/E1	52.4
238	RAJ/S/PHU	511.41	Northern Tropical Dry Deciduous forest ; Northern Dry Mixed Deciduous forest	II 5 B; II C 2	184.29
	RAJ/S/PHU		Northern Tropical Dry Deciduous forest ; Northern Dry Mixed Deciduous forest	II 5 B; II C 2	137.55
	RAJ/S/PHU		Northern Tropical Dry Deciduous forest ; Northern Dry Mixed Deciduous forest	II 5 B; II C 2	189.6
239	RAJ/S/SAJJ	5.19	Forest type- II Dry Deciduous Tropical forest		5.19
	RAJ/S/SAJJ	5.19	Sub types- Tropical Dry Deciduous forest ; Anogeissus Pendula forest ; Bosewellia Serrata forest	5, 5/E1, 5/E2	
240	RAJ/S/SIT	422.94	Northern Dry Mixed forest	5C2	422.94
241	RAJ/S/TAL	7.19	Desert thorn forest	6B/C1	7.19
242	RAJ/S/TOD	495.27	Dry Deciduos type		102.61
	RAJ/S/TOD		Dry Deciduos type		96.79
	RAJ/S/TOD		Dry Deciduos type		206.65
	RAJ/S/TOD		Dry deciduos type		117.19
243	RAJ/S/VAN	25.6	II Dry Tropical forest		25.6
244	SIK/N/KHA	1784		11B/C(?)	Not
	SIK/N/KHA		Himalayan Moist Temperate Forests	12	Surveyed
	SIK/N/KHA		East Himalayan dry juniper/birch forest(<i>J.wallichiana</i>)	13/C7	Surveyed
	SIK/N/KHA		East Himalayan sub-alpine birch/fir forest	14/C2	Surveyed
245	SIK/S/BAR	104	Sub-tropical(?)		
	SIK/S/BAR		Wet temperate(?)		
	SIK/S/BAR		Moist temperate conifer forest(?)	GROUP 12	
	SIK/S/BAR		Sub Alpine Forests	GROUP 14	
	SIK/S/BAR		Alpine scrub	Group 15	
246	SIK/S/FAM	51.76		3C/C3/2S1	
	SIK/S/FAM			8B/C1	
	SIK/S/FAM			8/C1B	2450 to 2749 meters
247	SIK/S/KYON	31	East Himalayan sub-alpine birch/fir forest	14/C2	
	SIK/S/KYON		Sub alpire pastures	14/DS1	
	SIK/S/KYON		East Himalayan Dry Juniper/birch forest(<i>J.wallichiana</i>)	13/C7	
	SIK/S/KYON		Birch /Rhododendron scrub forest	15/C1	
	SIK/S/KYON		Deciduous alpine scrub	15/C2	
	SIK/S/KYON		Montane bamboo brakes	12/DS1	
248	SIK/S/MAE	35.34	Wet temperate forest		
	SIK/S/MAE	35.34	Moist Temperate Coniferous forest		2700 to 3000 meters

Table 1.2: Forest Types
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Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	SIK/S/MAE	35.34	Sub Alpine forest		3000 to 3300 meters
249	SIK/S/SHIN	43	East Himalayan sub-alpine birch/fir forest	14/C2	
	SIK/S/SHIN		Sub-alpine pastures	14/DS1	
	SIK/S/SHIN		Sub-alpine pasture	14/DS1	
	SIK/S/SHIN		Birch / <i>Rhododendron</i> scrub forest	15/C1	
	SIK/S/SHIN		Birch- <i>Rhododendron</i> scrub forest	15/C1	
	SIK/S/SHIN		Deciduous alpine scrub	15/C2	
250	TN/N/GUI	2.8194	Tropical Dry Evergreen forest		2.7
251	TN/N/GUL	6.2337	Not Reported		
252	TN/N/IND	958	Not Reported		
253	TN/N/MUD	321	Southern high level thorn forest	6A/C1	47.5
	TN/N/MUD		Southern Tropical forest		
	TN/N/MUD		Dry deciduous forest	5/2S1	183.5
	TN/N/MUD		Southern moist mixed decided	38/C2	89
	TN/N/MUD		West coast semi ever green		1
	TN/N/MUD		Moist Bamboo Break	2/E3	Patches
	TN/N/MUD		Riparian fringing forest		100
254	TN/N/MUK	78.46	Grass land		68.46
	TN/N/MUK		Shola patches		10
	TN/N/MUK		Montane wet temeperate forest	11AC/I	
	TN/N/MUK				
255	TN/S/CHI	0.4763	Not Reported		
256	TN/S/GRI	477.83	West coast tropical everygreen forest		NA
	TN/S/GRI		West coast semiever		NA
	TN/S/GRI		Green forest-2A/C2		NA
	TN/S/GRI		Dry teak forest		
	TN/S/GRI		Southern mixed dry 'deciduous forest 5A/C3		NA
	TN/S/GRI		Dry grassland O/DS4		
257	TN/S/KAN	1.0421	Not Reported		
258	TN/S/KARA	4.53	Not Reported		
259	TN/S/KARI		Not Reported		
260	TN/S/KOO	1.2933	Not Reported		1.2933
261	TN/S/MEL	5.93	Not Reported		
262	TN/S/POIN	25	Dry ever green		17.28
	TN/S/POIN		Grad land		5.6
263	TN/S/PUL		Mangroves		0.5
264	TN/S/UDA	0.44	Not Reported		
265	TN/S/VAD	1.28	Not Reported		
266	TN/S/VALL	16.41	Southern thorn scrub		16.4121
267	TN/S/VED	0.27	Not Reported		
268	TN/S/VELL	0.77185	Not Reported		0.77
269	TN/S/VET	0.37948	Not Reported		
270	TRI/S/GUM	389.59		1/1B/CB(?)	
	TRI/S/GUM			1/3/3C/C3(?)	
	TRI/S/GUM			133CE11S1(?)	
	TRI/S/GUM			1/3/3C/E1/2S1(?)	
	TRI/S/GUM			1/2/2B/2SI(?)	
271	TRI/S/TRI	194.704	Trop, Semi, Evergreen, Forests(?)		
	TRI/S/TRI		East Himalyan lower Bhabar sal(?)	GROUP 3[PROBABLY]	
	TRI/S/TRI		Moist mixed decideious forest	GROUP 3	
	TRI/S/TRI		Saranch wood land(?)		

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
272	UP/S/BAK	28.9421		4 D/5S 3	0.1516
273	UP/S/CHA	96		3C/C2 B(iii)	
	UP/S/CHA		Riparian fringing forest	4E/RSI	
	UP/S/CHA		Southern dry mixed deciduous forest, Dry Siwalik sal forest, Dry plains sal forest, Dry peninsular sal forest & Northern dry mixed deciduous forest	5A/C3, 5B/C1a, 5B/C1b, 5B/C1c & 5B/C2	
274	UP/S/KAC	7	Gangetic Plains		7
275	UP/S/KAI	501	Deciduous forest	5A/C to 5B/C	157.26
	UP/S/KAI		Boswellia	5B/E	42.06
	UP/S/KAI		Bamboo	5B/E	37.53
	UP/S/KAI		Riverine	4E/S	11
	UP/S/KAI		Deciduous scrub	5/D	387.69
	UP/S/KAI		Dry peninsular sal forest	5B/C	11.64
276	UP/S/KAT	400.09	3C/C 2b II		45.85
	UP/S/KAT		3C/C 2b II and 5B/C 1b.		66.49
	UP/S/KAT		5B/C 1b		62.09
	UP/S/KAT		5B/C2		27.88
	UP/S/KAT		3/1S1		247.01
277	UP/S/LAK	80.24	Not Reported		
278	UP/S/MAH	5.42	5A/C1 b		0.75
	UP/S/MAH		5A/C3		1.4
	UP/S/MAH		5A/C2		2.1
279	UP/S/NAT	635	Dry Deciduous Thorn forest		135.68
280	UP/S/NAW	2.246	Not Reported		
281	UP/S/OKH	4	Miscellaneous forest		4
282	UP/S/PAR	10.8447	Wetlands area		10.84
283	UP/S/PAT	1.05	Northern High Dry Deciduous	5/E 1	1.05
284	UP/S/RAN	220.41	Tropical Riparian Fringe forest	4E/RS 1	0.3133
	UP/S/RAN		Northern Dry Deciduous forest	5B/C2	203.04
	UP/S/RAN		Deciduous Scrub forest	5B/S	3.05
	UP/S/RAN		Anogeissus pendula forest	5B/E1	0.459
	UP/S/RAN		Dry Bamboo brakes	5B/E9	10.9132
	UP/S/RAN		Boswellia forest	5B/E2	2.6522
285	UP/S/SAMN	5.26	Dry Deciduous forest.		5.2
286	UP/S/SAMS	7.99			
287	UP/S/SAN	2.246			
288	UP/S/SOH	428.2	Tropical Semi Evergreen		
	UP/S/SOH		Tropical Moist Deciduous		
	UP/S/SOH		Tropical Littoral and Swamp forest		
	UP/S/SOH		Tropical Dry Deciduous		
	UP/S/SOH		Northern Tropical Semi Evergreen		
	UP/S/SOH		North Indian Tropical Moist Deciduous forest		201.46
	UP/S/SOH		Termanalia allata forest		
	UP/S/SOH		Low Alluvial Savanna Woodland forest		17.886
	UP/S/SOH		Tropical Seasonal Swamp forest		14.324
	UP/S/SOH		Primary Seral of Dry Deciduous forest		14.251
289	UP/S/SUH	452.472	Moist Shivalik Sal forest	3C/C 2a	
	UP/S/SUH		Moist Bhabhar Dun	3C/C 2b	
	UP/S/SUH		Moist Eastern Heavy Alluvium Sal	3C/C 2d	
	UP/S/SUH		Most Sal Savannah	3C/C2/DS 1	
	UP/S/SUH		Mixed Deciduous	3C/C3	

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Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	UP/S/SUH		Terminalis Tomentosa forest	3/E1	
	UP/S/SUH		Low Alluvial Savannah Woodland	3/1S1	
	UP/S/SUH		Syzygium cumini swamp forest	4D/SS 3	
	UP/S/SUH		Dry Shiwalik sal Forest	5B/C1a	
	UP/S/SUH		Northern Dry Mixed Deciduous Forest	5B/C2	
	UP/S/SUH		Dry Deciduous Scrub Forest	5/DS 1	
	UP/S/SUH		Aegle Forest	5/E6	
	UP/S/SUH		Khair Sissoo Forest	5/1S2	
290	UP/S/SURA	34.329	Not Reported		32.329
291	UP/S/SURS	7.13	Northern High Dry Deciduous	5/E-1	7.13
292	UP/S/VIJ	2.62	Not Reported		
293	UTT/N/COR	520.824	Moist Siwalik sal forest	3C/C2a	112.361
	UTT/N/COR		Bhabar-dun sal	3C/C2b(i0	47.251
	UTT/N/COR		West Gangetic moist mixed deciduous forest	3C/C3a	7.012
	UTT/N/COR		Low alluvial savannah woodland(<i>Salmania albizzia</i>)	3/1S1	4.038
	UTT/N/COR		North Indian moist deciduous forest	3C	170.662
	UTT/N/COR		forests	5B	
	UTT/N/COR			5B/C/a(?)	235.044
	UTT/N/COR		Northern dry mixed deciduous forest	5B/C2	69.215
	UTT/N/COR		Dry tropical riverain forest	5/1S1	2.01
	UTT/N/COR		forests	5B	306.269
	UTT/N/COR		Subtropical Pine Forests	9/c/9(?)	1.691
	UTT/N/COR		Area under ramganga river(?)		42.202
294	UTT/N/GAN	2390.02	Moist Deodar	12C/1C	3
	UTT/N/GAN		Western Mixed Coniferous	12C/1D	18
	UTT/N/GAN		West Himalayan Upper Oak/Fir	12C/2B	1.5
	UTT/N/GAN		Riverine Blue Pine	12/1S2	0.6365
	UTT/N/GAN		Subalpine Blue Pine	14/2S1	2.0627
	UTT/N/GAN		Alpine Pastures	15C/3	266.375
	UTT/N/GAN		Himalayan Temperate Pastures	12D/S3	
	UTT/N/GAN		Dwarf Rhododendron Scrub	15E/1	
	UTT/N/GAN		Dwarf Juniper Scrub	15E/2	
	UTT/N/GAN		Dry Alpine Scrub	16C/1	
	UTT/N/GAN		Birch/Rhododendron Scrub	15C/1	
295	UTT/N+S/GOV	957.969	Sub Tropical Pine forest		18.96
	UTT/N+S/GOV		Himalayan Moist Temperate forest		194.5426
	UTT/N+S/GOV		Himalayan Dry Temperate forest		10
	UTT/N+S/GOV		Sub Alpine forest		15.3526
	UTT/N+S/GOV		Moist Alpine Scrub		67.1005
296	UTT/S/ASK	599.93		3C/C2A	0.476
	UTT/S/ASK			3C/C3	10.9
	UTT/S/ASK			1 C/DS	3.63
	UTT/S/ASK			12C/1E	3.174
	UTT/S/ASK			12C/1F	0.405
	UTT/S/ASK			12C2/A	65.75
	UTT/S/ASK			12C/2B	2.194
	UTT/S/ASK			12C/3A	45.135
	UTT/S/ASK			12D/53	11.412
	UTT/S/ASK			13I/1S	0.02
	UTT/S/ASK			14C/B	22.366
	UTT/S/ASK			14D/S	4.92
297	UTT/S/BIN	47.07	Upper or Himalayan chir pine forest	9/C1b	34.2
	UTT/S/BIN		Ban oak forest (<i>Quercus incana</i>)	12/C1a	13.3

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Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	UTT/S/BIN		Moru oak forest(<i>Quercus dilatata</i>)	12/C1b	
298	UTT/S/BINO	3.3874	Himalayan Moist temperate forest	12/C1 a	3.0039
	UTT/S/BINO	3.3874	Himalayan Sub Tropical Pine forest	8C 1	0.3874
299	UTT/S/KED	975.2	Himalayan subtropical scrub	9/DS1	16.63
	UTT/S/KED		Ban oak forest (<i>Quercus incana</i>)	12/C1a	32
	UTT/S/KED		Moru oak forest(<i>Quercus dilatata</i>)	12/C1b	49.6
	UTT/S/KED		Himalayan subtropical scrub,Himalayan temperate secondary scrub	12/DS1,12/DS2	4.37
	UTT/S/KED		Lower Western Himalayan temperate forest	12/C1	49.17
	UTT/S/KED		Kharsu oak forest(<i>Quercus semicarpifolia</i>)	12/C2a	53.11
	UTT/S/KED		West Himalayan upper oak/fir forest	12/C2b	195.33
	UTT/S/KED		Himalayan temperate pastures	12/DS3	6.91
	UTT/S/KED		Alder forest	12/1S1	2.15
	UTT/S/KED		West Himalayan sub-alpine birch/fir forest	14/C1b	24.47
	UTT/S/KED		Sub-alpine pastures	14/DS1	28.93
	UTT/S/KED		Birch/ <i>Rhododendron</i> scrub forest,Deciduous alpine scrub,Dwarf <i>Rhododendron</i> scrub,Dwarf juniper scrub,Alpine pastures	15/C1,15/C2/15/E1/15/E2/15/C3	46.73
300	UTT/S/SON	301.1	North Indian Tropical Moist Deciduous Forest		
	UTT/S/SON		Moist Shiwalik Sal	3C/C2a	
	UTT/S/SON		Moist Bhabardun Sal	3C/C2b	
	UTT/S/SON		Moist Mixed Deciduous	3C/C3a	
	UTT/S/SON		Alluvial Savannah Woodland	3/IS1	
	UTT/S/SON		Northern Tropical Dry Deciduous	5B	
	UTT/S/SON		Dry Shiwalik Sal	5B/C1a	
	UTT/S/SON		Northern Dry Mixed Deciduous	5B/C2	
	UTT/S/SON		Dry Bamboo Brakes	5E9	
	UTT/S/SON		khair Sisoo	5/IS2	
	UTT/S/SON		Himalayan Sub Tropical Pine		
	UTT/S/SON		Shiwalik chir	9/C1a	
301	WB/N/GOR	79.45	Northern Dry Deciduous Seral Sal		
	WB/N/GOR		Khair Sissu Association	5B/IS2	Not Known
	WB/N/GOR		Eastern Bhabar Sal Forest, Eastern Tarai Sal Forest	3C/C1b, 3C/C1c	Not Known
	WB/N/GOR		Sub-Himalayan Secondary Wet Mixed Deciduous Forest	2B/2S3	Not Known
	WB/N/GOR		Sal Savannah		Not known
302	WB/N/NEO	88	Eastern Himalayas Moist Mixed Deciduous forest	3C/C3 b	Not known
	WB/N/NEO		Sub Himalaya Secondary Wet Mixed forests	2B/2S3	Not known
	WB/N/NEO		Eastern Himalaya Sub Tropical Wet Hill forests	8B/C1	Not known
	WB/N/NEO		Eastern Himalayan Wet Temperate forest & Montane Wet Temperate		
	WB/N/NEO		11B/C1		Not known
	WB/N/NEO		East Himalayan sub-alpine forest	Brich-Rhododendrom 14/C2	Not known
303	WB/N/SUN	2585	Mangrove scrub	4B/TS1	
	WB/N/SUN		Mangrove forest	4B/TS2	

Table 1.2: Forest Types
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Forest type	Code	Area Occupied by Forest Type
	WB/N/SUN		Brackish water mixed forest (Heritiera)	4B/TS4	
304	WB/S/BAL	2.021	Northern tropical dry deciduous	5B	2.021
305	WB/S/BET	0.6686	Tropical Moist deciduous Forest	3A	0.6686
306	WB/S/BIB	0.64	Tropical Moist Deciduous Forest	3A	0.64
307	WB/S/CHA	9.492	Eastern Bhabar Sal forest	3C/C1b	5.95
308	WB/S/HAL	5.95	Moist Tropical Forest/Littoral and Tidal Seral Forest (Mangrove)		5.95
309	WB/S/LOT	38	Moist Tropical Forest/Littoral and Tidal Seral Forest (Mangrove)		38
310	WB/S/RAI	1.3	Northern secondary moist mixed deciduous forest	3C/2SI	1.3
311	WB/S/RAM	0.1431	Tropical dry deciduous forests		1431
312	WB/S/SEN	38.88	East Himalayan Subtropical Wet Hill Forests	8B/C1	

Table 1.3: The Status of the Forests in PAs

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
1	A&N/N/SAD	32.54	Kalara	32.54	32.54					
2	A&N/S/CUT	5.82	Betapur							
3	A&N/S/INT	133.00	Tugapur (includes many PAs)	133	133.00					
4	A&N/S/NAR	6.81	Kalara		6.81				Nil	Nil
5	A&N/S/NOR	3.48	Tugapur		3.48				Nil	Nil
6	AP/N/KAS	1.43	Kasu Brahmanada Reddy National	1.43	1.43					
7	AP/N/MAH	14.59	Mahaveer Harina Vanasthali National Park	14.59	4.00	10.59			Cattle grazing and collection of dry fuel	Under control
8	AP/N/MRU	2.80	Chilikur	2.8	2.80					
9	AP/N/VEN	525.97	Tirupati	150	105.00	45.00			Grazing, Local needs NTF (Collection)	Slight disturbance in fringe areas
	AP/N/VEN	525.97	Chamala	134.31	100.73	33.58			Grazing incidence high NTF, Collection, local needs (NTF)	Slight disturbance in fringe areas
	AP/N/VEN		Balapalli	241.66	169.16	72.49			Local needs like bamboos, firewood, grazing, NTFP (GRA)(NTF)	Slight disturbance in fringe areas
10	AP/S/COR	235.70	Wildlife Management Range, Kakinada	235.7		216.84	9.43	9.43	Non inundation by sea, grazing, tree felling	The vegetation increasing proposed for planting activity by digging channels coming under control
11	AP/S/ETU	803.00	Eturnagaram	380.35	190.18	114.11	73.03	3.04		
	AP/S/ETU		Tadval	425.8	212.90	85.16	126.93	0.81		
12	AP/S/GUN	1194.00	VELGODE	23.78	5.95	3.57	10.70	3.57	FIR, GRA, FEL, NTF	stable
	AP/S/GUN		NANDYAL	14.95	2.99	4.49	5.98	1.50	FIR, GRA, FEL, NTF	stable
	AP/S/GUN		BAIRLUTY	26.81	6.70	10.72	6.70	2.68	FIR, GRA, FEL, NTF	stable
	AP/S/GUN		CHELAMA	27.48	6.87	9.62	8.24	2.75	FIR, GRA, FEL, NTF	stable
	AP/S/GUN		GBM	21.1	8.44	4.22	5.28	3.17	FIR, GRA, FEL, NTF	stable
	AP/S/GUN		DORNAL	43.97	8.79	17.59	13.19	4.40	FIR, GRA, FEL, NTF	stable
	AP/S/GUN		GUNDLAKAMMA	41.96	10.49	14.69	12.59	4.20	FIR, GRA, FEL, NTF	stable
	AP/S/GUN		TURIMELLA	45.3	13.59	13.59	13.59	4.53	FIR, GRA, FEL, NTF	stable
13	AP/S/KAW	893.00	Tannaram	141.27	63.57	35.32	35.32	7.06	Grazing, Cultivation, Encroachment, Pressure on the forest due to over population.	After formation of vss disturbing factors like grazing and cultivation like problems are minimized
	AP/S/KAW		BirsaiPET	0.20293	0.09	0.05	0.05	0.01	Grazing, Cultivation, Encroachment, Pressure on the forest due to over population.	
	AP/S/KAW		Tadlapet	95.19	0.43	0.24	0.24	0.05	Grazing, Cultivation, Encroachment, Pressure on the forest due to over population.	
	AP/S/KAW		Pembi	75.2	48.88	11.28	11.28	3.76	Grazing, Cultivation, Encroachment, Pressure on the forest due to over population.	
	AP/S/KAW		Kaddam	152.7	68.72	38.18	38.18	7.64	Grazing, Cultivation, Encroachment, Pressure on the forest due to over population.	
	AP/S/KAW		Indanpally	167.74	75.48	41.94	41.94	8.39	Grazing, Cultivation, Encroachment, Pressure on the forest due to over population.	
14	AP/S/KOL	308.00	Eluru	308			308.00		Cultivation, Other - Pisciculture	Same
15	AP/S/KOU	357.63	Palamaner	148.11	74.00	59.50	8.11	6.50	Drought, Grazing	Minimum
	AP/S/KOU		Kuppam	209.52	105.00	84.00	9.52	11.00	Habitation, NTFP	
16	AP/S/KRI	194.21	Nagayalanka	194.21	9.71	19.42	19.42	0.19	Grazing, Tree Felling	Control
17	AP/S/MAN	20.00	Manjira	20		20.00			Fishing	Moderate
18	AP/S/NEL	4.58	Nelapattu Bird Sanctuary	4.58	3.23	1.39			Cattle from adjacent village	
19	AP/S/PAK	860.00	Kothaguda - I (Core I)	153.12	76.56	30.62	45.94			
	AP/S/PAK		M'bad (Tessi)	21.24	10.62	4.89	4.25	1.49		
	AP/S/PAK		Pasra (Tessi)	18.89	14.71	1.84	0.92	0.92		
	AP/S/PAK		Kothaguda (Tessi)	89.31	26.79	17.86	40.19	4.47		
	AP/S/PAK		Kothaguda - II (Core - II)	62.16	31.08	6.22	24.86			
	AP/S/PAK		Mulug (Tessi)	39.13	31.30	3.91	1.96	1.96		
	AP/S/PAK		Narsampet (Tessi)	265.549	92.94	39.82	119.47	13.27		
	AP/S/PAK		Gudur (Tessi)	210.616	105.31	52.65	42.12	10.53		
20	AP/S/PAP	590.68	V.R. Puram	98.56		98.56			Grazing	No change
	AP/S/PAP		Kookinoor	129.87		129.87			Grazing, Podu cultivation	
	AP/S/PAP		Polavaram	148.36		148.36			Grazing, Tree felling, Podu cultivation	Podu reduced

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
	AP/S/PAP		Rampachodavaram	198.26		198.26			Grazing, Podu cultivation	Podu reduced
21	AP/S/POC	130.00	Pocharam	130	18.20	88.40	23.40		Erosion, Fire, Grazing, Habitation, NTFP collection, Cultivation and Tree felling	Erosion and Grazing only
22	AP/S/PRA	136.00	Chennur		34.00	17.00	17.00	3.40	Illicit cultivation and pressure on the forest due to over population	
	AP/S/PRA		Nilwai		34.00	17.00	17.00	3.40	Illicit cultivation and pressure on the forest due to over population	
23	AP/S/PUL	600.00	Pulicat Bird Sanctuary	461		447.17		13.83	Inhabitant in Islands(Continues), Formation of roads across lake(Continues), Aquaculture(Stopped), Silting of lake(Continues), Accumulation of Sand bar across mouth(Periodical)	Inhabitants in Islands, Formation of roads across lake & Silting of lake are continue, Agricultural is stopped and Accumulation of sandbar across month is
24	AP/S/SIW	29.81	Chennur	32.7693	6.75	3.75	3.75	0.75	Biotic pressure like cattle grazing dependency by the villagers for fuelwood and small timber	Due to implementation of Eco-development programme awareness has been created among the villagers so further dependency is being reduced.
	AP/S/SIW		Manthani	32.0781	6.75	3.75	3.75	0.75	Biotic pressure like cattle grazing dependency by the villagers for fuelwood and small timber	Due to implementation of Eco-development programme awareness has been created among the villagers so further dependency is being reduced.
25	ARU/N/MOU	483.00	Jengging Wildlife Range	240	240.00					
	ARU/N/MOU		Ramsingh Wildlife Range	243	243.00					
26	ARU/N/NAM	1985.25	Miao Wildlife Range	548.28	544.01	4.27		0.15	Sometimes the hamlets/refugee settlers collect NTFP for their requirement and also graze cattle in the fringe areas	
	ARU/N/NAM		Namdapha Wildlife Range	1004	903.60		100.40			
	ARU/N/NAM		Gandhigram Wildlife Range	345			345.00		People encroach land for cultivation. Frequent hunting of animals takes place.	
27	ARU/S/DER	190.00	Anchalghat	68		68.00			Flood, Fire (Burning), NTFP Collection	
	ARU/S/DER		Borguli	60		60.00			Flood, Fire (Burning), NTFP Collection	
	ARU/S/DER		Sibiamukh	62		62.00			Flood, Fire (Burning), NTFP Collection	
28	ARU/S/KAM	783.00	Wakro	783						
29	ARU/S/MEH	281.50	Deopani	281.5	277.51	3.94		0.05	Landslide, Erosion, NTFP Collection, Fire (Burning), Dams, Grazing, Habitation, Cultivation, Tree felling, Floods, Other (Non maintenance)	
30	ASS/N/DIB	340.00	Guijan	185	37.00	138.75	9.25		Floods, Grazing, Habitation, Tree felling, NTFP collection, Erosion, Cultivation, Fishing	Habitation, Cultivation -Stable; Floods, Erosion- Increasing; Grazing, Felling, NTFP collection, Fishing-
	ASS/N/DIB		Saikhowa	155	54.25	100.75			Floods, Grazing, Habitation, Tree felling, NTFP collection, Erosion, Cultivation, Fishing	Habitation, Cultivation -Stable; Floods, Erosion- Increasing; Grazing, Felling, NTFP collection, Fishing-
31	ASS/N/KAZ	407.90	Western Range	126	46.00	80.00			Flood, Erosion, Fire, Tourism	Floods and erosion are an annual phenomena. Controlled burning (FIR) is regularly done to preserve the rhino habitat. Tourism covers a only small area.

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
	ASS/N/KAZ		Eastern Range	81	41.00	40.00			Flood, Erosion, Fire, Tourism	Floods and erosion are an annual phenomena. Controlled burning (FIR) is regularly done to preserve the rhino habitat. Tourism covers a only small area.
	ASS/N/KAZ		Central Range	204	84.00	120.00			Flood, Erosion, Fire, Tourism	Floods and erosion are an annual phenomena. Controlled burning (FIR) is regularly done to preserve the rhino habitat. Tourism covers a only small area.
32	ASS/N/MAN	519.77	Bhuiyanpara	150			150.00		Grazing, Cultivation, Tree felling	Ongoing and Constant
	ASS/N/MAN		Panbari	150			150.00		Grazing, Cultivation, Tree felling	Ongoing and Constant
	ASS/N/MAN		Bansbari	219.77		109.89	109.89		Grazing, Tree felling	Ongoing and Constant
33	ASS/N/NAME	200		200		30			Floods, erosion, grazing, habitation.	
34	ASS/N/ORR	78.80	Orang	78.81	63.05	15.76		9.83	Grazing, Habitation (encroachments), Cultivation, Tree felling, NTFP collection, Others (Poaching)	Grazing, Tree felling, NTFP collection, Cultivation, Others (Poaching) - Decreasing; Cultivation, Habitation- Stable
35	ASS/S/BAR	26.21	Barnadi wildlife range, Rajagarh	26.21		18.35	7.86		Tree felling, Grazing, Fire, Habitation, NTFP Collection, Erosion, Cultivation & Poaching	Tree felling & Poaching (increasing), Grazing, Habitation, NTFP Collection, Erosion & Cultivation (Stable)
36	ASS/S/BUR	44	Burachapori Wildlife Range	44.06	8.812	13.218	11.8962	10.1338	Floods, droughts, erosion, grazing, felling, cultivation, NTFP collection.	
37	ASS/S/EKAR	221.81	Northern Range-Dolamara	221.81	204.0652	17.7448			Grazing, habitation and cultivation	Disturbances continue to exist in the form of habitation, cultivation etc. as detailed and to the extent indicated
38	ASS/S/GAR	6		6	5.4	0.6			Grazing, development activities	Stable
39	ASS/S/GIB	19.16	Northern Range	3.83			3.83		Grazing, Tree Felling	
	ASS/S/GIB		Southern Range	3.83		3.83			Grazing, Tree Felling	
	ASS/S/GIB		Eastern Range	3.83		3.83			Grazing, Tree felling	
	ASS/S/GIB		Western Range	3.83		3.83			Grazing, Tree felling	
	ASS/S/GIB		Central Range	3.84		3.84			Grazing, Tree felling	
40	ASS/S/KAR	96		96	57.6	38.4				
41	ASS/S/LAO	70.10	Laokhowa	70.1		14.02	56.08		Flood, Grazing, Cultivation, Tree felling	Increasing
42	ASS/S/NAMB	37	N.E. Range (Silonijan)	37	31.45	2.775			Grazing	Stable
43	ASS/S/POB	16.00	Hadwk block	2.14	2.14				Tree felling	
	ASS/S/POB		Jug Dol	1	0.90	0.10			Tree felling, Grazing	Decreasing
	ASS/S/POB		Tamulidova Block	2.3	1.61	0.69			Tree felling, Grazing, Fodder collection	Decreasing
	ASS/S/POB		Solmari Block	1.7	1.70				Tree felling	
	ASS/S/POB		Pagladova Block	5.4	2.16	0.54	2.70		Tree felling, Grazing, Cultivation, Fodder collection	Decreasing
	ASS/S/POB		Noltoli Block	3.3		1.32	1.98		Tree felling, Grazing, Fodder collection	Decreasing
44	ASS/S/SON	220.00	Central Range	135	129.74	2.03	0.54	2.70	Encroachment	Stable
	ASS/S/SON		Dhekiajuli Range	85	81.60	2.89	0.43	0.09	Encroachment	Stable
45	BIH/S/RAJ	35.84	Rajgir	35.84			27.84	8.00	Erosion, Fire, Grazing, Tourism, Pilgrimage.	
46	CHD/S/SUK	26.11	Kansal	9.96				9.96		
	CHD/S/SUK		Nepil	16.02				16.02	Erosion, Dams, Development projects.	
47	CHT/N/IND	2799.09	Game Range Sendra	305	152.50	122.00	30.50		Habitation and Grazing	
	CHT/N/IND		Game Range Bijapur	688.37	309.77	344.19	34.42		Habitation and Grazing	
	CHT/N/IND		Game Range Kutru	865	519.00	259.50	86.50		Habitation and Grazing	

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
48	CHT/N/KAN	200.00	Kotamsar	105	40.95	39.90	15.23	8.93	Cultivation, Habitation, NTFP Collection, Grazing, Tree Felling, Fire (Burning), Tourism, OTH (Hunting), OTH (Fishing), OTH (Termite collection), OTH (Silk cocoon collection)	The level of disturbance is: High for cultivation, low for habitation, high for NTFP, low for grazing, very high for felling including bamboo cutting, high for fire, low for tourism, low for hunting and fishing and termite collection and high for silk cocoon collection
	CHT/N/KAN		Koleng	95	59.85	24.70	10.45		Cultivation, Habitation, NTFP Collection, Grazing, Tree Felling, Fire (Burning), Tourism, OTH (Hunting), OTH (Fishing), OTH (Termite collection), OTH (Silk cocoon collection)	The level of disturbance is: High for cultivation, low for habitation, high for NTFP, low for grazing, very high for felling including bamboo cutting, high for fire, low for tourism, low for hunting and fishing and termite collection and high for silk cocoon collection
49	CHT/S/ACH	551.55	Achanakmar	169.13	101.48	33.83	33.83		The Kota-Pendra PWD road passes through the PA. There are 22 forest villages inside the PA.	
	CHT/S/ACH		Lamni	178.65	160.79	8.93	8.93		The Kota-Pendra PWD road passes through the PA. There are 22 forest villages inside the PA.	
	CHT/S/ACH		Game	203.77	163.02	20.38	20.38		The Kota-Pendra PWD road passes through the PA. There are 22 forest villages inside the PA.	
50	CHT/S/BAR	244.66	Barnawapara Sanctuary	244.66	45.08	69.75	65.02	64.81	Grazing, OTH (Human interference), OTH (Vehicles), Development Projects	
51	CHT/S/BHA	138.95	Bhairamgarh	138.95		138.95			Cultivation, OTH (Encroachment)	
52	CHT/S/GOM	277.82	Gomarda	277.82						
53	CHT/S/PAM	442.23	Pamed	442.23	49.99	166.81	225.43		Disturbance is due to encroachment by local tribals	
54	CHT/S/SIT	558.55	Risgaon Range	296.99	215.02	74.25		7.72	(i) Fuel wood collection (ii) N.T.F.P. Collection (iii) Grazing (iv) Fire (Burning)	These disturbances are gradually leading to the degradation of forests
55	CHT/S/SIT		Sitanadi Range	261.57	187.02	65.39		9.15	(i) Fuel wood collection (ii) N.T.F.P. Collection (iii) Grazing (iv) Fire (Burning)	These disturbances are gradually leading to the degradation of forests
56	CHT/S/TAM	608.53	Tamor Pingla Game Range	593.843		593.84			Fire (Burning), Grazing and N.T.F.P. Collection	Fire and Grazing are light while NTFP collection is moderate to heavy
57	CHT/S/UDA	237.27	Udanti	237.27	139.97	23.73	71.18	2.40	Habitation	Moderate
58	DEL/S/ASO	27.81	Asola	27.81	6.95	8.34	5.56	5.56	Grazing, NTFP Collection, Others (Trespassing), Mines (adjacent to the sanctuary in Haryana).	Declining
59	GOA/S/BON	7.95	Valpoi	1		1			Grazing by peripheral villages	
	GOA/S/BON		Collem	1		1			Grazing by peripheral villages	
	GOA/S/BON		Ponda	6		4.8	1.2		Habitation, tourism	
60	GOA/S/CHO	1.80	Campal, Panaji	1.8	1.80			0.18		
61	GUJ/N/BAN	23.99	Bansa national park, Navtav	23.99					Fire (Burning), Grazing, Tree felling and Habitation	
62	GUJ/S/PUR	160.35	Singana	46.33					Erosion, Fire (Burning), Grazing, Cultivation, Tourism, Tree Felling	
	GUJ/S/PUR		Ahwa (W)	9.82					Erosion, Fire (Burning), Grazing, Cultivation, Tourism, Tree Felling	
	GUJ/S/PUR		Kalibel	22.83					Erosion, Fire (Burning), Grazing, Cultivation, Tourism, Tree Felling	
	GUJ/S/PUR		Bheskatri	45.97					Erosion, Fire (Burning), Grazing, Cultivation, Tourism, Tree Felling	
	GUJ/S/PUR		Bardipada	64.11					Erosion, Fire (Burning), Grazing, Cultivation, Tourism, Tree Felling	
63	GUJ/S/RAT	55.65	Kanjeta	54.24	36.8832	11.9328	4.8816	0.5424	Biotic pressure, NTFP collection, grazing.	
64	GUJ/S/WIL	4953.71	Morbi (T) range of Jamnagar (Territorial) division	96.84			96.84		OTH (Salt production), OTH (Transportation of migratory animals), OTH (Charcoal manufacturing)	Disturbed

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
	GUJ/S/WIL		Bhachau & Adesar range of Kutch-East (T) division	35.5			35.50		OTH (Salt production), OTH (Transportation of migratory animals), OTH (Charcoal manufacturing)	Disturbed
	GUJ/S/WIL		Halwad, Dhrangadhra & Patadi range of Surendranagar (T) division	150.65			75.33		OTH (Salt production), OTH (Transportation of migratory animals), OTH (Charcoal manufacturing)	Disturbed
	GUJ/S/WIL		Sami, Santalpur & Radhanpur range of B.K. (T) division	248.63			149.18		OTH (Salt production), OTH (Transportation of migratory animals), OTH (Charcoal manufacturing)	Disturbed
65	HAR/N/SUL	1.42	Sultanpur National Park	1.42				0.40		
66	HAR/S/ABU	113.97	Dabwali Range						Disturbance is caused by local people who live in the villages situated in the PA and by vehicles that move about within and around the sanctuary	Stable
67	HAR/S/BHIN	4.07	Jhajjar range	4.07	4.07					
68	HAR/S/BIRB	4.14	Forest Range(T) Jind	8		8.00			Felling and Grazing	
69	HAR/S/BIRS	7.58	Pinjore Range	176	70.40	52.80	52.80	158.40		
70	HAR/S/CHIL	0.28	Pehowa/Pandri				0.28		Agricultural Activity	The PA has extreme human interference
71	HAR/S/KAL	100.00	Kalesar Forest range	300	120.00	90.00	90.00	270.00	No	No
72	HAR/S/KHA	0.82	Jhajjar range							
73	HAR/S/NAH	2.09	Nahar range					2.09		
74	HAR/S/SAR	44.02	Saraswati	44.02				44.02	OTHER CAUSES:- The area has been planted with Eucalyptus, Dalbergia & Acacia which was earlier abandoned due to excessive salts & water logging.	Plantations of Acacia, Eucalyptus and Prosopis juliflora are being taken up in ridges & pits of saline patches which are lacking vegetation.
75	HP/N/GRE	905.40	Jiwanal range	430.37	362.37	33.05	34.95	0.13	(1)Grazing(2)Habitation(3)Fire(4)DEV(5)Erosion(6)Drought	Same as enumerated in the previous column earliar.
	HP/N/GRE		Tirthan Range	278.15	109.15	64.17	104.83	0.09	(1)Grazing(2)Habitation(3)Fire(4)DEV(5)Erosion(6)Drought	Same as enumerated in the previous column earliar.
	HP/N/GRE		Sainj Range	462.6	321.23	128.05	13.32	0.14	(1)Grazing(2)Habitation(3)Fire(4)DEV(5)Erosion(6)Drought	Same as enumerated in the previous column earliar.
76	HP/S/DAR	46.59	Dofda Range	46.59	30.75	5.59	9.32	0.93		
77	HP/S/DHA	943.98	Uhl Range and Sansal Beat of Baijnath Range	943.98	47.20	783.50	94.40	18.88	Fire (burning), Grazing, Habitation, NTFP collection, Cultivation, Tree felling	Stable
78	HP/S/GAM	109.00	Bhandal range consisting of Bhandal, Sangani, Beer and Langrea Beats	113.75	44.00	30.00		5.86	Grazing	Minimal
79	HP/S/KAI	12.6108								
80	HP/S/KAL	69.47	Kalatop-Khajjiar	20.12				1.61	Grazing, Tree felling (timber demand), NTFP collection, habitation, Development projects (PWD road), Pilgrimage, Tourism, Cultivation, OTH (Charcoal manufacturing)	
81	HP/S/KAN	58.1797								
82	HP/S/KHO	19.3474								
83	HP/S/KUG	378.87	Kugti Block of Bharmour Territorial Range	378.87	37.89	246.27	85.25	9.47	Grazing, Habitation, NTFP collection, Cultivation, OTH (Felling due to Timber Demand), Development projects (PWD road), Tourism, Pilgrimage, OTH (Erosion due to glaciers)	Overall decline in disturbance
84	HP/S/LIP	30.89	Sangla	30.89		10.19	20.70		Grazing, NTFP Collection	Stable
85	HP/S/MAN	29.003								

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
86	HP/S/NAR	278.38	Wildlife Range Barot	278.38			139.19	5.57	Floods, Fire (burning), Drought, Erosion, Grazing, Habitation, NTFP collection, Cultivation, Tree felling, Landslides	Heavily disturbed
87	HP/S/PON	307.70	Nagrota Surian and Dhameta							
88	HP/S/RUP	269.15	Rupi	161.23	80.62	32.25	46.76	1.61	Habitation, NTFP collection, Grazing, Fire (Burning), OTH (Fuelwood collection)	The biotic pressures are stable and not increasing
89	HP/S/RUP		Bhaba	107.92	53.96	32.38	20.50	1.08	Habitation, NTFP collection, Grazing, Fire (Burning), OTH (Fuelwood collection)	The biotic pressures are stable and not increasing
90	HP/S/SAN	650.00	Sangla	350	87.50	175.00	87.50	3.50	Grazing, Habitation, NTFP collection, OTH (Fuel and Fodder) collection	
91	HP/S/SHI	90.37	Wildlife Range Karsog	90.37			63.26	27.11	Drought, Landslides, Erosion, Fire (burning), Grazing, Habitation, NTFP collection, Tree felling	Heavily disturbed
92	HP/S/TUN	64.00	Tundah Block Swai Territorial Range of Bharmour Division	80.34	8.03	48.20	20.09	4.02	Grazing, Habitation, NTFP collection, Cultivation, OTH (Felling due to Timber Demand), Development projects (PWD road), Tourism, Pilgrimage, OTH (Erosion due to glaciers)	
93	J&K/N/HEM	3350	Hemis National Park	3350	100.5	871	1306.5	Negligible	Floods, land slides, erosion, grazing, cultivation, tourism	Stable
94	J&K/N/KIS	425.00	Kishtwar	75	7.50	11.25	56.25	26.25	Biotic interference by humans and cattle residing within the nation park area.	
	J&K/N/KIS		Sirchi	350	140.00	52.50	157.50	26.25	In the summer months the whole area of this range remains heavily disturbed as seasonal graziers come down along with their live stock and enter in the area of national park (Alpine Zone).	
95	J&K/S/CHA	4000	Chushul	1500		1350	148.5	1.5	Floods, landslides, erosion, grazing, habitation, tourism.	Stable
96	J&K/S/CHA		Nyoma	2500		2250	247.5	2.5	Floods, landslides, erosion, grazing, habitation, tourism.	Stable
97	J&K/S/KAR	5000	Karakorum Sanctuary	5000	1000	2700	1250	50	Erosion, development projects (2 micro hydel projects, roads, schools, PHC, hotels) grazing, habitation, mines, NTFP collection, cultivation, tree felling, tourism, others (army and ITBP activity).	Stable
98	J&K/S/OVE	425.00	Lidder	425.37	212.69	106.34	85.07	21.27	Grazing, Habitation, Drought, Landslide, Cultivation, Fire	
99	JHA/S/HAZ	186.26	Hazaribagh wildlife Sanctuary	186.255			186.26	2.67	Fire (Burning), Habitation, NTFP collection, Cultivation, Tree felling, Tourism, Development projects	
100	KAR/N/ANS	250.00	Anashi	198.43	99.22	74.41	9.92	14.88	Fire, Grazing, Dams, Habitation, Pilgrimages	Anashi forest range is subject to some disturbance and show a slight change in their natural species composition
101	KAR/N/ANS	250.00	Kumbarwada	51.57	20.63	14.13	15.47	1.34	Dams, Grazing, Fire, Habitation	Kumbarwada forest ranges is subject to some disturbance and show a slight change in their natural species composition
102	KAR/N/BAND	880.02	Bandipur	65.6		65.60				
	KAR/N/BAND		Gundre	61.25	61.25					
	KAR/N/BAND		A.M. Gudi	104.5	104.50					
	KAR/N/BAND		Moolehohle	120.5	120.50					

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Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
	KAR/N/BAND		N.Bagur	61		61.00				
	KAR/N/BAND		Idiyur	96.25		96.25				
	KAR/N/BAND		Hedeyala	115.25		115.25				
	KAR/N/BAND		Maddur	126.27		126.27				
	KAR/N/BAND		Moyar	129.5		129.50				
103	KAR/N/BANN	104.27	Anckal		25	40	30	9.27	Grazing, fire (burning), NTFP collection, tree felling, habitation	Gradually improving
	KAR/N/BANN		Harohally		20%	50%	20%	10%	Grazing, fire (burning), NTFP collection, tree felling, habitation	Gradually improving
	KAR/N/BANN		Picnic corner		50%	50%			Habitation	Gradually improving
	KAR/N/BANN		Project			30%	50%	20%	Mining, grazing, tree felling, fire (burning), habitation	Gradually improving
104	KAR/N/KUD	600.32	Kudremukh, Sringeri, Venur, Karkala Range	600.324	480.26	60.03		60.03	Fire, Grazing and collection of Non-timber forest produces	Interference by the people staying at the inside the enclosures and also by the adjoining villages is the main cause for disturbances at present as their present as their main aims are to collect dry fuel and leaves apart from picking up of NTF Produces
105	KAR/N/NAG	643.39	Nagarahole	104.074	62.44	20.81	5.20	15.61	Tourism, Pilgramages, Fire, Habitation	
	KAR/N/NAG		Veeranahosally	48.906	17.12	16.14	14.67	0.98	Grazing, Fire, OTH(Fuelwood collection)	
	KAR/N/NAG		Metikuppe	63.012	18.90	18.90	25.20		Grazing, Fire, OTH (Fuelwood collection)	
	KAR/N/NAG		Antharasanthe	89.557	40.30	22.39	26.87		Grazing, Fire, Habitation, Tourism, OTH (Fuelwood collection)	
	KAR/N/NAG		Anechankur	90.155	45.08	9.92	22.54	12.62	Grazing, Fire, Habitation&Others(Fuelwood Collection)	
	KAR/N/NAG		D.B. Kuppe	136.473	61.41	20.47	40.94	13.65	Tourism,Grazing, Fire, Habitation&Others(Fuelwood Collection)	
	KAR/N/NAG		Kallahalla	111.152	72.25	16.67	5.56	16.67	Tourism, Habitation, Fire, Grazing	
106	KAR/S/ADI	0.89	Adichunchanagiri Peacock Sanctuary	0.89	0.45	0.36	0.09	0.18	Grazing, Fire, Pilgramages	Decreasing
107	KAR/S/ARA	13.50	Arabittittu Wildlife Sanctuary	13.5	10.13	3.38		2.03	Grazing, Drought, Fire, Occasionally illicit cutting	Disturbances has been come down considerably
108	KAR/S/ATT	2.226	Ranebennur	2.226		1.3356		0.04452	Submersion Dam	
109	KAR/S/BHA	492.46	Hebbe			164.15			Fire, Other	Land acquisition and rehabilitation of 16 villages, which is under progress. Fire accurance is common during summer and preventive measures are taken
	KAR/S/BHA		Mulhodi			164.15			Fire, other	Land acquisition and rehabilitation of 16 villages, which is under progress. Fire accurance is common during summer and preventive measures are taken
	KAR/S/BHA		Lakkavalli & Thanigebyle			164.15			Fire	Land acquisition and rehabilitation of 16 villages, which is under progress. Fire accurance is common during summer and preventive measures are taken
110	KAR/S/BIL	540	B.R.T. (Yelandur)	86.22		86.22			Prepaid license extraction of large woody species.	EPT
	KAR/S/BIL		Bylore	218.52		218.52			fire (burning) wood collection	EPT
	KAR/S/BIL		K. Gudi Range and Punjur Range	234.78					Tourism	
111	KAR/S/BRA	181.29	Sreemangala Wildlife Range	120	90.00	24.80	5.00	1.20	Fire, Biotic Encroachment	
	KAR/S/BRA		Bramhagiri Wildlife Range	52	48.20	2.00	0.80	1.00	Fire, Biotic Encroachment	
112	KAR/S/DAN	475.02	Kulgi Wildlife Range	142.758	28.55	85.65	28.55	77.09	Development projects, Fire, Grazing, Habitation	
	KAR/S/DAN		Wildlife Range, Kumbharwada	74.4	29.76	22.32	22.32	0.07	Dams, Grazing, Fire, Habitation	
	KAR/S/DAN		Wildlife Range, Gund	105.96	42.38	52.98	10.60	21.19	Dams, Fire, Grazing	
	KAR/S/DAN		Wildlife Range, Phansoli	151.9	45.57	91.14	15.19	15.19	Erosion, Fire, Grazing, Habitation, Cultivation	

Table 1.3: The Status of Forests in PAs
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Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
113	KAR/S/DOR	55.87	Kamalapur	55.873	55.87					
114	KAR/S/GHA	29.79	Ranebennur Wildlife Range	29.785						
115	KAR/S/GUD	0.74	Kargal Wildlife Range	0.74	0.70	0.04			Encroachment by doing Agriculture	
116	KAR/S/KAV	526.95	Kaveri Wildlife Sanctuary	526.95	421.56	5.27	5.27	0.53	Interference of people for collecting dry fire wood and non timber produce. The people who live in enclosure and adjoining villages depend on the forests produce and also fragment fire damages occur. Grazing by cattle is also causing disturbance	People are being enlightened and educated and also local people are employed especially tribals for watch and ward, antipoaching activities and fire fighting works. Hence disturbances are reduce and under control
117	KAR/S/MEL	49.82	Narayanadurga	45.34	9.07	27.20	2.27	6.80	Grazing, Fire, Tree felling	Declining
	KAR/S/MEL		Mudibetta Reserve Forest	4.48	0.90	2.69	0.45	0.45	Grazing, Fire, Tree felling	Declining
118	KAR/S/MOO	247.00	Kundapur Wildlife Range	247	123.50	49.40	49.40	24.70	Habitation	Same
119	KAR/S/NUG	30.32	Nugu Wildlife Sanctuary	30.32	18.19	12.13			Fire, Grazing, Tree felling	Decreasing
120	KAR/S/PUS	92.66	Kadamakal Reserve Forest	92.66	9.27	20.39	60.23	2.78	Fire, Grazing, NTFP collection, Pilgramages, Tourism, Genimalai Cultivation	Status quo
121	KAR/S/RANE	119.00	Ranebennur Wildlife Range	119						
122	KAR/S/RANG	0.67	Ranganathittu Birds Sanctuary	0.67	0.27	0.18			Grazing, Tourism	Under control
123	KAR/S/SHA	431.23	Kogar	218.88	175.10	43.78			Encroachment, clear felling of plants, agricultural land and hydro electric project	MPM plantation extraction
	KAR/S/SHA		Kargal	212.34	191.11	21.23			Encroachment, clear felling of plants, agricultural land and hydro electric project	MPM plantation extraction
124	KAR/S/SHE	395.60	Shimoga	146.92	58.77	29.38	29.38	29.38	Grazing	
	KAR/S/SHE		Sacreyble	63.34	34.84	23.44		5.07	Dams, Grazing	
	KAR/S/SHE		Hanagere	189.35	56.81	37.87	90.89	22.72	Habitation, Mines/quarries, Grazing	
125	KAR/S/SOM	88.97	Karkala Wildlife Range	88.97	70.29	9.79		8.90	Interference by the people staying at the inside the enclosures and also by the adjoining villagers is the main cause for disturbance as their main aims are to collect dry fuel and leaves apart from picking up of non timber forest produces	Due to vigilant watch and ward and also enlightening the intention of sanctuaries to the local peoples; the disturbances are being considerably reduced
126	KAR/S/TAL	105.01	Bhagamandala	50.84		41.18	5.08	4.58	Fire, Grazing, Habitation, NTFP collection	Status quo
	KAR/S/TAL		Mundrote	54.16		46.04	6.50	1.62	Cultivation, felling, Pilgrimages	
127	KER/N/ERA	100.00	Eravikulam	100	25.00	5.00				
128	KER/S/ARA	55	Aralam	55	22	30.085		29.15	Drought, erosion, habitation	
129	KER/S/CHIN	90.44	Chi	90.44		90.43		0.01	Grazing	Under control
130	KER/S/WAY	344.44	Muthanga	74.2928	26.00	18.57	29.72	17.09	Grazing, OTH (Silvicultural operations), OTH (Enclosures), NTFP collection	Grazing is stable, enclosures are stable, NTFP collection is stable, Silvicultural operations are declining
	KER/S/WAY		Sulthan Bathery	86.0284	30.11	25.81	30.11	15.49	Grazing, OTH (Silvicultural operations), OTH (Enclosures), NTFP collection	Grazing is stable, enclosures are stable, NTFP collection is stable, Silvicultural operations are declining
	KER/S/WAY		Tholpetty	77.6693	37.28	32.62	7.77	40.39	Grazing, OTH (Silvicultural operations), OTH (Enclosures), NTFP collection	Grazing is stable, enclosures are stable, NTFP collection is stable, Silvicultural operations are declining
	KER/S/WAY		Kurichiyat	106.4526	42.58	31.94	31.94	28.74	Grazing, OTH (Silvicultural operations), OTH (Enclosures), NTFP collection	Grazing is stable, enclosures are stable, NTFP collection is stable, Silvicultural operations are declining
131	MAH/N/AND	625.40	Tadoba	213	149.10	21.30	42.60	N.A	Grazing, fuelwood collection & timber collection	Same
	MAH/N/AND		Moharli	198	138.60	29.70	29.70	N.A	Fuelwood collection & Minor forest produce collection	Same
	MAH/N/AND		Kolsa	200	140.00	30.00	30.00	N.A	Fuel wood collection & Minor Forest Produce collection	Same
132	MAH/N/NAV	133.88	Navegaon	133.884	53.55	46.86	26.78	6.69	Fire, grazing, NTFP collection, tree felling & tourism	Not fully under control

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133	MAH/N/PEN	257.26	East Pench	148	74.00	29.60	29.60	7.40		
	MAH/N/PEN		West Pench	108	43.20	43.20	16.20	5.40		
134	MAH/N/SAN	103.09	Sanjay Gandhi National Park	38.57			38.57		Encroachment, illicit cutting in Nagla block	
	MAH/N/SAN		Krishnagiri upwan Borih	5.89	5.89				Encroachment	
	MAH/N/SAN		Yeur (Thana district)	58.64		58.64			Encroachment	
135	MAH/S/AMB	127.11	Sonala	127.11						
136	MAH/S/ANE	82.94	Shirpur	82.94	41.47	8.29	8.29	24.88	Encroachment	Not changed
137	MAH/S/BHA	104.38	Bhamragarh	104.38	93.94	9.39	1.04	Nil	Human habitation on the periphery are mostly by Madia Gonds who depend on the forest for their livelihood. Since their population is very low, the disturbance is negligible.	
138	MAH/S/BHI	130.78	Bhimashankar-2	44.89		2.6934	32.3208	9.8758	Grazing, NTFP collection, pilgrimage, dam, cultivation, tree felling	Minimization of disturbance is under consideration.
	MAH/S/BHI		Bhimashankar-1	68.98	6.898	17.245	28.2818	16.5552	Landslides, grazing, NTFP collection, tourism, pilgrimage	Minimization of disturbance is under consideration.
139	MAH/S/BOR	61.10	Bor	61.1	12.22	26.88	21.39	0.61	Grazing & Fuelwood collections.	
140	MAH/S/CHAN	308.97	Mandur Wildlife range	308.97	52.5249	98.8704	24.7176	9.2691	Grazing, habitat, cultivation	Disturbance minimised due to shifting of villages out of sanctuary.
141	MAH/S/CHAP	133.23	Chaudampalli	133.23	53.29	54.62	13.32	11.99	Heavy grazing, 28 villages in & around the PA, state highway passes through the midst of the PA. Prashant Dham temple Complex within the PA, poaching by tribals & sharing interstate boundary with Andhra Pradesh on the Western side.	
142	MAH/S/DEU	2.17		3379.76			3063.29	316.47	Area having private agricultural land, roads, villages, townships etc.	Area under the charge of forest department is undisturbed. Other private areas fully disturbed.
143	MAH/S/GAU	260.00	Kannad	120		54.00	60.00	6.00	Illicit cutting, grazing, encroachment & fire.	
	MAH/S/GAU		Chalisgaon	60		21.00	36.00	3.00	Illicit cutting, grazing, encroachment & fire	
	MAH/S/GAU		Nagad	80		36.00	40.00	4.00	Illicit cutting, grazing, encroachment & fire.	
144	MAH/S/GRE	8496.41	Karmala	5.53		5.53			Cattle, human (biotic pressures)	Controlled
	MAH/S/GRE		Rehekuri	2.5		2.5			Cattle, human (biotic pressures)	Controlled
	MAH/S/GRE		Sholapur	34.68		Yes	Yes		Cattle, human (biotic pressures)	Controlled
145	MAH/S/GYA	203.56	Buldhana	92	23.00	23.00	46.00	0.92	Grazing, illicit cutting, human interference & road construction	
	MAH/S/GYA		Khamgaon	111.51	27.88	27.88	55.76	0.11	Grazing, illicit cutting, human interference & road construction	
146	MAH/S/JAI	341.05	North Jaikwadi (Palthan) & South Jaikwadi (Shevgoan)	341.05	119.37	85.26	136.42		Fishing, cultivation & water supply schemes.	
147	MAH/S/KAL	361.71	Harishchandra & Bhandardara						Biotic dependence, habitation & grazing	
148	MAH/S/KAR	4.27	Karnala Bird Sanctuary Range	4.27			4.27		(1) Vehicular traffic (2) Visitors & tourism (3) Local People	
149	MAH/S/KAT	73.69	Akola	38.76	3.88	5.81	28.68	0.39	Network of roads for villages	
150	MAH/S/MAY	5.145	Supe	5.145		5.145			Biotic pressure	
151	MAH/S/NAG	152.81	Nagzira	152.81	45.84	53.48	45.84	7.64	Fire, grazing, NTFP collection, tree felling & tourism	Not fully under control
152	MAH/S/NAI	29.90	Beed	29.9	11.96	5.98	11.96	11.96	Grazing fuelwood collection, roads (traffic)	
153	MAH/S/NAR	12.35	Narnala	12.35		12.35		0.83	(1) Grazing (2) Fire	
154	MAH/S/PAI	324.64	Sondabi range	117.53	0.00	58.77	58.77		Human pressure, grazing	Heavily disturbed
	MAH/S/PAI		Kharbi range	185.95	0.00	92.98	92.98		Fire, roads	
155	MAH/S/RAD	351.16	Dajipur	99	9.90	19.80	64.35	4.95	NTFP collection	
	MAH/S/RAD		Radhanagari	182.46	18.25	36.49	118.60	9.12	Encroachment (Cultivation), NTFP collection	
156	MAH/S/SAG	10.87	Sagarshwar Wildlife Sanctuary	10.87			6.52	4.35	Drought, Erosion, development project, fire, grazing, habitation, mines/quarries, tourism & pilgrimages	Fire, development projects, grazing, tourism, mines/quarries & pilgrimages
157	MAH/S/TIP	140.29	Tipeshwar	140.29	28.06	35.07	70.15	7.01	Illegal felling, grazing & poaching	
160	MAH/S/WAN		Somthana	89.39		84.39		5.00	Grazing (ii) Submergence due to Wan project	
161	MAH/S/WAN	205.86	Wan	116.47		106.25	4.22	6.00	Grazing (ii) Submergence due to Wan project	
161	MAH/S/YAW	177.52	PAL	79.94		75.26		4.68	Fire and grazing	
	MAH/S/YAW		Jamnya	97.58		83.86		13.72	Fire and grazing	

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162	MAH/S/YED	22.37	Yedashi	22.37	11.19	4.47	6.71	8.95	(1)Fuel wood collection(2)Grazing(3)Railway traffic(4)Road traffic	
163	MAN/N/KEI	40.00	Keibul	1.2		0.24		0.72	Grazing , NTFP collection	Under control
164	MAN/S/YAN	184.4	Yangoupokpi Lokchao Wildlife Sanctuary	184.4	129.08	46.1	4.61	4.61	Firewood collection (stable), land slides (increasing), fire (burning) (stable), habitation (stable), cultivation (stable)	
165	MEG/N/BAL	220.00	Mahadeo	220	198.00	22.00			Fire, NTFP collection, Tourism	
166	MEG/N/NOK	47.48	Nokrek Northern Range	24	23.52	0.48			Illegal cutting of trees	Minor
	MEG/N/NOK		Nokrek Southern Range	23.48	23.01	0.47			Illegal collection of NTFP	Minor
167	MEG/S/BAG	0.03	Baghmara Wildlife Range	0.03		0.03			NTFP collection	
168	MEG/S/NON	29.00	Nongpoh Wildlife Range	29	20.30	5.80	2.90		Grazing in fringe areas and inside the sanctuary	
169	MEG/S/SU	5.18	Siju Wildlife Range	5.18	4.92	0.26			Fire, NTFP collection, Tourism	Negligible
170	MIZ/N/MUR	200.00	North Khawbung	200	188.00	2.00	10.00		Fire, Habitation, Cultivation, Felling	Under control & stable
171	MIZ/N/PHA	50.00	Phawngpui	50	49.00		1.00	2.30	Fire, NTFP collection	Stable
172	MIZ/S/DAM	500.00	Teirei	250	25.00	25.00	195.00	5.00	Felling, NTFP collection, Fire , Jhuming prior to relocation of villages in 1989-90	Declining and negligible
	MIZ/S/DAM		Phuldungsei	250	37.50	25.00	185.00	2.50	Felling, NTFP collection, Fire , Jhuming prior to relocation of villages in 1989-90	Declining and negligible
173	MIZ/S/KHA	41.00	Rawpui	41	4.92	31.98	4.10		Fire, Cultivation	Stable
174	MIZ/S/LEN	120.00	Range (s) not yet demarcated	120	19.20	81.60	19.20		Cultivation, Fire, Felling, OTH (Hunting)	Stable & under control
175	MIZ/S/NGE	110.00	Ngengpui	110	110.00					
176	MP/N/BAN	1161.47	Tala, Kallawah, Khitauli, Magadhi.	105	84.00	21.00				
	MP/N/BAN		Panpatha (Sanctuary)	245.84		122.92	122.92			
177	MP/N/PEN	292.86	Karmajhiri	145.24	116.19	21.79	7.26		Dam, Grazing.	
	MP/N/PEN		Gumtara	147.61	103.33	29.52	14.76		Grazing , Fire	
178	MP/N/SAT	524.37	Pachmarhi	178.06	80.12	44.51	53.41		Tourism, Pilgrimage, Habitation, Fuel wood.	Increasing day by day due to increasing population and tourism
	MP/N/SAT		Kamti	346.318	266.66	34.63	45.02		Dam, Grazing.	Illicit fishing by local fishery federation in Tawa dam and grazing by local people.
179	MP/N/VAN	4.45	Van Vihar	4.45	3.34	1.08		0.03	Tourism	The ranges namely, safari, management and tourism have been identified for the purpose of working. In total 4.45 sq. kms. of the park is
180	MP/S/BAD	104.45	Game Range Sanctuary Bagicha	104.45	20.89	26.11	27.16	30.29	Habitation and Cultivation	4 Forest villages are situated inside the sanctuary. These villages are having cultivation area of about 500 hectares. Total encroached area is about 16 hectares
181	MP/S/BAG	478.00	Bagdara	231.047		92.42	138.63		Erosion, Fire (Burning), Grazing, Habitation, NTFP Collection, Cultivation, OTH (Nistar), OTH (Encroachment)	Continuing
182	MP/S/GAN	368.62	Gandhi Sagar	368.62	36.86	184.31	147.45	ntations is 59 sq.km.	1. Infiltration of millions of sheep from Rajasthan, 2. Huge cattle population on the periphery of the sanctuary, 3. Excess grazing by livestock, 4. Dependency of large number of people on the forest, 5. Heavy biotic interference 6. Large quantity of timber is taken away to meet fuelwood requirement as well as for selling 9. At the time of the scarcity of grass people resort to lopping.	All sources of disturbance are increasing
183	MP/S/KAR	202.21	Game range Karera	202.21						
184	MP/S/KHE	132.78	Kheoni	132.778	66.39	53.11	13.28		Biotic Factors (Fire, Grazing, Tree felling)	
185	MP/S/KUN	344.69	Sesaipura game range.	344.686	304.69	30.90		10.10	Moderate grazing and Nistar needs of peripheral villages.	Moderate
186	MP/S/NAR	57.20	Game range Narsingarh	57.197	2.86	10.30	42.90	1.14	Fire, Grazing, Habitation, Cultivation, Tree felling,	Growing day by day.
187	MP/S/NOR	1186.96	Mohli	223.973		89.59	134.38		Fire, Grazing, Habitation, NTFP Collection, Cultivation, Tree felling.	Disturbance continues.

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	MP/S/NOR		Jhapan	150.975		75.49	75.49		Fire, Grazing, Habitation, NTFP Collection, Cultivation, Tree felling.	Disturbance continues.
	MP/S/NOR		Singpur	162.093		89.15	72.94		Fire, Grazing, Habitation, NTFP Collection, Cultivation, Tree felling.	Disturbance continues.
	MP/S/NOR		Noradehi	214.337		107.17	107.17		Fire, Grazing, Habitation, NTFP Collection, Cultivation, Tree felling.	Disturbance continues.
	MP/S/NOR		Sarra	214.704		139.56	75.15		Fire, Grazing, Habitation, NTFP Collection, Cultivation, Tree felling.	Disturbance continues.
188	MP/S/ORC	44.9	Orchha Range	150.3		30.06	75.15	45.09	Tourism, pilgrimages, habitation, cultivation. Grazing	Common, Abundant
189	MP/S/PEN	118.00	Kurai	118	106.20	10.62		1.18	Fire, Grazing.	Nil.
190	MP/S/RAL	2.62	Indore Ralamandal Sanctuary.	2.62	2.62					The whole area is fenced.
191	MP/S/SAI	12.96	Sailana	12.96					Grazing (by the domestic cattle of neighbouring villages), Cultivation.	
192	MP/S/SAN	364.59	Dubari	160.97		40.24	120.73		Erosion, Fire, Grazing, Habitation, NTFP Collection, Cultivation, Other-Nistar, Encroachment.	Continues
	MP/S/SAN		Bastua	143.64		28.73	114.91		Erosion, Fire, Grazing, Habitation, NTFP Collection, Cultivation, Other-Nistar, Encroachment.	Continues
193	MP/S/SAR	348.12	Sardarpur	348.12			348.12		Grazing, Habitation, Cultivation.	Increasing
194	MP/S/SON	209.21	Son Gharial	209.21						
195	NAG/N/INT	202.02	Intanki Range "A"	202.02	151.52	10.10	40.40		Village settlement, Cultivation, Felling, Development activities, NTFP collection (Agarwood), OTH(Hunting/fishing)	Increasing
196	NAG/S/FAK	6.41	Fakim	6.41	6.41					
197	NAG/S/PUL	9.23	Puliebadze	9.23	4.62	2.31	2.31		Habitation, Tree Felling, NTFP collection, Grazing, Erosion, Landslide	Increasing
198	NAG/S/RAN	4.70	Rangapahar	4.7	1.88	0.47	2.35		Human Settlement	Increasing
199	ORI/N+S/BHI	145	Rajnagar	913.87	430.249996	397.624837	84.624362	13.70805	Habitation, grazing, tourism, cultivation	
	ORI/N+S/BHI		Kanika	548.93	191.137426	302.405537	55.332144	24.70185	Habitation, grazing, tourism, cultivation	
200	ORI/S/BAD	304.03	Badarma	304.03		304.03		3.04	Fire, Grazing, Tree felling, Habitation	Sambalpur township is only 15kms from the sanctuary. Pressure on the sanctuary is increasing for felling of trees.
201	ORI/S/BAI	168.35	Banigocha Wildlife Range	168.35	101.01	67.34		0.13	Drought, Erosion, Fire, Grazing, Illicit felling, Disturbance caused by encroached villagers.	Presently only ground fire is seen.
	ORI/S/BAL		Balukhand Konarka						(1) Cyclone common and damaged by 1999 super cyclone (2) NTFP Collection -(Cashew nut) (3) Fire very rare.	
202	ORI/S/CHA	193.39	Bhubaneswar Wildlife Range	19.41					Habitation, Cultivation, Tree felling, Cyclone	
	ORI/S/CHA		Chandaka Wildlife Range	55.23		55.23			Habitation, Cultivation, Tree felling, Fire, Cyclone, Development Projects.	
	ORI/S/CHA		Haldia Wildlife Range	57.85		57.85			Habitation, Cultivation, Tree felling, Fire	
	ORI/S/CHA		Dompada Wildlife Range	60.9		60.90			Habitation, Cultivation, Tree felling, Fire, Cyclone	
203	ORI/S/DEB	346.90	Lakhanpur Range	164.8	49.44	115.36			Drought, Erosion, Fire, Grazing, Habitation, NTFP Collection, Cultivation, Tree felling, Tourism	
	ORI/S/DEB		Kamgaon Range	182.1	54.63	127.47			Drought, Erosion, Fire, Grazing, Habitation, NTFP Collection, Cultivation, Tree felling, Tourism	
204	ORI/S/HAD	191.60	No such ranges exists, but compartments inside Boula Reserve Forest have been considered	Compartment 1=4.08		1.63	2.45		Encroachment-Dalki village-Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 10=4.41		1.76	2.65		Moderate illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 11=8.40		4.20	4.20	0.40	Moderate to heavy illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 12=3.54		1.06	2.48		Fire, Moderate to heavy illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 13=6.06		3.64	2.42		Sajnapal village encroachment.- Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed.

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	ORI/S/HAD			Compartment 14=5.17		2.07	3.10		Junaposi encroachment, Dalki (Part) encroachment- Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 15=10.71		5.89	4.82		OMC, FACOR Chromite Mining Lease, encroachment Phujihar village- Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 16=7.16		1.43	5.73		OMC, FACOR Lease. Raighati village encroachment, Sialimalia village encroachment- Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection.	Heavily Disturbed .
	ORI/S/HAD			Compartment 2=8.75		3.06	5.69		Ratanmara village encroachment- Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 4=8.33		5.83	2.50		Moderate illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 8=4.42		1.77	2.65		Moderate to heavy illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment 9= 5.65		1.70	3.96	0.15	Heavy illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection	Heavily Disturbed .
	ORI/S/HAD			Compartment3=3.77		1.32	2.45		Heavy illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection	Heavily Disturbed .
	ORI/S/HAD			Compartment5=5.84		4.38	1.46		Moderate illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment6=8.94		4.02	4.92	0.90	Encroachment- Pitanau village- Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection .	Heavily Disturbed .
	ORI/S/HAD			Compartment7=8.92		3.57	5.35	0.25	Moderate to heavy illicit felling, Grazing, Habitation, Dam, Cultivation, Tree felling, Fire, NTFP Collection	Heavily Disturbed .
205	ORI/S/KAR	147.66	Jugsaipatna	27.54		11.016	16.524		Tree felling, cultivation, fire (burning) (burning)	
	ORI/S/KAR		Bhawanipatna	147.96	44.388	90.9954	11.8368	0.7398	Fire(burning), grazing, habitation, cultivation, tree felling.	
206	ORI/S/KHA	116.00	Girish Chandrapur(Part of this range)	116		116.00		01	Forestry operations, biotic interference's	All forestry operations have been stopped. Biotic pressure continues.
207	ORI/S/KOT	399.50	Kotagarh	238.75	167.13	47.75	11.94	11.94	Fire, Grazing, Cultivation, Tree felling, Habitation	Continuing
	ORI/S/KOT		Belghar	30.75	21.53	6.15	3.08		Fire, Grazing, Cultivation, tree felling, Habitation	Continuing
208	ORI/S/KUL	272.75	Nilgiri	272.75	27.275	109.1	125.465	10.91	Dam, grazing, NTFP collection, fire (burning)	Under regulation
209	ORI/S/LAK	174.96	Chandragiri	174.958		174.96			Shifting cultivation Timber smuggling	
210	ORI/S/SATN	795.52	Purunakote	287.79	115.116	71.9475	43.1685	57.558	Fire, grazing, habitation, tree felling	Due to biotic pressure the forest is heavily disturbed. Smuggling of teak from teak plantations is the main problem. Due to severe drought, forest fire was upto 80% of forest cover.
	ORI/S/SATN		Jillinda	13.74	5.496	4.809	3.435		Fire, grazing, habitation, tree felling	Due to biotic pressure the forest is heavily disturbed. Smuggling of teak from teak plantations is the main problem. Due to severe drought, forest fire was upto 80% of forest cover.

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	ORI/S/SATN		Pampasar	168.16	100.896	33.632	21.8608	11.7712	Fire(burning), grazing, habitation, tree felling	Due to biotic pressure the forest is heavily disturbed. Smuggling of teak from teak plantations is the main problem. Due to severe drought, forest fire was upto 80% of forest cover.
211	ORI/S/SATS	268.94	Kusanga Wildlife Range	101.56	40.624	40.624	20.312		Fire (burning), Grazing, Habitation & Illicit felling	Declining
	ORI/S/SATS		Chhamun dia range	167.38	66.952	66.952	29.45888	4.01712	Fire (burning), Grazing, Habitation & Illicit felling	Declining
212	ORI/S/SIM	2200		2200.00	1309.00	429.00	396.00	66.00		
	ORI/S/SIM		Bisoi, Pithabata (buffer), Udala, Thakurmunda		40%	20%	40%		Indiscriminate collection of timber and firewood, small timber, NTFP fire, grazing etc.	Under regulation
	ORI/S/SIM		Gurguria, Badampahar, Kendumundi, Dudhiani		45%	25%	30%		Indiscriminate collection of timber and firewood, small timber, NTFP fire, grazing etc.	Under regulation
	ORI/S/SIM		Bangriposhi, Dukura, Kaptipada		50%	15%	35%		Indiscriminate collection of timber and firewood, small timber, NTFP fire, grazing etc.	Under regulation
	ORI/S/SIM		Nawana		70%	30%			Indiscriminate collection of timber and firewood, small timber, NTFP fire, grazing etc.	Under regulation
	ORI/S/SIM		Pithabata (core)		85%	15%			Indiscriminate collection of timber and firewood, small timber, NTFP fire, grazing etc.	Under regulation
	ORI/S/SIM		Chahala, National Park and Upperbarakamara		90%	10%			Indiscriminate collection of timber and firewood, small timber, NTFP fire, grazing etc.	Under regulation
213	ORI/S/SUN	600.00	Nawapara	200			200.00		Fire, Habitation, Cultivation	Stable
	ORI/S/SUN		Komna	400			400.00		Fire, Habitation, Cultivation, Grazing, Tree felling, NTFP collection, Drought, Erosion, Dam, Other (Encroachment and cannabis cultivation).	Stable. Cannabis has stopped. NTFP now checked
214	PUN/S/ABO	186.05								
215	PUN/S/AIS	2.60	Aishwan	2.6	2.60					
216	PUN/S/BHA	8.20	Bhadson	8.2	8.20					
217	PUN/S/BHU	6.60	Bhunerheri	6.6	6.60					
218	PUN/S/DOS	7.50	Dosanjh	7.5	7.50					
219	PUN/S/GUR	6.10	Gurdial Pura	6.1	6.10					
220	PUN/S/HAR	86.00	N.A.							
221	PUN/S/MAH	2.20	Mehas	2.2	2.20					
222	PUN/S/MOT	5.24	Moti Bir	5.24	5.24					
223	PUN/S/TAK	3.86	Takhani Rehmapur	3.86	3.86					
224	RAJ/N/DES	3162.00	Jaisalmer			1054.00			Grazing	Slightly disturbed.
	RAJ/N/DES		Miyaziar			1054.00			Grazing	Slightly disturbed.
	RAJ/N/DES		Barmer			527.00	527.00		Grazing	Disturbed.
225	RAJ/N/KEO	28.73	Wildlife Range KNP	28.73	14.365	14.365			Illegal grazing, Illegal fuelwood collection, illegal fish collection	
226	RAJ/S/BAS	138.69	Bassi	138.69		111.92283	5.13153	21.63564	Dam, grazing, NTFP collection, tree felling, tourism, pilgrimages	Increasing
227	RAJ/S/BHA	195.015	Bhainsroadgarh	195.015	19.5015	117.009	48.75375	9.75075	Drought, erosion, dam, grazing, cultivation	
228	RAJ/S/JAI	52.00	Jaisamand	52					Biotic interference due to cattle population and human population of adjoining / peripheral villages.	
229	RAJ/S/JAM	300.00	Jamwa Ramgarh.	276	55.20	69.00	113.16	38.64	Grazing, Habitation, Mines/quarries, NTFP collection, Dam, Fire, Cultivation.	Slightly Increasing.
230	RAJ/S/KELA	672	Karanpur	143.42	14.342	28.684	100.394	Negligible	Grazing, movement of local people	
	RAJ/S/KELA		Baler	85.13	4.2565	17.026	63.8475	Negligible	Grazing, movement of local people	
	RAJ/S/KELA		Kela Devi	239.34	23.934	47.868	167.538	Negligible	Grazing, movement of local people	

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	RAJ/S/KELA		Mandrayal	207.17	31.0755	51.7925	124.302	Negligible	Grazing, movement of local people	
231	RAJ/S/KUM	608.56	Bokhara	120.78	6.039	42.273	71.2602	1.2078	Grazing, fire, habitation, cultivation	
	RAJ/S/KUM		Kumbhalgarh	143.16	14.316	100.212	25.7688	2.8632	Pilgrimage, fire (burning), grazing, habitation, cultivation	
	RAJ/S/KUM		Desuri	94.97	23.7425	18.994	42.7365	9.497	Pilgrimage, grazing, fire, habitation, cultivation	
	RAJ/S/KUM		Sadri	249.66	74.898	49.932	99.864	24.966	Pilgrimage, grazing, fire, habitation, cultivation	
232	RAJ/S/NAH	52.40	Nahargarh Sanctuary.	52.4	11.53	33.01	2.62	5.24	Grazing, Habitation, NTFP collection, Other (Old encroachment)	Slightly increasing.
233	RAJ/S/PHU	511.41	Kotra	184.26					Drought, fire (burning), grazing, habitation, NTFP collection, cultivation, tree felling	Increasing
	RAJ/S/PHU		Panarwa	137.55					Drought, fire, grazing, habitation, NTFP collection, cultivation, tree felling	Increasing
	RAJ/S/PHU		Mamer	189.6					Drought, fire, grazing, habitation, NTFP collection, cultivation, tree felling	Increasing
234	RAJ/S/SAJJ	5.19	Sajjagarh	5.19	3.11	2.08			Grazing	Increasing
235	RAJ/S/SIT	422.94	Jakhm	150.02		143.72		6.30	Grazing, habitation, cultivation, tree felling, pilgrimages	Under control
	RAJ/S/SIT		Dhariyawad	84.75		83.90		0.85	Grazing, habitation, cultivation, tree felling, pilgrimages	Under control
	RAJ/S/SIT		Badi Sadari	188.17		178.39		9.78		Under control
236	RAJ/S/TAL	7.19	Tal Chapper Sanctuary.	7.19	3.60	2.88	0.72		Drought, Mining (Salt pans) in the catchment area, Spread of Prosopis juliflora, Grazing pressure, Stray dogs.	Stable
237	RAJ/S/TOD	495.27	Raoli	102.61					Drought, fire (burning), grazing, habitation, cultivation, tree felling	
	RAJ/S/TOD		Bheem	96.79					Drought, fire, grazing, habitation, cultivation, tree felling	
	RAJ/S/TOD		Bijaji ka Guda	117.19					Drought, fire, grazing, habitation, cultivation, tree felling	
	RAJ/S/TOD		Jojawar	206.65					Drought, fire, grazing, habitation, cultivation, tree felling	
238	RAJ/S/VAN	25.6	Van Vihar	25.6	12.8	7.68	4.864	0.256	Excessive grazing, settlements, katcha, pucca roads, mining in adjoining areas, forest produce gatherers, drought, cultivation, grazing, habitation, NTFP collection, tree felling	Under control
239	SIK/N/KHA	1784.00	Dzongri						Grazing, habitation, NTFP collection, cultivation, tourism, fires.	Increasing
	SIK/N/KHA		Mangan							
	SIK/N/KHA		Dzongu							
240	SIK/S/BAR	104.00	Barsey	104					Grazing, habitation, NTFP collection, felling	Increasing
241	SIK/S/FAM	51.76	Fambong Lho	51.76	19.6688	15.0104	17.0808		Grazing, NTFP collection (collection of Sirsoo grass for food, collection of fuelwood)	Increasing
242	SIK/S/KYON	31.00	Kyongnosla	31	21.00	5.50	4.50		Grazing, habitation, felling, OTH (Road bordering the sanctuary)	Increasing
243	SIK/S/MAE	35.34	Maenam	35.34	6.0078	19.0836	10.2486		Grazing, habitat, tree felling, tourism, pilgrimage	Stable
244	SIK/S/SHIN	43.00	Shingba	43	20.00	5.00	18.00		Landslides, grazing, felling, erosion, tourism, development activities (road), NTFP collection, OTH(Snow avalanches), floods	Increasing
245	TN/N/GUI	2.8194	Guindy National Park	2.7	2.7					
	TN/N/GUL		Ramnad, Mandapam, Kilakarai, Tuticorin			6.23			OTH- fishing-use of trawler nets damages the corals which upsets the whole eco-system	Continuous
246	TN/N/IND	958.57	Pollachi	109.72	43.89	32.92	21.94	10.97	Grazing, Habitation, Pilgramages	
	TN/N/IND		Ulandy	75.92	30.37	26.57	3.80	15.18	Habitation, Tourism, Dams	
	TN/N/IND		Manambolli	138.76	41.63	27.75	34.69	34.69	Habitation, Dams	
	TN/N/IND		Amaraathi	172.5	69.00	51.75	34.50	17.25	Habitation, Grazing	
	TN/N/IND		Udumalpet	290.17	101.56	116.07	63.84	8.71	Habitation, Grazing, Tourism, Pilgramages	
	TN/N/IND		Valparai	171.5	102.90	34.30	34.30	17.15	Habitation, Dams, Pilgramages	
247	TN/N/MUD	321.00	Masinagudi	80.35	40.18		40.18	Yes	Grazing projects	Increase
	TN/N/MUD		Teppakadu	63.3	63.30			No	Grazing projects	Increase
	TN/N/MUD		Nelakottai	54.25		54.25		Yes	Fire	Exits
	TN/N/MUD		Kargudi	54.6		54.6		Yes	Fire, Road	Exits
	TN/N/MUD		Mudumalai	68.5		68.5		Yes	Fire	Exits
248	TN/N/MUK	78.46	Mukurthi	78.46	78.46					
249	TN/S/CHI	0.48	Chitrangudi	0.48		0.48			OTH- Eggs collection by local villagers	Watcher posted for protection
250	TN/S/GRI	477.83	Srivilliputhur	135.02	13.50	33.76	81.01	6.75	Drought, Erosion, Fire (Burning), Grazing, NTFP collection, FEL, Tourism, Pilgramages.	Drought, Erosion, Fir (Buring), Grazing, Landslide, Pilgramages

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
	TN/S/GRI		Watrap	120.42	6.02	24.08	84.29	6.02	Drought, Erosion, Fire(Buring), Grazing, NTFP collection, TEL, Tourism, Pilgramages	Drought, Erosion, Fire (Buring), Grazing, Landslide, Pilgramages
	TN/S/GRI		Rajapalavam	129.16	13.92	41.75	69.58	13.92	Drought, Erosion, Fire (Buring), Grazing, NTFP collection, TEL, Torusim, Ppilgramages	Drought, Erosion, Fire (Buring), Grazing, Landslide, Pilgramages
	TN/S/GRI		Saptur	101.78		10.18	81.42	10.18	Drought, Erosion, Fire(Buring), Grazing, NTFP collection, TEL, Tourism, Pilgramages	
251	TN/S/KAN	1.04	Kanjarankulam	104.21			Yes		Previous to notification birds were hunted in this tank by local villagers. Since notification, no birds have been spotted.	No birds so no killing
252	TN/S/KARA	4.53	Tanjavur range	4.53		4.53		2.27	Grazing	
253	TN/S/KARI	0.65	Sancturay Range	0.65				0.65	GRA	
254	TN/S/KOO	1.20	Tirunelveli	1.2933	1.03	0.26				Controlled
255	TN/S/MEL	5.93	N.A							
256	TN/S/POIN	25.00	Kodikkarai	25		20.00	5.00		Grazing	Disturbed
257	TN/S/PUL	61.47	Mangroves				Yes		Biotic pressure	Reduced
258	TN/S/UDA	0.44	Tanjavar wild life	0.44		0.44		0.26	Grazing	
259	TN/S/VAD	1.28	Tanjavur wild life	1.28		1.28		0.54	Grazing during summer, and fishing during dry season.	Still prevalent
260	TN/S/VALL	16.41	Tirunelveli	16.41	13.13	3.28			Grazing and Habitation	Controlled
261	TN/S/VED	0.27	Sanctuary Range	0.27				0.27	GRA, TOU	Human disturbance due to the lake bund being used for commuting by local villagers.
262	TN/S/VELL	0.77	Erode Range	0.77	0.77					
263	TN/S/VET	0.38	Vettangudi	0.38		0.23			OTH- Growth of prosopis juliflora	Persistent
264	TRI/S/GUM	389.59	Tirthmukh	389.16		38.92	272.41	77.83	Erosion, dam, fires, grazing, habitation, NTFP collection, cultivation, felling, pilgrimage	Stable
265	TRI/S/T RI	194.70	Rajnagar, Abhoya, Rangamura	194.7	136.29	29.21	19.47	9.74	Biotic interference	
266	UP/S/BAK	28.9421	Bakhira	0.15					Grazing, felling, fishing.	Stable
267	UP/S/CHA	96	Chandra Prabha	96	72	24			1. Grazing in peripheral areas of the sanctuary, 2. Human trespassers, 3. Vehicle traffic on road adjoining the sanctuary, 4. Stone mining leases on private land.	
268	UP/S/KAC	7	Kachhua Wildlife Sanctuary	7	1.4	4.9	0.7		Floods, erosion, habitation, development projects.	Stable
269	UP/S/KAI	501	Gurma	140.42	4.2126	28.084	101.1024	7.021	Over grazing and fire wood collection	
	UP/S/KAI		Roberts Ganj	48.43	4.843	14.529	24.215	4.843	Over grazing and fire (burning) wood collection	
	UP/S/KAI		Gharawal	235.54	7.0662	47.108	157.8118	23.554	Over grazing and fire wood collection	
	UP/S/KAI		Halia	221.72	11.086	55.43	133.032	22.172	Over grazing and fire wood collection	
	UP/S/KAI		All ranges PF	107		107			Over grazing and fire wood collection	
270	UP/S/KAT	400.09	Nishangara	107.9	26.975	43.16	16.185	21.58	1. Establishment of seed farm, Girijapuri. 2. Settlement on Nepalese side of the sanctuary.	
	UP/S/KAT		Murtiha	49.69	4.969	4.969	14.907	9.938	1. Settlement on Nepalese side of the sanctuary	
	UP/S/KAT		Dharmapur	48.67	14.601	21.9015	7.3005	4.867	1. Settlement on Nepalese side of the sanctuary.	
	UP/S/KAT		Katarniaghat	207.89	41.578	114.3395	20.789	31.1835	1. Construction of Girijapuri dam and its colony, 2. Establishment of seed farm, Girijapuri, 3. Settlement on Nepalese side of the sanctuary.	
271	UP/S/LAK	80.24	Lakh Bahosi Bird Sanctuary	80.24	20.06	20.06	40.12			Grazing of cattle and human trespassers.
272	UP/S/MAH	5.42	Lalitpur		1.355	4.065			Grazing	Moderate
273	UP/S/NAT	635	Etawah	100			80	1	Grazing (heavy), erosion (very heavy), habitation (moderate), others.	
	UP/S/NAT		Bah	135			108	1.35	Mining (heavy), grazing (heavy), erosion (very heavy), habitation (moderate), others	
274	UP/S/NAW	2.246	Nawab Ganj Bird Sanctuary	2.246	1.0107	0.6738	0.5615		Disturbance by local villagers for fuel wood, grass and occasionally fishing.	
275	UP/S/OKH	4	Okhla Bird Sanctuary	4	1.6	1.2	1.2		Dam development project, grazing, tourism, others.	

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
276	UP/S/PAR	10.8447	Parvati Arga Range	10.84	9.756	1.084			Grazing and fishing	Moderate
277	UP/S/PAT	1.05	Patna Bird Sanctuary	1.05	0.525	0.525			1. 70% land is private land, 2. 30% is Gram Samaj land, 3. Reserve forest is not notified.	
278	UP/S/RAN	220.41	Manikpur	130.95	47.142	83.808			Grazing	Efforts are going on to control it.
	UP/S/RAN		Markundi	189.45	134.5095	54.9405			Grazing, habitation.	Controlled through ecocodevelopment
279	UP/S/SAMN	5.26	Saman Bird Sanctuary	5.2	1.40816	3.73984	0.052		Floods, drought, grazing.	
	UP/S/SAMS		Samaspur Bird Sanctuary	7.99	4.3945	2.5568	1.0387		Grass collection, fishing.	
280	UP/S/SAN	2.246	Sandi Bird Sanctuary	3.0854	1.5427	0.61708	0.61708		Grazing, human trespassers	
281	UP/S/SOH	428.2	Pakri	64.5			64.5		Grazing, fuel wood, NTFP collection, fodder, thatch grass, fencing material, building material like poles, use of forest roads, floods, fire(burning), habitation.	
	UP/S/SOH		South Chauk	50.894			50.894		Grazing, fuel wood, NTFP collection, fodder, thatch grass, fencing material, building material like poles, use of forest roads, floods, fires, habitation.	
	UP/S/SOH		Laxmipur	51.598			51.598		Grazing, fuel wood, NTFP collection, fodder, thatch grass, fencing material, building material like poles, use of forest roads, floods, fires, habitation.	
	UP/S/SOH		North Chauk	55.997			55.997		Grazing, fuel wood, NTFP collection, fodder, thatch grass, fencing material, building material like poles, use of forest roads, floods, fires, habitation.	
	UP/S/SOH		Madhawalia	80.917			80.917		Grazing, fuel wood, NTFP collection, fodder, thatch grass, fencing material, building material like poles, use of forest roads, floods, fires, habitation.	
	UP/S/SOH		Nichlaul and Shivpur	98.2			98.2		Grazing, fuel wood, NTFP collection, fodder, thatch grass, fencing material, building material like poles, use of forest roads, floods, fires, habitation.	
282	UP/S/SUH	452.472	Barahawa	101.16	72.8352	26.3016	1.0116	1.0116	Encroachment (very low), grazing (moderate), forest fires (heavy), NTFP collection (moderate), felling (low), poaching (low), lopping (low).	
	UP/S/SUH		Tulsiapur	84.07	60.5304	21.0175	1.6814	0.8407	Encroachment (Very low), grazing (moderate), forest fires (heavy), NTFP collection (moderate), felling (low), poaching (low), lopping (low).	
	UP/S/SUH		East Suhelwa	80.16	65.7312	13.6272	0.8016		Encroachment (very low), grazing (moderate), forest fires (heavy), NTFP collection (moderate), felling (low), poaching (low), lopping (low).	
	UP/S/SUH		West Suhelwa	90.36	67.77	21.6864	0.9036		Encroachment (very low), grazing (moderate), forest fires (heavy), NTFP collection (moderate), felling (low), poaching (low), lopping (low).	
	UP/S/SUH		Bankatawa	96.72	77.376	17.4096	0.9672	0.9672	Encroachment (very low), grazing (moderate), forest fires (heavy), NTFP collection (moderate), felling (low), poaching (low), lopping (low).	
283	UP/S/SURA	34.329	Surahatal Bird Sanctuary	34.329	5.14935	24.0303	5.14935		Floods, erosion, habitation, development projects.	Stable
284	UP/S/SURS	7.13	Sur Sarovar Bird Sanctuary	7.13	3.565	1.426	2.139		Grazing, tourism, pilgrimage, others.	
285	UP/S/VIJ	2.62	Vijay Sagar Bird Sanctuary	2.62		2.62			Grazing	Reducing
	UP/S/VIJ		Vijay Sagar Bird Sanctuary	2.62		2.62			Fishing	Stable
286	UTT/N/COR	520.82	Bijrani	102.624	41.05	30.79	30.79		Tourism and fire.	Heavy
	UTT/N/COR		Tourism	75.644	7.66	22.99	45.99		Tourism and dam	Heavy
	UTT/N/COR		Dhela	18.944	14.21	2.84	1.89		Fire, grazing and development project.	Low
	UTT/N/COR		Jhirna	40.849	26.55	6.13	8.17		Fire, grazing and development project.	Moderate
	UTT/N/COR		Kalagarh	151.818	30.36	30.36	91.09		Fire and dam	Heavy
	UTT/N/COR		Sarpduli	103.945	72.76	15.59	15.59		Erosion, tourism and fire.	Moderate
287	UTT/N/GAN	2390.024	Gangotri	2390.02	1673.014	239.002	478.004		Tourism, pilgrimage, avalanches, erosion, development activities (roads), grazing, tree felling, fire, NTFP collection, others (army camps and hunting)	
288	UTT/N+S/GOV	957.969	Rupin	146.46	29.292	24.8982	87.876	4.3938	Grazing, NTFP collection, tree felling, habitation, cultivation, floods, erosion, development activities (road and path maintenance)	Slight Increase

Table 1.3: The Status of Forests in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
	UTT/N+S/GOV		Supin	311.67	77.9175	24.9336	202.5855	6.2334	Grazing, NTFP collection, tree felling, habitation, cultivation, tree felling, erosion, development activities (roads and path maintenance), tourism.	Slight increase
	UTT/N+S/GOV		Sankri	499.84	199.936	44.9856	249.92	4.9984	Grazing, NTFP collection, tree felling, habitation, cultivation, tree felling, erosion, development activities (roads and path maintenance), tourism.	Slight increase
289	UTT/S/ASK	599.93	Dharchula	409.14	122.742	163.656	118.6506	4.0914	Landslides, erosion, dam, development activities, grazing, habitation, NTFP collection, cultivation, tourism, pilgrimage, others (hunting), mines	Increasing for all categories.
	UTT/S/ASK		Askote	190.86			184.37076	6.48924	Mines, landslides, erosion, grazing, habitation, NTFP collection, cultivation, others (hunting), pilgrimage.	Increasing for all categories.
290	UTT/S/BIN	47.07	Binsar	47.07	18.83	18.83	9.41		Tourism, Habitation, Cultivation, Firewood and fodder collection.	Tourism increasing. Other disturbances stable. A new hotel is being constructed inside the sanctuary at Shah estate.
291	UTT/S/BINO	3.3874	Binog Wildlife Sanctuary	3.39	3.39					
292	UTT/S/KED	975.20	Gopeshwer	250.47						
	UTT/S/KED		Okhimath	754.76						
293	UTT/S/SON	301.1	Palain	52.3						
	UTT/S/SON		Kalagarh	18.36						
	UTT/S/SON		Adnala	98.27						
	UTT/S/SON		Sonanadi	133.28						
	UTT/S/SON		Maldavan							
	UTT/S/SON		Mandal							
294	WB/N/GOR	79.45	Garumara South Range	50.9312		50.93			Grazing, NTFP collection and tree felling.	Moderate
	WB/N/GOR		Garumara North Range	28.5216		28.52			Grazing and NTFP collection	Moderate
295	WB/N/NEO	88	Upper Neora	44.55	44.55					
	WB/N/NEO		Lower Neora	43.44	41.268	2.172			Biotic cause	Negligible
296	WB/N/SUN	2585.00	Sajnakhal Wildlife Sanctuary	362.33		362.33			Tree felling	Slightly disturbed and heavily disturbed
	WB/N/SUN		Basirhat	522.84		249.29	273.55		Floods, Land slide, Cyclone, Erosion, Tidal wave, Others (Fishing poaching)	Slightly disturbed, heavily disturbed and plantations
	WB/N/SUN		National Park East	809.58		516.19	293.93		Floods, Land slide, Cyclone, Erosion, Tidal wave, Others (Fishing poaching)	Slightly disturbed
	WB/N/SUN		National Park West	890.06		616.70	273.36		Floods, Land slide, Cyclone, Erosion, Tidal wave, Others (Fishing poaching)	Slightly disturbed
297	WB/S/BAL	2.02	Sub type-5B	2.021		0.71		1.31	(1)Presume of deer park. (2)Road passing by the side. Development,Tourism,Others.	Present
298	WB/S/BET	0.67	Krishnapur Range (Bettudahari Beat)	0.6686				0.67	No disturbances at present. The sanctuary area was a vested forest till 1949. The degraded forest was planted during 1950 to 1952. No disturbances afterwards.	Nil
299	WB/S/BIB	0.64	Bongaon Social Forestry Range	0.64	0.64			0.64		
300	WB/S/CHA	9.492	Chapramari Beat Under Garumara north range	9.6	5.76	1.152	0.384	2.304	Biotic cause grazing and others.	
301	WB/S/HAL	5.95	Ramganga	5.95	5.95					
302	WB/S/LOT	38.00	Bhagalatpur	38	38.00					The southern part of the island is heavily affected by the tidal waves for which the same is being covered through artificial regeneration in the open sandy beds.
303	WB/S/RAI	1.30	Wildlife Range					1.30	Flood, Erosion, Cyclone, Grazing.	Flood Prone
304	WB/S/RAM	0.14	Attached Forest Range-Burdwan	0.1431	0.14				Does not arise.	Does not arise
305	WB/S/SEN	38.88	Senchal East range & Senchal West range	38.8	3.88				Outburst of human population in fringe area. Situation of town, close to sanctuary. Poverty of fringe people. Source of raw material.	

Table 1.3: The Status of Forests in PAs
 Note: All values for area in this table are in square kilometers

Sno	PA code	Total Area	Range Name	Range Area	Undisturbed Area	Slightly disturbed	Heavily disturbed	Plantations	Causes	Current status
	TOTAL FOR ALL	100560.07		80617.63	23770.49	30012.38	21532.60	2773.00		
					29.49%	37.23%	26.71%	3.44%		

Table 1.4: Plantations in PAs

TABLE 1.4: Plantations in PAs
Note: All values of area in this table are in square kilometers

Sno	PA code	the PA	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
1	A&N/N/SAD	NO	No		32.54						
2	A&N/S/CUT	NP	Yes		5.82	Casuarina equisetifolia	Indigenous for A&N but exotic for the PA	Betapur			As a windbreaker. To prevent coastal erosion. To prevent encroachment.
3	A&N/S/INT	YES	Yes		133	Tectona grandis (Teak)	Exotic	Tugapur	0.36	1956	Timber extraction was done until 1956. Currently, there is no working in the PA.
	A&N/S/INT					Lagerstroemia rypolenca (Pyionna)	Indigenous	Tugapur	0.05	1970	
4	A&N/S/NAR		No		6.81						
5	A&N/S/NOR		Yes		3.48	Coconut (Cocos nulfiera)	Exotic	Tugapur	0.02		
6	AP/N/KAS	NP	No		1.43						
7	AP/N/MAH	NP	No		14.59						
8	AP/N/MRU	NP	No		2.8						
9	AP/N/VEN	NP	No		525.97						
10	AP/S/COR	YES	Yes		235.7	Avicennia officinalis	Indigenous	WLM Range, Kakinada	7.96	1987-upto2000	To make the blank area vegetative
	AP/S/COR					Avicennia marinar					
11	AP/S/ETU	YES	Yes		803	Eucalyptus	Exotic	Eturnagaram	0.19	1977	All plantation have been cut and at present no Eucalyptus trees are available in PA, Except some Coppice shoots and left over here & there
	AP/S/ETU					Eucalyptus	Exotic	Eturnagaram	0.40	1978	All plantation have been cut and at present no Eucalyptus trees are available in PA, Except some Coppice shoots and left over here & there
	AP/S/ETU					Eucalyptus	Exotic	Tadvai	0.79	1978	All plantation have been cut and at present no Eucalyptus trees are available in PA, Except some Coppice shoots and left over here & there
	AP/S/ETU					Eucalyptus	Exotic	Eturnagaram	2.50	1979	All plantation have been cut and at present no Eucalyptus trees are available in PA, Except some Coppice shoots and left over here & there
	AP/S/ETU					Eucalyptus	Exotic	Eturnagaram	0.03	1988	All plantation have been cut and at present no Eucalyptus trees are available in PA, Except some Coppice shoots and left over here & there
	AP/S/ETU					Eucalyptus	Exotic	Tadvai	0.05	1988	All plantation have been cut and at present no Eucalyptus trees are available in PA, Except some Coppice shoots and left over here & there
12	AP/S/GUN	NP	Yes		1194	TEAK(TECTONA GRANDIS)	Indigenous	VELGODE	1.75	1906	To meet the demand of construction timber

TABLE 1.4: Plantations in PAs
Note: All values of area in this table are in square kilometers

	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	AP/S/GUN				TEAK(TECTONA GRANDIS)		Bairluty, Gbm, Nandyal, Chalama, Jurimella, Gundla Kamma, Dornal	14.75	1905,1931,1947,1942,1948,1941,1942	To meet the demand of construction timber
13	AP/S/KAW	YES	Yes	893	TEAK(TECTONA GRANDIS)	indigenous	Jannaram	14.41	1944	Cover the gaps and to improve the coverage non-indigenous or exotic sp. had been introduced since 1966-67
	AP/S/KAW				Eucalyptus	Exotic	Jannaram			
	AP/S/KAW				Babool	indigenous	Jannaram			
	AP/S/KAW				Tectona grandis	indigenous	Indampally	19.85		
	AP/S/KAW				Tectona grandis	indigenous	Tadlapet	21.13		
	AP/S/KAW				Tectona grandis	indigenous	Birsaiipet	7.17		
14	AP/S/KOL	NO	No	308						
15	AP/S/KOU	NP	Yes	357.63	Hardwickia binata	Indigenous	Palamaner and Kuppam	19.00	1989	Fodder, fuel, re-clothing of blanks, NTFP
	AP/S/KOU				Ficus species	Indigenous				
	AP/S/KOU				Emblia officianalis	Indigenous				
	AP/S/KOU				Eugenia jambulana	Indigenous				
	AP/S/KOU				D. strictas	Indigenous				
	AP/S/KOU				Tamarindus indica	Indigenous				
	AP/S/KOU				Terminalia arjuna	Indigenous				
	AP/S/KOU				Dalbergia sissoo	Indigenous				
	AP/S/KOU				Ptero carpus santalinus	Indigenous				
	AP/S/KOU				Agendrachapta indica	Indigenous				
16	AP/S/KRI	NP	Yes	194.21	Avicinia (Hada)	Indigenous	Nagayalanka Range Social Forestry MSSR Foundation	3.54	1998	Reclaiming blank areas with planting
	AP/S/KRI									
17	AP/S/MAN	NO	Yes	20	Babul - Acacia arabica	Indigenous	Manjira	0.19	1995, 1996	For roosting and nesting of the birds
	AP/S/MAN				Jamun - Eugenia jambulana	Indigenous	Manjira	0.06	1999	For roosting and nesting of the birds
18	AP/S/NEL	YES	No	4.58						
19	AP/S/PAK	YES	Yes	860	Eucalyptus	Exotic	Gudur	0.27	1985-87	
	AP/S/PAK				Eucalyptus	Exotic	Narsampet	0.58	1985-87	
	AP/S/PAK				Eucalyptus	Exotic	Gudur	0.10	1986-87	
	AP/S/PAK				Eucalyptus	Exotic	Gudur	0.20	1987-88	
	AP/S/PAK				Eucalyptus	Exotic	Gudur	0.20	1988-89	
	AP/S/PAK				Eucalyptus	Exotic	Narsampet	0.10	1988-89	
	AP/S/PAK				Eucalyptus	Exotic	Gudur	0.15	1989-90	
20	AP/S/PAP	NO	Yes	590.68	Teak - Tectona grandis	Indigenous	Polavaram, R.C.Varam and V.R.Puram		1938	Timber
21	AP/S/POC	YES	No	130						
22	AP/S/PRA	YES	Yes	136	Tectona grandis	Indigenous	Chennur, Nilwai	68.00		Commercial planting
	AP/S/PRA									
23	AP/S/PUL	NO	Yes	600	Anacordium occidental (cashew)	Exotic	Pulicat Bird Sanctuary	1.10	1953-54	Commercial
	AP/S/PUL									
24	AP/S/SIW	NO	Yes	29.81	Tectona grandis	Indigenous	Mamthani	1.00		Gap planting
25	ARU/N/MOU	NP		483						

TABLE 1.4: Plantations in PAs
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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
26	ARU/N/NAM	YES	Yes	1985.25	Gamari (Gmelina arborea)	Indigenous	Miao Wildlife Range	0.15	1995	To demarcate the boundary of the PA from the adjoining road and to suppress exotic weeds
	ARU/N/NAM									
27	ARU/S/DER	YES	Yes	190	Simul (Bombax ceiba), Koro (Albizia procera)	Indigenous	All range	3.65	1988-89/1990-91	Habitat development
	ARU/S/DER				Gamari (Gmelina arborea), Sissoo (Dalbergia)	Exotic	All ranges	1.65	1990-91	Habitat development
	ARU/S/DER				Fruit plants, fuelwood and fodder		All ranges	1.25	1996-97	Habitat development
28	ARU/S/KAM	NP	No	783						
29	ARU/S/MEH	NO	Yes	281.5	Mangifera indica	Indigenous	Mehao, Deopani, Roing	0.50	1993-94	To supplement food availability for animals, to enrich the habitat and also to meet the fuel and fodder requirements of local people
	ARU/S/MEH				Artocarpus integri	Indigenous	Mehao, Deopani, Roing	0.50	1993-94	To supplement food availability for animals, to enrich the habitat and also to meet the fuel and fodder requirements of local people
	ARU/S/MEH				Baguri	Indigenous	Mehao, Deopani, Roing	0.50	1993-94	To supplement food availability for animals, to enrich the habitat and also to meet the fuel and fodder requirements of local people
	ARU/S/MEH				Amlaki	Indigenous	Mehao, Deopani, Roing	0.50	1993-94	To supplement food availability for animals, to enrich the habitat and also to meet the fuel and fodder requirements of local people
	ARU/S/MEH				Jalpai	Indigenous	Mehao, Deopani, Roing	0.50	1993-94	To supplement food availability for animals, to enrich the habitat and also to meet the fuel and fodder requirements of local people
	ARU/S/MEH				Pear	Indigenous	Mehao, Deopani, Roing	0.50	1993-94	To supplement food availability for animals, to enrich the habitat and also to meet the fuel and fodder requirements of local people
30	ARU/S/YOR	NP		445.98						
31	ASS/N/DIB	NP	Yes	340	Hollock (Biscopia spp.)	Indigenous	Guijan	0.35	1968-70	To occupy land from where illegal felling had taken place
	ASS/N/DIB				Semul (Selix spp.)		Saikhowa	125.00	1976	
32	ASS/N/KAZ	NP	No	407.9						
33	ASS/N/MAN	NP	No	519.77						
34	ASS/N/NAME		No	200						
35	ASS/N/ORA	NP	Yes	78.8	Tectona grandis	Exotic	Orang National Park	0.004		Afforestation
	ASS/N/ORA				Gmelina arborea	Indigenous	Orang National Park	0.040		Afforestation
	ASS/N/ORA				Mechelia champaca	Indigenous	Orang National Park	0.002		Afforestation
	ASS/N/ORA				Lagostromia flosreginae	Indigenous	Orang National Park	0.002		Afforestation
	ASS/N/ORA				Albezzia procera	Indigenous	Orang National Park	0.001		Afforestation
36	ASS/S/BAR	NP	No	26.21						

TABLE 1.4: Plantations in PAs
Note: All values of area in this table are in square kilometers

	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
37	ASS/S/BUR		Yes	44	Dalbergia sissoo	Exotic	Burachapori Wildlife Range	2.00	1980-81	1. To increase forest cover and enrich forest composition, 2. To check illegal grazing, encroachments, erosion, floods and droughts, 3. To add to the scenic beauty and to attract wildlife.
	ASS/S/BUR		Yes		Bombax ceiba	Indigenous	Burachapori Wildlife Range	2.00	1980-81	1. To increase forest cover and enrich forest composition, 2. To check illegal grazing, encroachments, erosion, floods and droughts, 3. To add to the scenic beauty and to attract wildlife.
	ASS/S/BUR		Yes		Albizia procera	Indigenous	Burachapori Wildlife Range	2.00	1980-81	1. To increase forest cover and enrich forest composition, 2. To check illegal grazing, encroachments, erosion, floods and droughts, 3. To add to the scenic beauty and to attract wildlife.
	ASS/S/BUR		Yes		Terminalia nudiflora	Indigenous	Burachapori Wildlife Range	2.00	1980-81	1. To increase forest cover and enrich forest composition, 2. To check illegal grazing, encroachments, erosion, floods and droughts, 3. To add to the scenic beauty and to attract wildlife.
	ASS/S/BUR		Yes		Gmelina arborea	Indigenous	Burachapori Wildlife Range	2.00	1980-81	1. To increase forest cover and enrich forest composition, 2. To check illegal grazing, encroachments, erosion, floods and droughts, 3. To add to the scenic beauty and to attract wildlife.
38	ASS/S/DIP	NP	No	0.02						
39	ASS/S/EKAR		No	221.81						
40	ASS/S/GAR		No	6						
41	ASS/S/GIB	NP	Yes	19.16	Hollong (D. Macro carpus)	Indigenous	Central	1.00	1924	To cover vacant areas
	ASS/S/GIB				A. Agollocha	Indigenous	Southern	1.00		
	ASS/S/GIB				Sam (A. Chaplasa)	Indigenous	Northern	1.00		
	ASS/S/GIB				Ajar (L. Speiosa)	Indigenous	Central	1.00		
	ASS/S/GIB				Michelia spp.	Indigenous	Western	1.00		
	ASS/S/GIB				A. Wallichai	Indigenous	Western	1.00		
	ASS/S/GIB				T. Myriocarpa	Indigenous	Central and Southern	1.00		
	ASS/S/GIB				C. Tabularis	Indigenous	Central and Southern	1.00		
	ASS/S/GIB				Cinna cecicodaphne	Indigenous	Central and Southern	1.00		
42	ASS/S/KAR		No	96						
43	ASS/S/LAO	NP	Yes	70.1	Ajar (Legastromia spp.)	Exotic	Laokhowa Wildlife Sanctuary	0.50	After 1950	Filling forest blanks in Reserve Forest

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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	ASS/S/LAO				Delbergia sisoo	Exotic	Laokhowa Wildlife Sanctuary			
	ASS/S/LAO				Anacia spp.	Exotic	Laokhowa Wildlife Sanctuary			
	ASS/S/LAO				Albaria prebera	Exotic	Laokhowa Wildlife Sanctuary			
	ASS/S/LAO				Bombax ceiba	Exotic	Laokhowa Wildlife Sanctuary			
44	ASS/S/NAMB		No	37						
45	ASS/S/PAN	NP	No	33.93						
46	ASS/S/POB	NP	No	16						
47	ASS/S/SON	NP	Yes	220	Bonsum (Phoebegoal perensis), Simul (Bombax ceiba)	Indigenous	Central range and Dhekiajuli range	3.55	1994	To fill up vacant areas and have composite habitat
	ASS/S/SON				Teak (Tectona grandis)	Exotic				Composite habitat
	ASS/S/SON				Bohera (Terminata delesica)	Indigenous				Composite habitat
	ASS/S/SON				Sissoo (Dalbergia sisoo)	Indigenous				Composite habitat
	ASS/S/SON				Bola (Morus laevigata)	Indigenous				Composite habitat
	ASS/S/SON				Titasipa (Michelia champaca)	Indigenous				Composite habitat
	ASS/S/SON				Ajar (Lagestroemia flosrequiae)	Indigenous				Composite habitat
	ASS/S/SON				Urium (Prischofia favanica)	Indigenous				Composite habitat
	ASS/S/SON				Amari (Amora wallichii)	Indigenous				Composite habitat
	ASS/S/SON				Gamari (Gmena arborea)	Indigenous				Composite habitat
48	BIH/S/RAJ	YES	Yes	35.84	Chakundi (Acacia scamia)	Exotic	Rajgir	8.00	Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
	BIH/S/RAJ				Acacia auriculiformis.	Exotic	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
	BIH/S/RAJ				Gawhar	Indigenous	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
	BIH/S/RAJ				Bamboos	Indigenous	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
	BIH/S/RAJ				Teak	Indigenous	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
	BIH/S/RAJ				Arjun	Indigenous	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
	BIH/S/RAJ				Seasam	Exotic	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
	BIH/S/RAJ				Subabul	Exotic	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
	BIH/S/RAJ				Babul (Acacia arabica)	Exotic	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals

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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	BIH/S/RAJ				Khair	Indigenous	Rajgir		Since 1953	(1)Grazing for wild animals. (2)To check erosion. (3)To provide fodder for domestic animals
49	CHD/S/SUK	YES	Yes	26.11		Exotic for the area	Kansal and Nepli	25.00	1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation along with soil conservation measures.
	CHD/S/SUK				Khair (Acacia catechu)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Kikar (Acacia nilotica)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Shisham (Dalbergia sissoo)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Phalai (Acacia modesta)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Musket (Prosopis juliflora)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Papri	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.

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Note: All values of area in this table are in square kilometers

	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	CHD/S/SUK				Safeda (Eucalyptus)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Safeda (Jambolana indica)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Bamboo (Dendrocalamus)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Neem (Azadirachta indica)	Exotic for the area	Kansal and Nepli		1967	To control soil erosion in the catchment area of Sukhna Lake and to reduce silt inflow to lake to prolong its life by providing a carpet of vegetation alongwith soil conservation measures.
	CHD/S/SUK				Arjun (Terminalia arjuna)	Exotic for the area	Kansal and Nepli		1967	
50	CHT/N/IND	NO	No	2799.09						
51	CHT/N/KAN	NP	Yes	200	Tectona grandis (Teak)	Indigenous	Kotamsar	9.01	1954	Plantation was done before the formation of the national park for commercial purpose by the forest department
52	CHT/S/ACH	NP	No	551.55						
53	CHT/S/BAR	NP	Yes	244.66	Teak (Tectona grandis)		Barnawapara	64.81	1891 (Maniram Plantation)	
54	CHT/S/BHA	NP	No	138.95						
55	CHT/S/GOM		Yes	277.82	Teak (Tectona grandis)	Exotic	Gomarda	2.64	1958	For improving the forest
56	CHT/S/PAM	NP	No	442.23						
57	CHT/S/SIT	NP	Yes	558.55	Teak		Sitanadi and Risgaon	13.73	1925	
	CHT/S/SIT				Bamboo		Sitanadi	0.92	1963	
	CHT/S/SIT				Arjun		Sitanadi and Risgaon	0.56	1985	
	CHT/S/SIT				Grasses		Sitanadi and Risgaon	1.06	1986	
58	CHT/S/TAM	NP	Yes	608.53	Bansa (Albizzia odoratissima)	Indigenous	Tamor Pingla Game Range	0.50	1990-91	To check erosion
	CHT/S/TAM				Kalasiras (Albizzia lebbeck)	Indigenous	Tamor Pingla Game Range	0.25	1992-93	To check erosion
	CHT/S/TAM				Karhi (Albizzia procera)	Indigenous	Tamor Pingla Game Range	0.25	1994-95	To check erosion
	CHT/S/TAM				Khair (Acacia catechu)	Indigenous	Tamor Pingla Game Range			
	CHT/S/TAM				Shishu (Dalbergia sissoo)	Indigenous	Tamor Pingla Game Range			
	CHT/S/TAM				Bans (Dendro calamus strictus)	Indigenous	Tamor Pingla Game Range			

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		the PA		03						
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
59	CHT/S/UDA	NP	Yes	237.27	Teak (<i>Tectona grandis</i>)	Indigenous and Exotic	Udanti	1.78	1962-1984	Before declaration of the PA for producing timber
	CHT/S/UDA				Arjun (<i>Terminalia arjuna</i>)	Indigenous	Udanti	0.10	1987	For rearing tussar
	CHT/S/UDA				Bamboo spp.	Indigenous	Udanti	0.50	1990-97	Under Kamar Project
60	DEL/S/ASO	NP	Yes	27.81	Bamboo species	Indigenous	Asola	6.00	1988-89 to 1995-96	To reclaim barren areas.
	DEL/S/ASO				<i>Prosopis juliflora</i> , <i>Acacia nilotica</i> , <i>Acacia leucophloea</i> , <i>Butea monosperma</i>	Indigenous	Asola	4.00	1996-99	To enrich the area with indigenous species for proper development of habitat of natural fauna and cover barren areas.
	DEL/S/ASO				<i>Pithecelobium dulce</i> , <i>Holoptelia integrifolia</i> , <i>Azadirachta indica</i> , <i>Ficus</i> spp, Bamboo, <i>Ailanthus grandis</i> , <i>Anogeissus latifolia</i>	Indigenous	Asola	4.00	1996-99	To enrich the area with indigenous species for proper development of habitat of natural fauna and cover barren areas.
61	GOA/S/BON		No	7.95						
62	GOA/S/CHO		Yes	1.8	<i>Rhizophora mucronata</i>	Indigenous	Campal	0.18	1986	As a soil conservation measure for stabilizing the river banks.
	GOA/S/CHO				<i>Kadelia kandel</i>	Indigenous	Campal	0.18	1986	As a soil conservation measure for stabilizing the river banks.
	GOA/S/CHO				<i>Bruguiera gymnorrhiza</i>	Indigenous	Campal	0.18	1986	As a soil conservation measure for stabilizing the river banks.
	GOA/S/CHO				<i>Sonneratia alba</i>	Indigenous	Campal	0.18	1986	As a soil conservation measure for stabilizing the river banks.
63	GUJ/N/BAN	NO	Yes	23.99	Fodder species	Indigenous	Bansda national park	1.02	1996	To make available fodder for wildlife
64	GUJ/S/PUR	NP	Yes	160.35	Teak (<i>Tectona grandis</i>), Khair (<i>Acacia</i> spp.), Bamboo			9.77	1990	Soil and moisture conservation, habitat improvement, erosion control and fodder for wildlife.
65	GUJ/S/RAT		Yes	55.65	Amla (<i>Emblica officinalis</i>), Imli (<i>Tamarindus indica</i>), Bahedo (<i>Terminalia bellirica</i>), Bor (<i>Zizyphus mauritiana</i>), Teak (<i>Tectona grandis</i>), Satad (<i>Terminalia crenulata</i>), Vad (<i>Ficus bengalensis</i>), Pipal (<i>Ficus religiosa</i>), Khair (<i>Acacia catechu</i>)	Indigenous	Kanjeta	0.70		Development of habitat, increasing food resource for sloth bear.
66	GUJ/S/WIL	NP	Yes	4953.71	<i>Prosopis juliflora</i> , Khair, Piloo (<i>Salvadora</i> spp.) and <i>Acacia arabica</i> (<i>Desi babool</i>)	All are indigenous except <i>prosopis</i>	All the ranges	272.74	1973	To check desertification
67	HAR/N/SUL	YES	Yes	1.42	<i>Azadirachta indica</i> , <i>Acacia auriculaformis</i> , <i>Acacia Leucophloea</i> , <i>Acacia nilotica</i> , <i>Albizia lebbek</i> , <i>Pithecellobium dulce</i> , <i>Prosopis juliflora</i> , <i>Syzigium cumini</i>			0.40	During 1980s	To provide food, shelter and nesting habitat to the wild flora and fauna
68	HAR/S/ABU	NP	Yes	113.97	<i>Acacia nilotica</i> , <i>Dalbergia sisoo</i> , <i>Acacia tortalis</i> , <i>Azadirachta indica</i> , <i>Ficus religiosa</i> , <i>Eucalyptus</i>	Except <i>Acacia tortalis</i> , all other species are indigenous	Dabwali range		Planting was done about 50 years ago	To control wind erosion and for aesthetic values
69	HAR/S/BHIN	NP	Yes	4.07	<i>Eucalyptus</i> , <i>Acacia nilotica</i> , Neem, <i>Ailanthus</i>	All are indigenous except <i>eucalyptus</i>	Jhajjar	0.50	1978-79	To provide nesting facility to birds, to stabilise the earthen embankments and to improve the environment

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70	HAR/S/BIRB	NP	Yes	4.14	Eucalyptus	Exotic	Bir Bara Ban Jind	6.00	1989	To minimise the possibility of fire and to provide commercial and pulp wood to the nearby town
71	HAR/S/BIRS	NP	Yes	7.58	Toon, Khair, Ber, Amaltas, Teak, Dhak, Eucalyptus		Pinjore	7.58		
72	HAR/S/CHIL	NP	Yes	0.28	Eucalyptus	Exotic				To reclaim swamp area
73	HAR/S/KAL	NP	Yes	100	Sal, Khair, Sandal, Reuni, Sain, Jamun, Beri, Gulav, Till and Eucalyptus					
74	HAR/S/KHA	NP	Yes	0.82	Eucalyptus, Kikar and Jamun		Jhajjar	0.80	1978-79	To stop seepage from the lake into the agricultural fields
75	HAR/S/NAH	NP	Yes	2.09	Kikar, Acacia nilotica, Jaund, Totlas, Neem and Ailanthus	Except Kikar which is exotic, all other species are Indigenous	Nahar			Protection and feeding of Deer
76	HAR/S/SAR	NP	Yes	44.02	Acacia nilotica, Eucalyptus, Prosopis juliflora, and Dalbergia sisoo	Eucalyptus and Prosopis are exotic while the rest are indigenous	Saraswati range	44.02		For reclamation of saline patches of abandoned land prone to water logging
77	HP/N/GRE		Yes	905.4	Appricot(Prunus armeniaca),Khanor(Aesculus indica),Aru(Prunus persica)	Exotic	Sainj range	0.05	1994-95	1.Encroachment of PA with flora and fauna(2)Development of the area(3)To provide fuel,fodder and timber to the local people on sustainable basis(4)To provide some source of income to the local inhabitants
	HP/N/GRE				Robina(Robina sps),Walnut(Juglans regia),Popular(Popular sps),Ailanthus(Ailanthus sps),Willow(Salix tetra),Hill Bamboo(Dendro calumus strictus)	Exotic	Tirthan range	0.17	1994-95	1.Encroachment of PA with flora and fauna(2)Development of the area(3)To provide fuel,fodder and timber to the local people on sustainable basis(4)To provide some source of income to the local inhabitants
	HP/N/GRE				Robina(Robina sps),Walnut(Juglans regia),Popular(Popular sps)	Exotic	Jiwanal range	0.15	1994-95	1.Encroachment of PA with flora and fauna(2)Development of the area(3)To provide fuel,fodder and timber to the local people on sustainable basis(4)To provide some source of income to the local inhabitants
	HP/N/GRE				Walnut(Juglans regia),Tosh(Abies pindrow),Mapple(Acer sps.),Ailanthus(Ailanthus sps)	Exotic	Sainj Range	0.24	1995-96	1.Encroachment of PA with flora and fauna(2)Development of the area(3)To provide fuel,fodder and timber to the local people on sustainable basis(4)To provide some source of income to the local inhabitants

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Sno	PA code	the PA Old data 1984-89	New Data 1989-03	03 Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	HP/N/GRE				Deo(Cedrus deodara),Ritta(Sapindus mukor	Exotic	Tirthan range	0.21	1995-96	1.Encroachment of PA with flora and fauna(2)Development of the area(3)To provide fuel,fodder and timber to the local people on sustainable basis(4)To provide some source of income to the local inhabitants
	HP/N/GRE				Robina(Robina sps),Walnut(Juglans regia)	Exotic	Jiwanal Range	0.32	1995-96	Same as purpose 5
	HP/N/GRE				Safada(Eucalyptus)	Exotic	Sainj Range	0.15	1996-97	Same as purpose 6
78	HP/S/DAR	YES	Yes	46.59	Deodar, Mixed broad leaf species, several grasses, Robinia, Fir, Khanoor, Poplar ciliata	All indigenous except some grasses and Robinia	Dofda	1.10	1994-95	For the regeneration of degraded forests and to meet the fuel & fodder demand
79	HP/S/DHA	NP	Yes	943.98	Deodar	Indigenous	Uhl	12.00		To increase the forest cover
	HP/S/DHA				Kail	Indigenous	Uhl	2.00		To increase the forest cover
	HP/S/DHA				Ban	Indigenous	Uhl	1.00		To increase the forest cover
	HP/S/DHA				Robinia	Exotic	Uhl	1.00		To increase the forest cover
	HP/S/DHA				Chil	Indigenous	Uhl	1.00		To increase the forest cover
	HP/S/DHA				Horse chestnut	Indigenous	Uhl	2.00		To increase the forest cover
80	HP/S/GAM	YES	Yes	109	Deodar	Indigenous	Bhandal	1.90	1989	Timber and food for wildlife
	HP/S/GAM				Kail	Indigenous	Bhandal	0.12	1990	Timber and food for wildlife
	HP/S/GAM				Horse Chestnut	Indigenous	Bhandal	1.60	1989	Fodder and food for wildlife
	HP/S/GAM				Walnut	Indigenous	Bhandal	0.09	1992	Timber and food for wildlife
	HP/S/GAM				Mixed broad Leaf species (including Cidrella serata, Ban, Fraxinus spp., Chuli etc.)	Indigenous	Bhandal	0.45	1989	Timber, fodder, fuel and food for wildlife
	HP/S/GAM				Robinia	Exotic	Bhandal	1.50	1989	Fodder, fuel and food for wildlife
	HP/S/GAM				Poplar	Indigenous	Bhandal	0.20	1984	Fast growing species
81	HP/S/KAI		Yes	12.61	Poplar, Fir, Khanoor, Maple, Walnut, Tall fescu grass etc.	All indigenous except Poplar and Tall Fescu grass		2.25		To fill up the blanks compensated by clear felling.
82	HP/S/KAL	YES	Yes	69.47	Deodar	Indigenous	Kalatop-Khajjjar	0.81	1989-90	
	HP/S/KAL				Robinia	Exotic	Kalatop-Khajjjar	0.18	1990-91	
	HP/S/KAL				Fir	Indigenous	Kalatop-Khajjjar	0.00	1990-91	
	HP/S/KAL				Various broad leaf species	Indigenous	Kalatop-Khajjjar	0.43	1989-90	
	HP/S/KAL				Poplar (Pahari)	Exotic/ Indigenous	Kalatop-Khajjjar	0.00	1990-91	
	HP/S/KAL				Goon	Indigenous	Kalatop-Khajjjar	0.19	1990-91	
	HP/S/KAL				Chil	Indigenous	Kalatop-Khajjjar	0.01	1994-95	
	HP/S/KAL				Walnut	Indigenous	Kalatop-Khajjjar	0.00	1999-2000	
83	HP/S/KAN		Yes	58.18	Deodar	Indigenous		0.10	1985	Afforestation
	HP/S/KAN		Yes		Poplar	Exotic		0.08	1985	To provide fuelwood
	HP/S/KAN		Yes		Robinia	Exotic		0.40	1980	To provide fuel and fodder.
	HP/S/KAN		Yes		Walnut	Indigenous		0.20	1985	To provide fruit, fuel and fodder

TABLE 1.4: Plantations in PAs
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Sno	PA code	the PA	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	HP/S/KAN			Yes		Horse chestnut	Indigneous		0.20	1985	To provide fuel and fodder
	HP/S/KAN			Yes		Ban Oak	Indigenous		0.05	1995	To provide fuel and fodder.
	HP/S/KAN			Yes		Tall fescu grass	Exotic		0.50	1990	To provide fodder
84	HP/S/KHO			Yes	19.35	Rubunia, Ban Oak and Poplar	Ban Oak Indigenous, rest exotic		9.30	1985	Social forestry
85	HP/S/KUG	YES		Yes	378.87	Kail	Indigenous	Kugti block of Bharmour territorial division	0.41	1981	
	HP/S/KUG					Deodar	Indigenous		0.78	1981	
	HP/S/KUG					Robinia	Exotic		1.05	1981	
	HP/S/KUG					Baan	Indigenous		0.02	1997	Fodder
	HP/S/KUG					Walnut	Indigenous		0.01	1998	
	HP/S/KUG					Ailanthus	Exotic		0.01	1997	Soil Conservation
	HP/S/KUG					Poplar	Exotic		0.13	1991	
	HP/S/KUG					Goon	Indigenous		0.50	1982	
	HP/S/KUG					Mixed broad Leaf species	Indigenous		0.77	1981	
	HP/S/KUG					Tuft Grass	Indigenous		0.17	1993	
86	HP/S/LIP	NO		No	30.89						
87	HP/S/MAN			Yes	29	Tall Fescu and White Clover grasses	Exotic		20.00	1983-84	For wildlife and social forestry
88	HP/S/NAR			Yes	278.38	Deodar, Chil, Kail, Robinia, Horse chestnut, Walnut, Poplar and Ban oak	All species indigenous to the PA	Wildlife range Barot	6.70	1985	Rehabilitation of degraded forests and afforestation in blanks
89	HP/S/PON	YES		Yes	307.7	Various broad leaf species	Indigenous	Dhameta and Nagrota Surian	1.53	1989-90	
	HP/S/PON					Shisham	Indigenous	Dhameta and Nagrota Surian	0.25	1995-96	
	HP/S/PON					Kikar	Indigenous	Dhameta and Nagrota Surian	0.02	1995-96	
	HP/S/PON					Khair	Indigenous	Dhameta and Nagrota Surian	0.18	1996-97	
90	HP/S/RUP	YES		Yes	269.15	Deodar	Indigenous	Bhaba	0.02	1984	Rehabilitation of degraded forests
	HP/S/RUP					Chil	Indigenous	Bhaba	0.15	1984	To meet the fuel and fodder demand
	HP/S/RUP					Robinia	Exotic	Bhaba	0.02	1998	To meet the fuel and fodder demand
	HP/S/RUP					Poplar Ciliata	Indigenous	Bhaba	0.02	1998	To meet the fuel and fodder demand
	HP/S/RUP					Deodar	Indigenous	Rupi	0.16	1990	Rehabilitation of degraded forests
	HP/S/RUP					Khanoor(Horse Chestnut)	Indigenous	Rupi	0.22	1990	To meet the fuel and fodder demand
	HP/S/RUP					Robinia	Exotic	Rupi	0.32	1990	To meet the fuel and fodder demand
	HP/S/RUP					Wild Apricot	Indigenous	Rupi	0.13	1990	To meet the fuel and fodder demand
	HP/S/RUP					Prunus Persica (Behmi)	Indigenous	Rupi	0.12	1990	To meet the fuel and fodder demand
	HP/S/RUP					Poplar Ciliata	Indigenous	Rupi	0.03	1990	To meet the fuel and fodder demand

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91	HP/S/SAN			Yes	650	Deodar	Indigenous	Sangla	0.15	1997	Soil conservation
	HP/S/SAN					Various Broad leaf Species (Robinia, Poplar, Willow, Chuli, Bhemi, Horse Chestnut etc.)	All indigenous except Robinia	Sangla	0.10	1996	To meet people's needs
	HP/S/SAN					Clover and other palatable grasses	Indigenous	Sangla	0.30	1996	For wild herbivores
92	HP/S/SHI			Yes	90.37	'Deodar, Khanoor, Walnut, Poplar, Robinia and Chuli	Indigenous	Karsog	0.50	1998-99	To increase the forest area for fodder and fuel wood, wildlife and for agricultural use.
93	HP/S/TUN	YES	Yes		64	Deodar	Indigenous	Tundah block of Swai territorial range of Bharmour Division.	0.42	1987-88	
	HP/S/TUN					Kail	Indigenous	Tundah block of Swai territorial range of Bharmour Division.	0.62	1985-86	
	HP/S/TUN					Goon	Indigenous	Tundah block of Swai territorial range of Bharmour Division.	0.47	1997-98	
	HP/S/TUN					Baan	Indigenous	Tundah block of Swai territorial range of Bharmour Division.	0.03	1997-98	
	HP/S/TUN					Walnut	Indigenous	Tundah block of Swai territorial range of Bharmour Division.	0.05	1997-98	
	HP/S/TUN					Poplar	Exotic	Tundah block of Swai territorial range of Bharmour Division.	0.05	1989-90	
	HP/S/TUN					Miscellaneous broad leaf species	Indigenous	Tundah block of Swai territorial range of Bharmour Division.	0.17	1989-90	
	HP/S/TUN					Robinia	Exotic	Tundah block of Swai territorial range of Bharmour Division.	1.47	1999-2000	
	HP/S/TUN					Drek	Indigenous	Tundah block of Swai territorial range of Bharmour Division.	0.01	1999-2000	
	HP/S/TUN					Willow	Exotic	Tundah block of Swai territorial range of Bharmour Division.	0.01	1999-2000	
94	J&K/N/HEM		Yes		3350	Salix nigera (Willow)	Exotic	Markha, Rumbak, Chilling, Kaya	0.59	Before 1981	Food for wild animals, fuel and timber for local people.
	J&K/N/HEM		Yes			Populus spp. (Poplars)	Exotic	Markha, Rumbak, Chilling, Kaya	0.59	Before 1981	Fuel and timber for local people.
95	J&K/N/KIS	NO	Yes		425	Willow	Indigenous	Kishtwar	0.20	1995-96	
	J&K/N/KIS					Walnut (Juglenus religia)	Indigenous	Sirchi		96-97	Reclamation of degraded areas
	J&K/N/KIS					Robinia	Indigenous	The plantation has done in small portions of degraded area (approximate in 70 hectares, during the last 3 to 4 years.	0.50	1995-96,96-97,97-98,98-99.	
96	J&K/S/CHA		Yes		4000	Salix spp. (Willow)	Exotic	Both ranges	25.00	1965	Timber extraction, fodder, fuel.

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	J&K/S/CHA			Yes		Poplar spp.	Exotic	Both ranges	15.00		Timber extraction, fuel
97	J&K/S/KAR			Yes	5000	Poplar	Exotic	Diskit, Digger, Panamik	10.00	Not known	Timber, fuel
	J&K/S/KAR			Yes		Willow	Exotic	Diskit, Digger, Panamik	10.00	Not known	Timber, fuel, fodder
	J&K/S/KAR			Yes		Hippophae spp.	Indigenous	Diskit, Digger, Panamik	30.00	Not known	Fuel, fodder
98	J&K/S/OVE			Yes	425	Horse chesnut (Ausiulus indica)					
99	JHA/N/RAJ			Yes	0.74	Acacia auriculiformis	Exotic	Mandro Range		1995	To develop the ecosystem
	JHA/N/RAJ					Eucalyptus hybrid	Exotic	Mandro Range		1995	To develop the ecosystem
	JHA/N/RAJ					Acacia catechu	Indigenous	Mandro Range		1995	Use for economic purpose of local people
	JHA/N/RAJ					Albizia lebeck	Indigenous	Mandro Range		1995	To develop ecosystem
100	JHA/S/HAZ	YES	Yes		186.26	Acacia, Karanj, Semal, Kanha	Indigenous	Hazaribagh wildlife Sanctuary	2.22	1986	To fill gaps and to improve the habitat
	JHA/S/HAZ					Sisal	Indigenous	Hazaribagh wildlife sanctuary	0.05	1994	To fill gaps and to improve the habitat
	JHA/S/HAZ					Chakundi, Acacia, Gumhar, Karanj, Neem, and Jamun	Indigenous	Hazaribagh wildlife sanctuary	0.40	1995	To fill gaps and to improve the habitat
101	JHA/S/PAR	NP	No		50.81						
102	JHA/S/UDH	NP	No		1.27						
103	KAR/N/ANS	NP	Yes		250	Cane (Calamus)	Indigenous	Anashi	4.00	1991	Commercial
	KAR/N/ANS					Accacia	Exotic	Anashi	2.00	1995	Commercial
	KAR/N/ANS					Bamboo	Indigenous	Anashi	9.00	1976	Commercial
	KAR/N/ANS					(Other Misc) Cane-Calamus	Indigenous	Kumbarwada	0.60	1991	Commercial
	KAR/N/ANS					(Other Misc) Teak-Tectona grandis	Indigenous	Kumbarwada	0.50	1962	Commercial
	KAR/N/ANS					(Other Misc) Silver Oak	Exotic	Kumbarwada	0.25	1962	Commercial
104	KAR/N/BAND	NO	No		880.02						
105	KAR/N/BANN		Yes		104.27	Eucalyptus Hybrid and Eucalyptus citrodora	Exotic	Bannerghatta, Harohally, Anckal	0.50	Before 1972	Fuelwood
	KAR/N/BANN		Yes			Acacia auriculoformis	Exotic	Bannerghatta, Harohally, Anckal	0.20	Before 1972	Fuelwood.
106	KAR/N/KUD	NP	Yes		600.32	Acacia areculiformis (Acacia) Exotic, Casuarina Equisitifolia (Galimara) Indeginous, Ailanthus malabaricum (Halmaddi) Indigenous	Exotic, Indigenous	Kudremukh, Sringeri, Venur, Karkala Range	60.00	1984	Food, Fodder and Shelter for Fauna and Avi-Fauna
107	KAR/N/NAG	NO	Yes		643.39	Teak (Tectona grandis)	Indigenous	Anechowkur		1913 to 1959 & 1960 to 78	For meeting timber requirement
	KAR/N/NAG					Teak (Tectona grandis)		Nagarahole		1900 to 1978	For meeting timber requirement
	KAR/N/NAG					Teak (Tectona grandis)		D B Kuppe		1911 to 1960	For meeting timber requirement
	KAR/N/NAG					Teak (Tectona grandis)		Kallahalla		1900 to 1960	For meeting timber requirement
	KAR/N/NAG					Miscellaneous		Veeranahosally	4.41	1960	For meeting timber requirement
	KAR/N/NAG					Miscellaneous		Anechowkur	1.59	1968	For meeting timber requirement
	KAR/N/NAG					Miscellaneous		Kallahala	3.46	1974	For meeting timber requirement
	KAR/N/NAG					Miscellaneous		Nagarahole	0.81	1962	To meeting timber requirement
	KAR/N/NAG					Eucalyptus		Anechowkur	0.72	1968	For meeting timber requirement
	KAR/N/NAG					Miscellaneous		D B Kuppe		1963	For meeting timber requirement

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	KAR/N/NAG					Eucalyptus		Nagarahole	0.26	1962	For meeting timber requirement
108	KAR/S/ADI	NO	Yes		0.89	Eucalyptus Territocornis	Exotic	Entire PA sparse growth	0.89	Not available	To cover the area with tree cover
	KAR/S/ADI					Acacia Auriculi formis	Exotic	Entire PA sparse growth			
109	KAR/S/ARA	NP	Yes		13.5	Eucalyptus Territocornis (Nilgiri)	Exotic	Arabittu Wildlife Sanctuary	2.00	Not available	To cover the area with tree growth
	KAR/S/ARA					Acacia Auriculi formis (Acacia)	Exotic				
	KAR/S/ARA					Bambusa Arundinacea (Kiru bidiru)	Indigenous				
	KAR/S/ARA					Emblia officialianus (Nelli)	Indigenous				
	KAR/S/ARA					Santalum Album (Sandal)	Indigenous				
110	KAR/S/ATT		Yes		2.23	Karjali (Acacia arebica)	Indigenous	Ranebennur Wildlife Range	0.04	Older	To protect the bird sanctuary for nesting of birds.
111	KAR/S/BHA	YES	Yes		492.46	Teak (Tectona grandis)	Indigenous	Muthodi, Hebbe, Thanigebyle, Lakkavalli			Plantation raised earlier to the notification of the sanctuary
	KAR/S/BHA										
112	KAR/S/BIL		Yes		540	Acacia auriculiformis	Exotic	Throughout the fringe areas of the sanctuary on the boundary.	0.15	1980	Forest cover
	KAR/S/BIL		Yes			Eucalyptus spp.	Exotic	Throughout the fringe areas of the sanctuary on the boundary.	0.15	1980	Forest cover
	KAR/S/BIL		Yes			Casia Simmia	NA	Throughout the fringe areas of the sanctuary on the boundary	0.15	1980	Forest cover
	KAR/S/BIL		Yes			Phyllanthus emblica	Indigenous	Throughout the fringe areas of the sanctuary on the boundary	0.15	1980	Forest cover
	KAR/S/BIL		Yes			Dalbergia sissoo	Indigenous	Throughout the fringe areas of the sanctuary on the boundary	0.15	1980	Forest cover
113	KAR/S/BRA	NO	Yes		181.29	Accia Auriculiformis	Exotic	Sreemangal Wildlife Range	1.20	1982	Afforestation in blank area, research purposes & gap planting
	KAR/S/BRA					Hopea parviflora	Indigenous	Brahmhagiri WL Range, Sreemangal WL Range	0.02		
	KAR/S/BRA					Tectona grandis	Indigenous	Brahmhagiri, Sreemangal, Makutta WLR	0.90	1912	
	KAR/S/BRA					Hopea parviflora	Indigenous	Brahmhagiri, Sreemangal, Makutta WLR		1972	
114	KAR/S/DAN	YES	Yes		475.02	Tectono grandis (Teak)	Indigenous	Kulgi, Phansoli, Gund	81.17	1920	Commercial. N.B.: Areas of the National Park have been handed over to the Wildlife Wing in March, 1999. Raising of commercial plantations have been stopped since then.
	KAR/S/DAN					Acacia Auriculi formis	Exotic	Kumbarwada	2.00	1993	Commercial
	KAR/S/DAN					Silver Oak	Exotic	Kumbarwada	0.25	1962	Commercial
	KAR/S/DAN					Miscellaneous including Terminalias, Dalbergia, Bamboo, Mango, Halasu etc.	Indigenous	Kulgi, Phansoli, Gund, Kumbarwada	35.55	1962	Commercial
115	KAR/S/DOR	NP	Yes		55.87	Carissa Carandus (Kanale)	Indigenous	Kamalapur	1.50	1995	Prevent Man-animal conflict
	KAR/S/DOR					Grewia Teliafolia (Jari)					Habitat Improvement

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	KAR/S/DOR				Zyziphus Jujuba (Bare), Ananas Squamusa (Sitafala)					
	KAR/S/DOR				Zyziphus Oenoplea (Parogi), Mangifera Indica (Mango)					
116	KAR/S/GHA	NO	Yes	29.79	Bamboo Plantations	Indigenous		0.10	1995	For providing shelter and nesting by Birds
	KAR/S/GHA									
117	KAR/S/GUD	NP	Yes	0.74	Acacia and Fruit yielding seedlings like Hippa, Mango, Halasu etc	Indigenous	Kargal WL Range (Gudavi Bird Sanctuary)	0.10	1990-91, 1999-2000	To cover the vegetation and to facilitate nesting and Breeding and Adibli purpose
	KAR/S/GUD									
118	KAR/S/KAV	NP	Yes	526.95	Acacias, Albizzias, Pongamia, Bamboos, Neem, Sapindus, Teak, Feronia, Anogeissus, Tamarind, Syzygium, Hardwickia	indegenous, exotic	Kanakapura, Hannur, Cowdalli, M M Hills WL range		1988-89	Prior to the formation of sanctuary about 240ha of plantation were raised(Prior to 1992). Further plantations were raised in about 1sqkm with indigenous spp.which are found important for wild animals.
	KAR/S/KAV									
119	KAR/S/MEL	NO	Yes	49.82	Eucalyptus Territocornis (Nilgiri)	Exotic	Narayanadurga Reserve Forest & Mudibetta RF	6.00	Details not available	To cover the baren area with tree growth
	KAR/S/MEL				Acacia Auriculi formis (Acacia)	Exotic	Narayanadurga & Mudibetta RF	3.00	Details not available	To cover the baren area with tree growth
	KAR/S/MEL				Tectona grandis (Teak)	Indigenous	Narayanadurga Reserve Forest	1.00	1990	To cover the baren area with tree growth
120	KAR/S/MOO	YES	Yes	247	Tectona Grandis	Exotic	Kundapur Wildlife Range	20.00	1934	Timber, Non-timber forest produce, fuel wood habitat improvement
	KAR/S/MOO				Acacia	Exotic	Kundapur Wildlife Range			
	KAR/S/MOO				Casurina	Exotic	Kundapur Wildlife Range			
	KAR/S/MOO				Ailanthus	Indigenous	Kundapur Wildlife Range			
	KAR/S/MOO				Bamboosa	Indigenous	Kundapur Wildlife Range			
	KAR/S/MOO				Calamus	Indigenous	Kundapur Wildlife Range			
	KAR/S/MOO				Artocarpus	Indigenous	Kundapur Wildlife Range			
	KAR/S/MOO				Mangifera Indica	Indigenous	Kundapur Wildlife Range			
	KAR/S/MOO				Viteria Indica	Indigenous	Kundapur Wildlife Range			
	KAR/S/MOO				Anacardium Occidentalis	Exotic	Kundapur Wildlife Range			
121	KAR/S/NUG	NO	Yes	30.32	Eucalyptus Territocornis	Exotic	Nugu Wildlife Sanctuary	2.00	N.A	To cover the area
	KAR/S/NUG									
122	KAR/S/PUS	NP	Yes	92.66	Acacia aureculiformis, Casurina, Nalli	Exotic	Somwarpet	0.58	94-95	To cover the grassy patch and Sholla into the forest area
	KAR/S/PUS				Acacia aureculiformis, Casurina, Nalli	Exotic	Sampagi	1.08	94-95 to 99-2000	Fruit yielding plants were planted for the purpose of wild animals and birds
123	KAR/S/RANE	YES	Yes	119	Acacia latronum	Indigenous	Hunsikatti	93.00	1971	For providing food & fodder to the wild animals
	KAR/S/RANE				Acacia arabica		Hullatti			
	KAR/S/RANE				Acacia catechu		Alalgeri			
	KAR/S/RANE				Albizzia amarec					
	KAR/S/RANE				Azadirachta indica					
	KAR/S/RANE				Carrissa carandus					

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	KAR/S/RANE				Chloronilon					
	KAR/S/RANE				Swietenia					
	KAR/S/RANE				Encalepitus sp.					
	KAR/S/RANE				Glericidia sepium, tamarindus indica, Zizyphus jujuba					
124	KAR/S/RANG		Yes	0.67	Ficus bengalensis	Indigenous	Ranganathittu Island	0.40	N.A	To cover the area to improve the habitat to increase the availability of fodder
	KAR/S/RANG				Bambusa Bambus	Indigenous				
	KAR/S/RANG				Bambusa arundinacea	Indigenous				
	KAR/S/RANG				Bambusa vulgaris	Exotic				
	KAR/S/RANG				Salix spp.	Indigenous				
	KAR/S/RANG				Lucornia	Indigenous				
	KAR/S/RANG				Ficus mysorensis	Indigenous				
	KAR/S/RANG				Tamarindus indica	Indigenous				
	KAR/S/RANG				Pongamia pinnata	Indigenous				
125	KAR/S/SHA	NP	Yes	431.23	Accacia	Indigenous	Kogar	15.60	1933 to 83	Compensatory plantation raised by (MPM) plantation , To the areas against the Sharavathi Hydro Electrical Project
	KAR/S/SHA				Teak	Indigenous	Kargal	234.05	1984 to 92	Compensatory plantation raised by (MPM) plantation , To the areas, against the Sharavathi Hydro Electrical Project
	KAR/S/SHA				Cane & fruit trees as gap plantation					
126	KAR/S/SHE	YES	Yes	395.6	Eucalyptus	Exotic	Shimoga, Sacrebyle	86.00	1970	Pulp wood
	KAR/S/SHE				Acacia (Acacia auriculi formis)	Exotic	Shimoga, Hanagere	12.00	1983	Pulp wood
	KAR/S/SHE				Teak	Indigenous	Shimoga, Sacrebyle, Hanagere	60.00	1880	Timber
127	KAR/S/SOM	YES	Yes	88.97	Ilanthus malabarica - Gugul doopa, Acrocarpus fraxinifolius - Belangi, Vateria indica -Dhoopa, Euginia jambulana - Nerale, Artocarpus hirsuta, Mangifera indica - mavu, Canes, Ficus religious - Arali, Ficus species - Athi, Casuarina, Tectona grandis - Teak	Indigenous	Karkala Wildlife Range	8.97	Prior to declaring as Sanc.	Prior to constitution of sanctuary the original in tension was for the purpose of fuel wood and timber. After declaring as sanctuary; the aim is to develop the planting of fruit yielding species so as to attract the fauna and avi-fauna apart from providing shade and shelter
	KAR/S/SOM				Acacia Auriculoformis	Exotic	Karkala Wildlife Range			
128	KAR/S/TAL	NP	Yes	105.01	Acacia Auriculoformis	Exotic	Bhagamandala	5.00	1980-81	To cover the barren hills tops
	KAR/S/TAL									
129	KER/N/ERA	NO	No	100						
130	KER/S/ARA		Yes	55	Teak (Tectona grandis)	Indigenous	Aralam	2.91	1978	Timber
131	KER/S/CHIN	NO	Yes	90.44	Eucalyptus	Exotic	Chinnar	0.01	1982	Pulpwood

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132	KER/S/WAY	YES	Yes	344.44	Teak	Indigenous	All ranges		1964	
	KER/S/WAY				Eucalyptus hybrid	Exotic	Tholpetty and Muthanga		1965	For supplying raw materials to Gwalior Rayons
	KER/S/WAY				Eucalyptus grandis	Exotic	Tholpetty and Muthanga		1977	
	KER/S/WAY				Silver Oak	Exotic	Kurichiyat	20.57		
	KER/S/WAY				Pepper	Indigenous	Kurichiyat	2.10	1976	For giving employment to tribals
	KER/S/WAY				Rose wood	Indigenous	Kurichiyat	0.10		
133	MAH/N/AND	NP	Yes	625.4	Tectona grandis(Teak)	Indigenous	Kolsa and Moharli	7.49	1959	To obtain sustained yield in order to meet local demands.
	MAH/N/AND				Fruit and Fodder species like Amla,mango,ber etc	Indigenous	Moharli and Kolsa	0.62	1990	To increase availability of food and grasses to herbivores.
134	MAH/N/NAV	NO	Yes	133.88	Chinch (fruit trees)		Compartment no. 220,222,9	0.50	1990	
135	MAH/N/PEN	YES	Yes	257.26			Compartment 689	0.25	1990	Fodder Plantation
	MAH/N/PEN						Compartment 679	0.25	1990	Fruit plantation
	MAH/N/PEN						Compartment 676	0.25	1991	Fruit
	MAH/N/PEN						Silhari village	0.30	1995	Mixed plantation
	MAH/N/PEN						Compartment 680	0.02	1993	Grass meadows
	MAH/N/PEN						Private land	0.03	1995	
	MAH/N/PEN						Private land	0.01	1995	
	MAH/N/PEN						Cooperative plant Wagholi Village	0.04	1995	
	MAH/N/PEN						Tuyapar	0.16	1996	
136	MAH/N/SAN	YES	Yes	103.09	Subabul,Acacia	No	Yeur,(02)	0.02	81-82	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.

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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	MAH/N/SAN				Subabul,Acacia,Cashew,Coconut, Mango &Sitaphal		Krishnagiri Upwan Borih:- 0.06, Sanjay Gandhi National Park:-0.08, Year:- 0.27	0.40	82-83	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.
	MAH/N/SAN				Subabul,Acacia,Mixed plantation teak wood,Karuand,Sitaphal		Krishnagiri Upwan Borih:- 0.27, Sanjay Gandhi National Park:-0.48, Year:- 0.57	0.87	83-84	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.
	MAH/N/SAN				Cashew,karuand,Subabul, mixed plantation		Krishnagiri Upwan Borih:- 0.08, Sanjay Gandhi National Park:-0.25, Year:- 0.49	0.82	84-85	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.
	MAH/N/SAN				Mixed Plantations		Year:-0.50	0.50	85-86	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.

TABLE 1.4: Plantations in PAs
Note: All values of area in this table are in square kilometers

	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	MAH/N/SAN				Teak,mixed plantation		Krishagiri Upwan Borih:- 0.005,Sanjay National National Park:-0.14,Yeur:- 0.34	0.49	86-87	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.
	MAH/N/SAN				Mixed plantations ,Acacia		Sanjay Gandhi National National :-0.20,Yeur:-0.10	0.30	87-88	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.
	MAH/N/SAN				Mixed plantations, fruit species		Sanjay Gandhi National Park :-0.31	0.31	88-89	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.
	MAH/N/SAN				Mixed plantations & fruit species.		Sanjay National Gandhi Park :-0.49,Yeur:-0.10	0.59	89-90	(I)Maintainance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth.(ii)Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii)To manipulate the habitat in the intrest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.

TABLE 1.4: Plantations in PAs
Note: All values of area in this table are in square kilometers

Sno	PA code	the PA Old data 1984-89	New Data 1989-03	03 Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	MAH/N/SAN				Mixed plantations, fruit species		Sanjay Gandhi National Park:-0.80, Yeur:-0.15	0.95	90-91	(i) Maintenance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth. (ii) Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii) To manipulate the habitat in the interest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.
	MAH/N/SAN				Mixed fruit trees		Krishnagiri Upwan Borih:-0.006, Yeur:-0.34	0.40	91-92	(i) Maintenance and restoration of the ecological balance that has been disturbed by serious depletion of the tree growth. (ii) Check soil erosion & denudation specifically in the catchment areas of the Tulsi & Vihar lakes & the Dahisar river (iii) To manipulate the habitat in the interest of the existing wildlife & to provide fodder & fruits to herbivores & birds of the park.
137	MAH/S/AMB	NP	Yes	127.11	Teak	Indigenous	Sonala	9.01	1965-66	For covering the open space
	MAH/S/AMB				Bamboo, Awla, Khair, Chirch	Indigenous	Sonala			
	MAH/S/AMB				Siras, Sisoo, Sitafal	Exotic	Sonala			
138	MAH/S/ANE	NP	Yes	82.94	Teak, Bamboo & Fruits					
139	MAH/S/BHA	NP	No	104.38						
140	MAH/S/BHI		Yes	130.78	Teak (Tectona grandis)	Indigenous	Bhimashankar-2	0.00	1979-80, 1985-86, 1987-88, 1988-89.	As per working plan prescriptions
	MAH/S/BHI		Yes		Bamboo (Bamboosa arundinacea)	Indigenous	Bhimashankar 1 & 2	0.02	1966-97 to 1968-69, 1988-89	For afforestation purpose
	MAH/S/BHI		Yes		Eucalyptus spp.	Exotic	Bhimashankar-1	0.06	1965-66, 1967-68, 1968-69	For afforestation purpose.
	MAH/S/BHI		Yes		Karanj (Pongamia pinnata), Hirda (Terminalia chebula), Moha (Madhuca longifolia), Pisa (Actinodaphne hookeri), Jambul (Eugenia jambolana), Cinnamomum zeycasica	Indigenous	Bhimashankar-1	0.07	1966-67, 1968-69, 1969-70, 1979-80, 1990-91	For afforestation purpose
141	MAH/S/BOR	YES	Yes	61.1						
142	MAH/S/CHAN		Yes	308.97	Ficus racemosa	Indigenous	Mandur wildlife range	9.10	1996-97	Compensatory afforestation.
	MAH/S/CHAN				Terminalia bellirica	Indigenous	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN				Anacardium occidentale	Exotic	Mandur wildlife range		1996-97	Compensatory afforestation.

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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	MAH/S/CHAN		Yes		Syzygium cumini	Indigenous	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN		Yes		Albizia odoratissima	Indigenous	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN		Yes		Bombax ceiba	Indigenous	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN		Yes		Eucalyptus hybrid	Exotic	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN		Yes		Acacia auriculiformis	Exotic	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN		Yes		Dalbergia sissoo	Exotic	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN		Yes		Emblia officinalis	Indigenous	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN		Yes		Erythrina stricta	Indigenous	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN				Ficus racemosa	Indigenous	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN				Terminalia belirica	Indigenous	Mandur wildlife range		1996-97	Compensatory afforestation.
	MAH/S/CHAN				Anacardium occidentale	Exotic	Mandur wildlife range		1996-97	Compensatory afforestation.
143	MAH/S/CHAP	NP	Yes	133.23	Teak(Sagwan)-Tectona grandis	Indigenous	Chaudampalli	10.60	1977	All plantations were done by the Forest Develepment Corporation Limited of Maharashtra in the area leased out to them.
	MAH/S/CHAP				Dendrocalamus strictus(Bamboo)	Indigenous	Chaudampalli	5.60	1984	All plantations were done by the Forest Develepment Corporation Limited of Maharashtra in the area leased out to them.
	MAH/S/CHAP				Prosopis juliflora(Prosopis)	Exotic	Chaudampalli	1.80	1989	All plantations were done by the Forest Develepment Corporation Limited of Maharashtra in the area leased out to them.
144	MAH/S/DEU		Yes	2.17	Santalum album (Sandal wood)	Indigenous	Rehekuri, Karjat, Shrigonda	2.17	1977-78	To enrich the barren area with tree growth under drought prone area programme.
	MAH/S/DEU		Yes		Neem (Azadirachta indica)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.
	MAH/S/DEU		Yes		Siris (Albizzia lebbeck)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.
	MAH/S/DEU		Yes		Ber (Zizyphus mauritiana)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.
	MAH/S/DEU		Yes		Sissoo (Dalbergia sissoo)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.
	MAH/S/DEU		Yes		Hardwickia binata (Arjuna)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.
	MAH/S/DEU		Yes		Acacia nilotica (Babul)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.

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	MAH/S/DEU			Yes		Acacia catechu (Khair)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.
	MAH/S/DEU			Yes		Acacia leucophloea (Hiwar)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.
	MAH/S/DEU					Santalum album (Sandal wood)	Indigenous	Rehekuri, Karjat, Shrigonda		1977-78	To enrich the barren area with tree growth under drought prone area programme.
145	MAH/S/GAU	NP		Yes	260	Bamboo	Indigenous	Kannad		Up to 1986	Afforestation for soil conservation & reforestation of degraded forest
	MAH/S/GAU					Mixed	Indigenous & Exotic			Upto 1986	Afforestation for soil conservation & reforestation of degraded forest
	MAH/S/GAU					Bamboo	Indigenous	Kannad		1987	Afforestation for soil conservation & reforestation of degraded forest
	MAH/S/GAU					Mixed	Indigenous & Exotic	Chalisgaon		1995	Afforestation for soil conservation & reforestation of degraded forest
146	MAH/S/GRE			Yes	8496.41	Neem (Azadirachta indica)	Indigenous				During afforestation program for degraded land
	MAH/S/GRE			Yes		Sissoo (Dalbergia sissoo)	Indigenous				During afforestation program for degraded land
	MAH/S/GRE			Yes		Anjan	Indigenous				During afforestation program for degraded land
147	MAH/S/GYA	NP		Yes	203.56	Bamboo	Indigenous	Compartment 291	0.35	1995	Various Plantation schemes
	MAH/S/GYA					Bamboo	Indigenous	Compartments 306 & 307	0.35	1995	Various plantation schemes
	MAH/S/GYA					Bamboo	Indigenous	Compartment 285	0.30	1995	Various plantation schemes
	MAH/S/GYA					Siris, Sagwan, Sisoo	Indigenous	Compartment 315	0.36	1995	Various plantation schemes
	MAH/S/GYA					Jambul, Siris	Indigenous	Compartments-278, 305 & 309	0.57	1995	Various Plantation schemes
	MAH/S/GYA					Bamboo	Indigenous	Compartments-306, 307, 292 & 228	0.88	1996	Various plantation schemes
	MAH/S/GYA					Bamboo	Indigenous	Compartments-261, 267, 302, 263, 314, 292 & 305	2.10	1997	Various plantation schemes
148	MAH/S/JAI	NP		No	341.05						
149	MAH/S/KAL	YES		Yes	361.71	Fruit Species:-Hirda, Beheda, Jamun, Mahua	Indigenous	Harishchandragad	0.80	1996	Fodder(0.65 sq. km.) & orchard development(0.15 sq. km.)
	MAH/S/KAL					Fruit Species:-Hirda, Beheda, Jamun, Mahua	Indigenous	Bhandardara			
150	MAH/S/KAR	YES		Yes	4.27	Teak (Tectona grandis)	Indigenous	Karnala	0.02	1966	Enrichment of the P.A.
151	MAH/S/KAT	NP		Yes	73.69	Siras, Khair, Sag, Subabul	Exotic	Akola	0.25	1994	Compensatory afforestation
152	MAH/S/MAL	NP			29.12						
153	MAH/S/MAY			Yes	5.15	Neem (Azadirachta indica)		Supe	0.50	1983-84	Soil and water conservation
	MAH/S/MAY			Yes		Babul		Supe	0.80	1988-89	Soil and water conservation
	MAH/S/MAY			Yes		Gliricidia		Supe	1.10	1989-90	Soil and water conservation
	MAH/S/MAY			Yes		Others			0.70	1990-91	Soil and water conservation
154	MAH/S/NAG	NO		Yes	152.81	Teak (Tectona grandis)	Indigenous	Nagzira	3.50	1955 onwards till 1967	
	MAH/S/NAG					Eucalyptus	Exotic	Nagzira	0.50	1965-66	

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Sno	PA code	the PA	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	MAH/S/NAG					Bamboo	Indigenous	Nagzira	0.50	1963-66	
	MAH/S/NAG					Pasture Development	Indigenous	Nagzira	0.90	1984-95	To strengthen the food availability for herbivores
155	MAH/S/NAI	NP	Yes		29.9	Mixed plantations	Indigenous & Exotic	Beed	12.00	1980 onwards	Under various schemes for afforestation purpose
	MAH/S/NAI					Mixed plantations	Indigenous & Exotic				
156	MAH/S/NAR	NP	Yes		12.35	Bamboo	Indigenous	Narnala	0.83	1964	
	MAH/S/NAR					Teak	Indigenous	Narnala			
157	MAH/S/PAI	NP	Yes		324.64	Teak, Bamboo & Khair	No	Sondabhi range & Kharbi range		1965-1993	(1)To fulfill the stock.(2)To supply the bamboo to local people.(3)Income generation for locals
158	MAH/S/RAD	NO	Yes		351.16	Mixed species			5.15	1975 to 1994	
	MAH/S/RAD					Bamboo			0.30	1990	
	MAH/S/RAD					Match wood			0.30	1991	
	MAH/S/RAD					Fruit trees			0.70	1992 to 1995	
159	MAH/S/SAG	NP	Yes		10.87	Hardwickia binnata(Anjan),Bahunia racemosa(Apta),Semecarpus anacardium(Biba),Tamarindus indica(Chinch),Cassia siaemia(Kashid),Dalbergia sissoo(Sissoo), Acacia catechu (khair)	Exotic	Whole sanctuary	6.00	1980-81	To bring barren area under green cover(2)To stop soil erosion and to conserve moisture.
	MAH/S/SAG					Acacia catechu(Khair)	Indigenous	Whole sanctuary	6.00	1980-81	(1)To bring barren area under green cover(2)To stop soil erosion and to conserve moisture.
160	MAH/S/TIP	NP	Yes		140.29	Teak, Bamboo,Mixed plantations,Fruit trees,Khair (Acacia catechu),Fodder species.	Indigenous	Two territorial ranges which were reserved forest prior to declaration to sanctuary	15.05	1965 to 1992	
161	MAH/S/WAN	NP	Yes		205.86	Bamboo	Indigenous	Wan and Somthana	9.23		
	MAH/S/WAN					Teak	Indigenous	Wan and Somthana	2.60		
	MAH/S/WAN					Khair + Simal	Indigenous	Wan and Somthana	2.00		
	MAH/S/WAN					Others			12.26		
162	MAH/S/YAW	YES	Yes		177.52			Compartment.Number:-54	0.07	1986-87	Fruit and fodder plantation
	MAH/S/YAW							Compartment Nounber-124	0.20	1987-88	Pasture Devp.
	MAH/S/YAW							Compartment Number-49	0.20	1987-88	Fruit and fodder plantations
	MAH/S/YAW							Compartment Number-54	0.70	1989-90	Medow Development.
	MAH/S/YAW							Compartment Numbers- 10, 117 & 124	0.05	1987-88	Medow Development.
	MAH/S/YAW							Comptartment Number-54	0.15	1989-90	Pasture Development.
	MAH/S/YAW							Compartment Number:-117	0.20	1989-90	Fruit & fodder plantation
	MAH/S/YAW							Compartment Numbers:-118 & 49	2.00	1989-90	Fruit s & fodder plantations
	MAH/S/YAW							Compartment Numbers- 53,57,61 & 124	0.17	1989-90	Plantation of crop
163	MAH/S/YED	NP	Yes		22.37	Mixed plantations	Indigenous & Exotic	Yedashi	10.00	1980 to 1995	For afforestation purposes.
	MAH/S/YED										
164	MAN/N/KEI	YES	Yes		40	Salix tetrasperma	Indigenous	Thangbrel Yangbi area	0.05	1998-99	Food & shelter for animals.
	MAN/N/KEI					Phragmites karka (Tou)	Indigenous	Thangbrel Yangbi area	0.05	1998-99	Food & shelter for animals.

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Sno	PA code	the PA	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
165	MAN/S/YAN			Yes	184.4	Emblica officinalis	Indigenous	Yangoupokpi Lokchao Wildlife Sanctuary	0.15	1999-2000	Food and shelter for wild animals
	MAN/S/YAN			Yes		Parkia roxburghii	Indigenous	Yangoupokpi Lokchao Wildlife Sanctuary	0.20	2000-2001	Food and shelter for wild animals
	MAN/S/YAN			Yes		Gmelina arborea	Indigenous	Yangoupokpi Lokchao Wildlife Sanctuary			
	MAN/S/YAN			Yes		Quercus spp.	Indigenous		0.15	1999-2000	Fuelwood and fodder.
	MAN/S/YAN			Yes		Tectona grandis			0.20	2000-01	Fuelwood and fodder
	MAN/S/YAN			Yes		Citrus spp.					
166	MEG/N/BAL	NP	No	No	220						
167	MEG/N/NOK	NP	No	No	47.48						
168	MEG/S/BAG	NP	No	No	0.03						
169	MEG/S/NON	YES	No	No	29						
170	MEG/S/SIJ	NO	No	No	5.18						
171	MIZ/N/MUR	NO	No	No	200						
172	MIZ/N/PHA	NO	Yes	Yes	50	Pine (Pynus kesya)	Indigenous	Phawngpui	0.23	1994	Habitat improvement in the Jhum affected area prior to declaration of Phawngpui National Park
173	MIZ/S/DAM		Yes	Yes	500	Gmelina arborea	Indigenous	Teirei & Phuldungsei	1.50	1993-94	To supplement food & to improve the habitat for animals
	MIZ/S/DAM					Gmelina arborea & Michelia champaca	Indigenous	Teirei & Phuldungsei	2.45	1994-95	To supplement food & to improve the habitat for animals
	MIZ/S/DAM					Gmelina arborea & Michelia champaca	Indigenous	Teirei	3.00	1995-96	To supplement food & to improve the habitat for animals
	MIZ/S/DAM					Artocarpus heterophylla	Indigenous	Teirei	0.45	1996-97	To supplement food & to improve the habitat for animals
	MIZ/S/DAM					Gmelina arborea & Syzygium cumini	Indigenous	Teirei & Phuldungsei	1.00	1998-99	To supplement food & to improve the habitat for animals
174	MIZ/S/KHA	NP	No	No	41						
175	MIZ/S/LEN	NP	No	No	120						
176	MIZ/S/NGE	NP	No	No	110						
177	MP/N/BAN	NO	No	No	1161.47						
178	MP/N/GHU	NP	No	No	0.27						
179	MP/N/PEN	NO	No	No	292.86	N.A.					
180	MP/N/SAT	NO	No	No	524.37						
181	MP/N/VAN	YES	Yes	Yes	4.45	Common species found in the area.	Indigenous	Van Vihar National Park.	0.45	1985-1997	To increase forest cover, check erosion, provide food and shade.
182	MP/S/BAD	NP	Yes	Yes	104.45	Teak (Tectona grandis)	Exotic	Game Range Bagicha	2.50	1960	To restock the area after coupe felling before notification of sanctuary.
	MP/S/BAD					Bamboo (Dendrocalamus strictus)	Indigenous	Game Range Bagicha	1.00	1960	For blank filling to increase density of forest under habitat improvement.
	MP/S/BAD					Fruit bearing plantation		Game Range Bagicha	0.05		
	MP/S/BAD					Mixed Rapidly growing plantation		Game Range Bagicha	0.50		
183	MP/S/BAG	NP	No	No	478						

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Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
184	MP/S/GAN	NP	Yes	368.62	Prosopis (Prosopis juliflora)	Exotic	Gandhisagar	11.80	1990-91	The plantation work was taken up by soil conservation division, Mandsaur. These activities were mainly taken up to improve habitat, for greenery of the area and for better environmental conditions. Aerial seed sowing was done in 1991-92 of Prosopis juliflora seeds.
	MP/S/GAN				Babul	Indigenous	Gandhi Sagar		1991-92	The plantation work was taken up by soil conservation division, Mandsaur. These activities were mainly taken up to improve habitat, for greenery of the area and for better environmental condition.
	MP/S/GAN				Khair	Indigenous	Gandhi Sagar		1991-92	The plantation work was taken up by soil conservation division, Mandsaur. These activities were mainly taken up to improve habitat, for greenery of the area and for better environmental condition.
	MP/S/GAN				Remzha	Indigenous	Gandhi Sagar		1992-93	The plantation work was taken up by soil conservation division, Mandsaur. These activities were mainly taken up to improve habitat, for greenery of the area and for better environmental condition.
	MP/S/GAN				Sirali	Indigenous	Gandhi Sagar		1992-93	The plantation work was taken up by soil conservation division, Mandsaur. These activities were mainly taken up to improve habitat, for greenery of the area and for better environmental condition.
	MP/S/GAN				Grass seeds	Indigenous	Gandhi Sagar	4.95	1995	The plantation work was taken up by soil conservation division, Mandsaur. These activities were mainly taken up to improve habitat, for greenery of the area and for better environmental condition.
185	MP/S/KAR	NP	Yes	202.21	Amla	Indigenous	Game range Karera.	0.20	1980-81	For gazing by wild animals.
	MP/S/KAR				Khair	Indigenous	Game range Karera.	0.50	1985-86	For gazing by wild animals.
	MP/S/KAR				Remzha	Indigenous	Game range Karera.			
	MP/S/KAR				Ber	Indigenous	Game range Karera.			
186	MP/S/KHE	NO	No	132.78	Ber	Indigenous	Kheoni range			
187	MP/S/KUN	NP	Yes	344.69	Khair (Acacia catechu)	Indigenous	Sesaipura	19.86	1991-97	Environment improvement, soil conservation, pasture development.
	MP/S/KUN				Dalbergia sissoo				1991-97	Environment improvement, soil conservation, pasture development.

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Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	MP/S/KUN				'Bombax ceiba				1991-97	Environment improvement, soil conservation, pasture development.
188	MP/S/NAR		Yes	57.2	Tectona grandis (Teak)	Indigenous	Narsingarh	1.00	1996	To cover encroached area and increase forest cover. The plantation is situated on the periphery of the PA, near Narsingarh township.
	MP/S/NAR				Azadirachta indica (Neem)	Indigenous	Narsingarh	1.00	1996	To cover encroached area and increase forest cover. The plantation is situated on the periphery of the PA, near Narsingarh township.
	MP/S/NAR				Emblia officinalis (Amla)	Indigenous	Narsingarh	1.00	1996	To cover encroached area and increase forest cover. The plantation is situated on the periphery of the PA, near Narsingarh township.
	MP/S/NAR				Dendrocalamus strictus (Bamboo)	Indigenous	Narsingarh	1.00	1996	To cover encroached area and increase forest cover. The plantation is situated on the periphery of the PA, near Narsingarh township.
	MP/S/NAR				Albizia lebbeck (Siris)	Indigenous	Narsingarh	1.00	1996	To cover encroached area and increase forest cover. The plantation is situated on the periphery of the PA, near Narsingarh township.
189	MP/S/NAT	NO	Yes	460	Information not available					
190	MP/S/NOR	NP	Yes	1186.96	Sisam (Dalbergia sisso)	Indigenous	Sarra	0.25	1997-98	Habitat management.
	MP/S/NOR				Teak (Tectona grandis)	Indigenous	Sarra	0.25	1997-98	Habitat management.
	MP/S/NOR				Bans (Bamboo arundinaria)	Indigenous	Sarra	0.25	1997-98	Habitat management.
	MP/S/NOR				Amla (Phyllanthus emblica)	Indigenous	Sarra	0.25	1998-99	Habitat management.
	MP/S/NOR				Neem (Azadirachta indica)	Indigenous	Sarra	0.25	1998-99	Habitat management.
	MP/S/NOR				Bel (Aegle marmelos)	Indigenous	Sarra	0.25	1998-99	Habitat management.
	MP/S/NOR				Siris (Albizia lebbeck)	Indigenous	Noradehi	0.25	1998-99	Habitat management.
	MP/S/NOR				Neem (Azadirachta indica)	Indigenous	Noradehi	0.25	1998-99	Habitat management.
	MP/S/NOR				Bel (Aegle marmelos)	Indigenous	Singpur	0.25	1998-99	Habitat management.
	MP/S/NOR				Bel (Aegle marmelos)	Indigenous	Singpur	0.25	1998-99	Habitat management.
191	MP/S/ORC		Yes	44.9	Teak (Tectona grandis)	No	Orchha	1.00	2001-02	R.D.F. Forest improvement
192	MP/S/PEN	YES	Yes	118	Teak (Tectona grandis)	Indigenous	Kurai			Replacing uneconomic species.
	MP/S/PEN				Bamboo (Dedrocalamus strictus)	Indigenous	Kurai			Underplanting in Teak plantations.
193	MP/S/RAL	NP	Yes	2.62	Miscellaneous species			0.15	1992-93	To cover the soil.
194	MP/S/SAI	YES	No	12.96						
195	MP/S/SAN	NP	Yes	364.59	Bamboo (Dedrocalamus strictus)	Indigenous	Dubari	0.50	1990-91	Economic plantation.
	MP/S/SAN				Teak (Tectona grandis)	Exotic	Dubari			
196	MP/S/SAR	NP	No	348.12						
197	MP/S/SON		No	209.21						
198	NAG/N/INT	YES	Yes	202.02						
199	NAG/S/FAK	NP	No	6.41						

TABLE 1.4: Plantations in PAs
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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
200	NAG/S/PUL	NP	Yes	9.23	Pinus pelule, Cryptomeria (Poma), Duabanga Sonerotiode (Khophon), Rhododendron, Bamboo, Vitex fagota			0.22	1982	
201	NAG/S/RAN	NP	No	4.7						
202	ORI/N+S/BHI		Yes	145	Rai (Rhizophora mucranata), Sundari (Heritiera fomes), Bandari (Bruguiera gymnorhiza), Sinduka (Kandelia candel), Garain (Ceriops decandra) and Avicennia alba	Indigenous	Kanika, Rajnagar and Chandbali	1.30	2000-2001	To cover up the blanks, to restore the degraded area and to avoid encroachment
203	ORI/S/BAD	NP	Yes	304.03	Teak(Tectona grandis)	Exotic	Badarma	3.12	1965-87	For restoration of persisting gaps in coppice working circle and Sal conversion circle.
	ORI/S/BAD				Semul(Bombax ceiba)	Indigenous	Badarma			For restoration of persisting gaps in coppice working circle and Sal conversion circle.
204	ORI/S/BAI	NO	Yes	168.35	Teak(Tectona grandis)	Exotic	Banigocha Range	0.13	1965	To replace the existing crop of low economic value in plains and moderate slopes by Teak.
205	ORI/S/BAL	NP	Yes	71.72	Jhaun (Casuarina equisetifolia)	Now indigenous. Introduced as exotic during initial stages to protect the sea coast from winds.	Balukhand Konark	71.72	1914	To create a wind breaker for the coast line in order to save agricultural land from sand.
	ORI/S/BAL				Different species of Eucalyptus genus	Exotic				
	ORI/S/BAL				Lanka amba (Anacardium occiderter)	Indigenous				
206	ORI/S/CHA	YES	Yes	193.39	Teak (Tectona grandis)	Indigenous	All four ranges		1952	To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Sal (Shorea robusta)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Sisqoe (Dalbergia sissoo)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Gambar (Gnelina arborea)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Kambhi (Caraya arborea)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Pia-sal (Pterocarpus marsupium)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.

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	ORI/S/CHA				Neem (Azadirachta indica)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Amla (Embelica officinalis)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Jamun (Syzygium cuminii)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Bahada (Terminalia bellerica)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Kasi (Bridelia retusa)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
	ORI/S/CHA				Champa (Michelia champaca)	Indigenous	All four ranges			To restock the degraded forest with valuable species. Plantation raised prior to declaration of sanctuary.
207	ORI/S/CHI	NP	Yes	15.53	Nalagrass (Phragmites karka)	Indigenous	Balugaon	1.24	1994	
208	ORI/S/DEB	NP	No	346.9						
209	ORI/S/HAD		Yes	191.6	Teak(Tectona grandis), Bamboo(Bambusa tulda), Gamar(Gmelina arborea), Sisham(Dalbergia sisoo)	Teak is exotic to PA	Boula Reserve Forest	0.18	Upto 1971 (Territorial)	Gap filling, restocking of degraded forest
	ORI/S/HAD				Teak(Tectona grandis), Bamboo(Bambosa tulda), Gamar(Gmelina arborea), Sisham(Dalbergia sisoo)		Boula Reserve Forest	0.04	1977(Territorial)	
	ORI/S/HAD				Teak(Tectona grandis), Bamboo(Bambosa tulda), Gamar(Gmelina arborea), Sisham(Dalbergia sisoo)		Boula Reserve Forest	0.60	1981(Afforestation)	
	ORI/S/HAD				Teak(Tectona grandis), Bamboo(Bambusa tulda), Gamar(Gmelina arborea), Sisham(Dalbergia sisoo)		Raighati (Boula Reserve Forest)	0.80	1989-90	Restocking of degraded forest under Jawahar Rojgar Yojana
	ORI/S/HAD				Teak(Tectona grandis), Bamboo(Bambusa tulda), Gamar(Gmelina arborea), Sisham(Dalbergia sisoo)		Boula Reserve Forest	0.13	1990-91	Economic plantation
	ORI/S/HAD				Teak(Tectona grandis), Bamboo(Bambusa tulda), Gamar(Gmelina arborea), Sisham(Dalbergia sisoo)		Kathakata (Inside Boula Reserve Forest)	0.25	1991-92	Economic plantation
	ORI/S/HAD				Teak(Tectona grandis), Bamboo(Bambusa tulda), Gamar(Gmelina arborea), Sisham(Dalbergia sisoo)		Boula Reserve Forest	0.05	1995-96	Silvipasture
	ORI/S/HAD				Teak(Tectona grandis), Bamboo(Bambusa tulda), Gamar(Gmelina arborea), Sisham(Dalbergia sisoo)		Pitanau (Boula Reserve Forest)	0.80	1995-96	Economic plantation

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Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
210	ORI/S/KAR		Yes	147.66	Teak (Tectona grandis)	Exotic	Bhawanipatna	0.25	1993	
	ORI/S/KAR		Yes		Dendrocalamus strictus, Pangamia pinatic, Emblica officinalis etc.	Indigenous	Bhawanipatna	0.25	1996	
211	ORI/S/KHA	NP	Yes	116	Teak(Tectona grandis)	Exotic	Girishchandrapur	0.07	1976-77	Restocking the area
	ORI/S/KHA				Teak(Tectona grandis)	Exotic	Girishchandrapur	0.08	1977-78	Restocking the area
						Indigenous			1980-1984, 1988-1990, 1992-1994, 1995-1998	Commercial plantation, prevention of shifting cultivation, afforestation(some plantations under Drought Prone Area Programme)
212	ORI/S/KOT	NP	Yes	399.5	Teak(Tectona grandis)		Kotagarh Range	4.78		
213	ORI/S/KUL		Yes	272.75	Teak (Tectona grandis)	Exotic	Nilgiri range	4.88	1987-88	Gap plantation
	ORI/S/KUL		Yes		Acacia	Exotic	Nilgiri range	0.20		
	ORI/S/KUL		Yes		Eucalyptus (Eucalyptus teritecornus)	Exotic	Nilgiri range			
	ORI/S/KUL		Yes		Sissoo (Dalbergia sissoo), Siris (Albazzia lebbeck), Asan (Terminalia alata), Gambar (Gmelina arborea), Arjuna (Terminalia arjuna), Simul (Salbarica malbarica), Tamavind (Tamarindus indica), Bamboo (Bambusa arundinacea)	Indigenous	Nilgiri range			
214	ORI/S/LAK	NP	Yes	174.96	Teak(Tectona grandis)	Indigenous	Chandragiri			Gap filling
215	ORI/S/SATN		Yes	795.52	Teak (Tectona grandis)	Exotic	Purunakote, Pampasar	27.06	1919-1976	Harvest after 70 years rotation.
	ORI/S/SATN		Yes		Phasi (Anogeissus accuminata)	Indigenous	Pampasar, Purunakote, under Jagamath Van Prakaipa-D.R.D.A.	1.40	2000-2001	For construction of Chariot of Lord Jagannath Puri to be harvested after attaining desirable girth.
216	ORI/S/SATS		Yes	268.94	Teak (Tectona grandis)	Exotic	At present under Chhamun dia wildlife range	0.24	1971 (10 ha.), 1958 (2 ha.), 1959 (12 ha.)	To replace the existing crop of low economic value in plains and moderate slopes by teak.
217	ORI/S/SIM		Yes	2200	Tropical pines (Pinus insularis)	Exotic	Upperbarakamara, Gurguria and Nawara			To experiment the status of sustainability of the species in the prevailing conditions of the Similipal forests.
	ORI/S/SIM		Yes		Eucalyptus (Eucalyptus citriodora)	Exotic	Upperbarakamara and Chahala			To experiment the status of sustainability of the species in the prevailing conditions of the Similipal forests.
218	ORI/S/SUN	NP	Yes	600	Teak(Tectona grandis)	Exotic	Komna Wildlife Range	1.86	1995-96	Compensatory afforestation. Plantation raised in lieu of Mahandi coal fields Ltd., Talcher (Angul Territorial Division)
219	PUN/S/ABO	NP	No	186.05						
220	PUN/S/AIS	NP	No	2.6	N.A.					
221	PUN/S/BHA	NP	No	8.2	N.A.					
222	PUN/S/BHU	NP	Yes	6.6	Mango, Jamun, Neem, Guava, Siris, Acacia	Indigenous	Bhunerheri	0.60	1998-99	Improvement of Habitat
223	PUN/S/DOS	NP	No	7.5	N.A.					
224	PUN/S/GUR	NP	Yes	6.1	Mango, Jamun, Neem, Guava, Kachnar, Acacia	Indigenous	Gurdial Pura	0.80	1998-99	Improvement of Habitat
225	PUN/S/HAR	NP	Yes	86	Mango, Jamun, Neem, Acacia, Shisham, Salix	Indigenous	Harike	0.70	Not known	Improvement of Habitat
226	PUN/S/MAH	NP	No	2.2						

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227	PUN/S/MOT	NP	No		5.24						
228	PUN/S/TAK	NP	No		3.86						
229	RAJ/N/DES	NO	Yes		3162	Israeli Babul (Acacia tortalis)	Exotic	Jaisalmu, Miyazlar, Barmer.	5.76	1993-94	Fuelwood, sand dune stabilisation.
	RAJ/N/DES					Rohida (Tecomella undulata)	Indigenous	Jaisalmu, Miyazlar, Barmer.	0.50	1993-94	Timber.
	RAJ/N/DES					Prosopis juliflora	Exotic	Jaisalmu, Miyazlar, Barmer.	0.30	1993-94	Fuelwood.
	RAJ/N/DES					Ziziphus numularia	Indigenous	Jaisalmu, Miyazlar, Barmer.	0.30	1993-94	Fodder.
230	RAJ/N/KEO		Yes		28.73	Babul (Acacia nilotica)	Indigenous	Keoladeo	0.03	1930	Heronry, bird nesting.
	RAJ/N/KEO		Yes			Mitragyna (Perviflora kadamb)	Indigenous	Keoladeo			
	RAJ/N/KEO		Yes			Datepalm (Phoenix sylvestrus)		Keoladeo		1940	
	RAJ/N/KEO		Yes			Lotus (Nymphaea spp.)		Keoladeo		1942	
	RAJ/N/KEO		Yes			Prosopis juliflora	Exotic	Keoladeo	1.00	1955	
231	RAJ/S/BAS		Yes		138.69	Bamboo (Dendrocalamus strictus)		Bassi			Restocking degraded forests, nistar needs of local villages.
	RAJ/S/BAS		Yes			Khair (Acacia catechu)		Bassi			Restocking degraded forests, nistar needs of local villages.
	RAJ/S/BAS		Yes			Albezia lubec		Bassi			Restocking degraded forests, nistar needs of local villages.
	RAJ/S/BAS		Yes			Amla (Embllica offiinalis)		Bassi			Restocking degraded forests, nistar needs of local villages.
	RAJ/S/BAS		Yes			Neem (Azadrictica indica)		Bassi			Restocking degraded forests, nistar needs of local villages.
	RAJ/S/BAS		Yes			Holoptelia intrirafolia		Bassi			Restocking degraded forests, nistar needs of local villages.
	RAJ/S/BAS		Yes			Albezia lubec					
232	RAJ/S/BHA		Yes		195.02	Khair, Babool, Amla, Siras, Amltas, Bans, Karanj	Indigenous	R.D.F. Chainpura	0.05	1995-96	Protection for forest and to save wildlife
	RAJ/S/BHA		Yes			Khair, Babool, Amla, Siras, Amltas, Bans, Karanj	Indigenous	R.D.F. Padajhar	0.06	1994-95	Protection for forest and to save wildlife
	RAJ/S/BHA		Yes			Khair, Babool, Amla, Siras, Amltas, Bans, Karanj	Indigenous	R.D.F. Devnarayan	0.04	1994-95	Protection for forest and to save wildlife
	RAJ/S/BHA		Yes			Khair, Babool, Amla, Siras, Amltas, Bans, Karanj	Indigenous	R.D.F. Kheda	0.05	1995-96	Protection for forest and to save wildlife
	RAJ/S/BHA		Yes			Khair, Babool, Amla, Siras, Amltas, Bans, Karanj	Indigenous	R.D.F. Nali	0.05	1995-96	Protection for forest and to save wildlife
	RAJ/S/BHA		Yes			Khair, Babool, Amla, Siras, Amltas, Bans, Karanj	Indigenous	R.D.F. Ratanpura 'A'	0.15	1994-95	Protection for forest and to save wildlife
	RAJ/S/BHA		Yes			Khair, Babool, Amla, Siras, Amltas, Bans, Karanj	Indigenous	R.D.F. Ratanpura 'B'	0.15	1994-95	Protection for forest and to save wildlife
	RAJ/S/BHA		Yes			Khair, Babool, Amla, Siras, Amltas, Bans, Karanj	Indigenous	R.D.F. Amba ka Kharla	0.10	1995-96	Protection for forest and to save wildlife
233	RAJ/S/JAI		Yes		52	Ber (Zizyphus maerilious)	Indigenous				
	RAJ/S/JAI					Khair (Acacia catechu)	Indigenous				
	RAJ/S/JAI					Kumat (Acacia Senegar)	Indigenous				
	RAJ/S/JAI					Babool (Acacia nilotica)	Indigenous	Jaisamand		1992	Habitat improvement and providing food and fodder

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Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
234	RAJ/S/JAM	YES	Yes	300	V. babool (Prosopis juliflora), Ardu Ailanthus excelsa, Shisham (Dalbergia sisoo), Ronj (Acacia leucophloea), Dhak (Butea monosperma), D.babool (Acacia nilotica), Churel (Holoptelia integrifolia), Kumtha (Acacia senegal), Black khair (Acacia catachu), Ardu (Ailanthus excelsa), Neem (Azadirachta indica), Ber (Zizyphus jojoba), Kumtha (Acacia senegal), I. babool (Acacia tortus).	Indigenous/Exotic.	Jamwa Ramgarh, Hawahodi, Vitualpura, Palikoliyana.	48.35	1988-1999	Rehabilitation of degraded forest and improvement of habitat.
235	RAJ/S/KELA		Yes	672	Prosopis juliflora	Exotic	All ranges	20.00	1984	Meeting fuelwood demand, reforesting barren areas.
	RAJ/S/KELA		Yes		Babool, Khair, Neem, Churail	Indigenous	All ranges	5.00	1996	Pasture development
236	RAJ/S/KUM		Yes	608.56	Ber, Desi babool, Khair	Indigenous	Sadri, Desuri	70.00	1974	Habitat restoration for wildlife
	RAJ/S/KUM		Yes		Bamboo, Amla, Siris	Indigenous	Kumbhalgarh, Bokhara	6.00	1998	Habitat restoration for wild animals.
237	RAJ/S/NAH		Yes	52.4	Kumatha (Acacia senegal)	Indigenous	Nahargarh	0.50	1990	Reforestation and rehabilitation of degraded forests to provide cover to wild fauna
	RAJ/S/NAH				Israeli babool (Acacia tortalis)	Exotic	Nahargarh	0.50	1994	Reforestation and rehabilitation of degraded forests to provide cover to wild fauna
	RAJ/S/NAH				Israeli babool (Acacia tortalis)	Exotic	Nahargarh	0.50	1995	Reforestation and rehabilitation of degraded forests to provide cover to wild fauna
	RAJ/S/NAH				Israeli babool (Acacia tortalis)	Exotic	Nahargarh	0.50	1996	Reforestation and rehabilitation of degraded forests to provide cover to wild fauna
238	RAJ/S/PHU		Yes	511.41	Bamboo (Dendrocalamus strictus)	Indigenous	Kotra, Panarwa, Mamer	3.50	1996	Improvement of habitat, providing fuel/fodder
	RAJ/S/PHU		Yes		Amla (Phyllanthus emblica)	Indigenous	Kotra, Panarwa, Mamer		1996	Improvement of habitat, providing fuel/fodder
	RAJ/S/PHU		Yes		Ber (Zizyphus mauritiana)	Indigenous	Kotra, Panarwa, Mamer		1996	Improvement of habitat, providing fuel/fodder
	RAJ/S/PHU		Yes		Mehua (Madhuca indica)	Indigenous	Kotra, Panarwa, Mamer		1996	Improvement of habitat, providing fuel/fodder
	RAJ/S/PHU		Yes		Aam (Magnifera indica)	Indigenous	Kotra, Panarwa, Mamer		1996	Improvement of habitat, providing fuel/fodder
	RAJ/S/PHU		Yes		Bahera (Terminalia bellerica)	Indigenous	Kotra, Panarwa, Mamer		1996	Improvement of habitat, providing fuel/fodder
	RAJ/S/PHU		Yes		Karanj (Pongamine pinnata)	Indigenous	Kotra, Panarwa, Mamer		1996	Improvement of habitat, providing fuel/fodder
239	RAJ/S/SAJJ		Yes	5.19		Indigenous	Sajjangarh	0.50	1998-99	
240	RAJ/S/SIT		Yes	422.94	Bamboo (Dendrocalamus strictus)	Indigenous	All ranges		1992	Eco restoration
	RAJ/S/SIT		Yes		Khair (Acacia catechu)	Indigenous	All ranges		1992	Eco restoration
	RAJ/S/SIT		Yes		Amla (Emblia officinalis)	Indigenous	All ranges		1992	Eco restoration
	RAJ/S/SIT		Yes		Neem (Azadirachta indica)	Indigenous	All ranges		1992	Eco restoration
241	RAJ/S/TAL	NO	No	7.19						
242	RAJ/S/TOD		Yes	495.27	Ber (Zizyphus mauritiana)	Indigenous	All ranges		1992	Improvement of habitat, providing food and fodder

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	RAJ/S/TOD		Yes		Khair (Acacia catechu)	Indigenous	All ranges		1992	Improvement of habitat, providing food and fodder
	RAJ/S/TOD		Yes		Kumat (Acacia senegal)	Indigenous	All ranges		1992	Improvement of habitat, providing food and fodder
	RAJ/S/TOD		Yes		Babul (Acacia nilotica)	Indigenous	All ranges		1992	Improvement of habitat, providing food and fodder
	RAJ/S/TOD		Yes		Neem (Azadirachta indica)	Indigenous	All ranges		1992	Improvement of habitat, providing food and fodder
243	RAJ/S/VAN		Yes	25.6	Jungle jalebi (Inga dulcice)	Indigenous	Van Vihar	3.50	1995 to 1999	Restocking of degraded forests.
	RAJ/S/VAN		Yes		Ronjh (Acacia leucophloea)	Indigenous	Van Vihar		1995 to 1999	Restocking of degraded forests.
	RAJ/S/VAN		Yes		Khair (Acacia catechu)	Indigenous	Van Vihar		1995 to 1999	Restocking of degraded forests.
	RAJ/S/VAN		Yes		Kumatha (Acacia senegal)	Indigenous	Van Vihar		1995 to 1999	Restocking of degraded forests.
	RAJ/S/VAN		Yes		Churel (Holoptelia integrifolia)	Indigenous	Van Vihar		1995 to 1999	Restocking of degraded forests.
	RAJ/S/VAN		Yes		Prosopis juliflora	Exotic	Van Vihar		1995 to 1999	Restocking of degraded forests.
	RAJ/S/VAN		Yes		Babool (Acacia nilotica)	Exotic	Van vihar		1995 to 1999	Restocking of degraded forests.
	RAJ/S/VAN		Yes		Dhok (Anogeisus pendula)	Indigenous	Van vihar		1995 to 1999	Restocking of degraded forests.
244	SIK/N/KHA	Yes	Yes	1784	Cedrela toona	Indigenous	Mangan	100.00	1999 onwards	Habitat improvement
	SIK/N/KHA				Premus	Indigenous	Mangan	200.00	1999 onwards	
	SIK/N/KHA				Evodia fraxenifolia	Indigenous	Mangan		1999 onwards	
245	SIK/S/BAR	NP	No	104						
246	SIK/S/FAM		No	51.76						
247	SIK/S/KYON	NP	Yes	31	Juniper	Indigenous	Kyongnosla			Forest conservation
248	SIK/S/MAE		No	35.34						
249	SIK/S/SHIN	NP	Yes	43	Larynx qrlitithi, Abies densa, Acer species, Betula species, Rhododendron	Indigenous	Planted wherever there are blanks and landslides			Habitat improvement, soil and water conservation, conservation of rare Rhododendron species
250	TN/N/GUI		Yes	2.82	Gap planting (Ficus jamun)	Indigenous	Guindy National Park		1998	To fill the gap (1500 dry evergreen species were planted)
251	TN/N/GUL	NP	No	6.23						
252	TN/N/IND	NP	Yes	958.57						
253	TN/N/MUD	NP	Yes	321	Teak	Indigenous	Nelakoltai, Kargudi Mudumalai			
	TN/N/MUD				Eucalyptus	Exotic	Masinagudi			
254	TN/N/MUK	NP	Yes	78.46	Wattle	Exotic		7.00	1970	Fuel
	TN/N/MUK				Pine	Exotic				
255	TN/S/CHI	NP	No	0.48						
256	TN/S/GRI	NP		477.83						
257	TN/S/KAN	NP	No	1.04						
258	TN/S/KARA	NP		4.53						
259	TN/S/KARI	NP		0.65						
260	TN/S/KOO	NP	No	1.2						
261	TN/S/MEL	NP		5.93						
262	TN/S/POIN	NO	No	25						
263	TN/S/PUL	NO	Yes	61.47	Risofoora	Indigenous		0.45	1996	To improve the eco-system
	TN/S/PUL				Avecennia	Indigenous				
264	TN/S/UDA	NP	Yes	0.44	Acacia Nilotica			0.26	1985-86	Nesting and roosting for birds

TABLE 1.4: Plantations in PAs
Note: All values of area in this table are in square kilometers

	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
265	TN/S/VAD	NP	Yes	1.28	Acacia Nilotica	Indigenous	T	0.54	1986-1988	Nesting and roosting for migratory birds
266	TN/S/VALL	NP	No	16.41						
267	TN/S/VED	NO	Yes	0.27	Barringtonia acutangula	Native	Sanctuary Range	0.10	Not known	For providing nesting grounds for birds
	TN/S/VED				Acacia nilotica	Native	Sanctuary Range	0.10	Not known	For providing nesting grounds for birds
	TN/S/VED				Terminalia arjuna	Native	Sanctuary Range		Not known	For providing nesting grounds for birds
268	TN/S/VELL	NP	Yes	0.77	Acacia Nilotica	Indigenous	Erode range	0.40	1983	Social Forestry for Fuel
269	TN/S/VET	NP	No	0.38						
270	TRI/S/GUM	NP	Yes	389.59	Teak (Tectona grandis)	Native	Tirthmukh	36.66	1981	Soil conservation, for ornamental and economic purposes
	TRI/S/GUM				Gamar (Gmelina arborea)	Native	Tirthmukh		1981	Soil conservation, for ornamental and economic purposes
	TRI/S/GUM				Ornamental species (Peltaphorum, Feruginum, Delonix spp.)	Exotic	Tirthmukh		1981	Soil conservation, for ornamental and economic purposes
	TRI/S/GUM				Albizia spp. & Rubber (Havea brasili)	Exotic	Tirthmukh		1981	Soil conservation, for ornamental and economic purposes
	TRI/S/GUM				Garjan (Dipterocarpus spp.)	Indigenous	Tirthmukh		1981	Soil conservation, for ornamental and economic purposes
271	TRI/S/TRI	NP		194.7						
272	UP/S/BAK			28.94						
273	UP/S/CHA		Yes	96	Asna (Terminalia tomentosa)	Indigenous	Chandra Prabha			1. Habitat improvement, 2. Soil conservation, 3. Fruit/food for birds, 4. Water conservation.
	UP/S/CHA		Yes		Dhau (Anogeissus latifolia)	Indigenous	Chandra Prabha			1. Habitat improvement, 2. Soil conservation, 3. Fruit/food for birds, 4. Water conservation.
	UP/S/CHA		Yes		Kahu (Terminalia arjuna)	Indigenous	Chandra Prabha			1. Habitat improvement, 2. Soil conservation, 3. Fruit/food for birds, 4. Water conservation.
	UP/S/CHA		Yes		Khair (Acacia catechu)	Indigenous	Chandra Prabha			1. Habitat improvement, 2. Soil conservation, 3. Fruit/food for birds, 4. Water conservation.
	UP/S/CHA		Yes		Jamun (Syzygium eumini)	Indigenous	Chandra Prabha			1. Habitat improvement, 2. Soil conservation, 3. Fruit/food for birds, 4. Water conservation.
274	UP/S/KAC		No	7						
275	UP/S/KAI		Yes	501	Bamboo (Dendrocalamus strictus)	Indigenous	Roberts ganj, Gurma, Ghorawal, Halia	127.70	1963	Commercial plantation (mono culture) for clear felling.
	UP/S/KAI		Yes		Mixed species: Amla, Chilbit, Khair, Mahua, Neem, Sagaun, Shisham, Sirus, Kanji, Babool, Imali, Casurina etc.	Indigenous as well as exotic	Roberts ganj, Gurma, Ghorawal, Halia		1962	Fuel and fodder, as well as to increase forest density.
	UP/S/KAI		Yes		Mixed species: Amla, Chilbit, Khair, Mahua, Neem, Sagaun, Shisham, Sirus, Kanji, Babool, Imali, Casurina etc.	Indigenous as well as exotic	Roberts ganj, Gurma, Ghorawal, Halia	14.58	1991-2000	Fuel and fodder, as well as to increase forest density.
276	UP/S/KAT		Yes	400.09	Dalbergia sissoo	Indigenous	Whole PA		Information not available	Information not available

TABLE 1.4: Plantations in PAs
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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	UP/S/KAT		Yes		Teak (<i>Tectona grandis</i>)	Exotic	Whole PA		Information not available	Information not available
	UP/S/KAT		Yes		Khair (<i>Acacia catechu</i>)	Indigenous	Whole PA		Information not available	Information not available
277	UP/S/LAK			80.24						
278	UP/S/MAH		No	5.42						
279	UP/S/NAT		Yes	635	<i>Dalbergia sissoo</i>	Indigenous	Bah	0.24	1998	Habitat improvement
	UP/S/NAT		Yes		<i>Acacia arabica</i>	Indigenous	Bah		1998	Habitat improvement
	UP/S/NAT		Yes		<i>Neem (Azadiracta indica)</i>	Indigenous	Bah		1998	Habitat improvement
	UP/S/NAT		Yes		Khair (<i>Acacia catechu</i>)	Indigenous	Bah		1998	Habitat improvement
	UP/S/NAT		Yes		<i>Prosopis sinraria</i>	Indigenous	Bah		1998	Habitat improvement
280	UP/S/NAW			2.246						
281	UP/S/OKH		No	4						
282	UP/S/PAR		No	10.84						
283	UP/S/PAT		No	1.05						
284	UP/S/RAN		No	220.41						
285	UP/S/SAMN		Yes	5.26	<i>Prosopis juliflora</i>	Exotic	Saman Bird Sanctuary	1.00	1994-95	Habitat improvement.
286	UP/S/SAMS		No	7.99						
287	UP/S/SAN			2.25						
288	UP/S/SOH		Yes	428.2	Shisham (<i>Dalbergia sissoo</i>)	Indigenous	All the ranges.			
	UP/S/SOH		Yes		Teak (<i>Tectona grandis</i>)	Exotic	All the ranges			
	UP/S/SOH		Yes		Jammun (<i>Syzygium cumini</i>)	Indigenous	All the ranges			
	UP/S/SOH		Yes		Khair (<i>Acacia catechu</i>)	Indigenous	All the ranges			
	UP/S/SOH		Yes		Arjun (<i>Terminalia arjuna</i>)	Indigenous	All the ranges			
289	UP/S/SUH		Yes	452.47	Shisham, fruit bearing trees	Indigenous	Tulsiapur	8.43	1990	Habitat improvement for wildlife.
	UP/S/SUH		Yes		Shisham and other trees	Indigenous	Barahawa	9.67	1990	Habitat improvement for wildlife.
	UP/S/SUH		Yes		Shisham and other trees	Indigenous	Banakatawa	12.64	1990	Habitat improvement for wildlife.
	UP/S/SUH		Yes		Teak and jamum	Indigenous	East Suhelwa	11.07	1990	Habitat improvement for wildlife.
	UP/S/SUH		Yes		Shisham, teak, other species	Indigenous	West Suhelwa	8.54	1990	Habitat improvement for wildlife.
290	UP/S/SURA		No	34.33						
291	UP/S/SURS		No	7.13						
292	UP/S/VIJ			2.62						
293	UTT/N/COR	YES	Yes	520.82	<i>Arundo donax</i> (Narkul)	Indigenous	Dhikala	0.05	1985	Habitat improvement for tiger and elephant.
	UTT/N/COR				<i>Arundo donax</i> (Narkul)	Indigenous	Dhikala	0.05	1986	Habitat improvement for tiger and elephant.
	UTT/N/COR				<i>Bombax arundenacea</i> (Bamboo)	Indigenous	Dhikala	0.01	1987	Habitat improvement for tiger and elephant.
	UTT/N/COR				<i>Arundo donax</i> (Narkul)	Indigenous	Sarpduli	0.03	1988	Habitat improvement for tiger and elephant.
	UTT/N/COR				Anjana grass	Indigenous	Bijrani	0.10	1996	Habitat improvement for deer species.
	UTT/N/COR				Anjana grass	Indigenous	Jhirna	0.10	1996	Habitat improvement for deer species.
294	UTT/N/GAN		Yes	2390.02	Deodar, Poplar, Blue pine (Kail), <i>Prunus cerasoides</i>	Indigenous	Gangotri	0.40	1983-84	Aforestation
295	UTT/N+S/GOV	Yes	Yes	957.97	Rubinia	Exotic	All ranges		Not known	Ornamental
	UTT/N+S/GOV	Yes			Silver oak	Exotic	Rupin, Supin		Not known	Ornamental

TABLE 1.4: Plantations in PAs
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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	UTT/N+S/GOV	Yes			Kharsu	Indigineous	All ranges		Not known	For fodder
	UTT/N+S/GOV		Yes		Chir pine	Indigenous	Rupin, Supin		Not Known	Commercial
	UTT/N+S/GOV		Yes		Deodar	Indigenous	All ranges		Not Known	Commercial
	UTT/N+S/GOV		Yes		Walnut	Indigenous	All range		Not Known	For fodder
	UTT/N+S/GOV		Yes		Aesculus indica	Indigenous	All ranges		Not Known	For fodder
	UTT/N+S/GOV		Yes		Banj	Indigenous	All ranges		Not Known	For fodder
	UTT/N+S/GOV		Yes		Mohru	Indigenous	All ranges		Not Known	For fodder
	UTT/N+S/GOV		Yes		Toona serrata	Indigenous	All ranges		Not known	For fodder
	UTT/N+S/GOV		Yes		Chimonobamboosa falcata	Indigenous	Rupin, Supin		Not known	For peoples needs
	UTT/N+S/GOV		Yes		Rubinia	Exotic	All ranges		Not known	Ornamental
	UTT/N+S/GOV		Yes		Silver oak	Exotic	Rupin, Supin		Not known	Ornamental
	UTT/N+S/GOV		Yes		Kharsu	Indigineous	All ranges		Not known	For fodder
296	UTT/S/ASK	Yes	Yes	599.93	Padam (Prunus cornuta)	Indigenous	Askote (20 ha.), Dharchula (25 ha.)	0.45	1994	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK	Yes			Panger (Aesculus indica)	Indigenous	Askote (40 ha.), Dharchula (10 ha.)	0.50	1995	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK	Yes			Angu (Frarinus micrantha)	Indigenous	Askote (50 ha.), Dharchula (30 ha.)	0.80	1996	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK	Yes			Padam (Prunus cornuta)	Indigenous	Askote	0.32	1997	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK	Yes			Padam (Prunus cornuta)	Indigenous	Askote	0.54	1998	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK	Yes			Padam (Prunus cornuta)	Indigenous	Askote (80 ha.), Dharchula (20 ha.)	1.07	1999	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Chir (Pinus roxburghii)	Indigenous	Askote	0.25	1996	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Deodar (Cedrus deodara)	Indigenous	Askote (10 ha.), Dharchula (10 ha.)	0.20	1997	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Banj (Quercus spp.)	Indigenous	Askote (70 ha.), Dharchula (60 ha.)	1.30	1998	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Wall nut (Juglance regia)	Indigenous	Askote (40 ha.), Dharchula (25 ha.)	0.65	1989	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Utis (Alnus napolnous)	Indigenous	Askote (20 ha.), Dharchula (47 ha.)	0.67	1990	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Chura (Deplokima bunyacea)	Indigenous	Askote (60 ha.), Dharchula (35 ha.)	0.95	1991	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Jamun (Syzygum cummini)	Indigenous	Askote (80 ha.), Dharchula (5 ha.)	0.85	1992	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Tun (Toona ciliata)	Indigenous	Askote (80 ha.), Dharchula (40 ha.)	1.20	1993	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Padam (Prunus cornuta)	Indigenous	Askote (20 ha.), Dharchula (25 ha.)	0.45	1994	Filling blank spaces, fuel, fodder, improving degraded forests.
	UTT/S/ASK		Yes		Panger (Aesculus indica)	Indigenous	Askote (40 ha.), Dharchula (10 ha.)	0.50	1995	Filling blank spaces, fuel, fodder, improving degraded forests.

TABLE 1.4: Plantations in PAs
Note: All values of area in this table are in square kilometers

	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
	UTT/S/ASK		Yes		Angu (<i>Frarinus micrantha</i>)	Indigenous	Askote (50 ha.), Dharchula (30 ha.)	0.80	1996	Filling blank spaces, fuel, fodder, improving degraded forests.
297	UTT/S/BIN	NP	Yes	47.07	Oak	Indigenous	Binsar	0.20	1992	Habitat improvement, food for wild animals, beautification.
	UTT/S/BIN				Acacia	Exotic	Binsar	0.20	1992	Habitat improvement, food for wild animals, beautification.
	UTT/S/BIN				Deodar	Exotic	Binsar	0.20	1992	Habitat improvement, food for wild animals, beautification.
	UTT/S/BIN				Surai (<i>Cupeaesis perclusa</i>)	Exotic	Binsar		1992	Habitat improvement, food for wild animals, beautification.
	UTT/S/BIN				Akhrot	Exotic	Binsar		1992	For animals as food.
298	UTT/S/BINO		No	3.39						
299	UTT/S/KED			975.2						
300	UTT/S/SON	Yes	Yes	301.1	Silver Oak					
	UTT/S/SON		Yes		Teak	Exotic	Sonanadi (Pakhrau 8, Dhaulkhand 6)		1955-58	
	UTT/S/SON		Yes		Kalthsagon	Exotic	Sonanadi (Pakhrau 8, Dhaulkhand 6)		1955-58	
	UTT/S/SON		Yes		<i>Ailanthus excelsa</i>	Exotic	Sonanadi (Pakhrau 8, Dhaulkhand 6)		1995-58	
	UTT/S/SON		Yes		<i>Eucalyptus hybrid</i>	Exotic	Sonanadi (Dhaultkhand 6, 14; Kalushahid 4,14)			
	UTT/S/SON		Yes		Sheesham		Sonanadi (Dhaultkhand 6, 14; Kalushahid 4,14)		1955-58	
	UTT/S/SON		Yes		Khair		Sonanadi (Dhaultkhand 6, 14; Kalushahid 4,14)		After 1958	
	UTT/S/SON		Yes		Semal		Sonanadi (Dhaultkhand 6, 14; Kalushahid 4,14)		After 1958	
	UTT/S/SON		Yes		Bamboo		Palain (Kugadda 8, Bijoragarh 4)		1996	
	UTT/S/SON		Yes		Silver Oak					
301	WB/N/GOR	NP	Yes	79.45	Teak (<i>Tectona grandis</i>)/Miscellaneous species.	Indigenous/Exotic	Garumara North and South	0.18	1947	To supply Timber.
	WB/N/GOR				Dhadda (<i>Saccharum</i> species), Purundi (<i>Alpinia nigra</i> , <i>Alpinia malaeensis</i>), Chepti (<i>Saccharum spontaneum</i>), Malsa (<i>Saccharum narenga</i>), Bamboo (<i>Bambusa</i> species)	Indigenous	Garumara North and South		1947	To provide fodder for Rhinoceros and other herbivores.
302	WB/N/NEO		Yes	88	Miscellaneous plantation with species like Malagiri, Panisaj, Chilanni, Lampata, Sal etc.	Indigenous	Lower Neora range	2.54	1961	Timber production
	WB/N/NEO		Yes		Dhupi, Pine etc.	Exotic	Upper Neora	0.45	1965	Timber production
	WB/N/NEO		Yes		Miscellaneous with <i>Rhododendron</i> species	Indigenous	Uppar Neora, Racilla chalk	0.10	1996-1997	To cover up the blank area.
303	WB/N/SUN	NO		2585						

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	the PA		03							
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
304	WB/S/BAL	YES	Yes	2.02	Shorea robusta(Sal)	Indigenous	Eastern Part	0.80	1954 and 1955	Afforestation of degraded land
	WB/S/BAL				Acacia auriculiformis	Exotic	Eastern part	0.82	1975-76	Afforestation of degraded land
	WB/S/BAL				Dalbergia sisoo(Sisoo)	Indigenous	Scattered all over		1954-55	Enrichment plantation
	WB/S/BAL				Anacardium occidentale(Cashew)	Indigenous	North eastern part		1975-76	Enrichment plantation
	WB/S/BAL				Terminalia bellerica(Bahera)	Indigenous	North eastern part		1980	Enrichment plantation
	WB/S/BAL				Terminalia chebula(Hartaki)	Indigenous	North eastern part		1980	Enrichment plantation
	WB/S/BAL				Azadirachta indica(Neem)	Indigenous	North eastern part		1981	Enrichment plantation
	WB/S/BAL				Pterocarpus marsupium(Pea sal)	Indigenous	North eastern part		1976	Enrichment plantation
305	WB/S/BET	NP	Yes	0.67	Teak (Tectona grandis), Arjun (Terminalia arjuna), Sissoo (Dalbergia sissoo), Siris (Albizia species), Jarul (Lagerstroemia flos-reginae), Minjri (Cassia siamensis), Jam (Eugenia species), Subabul (Leucaena leucocephala), Amlaki (Embulia officinalis), Pitali (Trewia nudiflora), Hijul (Barringtonia acutangula)	All Indigenous except Teak, Subabul, Minjiri	Block-Bettudahari Comptt. No.-1 Krishnapar Range	0.67	1951 to 1952	To have full stock of forests covers in the degraded vested land.
306	WB/S/BIB	NP	Yes	0.64	Aswatha (Ficus religiosa), Bat (Ficus bengalensis), Arjun(Terminalia arjuna), Raintree (Samaria saman), Sissoo (Dalbergia sissoo), Sirish (Albizia species), Asan (Terminalia tomentosa), Simul (Bombax ceiba), Minijiri (Cassia siamea), Akashmoni (Acacia auriculiformis), Khair (Acacia catechu), Hijal (Barringtonia acutangula)	Indigenous	Bongaon Social Forest Range	0.64	1956	To increase forest and to preserve and protect local flora.
307	WB/S/CHA		Yes	9.49	Sal (Shorea robusta)- indigenous, Teak (Tectona grandis)-exotic		Chapramari Beat	1.60	1925 (sal), 1976 (teak)	Timber production
	WB/S/CHA		Yes		Fodder grasses like Daddha (Sacharus spp.), Purundi (Alpina nisea), Chepti (S. Spontaneum), Malse (S. harenga), Bamboo, Teak (Tectona grandis)-exotic	Indigenous	Chapramari Beat	0.66	1995 to 2001	To provide fodder for wild herbivores.
308	WB/S/HAL	NP	Yes	5.95	Jhow (Casurina equisetifolia), Parash pipal (Thespesia populnea)					To protect the flora and fauna of the P.A. against the damage caused due to tidal waves in the southern part of the sanctuary. Artificial plantation is being created to counter the effect of natural calamities which is responsible for soil erosion as well as destruction of existing crops in the P.A.

TABLE 1.4: Plantations in PAs
Note: All values of area in this table are in square kilometers

	the PA			03						
Sno	PA code	Old data 1984-89	New Data 1989-03	Area of the PA	Species Planted	Exotic/ Indigenous	Ranges	Plantation Area	Year of Planting	Purpose of Planting
309	WB/S/LOT	NO	Yes	38	Jhow (Casurina equisetifolia), Parash pipal (Thespesia populnea)					To protect the flora and fauna of the P.A. against the damage caused due to tidal waves in the southern part of the sanctuary. Artificial plantation is being created to counter the effect of natural calamities which is responsible for soil erosion as well as destruction of existing crops in the P.A
310	WB/S/RAI	NP	Yes	1.3	Hijal(Barringtonia acutangula)	Indigenous	Wildlife Range	1.30	1952	To bring blank area under tree cover.
	WB/S/RAI				Jarul(Lagerstroemia speciosa)	Exotic	Wildlife Range			
	WB/S/RAI				Jam (Syzygium cuminii)	Indigenous	Wildlife Range			
	WB/S/RAI				Dumur (Ficus hispida)	Indigenous	Wildlife Range			
	WB/S/RAI				Sissou(Dalbergia sissoo)	Indigenous	Wildlife Range			
	WB/S/RAI				Arjun(Terminalia arjuna)	Indigenous	Wildlife Range			
	WB/S/RAI				Kadam(Anthocephalus cadamba)	Indigenous	Wildlife Range			
	WB/S/RAI				Pitali(Trewia nudiflora)	Indigenous	Wildlife Range			
	WB/S/RAI				Kanju(Anogeissus acuminata)	Indigenous	Wildlife Range			
	WB/S/RAI				Gokul(Ailanthus grandis)	Exotic	Wildlife Range			
311	WB/S/RAM	NO	No	0.14						
312	WB/S/SEN	NP	Yes	38.88	Dulpi	Exotic	Senchal East Range & Senchal West Range	1.00	1994 to 1999	To increase forest cover.
	WB/S/SEN				Pipli	Indigenous	Senchal East Range & Senchal West Range		1994 to 1999	To increase forest cover.
	WB/S/SEN				Capari	Indigenous	Senchal East Range & Senchal West Range		1994 to 1999	To increase forest cover.
	WB/S/SEN				Cactus	Indigenous	Senchal East Range & Senchal West Range		1994 to 1999	To increase forest cover.
TOTALS FOR ALL				100907.746				2864.265		

Table 1.5: Corridors Connecting PAs to Each Other

Table 1.5: Corridors Connecting PAs to Each Other

		Is the PA connected to another PA through a natural corridor?	New Data 1989-03			
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
1	A&N/N/SAD	NO				
2	A&N/S/CUT	NP*	No			
3	A&N/S/INT	NO	No			
4	A&N/S/NAR	No				
5	A&N/S/NOR	No				
6	AP/N/KAS	NP	No			
7	AP/N/MAH	NP	No			
8	AP/N/MRU	NP	No			
9	AP/N/VEN	NP	No			
10	AP/S/COR	NO	No			
11	AP/S/ETU	YES	Yes	Eturnagaram - Pakhal Wildlife Sanctuary	Forest (R.F) Speckled With 6 Revenue villages	12.50 kms
12	AP/S/GUN	NP	Yes	Nagarjuna Sagar Srisailem Tiger Reserve	Forest	13 kms
13	AP/S/KAW	NO	No			
14	AP/S/KOL	NO	No			
15	AP/S/KOU	NP	No			
16	AP/S/KRI	NP	No			
17	AP/S/MAN	NO	No			
18	AP/S/NEL	NO	No			
19	AP/S/PAK	YES	Yes	Pakhal Wildlife Sanctuary - Eturnagaram Wildlife Sanctuary	Forest area (RF) Mixed with Revenue villages.	12.5 kms
20	AP/S/PAP	NO	No			
21	AP/S/POC	NO	No			
22	AP/S/PRA	NO	Yes			
23	AP/S/PUL	NO	No			
24	AP/S/SIW	NO	No			
25	ARU/N/MOU	NP	No			

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Table 1.5: Corridors Connecting PAs to Each Other

		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
26	ARU/N/NAM	NO	Yes	Kamlang Wildlife Sanctuary	Forest	56
27	ARU/S/DER	NO	No			
28	ARU/S/KAM	NP	No			
29	ARU/S/MEH	NO	No			
30	ARU/S/YOR	NP	No			
31	ASS/N/DIB	NP	Yes	Dambuhs-Paglam ghat area of Arunachal	River, Forest, Islands	7-10
32	ASS/N/KAZ	NP	Yes	Panbori Reserve Forest, Karbi Anglong Forest	Wetland and grassland	6 km (approx)
33	ASS/N/MAN	NP	Yes	Royal Manas National Park (Bhutan)	Forest and River	
34	ASS/N/NAME	Yes		Pakhui Wildlife Sanctuary (Arunachal Pradesh)	Forest	52 km.
35	ASS/N/ORA	NP	Yes	Burachapori (1997-5 Rhinos reported to move between the PAs) Laokhowa (Rhinos)		10 km
36	ASS/S/BAR	NP	Yes	Khalingdwar Wildlife Sanctuary (Bhutan): Reserve Forest and newly proposed, reserve forest 5 km from Bornadi revenue land is corridor elephants across between their forest area.		
37	ASS/S/BUR	Yes		Laokhowa Wildlife Sanctuary	Forest	2 km.
38	ASS/S/DIP	NP	No			
39	ASS/S/EKAR	No				
40	ASS/S/GAR	Yes		Nambor Wildlife Sanctuary	Forest	Adjoining
41	ASS/S/GIB	NP	No			
42	ASS/S/KAR	Yes		Kaziranga National Park	Forest	1 km. (the 2 PAs are adjacent to each other)
43	ASS/S/LAO	NP	Yes	Rajiv Gandhi National Par, Orang	Wetlands	40 km

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Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
44	ASS/S/NAMB	Yes		Garampani Wildlife Sanctuary	Forest	5 km.
45	ASS/S/PAN	NP	No			
46	ASS/S/POB	NP	No			
47	ASS/S/SON	NO	Yes	Nameri Tiger Reserve	Reserve Forests (encroached) Partly	15 km
48	BIH/S/RAJ	NO	No	NA	NA	NA
49	CHD/S/SUK	NO	Yes	The adjoining area falls in Haryana and Punjab	Forest	
50	CHT/N/IND	YES	No			
51	CHT/N/KAN	YES	No			
52	CHT/S/ACH	NO	No			
53	CHT/S/BAR	NO	Yes	Lawan Range, Deopur, Kasdol and Sonakhan	Forest	20km
54	CHT/S/BHA	YES	No			
55	CHT/S/GOM	No				
56	CHT/S/PAM	NO	No			
57	CHT/S/SIT	NO	Yes	Udanti Sanctuary	Forest	35km
58	CHT/S/TAM	NO	Yes	Sanjay National Park	Natural forest along with River Rend	3.5km
59	CHT/S/UDA	NO	No			
60	DEL/S/ASO	NP	No	NA	N.A.	N.A.
61	GOA/S/BON	Yes		Mollem National Park	Forest	3 km.
62	GOA/S/CHO	NP	No	NA	N.A.	N.A.
63	GUJ/N/BAN	NO	No			
64	GUJ/S/PUR	NP	Yes	Dhamandevi forest	Forest	
65	GUJ/S/RAT	No				
66	GUJ/S/WIL	NP	Yes	Great Rann of Kutch wildlife sancturay	government wasteland in the northern portion of the PA	

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Table 1.5: Corridors Connecting PAs to Each Other

		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
67	HAR/N/SUL	NO	No			
68	HAR/S/ABU	NP	No			
69	HAR/S/BHIN	NP	No			
70	HAR/S/BIRB	NP	No			
71	HAR/S/BIRS	NO	No			
72	HAR/S/CHIL	NP	No			
73	HAR/S/KAL	NO				
74	HAR/S/KHA	NP	No			
75	HAR/S/NAH	NP	No			
76	HAR/S/SAR	NP	No			
77	HP/N/GRE	NO				
78	HP/S/DAR	NO	Yes	Sangla Sanctuary	Pastures and glaciers	40-50km
79	HP/S/DHA	NP	Yes	Manali, Kugti, Tundah and Nargu sanctuaries	Forests and Grasslands	
80	HP/S/GAM	NO	No			
81	HP/S/KAI	No				
82	HP/S/KAL	NO	No			
83	HP/S/KAN	Yes		Great Himalayan National Park	Forest and glaciers	8 km.
84	HP/S/KHO	No				
85	HP/S/KUG	NO	Yes	Tundah & Dhauladhar Sanctuaries	Forest	5 to 7 kms for Tundah, and adjoining Dhauladhar Sanctuary
86	HP/S/LIP	NO	Yes	Pin Valley National Park and Rupin Bhaba Sanctuary	Glaciers and Pastures	Approx. 20-30 kms
87	HP/S/MAN	No				
88	HP/S/NAR	YES	No			
89	HP/S/PON	NO	No			

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Table 1.5: Corridors Connecting PAs to Each Other

		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
90	HP/S/RUP	NO	Yes	Pin Valley and Great Himalayan national parks, and Lippa Asrang Sanctuary	Glaciers and Alpine Pastures	GHNP and Pin Valley national parks are adjoining the PA. Lippa Asrang Sanctuary is 50 km away
91	HP/S/SAN	NP	Yes	Daranghati Sanctuary and with Govind Pashu Vihar in Uttaranchal	Alpine pastures, glaciers and forests	Contiguous with GPV and 40-50 km corridor to Daranghati Sanctuary
92	HP/S/SHI	NO	Yes			
93	HP/S/TUN	NO	Yes	Kugti sanctuary	Forest	5-7 kms
94	J&K/N/HEM	Yes		Gya-Miru sanctuary		5 km.
95	J&K/N/KIS	NO	No	NA	NA	NA
96	J&K/S/CHA	Yes		Karakoram Wildlife Sanctuary	Both PAs are adjacent to each other.	50 km.
97	J&K/S/KAR	Yes		Changthang Wildlife Sanctuary		20 km.
98	J&K/S/OVE	YES	Yes	Dachigam national park	Forest	
99	JHA/N/RAJ	NP	No			
100	JHA/S/HAZ	YES	Yes	Lawalong and Koderma sanctuaries	Forests, Wastelands and Cultivated lands	
101	JHA/S/PAR	NP	Yes	Topchanchi Wildlife Sanctuary		
102	JHA/S/UDH	NP	No			
103	KAR/N/ANS	NP	Yes	Dandeli Wildlife Sanctuary	Forest	
104	KAR/N/BAND	YES	Yes	Madumalai Wildlife Sanctuary, Wynad Sanctuary	Moist Deciduous Forest	150 kms
105	KAR/N/BANN	Yes		Cauvery Wildlife Sanctuary and Tally Reserve Forest (Tamil Nadu)	Forest	10 km.

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Table 1.5: Corridors Connecting PAs to Each Other

		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
106	KAR/N/KUD	NP	No		Forest	
107	KAR/N/NAG	NP	Yes	Wynad Wildlife Sanctuary	Forest	3
108	KAR/S/ADI	NO	No			
109	KAR/S/ARA	NP	No			
110	KAR/S/ATT			The PA is in an enclosure in the reserve forest.	Moist Deciduous Forest	
111	KAR/S/BHA	NO	No			
112	KAR/S/BIL	Yes		Satyamangalam Nilgiri Bandipura, Nagarahole etc.	Forest	km each of 2 to 3 km.
113	KAR/S/BRA	YES	Yes	Kerti State Forest/Nagarahole National Park/Wynad Sanctuary	Forest	Adjacent
114	KAR/S/DAN	YES	Yes	Anashi National Park	Forest	
115	KAR/S/DOR	NP	No			
116	KAR/S/GHA	NO	No			
117	KAR/S/GUD	NP	Yes	Gudavi Bird Sanctuary	Forest	52 km
118	KAR/S/KAV	NP	No			
119	KAR/S/MEL	NO	No			
120	KAR/S/MOO	YES	Yes	Someshwara and Sharavathi Valley Wildlife Sanctuary	Forest	20 kms and 10 kms
121	KAR/S/NUG	NO	No			
122	KAR/S/PUS	NP	No			
123	KAR/S/RANE	NP	No			
124	KAR/S/RANG	NO	No			
125	KAR/S/SHA	YES	Yes	Mukambica Wildlife Sanctuary	Forest	25 Kms
126	KAR/S/SHE	NO	Yes	Bhadra Wildlife Sanctuary	Forest	30 km
127	KAR/S/SOM	YES	No			
128	KAR/S/TAL	NP	Yes	Pushpagiri Wildlife Sanctuary (Adjoining)	Forest	About 25 km
129	KER/N/ERA	YES	Yes	Chinnar and Anamalai sanctuaries	Forests and grasslands	

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Table 1.5: Corridors Connecting PAs to Each Other

		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
130	KER/S/ARA	Yes		Brahmagiri Sanctuary of Karnataka, Wayanad Wildlife Sanctuary of Kerala	Forest	20 km.
131	KER/S/CHIN	YES	Yes	Eravikulam national park and Indira Gandhi wildlife sanctuary	Forest	20kms
132	KER/S/WAY	YES	Yes	Nagarahole, Bandipur and Mudumalai	Forest	Contiguous
133	MAH/N/AND	NP	Yes	Chapralla	Forest	20 to 30 km.
134	MAH/N/NAV	NO	No			
135	MAH/N/PEN	YES	Yes	Pench Tiger Reserve(Madhya Pradesh)	Both forest & wetland	
136	MAH/N/SAN	NO	Yes	Thana-Div. Forest	Reserve Forest,Protected Forest,Unclassified	
137	MAH/S/AMB	NP				
138	MAH/S/ANE	NP	Yes	Adjoining range forest(Territorial division)	Forest	?
139	MAH/S/BHA	NP	No			
140	MAH/S/BHI	No				
141	MAH/S/BOR	NO	Yes	It connects with adjoining forests		
142	MAH/S/CHAN	No				
143	MAH/S/CHAP	NP	No			
144	MAH/S/DEU	Yes		Black buck sanctuary is a sanctuary within the Great Indian Bustard sanctuary	Forest (Sanctuary within sanctuary)	Whole area falls within GIB sanctuary area
145	MAH/S/GAU	NP	Yes	Territorial forest of Buldhana division	Dry deciduous thorny forest.	100 Kms
146	MAH/S/GRE	No				
147	MAH/S/GYA	NP	No			
148	MAH/S/JAI	NP	No			

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		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
149	MAH/S/KAL	NO	No			
150	MAH/S/KAR	NO	No			
151	MAH/S/KAT	NP	No			
152	MAH/S/MAL	NP				
153	MAH/S/MAY	No				
154	MAH/S/NAG	NO	No			
155	MAH/S/NAI	NP	No			
156	MAH/S/NAR	NP	Yes	Wan-Tiger Project	Forest	
157	MAH/S/PAI	NP	Yes	Not connected to a P.A., but to Pusad div.-range-Bitargaon ,Mahagaon & to Nanded div-range-kinvat,Bodhadi,Islapur	Dry deciduous & open forests	Pusad Div.-35 to 40km,Nanded div.-50km
158	MAH/S/RAD	NO	No			
159	MAH/S/SAG	NP	No			
160	MAH/S/TIP	NP	No			
161	MAH/S/WAN	NP	Yes	Ambabarwa,Narnala and project	Forest	
162	MAH/S/YAW	NO	Yes	Not connected to a P.A., but to the adjoining territorial range forest.	Forest	
163	MAH/S/YED	NP	No			
164	MAN/N/KEI	NO	No	N.A.	N.A.	N.A.
165	MAN/S/YAN					
166	MEG/N/BAL	NP	Yes	Balpakram National Park with Bagmara R.F	Forest	
167	MEG/N/NOK	NP	No			
168	MEG/N/NON	NO	No			
169	MEG/S/BAG	NP	No			
170	MEG/S/SIJ	NO	Yes	Balpakram National Park and Rewak Reserve Forest	Forest	5 - 10 km
171	MIZ/N/MUR	NP	Yes	Lengteng Wildlife Sanctuary	Forest	15-20 km
172	MIZ/N/PHA	NP	No		N.A.	N.A.

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		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
173	MIZ/S/DAM	NO	No			
174	MIZ/S/KHA	NP	No		N.A.	N.A.
175	MIZ/S/LEN	NP	Yes	Murlen National Park	Forest	15-20 km
176	MIZ/S/NGE	NP	No		N.A.	N.A.
177	MP/N/BAN	YES	No			
178	MP/N/GHU	NO	No			
179	MP/N/PEN	YES	Yes	Pench National Park, Maharashtra.	Forest as well as water body.	About 5 km.
180	MP/N/SAT	YES	Yes	Bori and Pachmarhi sanctuaries and Hoshangabad, Chhindwara and Betul forest divisions.	Forest	
181	MP/N/VAN	NO	No	N. A.	N. A.	N. A.
182	MP/S/BAD	NO	No			
183	MP/S/BAG	YES	Yes	Kaimur Sanctuary	Forest	60km
184	MP/S/GAN	NO	Yes	Darra sanctuary (Rajasthan).	Dry natural scrub.	30 km
185	MP/S/KAR	NO	No			
186	MP/S/KHE	NO	No	N.A.	N.A.	N.A.
187	MP/S/KUN	NP	No			
188	MP/S/NAR	NO	No	N.A.		
189	MP/S/NAT	NO	Yes	Kuno wildlife sanctuary and Ranthambhore tiger reserve.	Forest and river Kuno	
190	MP/S/NOR	NP	No			
191	MP/S/ORC	No				
192	MP/S/PEN	YES	Yes	Pench national park.	Forest	7 km.
193	MP/S/RAL	NP	No		Nil	Nil
194	MP/S/SAI	NO	No	N.A.		
195	MP/S/SAN	YES	Yes	Sanjay national park.	Forest	Adjoining (1km)
196	MP/S/SAR	NP	No			
197	MP/S/SON	No				

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		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
198	NAG/N/INT	NO	Yes	Adjoining Assam state (connected to Dhansiri Reserve Forest)	Forest. Frequently used by elephants	Across Dhansiri river. Precise length not known
199	NAG/S/FAK	NP	No			
200	NAG/S/PUL	NP	No			
201	NAG/S/RAN	NP	No			
202	ORI/N+S/BHI	Yes		Gahirmatha Marine National Park	Coast	Ajdoining PA
203	ORI/S/BAD	NP	Yes	The protected area is also connected to forests of remaining Binjipalli Reserve Forest and Kansar Reserve Forest.	Forest	2-5 km.
204	ORI/S/BAI	YES	Yes	Satakosia Gorge Sanctuary	Forest	Approximately 3
205	ORI/S/BAL	NP	No	Not applicable	Not applicable	Not applicable
206	ORI/S/CHA	NO	No			
207	ORI/S/CHI	NP	No			
208	ORI/S/DEB	NP	No			
209	ORI/S/HAD	YES	Yes	(1) Similipal Tiger Reserve (Biosphere Reserve) is connected with Hadgarh Sanctuary by the forests of Satkosia Reserve Forest and Noto Reserve Forest towards north of Hardgarh. (2) Hadgarh is connected to Kuladiha Wildlife Sanctuary on the north east with sparsely vegetated corridors through Gadasahi Reserve Forest and Kuladiha Reserve Forest.	Forest interspersed with habitations, cultivable land etc.	(I) Similipal to Hadgarh=11.5 km. (ii) Kuladiha to Hadgarh= 15.5 km. (Distance as measured on topo sheet from boundary to boundary)
210	ORI/S/KAR	No				
211	ORI/S/KHA	NP	Yes	Ushakothi Wildlife Sanctuary	Forest	10-15 km.
212	ORI/S/KOT	NP	No			
213	ORI/S/KUL	Yes		Similipal and Hadgarh	Forest	About 105 km.

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214	ORI/S/LAK	NP	Yes	Chandragiri Reserve Forest and Alara-Ramaguda Protected Reserve Forest.	Tropical Moist Deciduous Forests	146 km.
215	ORI/S/SATN	Yes		Baisipalli Sanctuary, Khalasuni Sanctuary (70 km. Satkosia-Khalasuni, South Keonjhar-Kapilas-Satkosia, Athamalik-Chhendipada-Kamakchya Nagar South Keonjhar)	River Mahanadi, Forest of Hatidhara, Teleipathar, South Keonjhar, Kapilas.	Satkosia-Khalasuni-70 km; South Keonjhar-Satkosia-200 km; Athamalik-Chhendipada-Keonjhar-Satkosia-225 km.
216	ORI/S/SATS	Yes		River Mahanadi districts the Satakosia Gorge Sanctuary and forms a corridor	River	40 kms
217	ORI/S/SIM	Yes		Kuldiha and Hadgarh	Forest	105 km.
218	ORI/S/SUN	NP	Yes	Udanti Sanctuary of Madhya	Forest	10 km.
219	PUN/S/ABO	NP	No			
220	PUN/S/AIS	NP	No		N.A.	N.A.
221	PUN/S/BHA	NP	No		N.A.	N.A.
222	PUN/S/BHU	NP	No		N.A.	N.A.
223	PUN/S/DOS	NP	No	N.A.	N.A.	N.A.
224	PUN/S/GUR	NO	No			
225	PUN/S/HAR	NP	No			
226	PUN/S/MAH	NP	No		N.A.	N.A.
227	PUN/S/MOT	NP	No		N.A.	N.A.
228	PUN/S/TAK	NP	No		N.A.	N.A.
229	RAJ/N/DES	NO	No			
230	RAJ/N/KEO	No				
231	RAJ/S/BAS	No				
232	RAJ/S/BHA	No				
233	RAJ/S/JAI	Yes		Kuravarh Range	Forest	Adjoining

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Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
234	RAJ/S/JAM	YES	Yes	Sariska Tiger Reserve	Forest	Both PA's are adjoining.
235	RAJ/S/KELA	Yes		Ranthambhore Tiger Reserve (core); Van Vihar Sanctuary, Dholpur	Ravines, forests and agriculture fields.	90 km.
236	RAJ/S/KUM	Yes		Todgarh Raoli wildlife sanctuary	Forest	10 km.
237	RAJ/S/NAH	NO	No			
238	RAJ/S/PHU	No				
239	RAJ/S/SAJJ	No				
240	RAJ/S/SIT	No				
241	RAJ/S/TAL	NO	No			
242	RAJ/S/TOD	Yes		Kumbhalgarh wildlife sanctuary	Forest	Adjoining
243	RAJ/S/VAN	Yes		Kela Devi Wildlife Sanctuary	Forest	70 km.
244	SIK/N/KHA	NO	Yes	Maenam Wildlife Sanctuary	Forest	
245	SIK/S/BAR	NP	No			
246	SIK/S/FAM	No		N.A.	N.A.	N.A.
247	SIK/S/KYON	NP	No			
248	SIK/S/MAE	Yes		Khangchangdzonga National Park	Forest	The two PAs are contiguous.
249	SIK/S/SHIN	NP	No			
250	TN/N/GUI	No				
251	TN/N/GUL	NO	No			
252	TN/N/IND	NP	Yes	Eravikulam N.P Chinnar and Rarambikulam WLS	Forest	60kms.
253	TN/N/MUD	NP	Yes	Bandipur national park and wayanad wildlife sanctuary	30kms to Bandipur, 45-50kms to Wayanad	
254	TN/N/MUK	NP	Yes	Silent Valley	Forest	5-10 K.M. Radius addacent to surrounding P.A.
255	TN/S/CHI	NP	No			

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Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
256	TN/S/GRI	NP	Yes	Project Tiger Thekkadi	Forest	5.6 km.
257	TN/S/KAN	NP	No			
258	TN/S/KARA	NP				
259	TN/S/KARI	NP	No			
260	TN/S/KOO	NP	No			
261	TN/S/MEL	NP				
262	TN/S/POIN	NO	No			
263	TN/S/PUL		Yes	Pulicat-Andhra Pradesh	Wetlands	5kms.
264	TN/S/UDA	NP	No			
265	TN/S/VAD	NP	No			
266	TN/S/VALL	NP	No			
267	TN/S/VED	NO	No			
268	TN/S/VELL	NP	No			
269	TN/S/VET	NP	No			
270	TRI/S/GUM	NP	No			
271	TRI/S/TRI	NP	No			
272	UP/S/BAK	No				
273	UP/S/CHA	NO	No			
274	UP/S/KAC	No				
275	UP/S/KAI	Yes		Bagdara Sanctuary, Sidhi, M.P	Forest	50 Km
276	UP/S/KAT	Yes		Dudhwa National Park and Royal Bardia National Park of Nepal	Forests and wetland	Not available
277	UP/S/LAK	No				
278	UP/S/MAH	No				
279	UP/S/NAT	No				
280	UP/S/NAW	No				
281	UP/S/OKH	No				
282	UP/S/PAR	No		Not known		
283	UP/S/PAT	No				
284	UP/S/RAN	No				

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Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
285	UP/S/SAMN	No				
286	UP/S/SAMS	No				
287	UP/S/SAN	No				
288	UP/S/SOH	Yes		Valmiki Tiger Reserve (Bihar)	Forest	20 km.
289	UP/S/SUH	No				
290	UP/S/SURA	No				
291	UP/S/SURS	No				
292	UP/S/VIJ					
293	UTT/N/COR	YES	Yes	Sonanadi Sanctuary and Rajaji National Park.	Forest	
294	UTT/N/GAN	Yes		Govind Wildlife Sanctuary/National Park and Kedarnath Wildlife Sanctuary	Forest, grassland, glaciers	Approximately 60 km. Each
295	UTT/N+S/GOV	Yes		Gangotri National Park	Forest	30 km. approximately.
296	UTT/S/ASK	Yes		Nanda Devi and Binsar	Forest, snow capped peaks, degraded forests	Nanda Devi: 20-40 Km. and Binsar: 30-40 km.
297	UTT/S/BIN	NP	No			
298	UTT/S/BINO	No				
299	UTT/S/KED	NO	No			
300	UTT/S/SON	Yes		Rajaji National Park	Forest	30 km.
301	WB/N/GOR	NP	Yes	Panjhora Block of Jalpaiguri Division conneted with Chapramari Wildlife Sanctuary.	Forest (Panjhora Block)	4.5
302	WB/N/NEO	Yes		Contiguous with forest of Sikkim and Bhutan	Forest	Not known
303	WB/N/SUN		No	Missing pages		
304	WB/S/BAL	NO	No			
305	WB/S/BET	NP	No	NA	NA	NA

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.5: Corridors Connecting PAs to Each Other

		Is the PA connected to another PA through a natural corridor?		New Data 1989-03		
Sno	PA code	Old data 1984-89	New Data 1989-03	Names of PAs that are connected through the forest corridor	Corridor type	Corridor length
306	WB/S/BIB	NP	No	Does not arise	Does not arise	Does not arise
307	WB/S/CHA	Yes		Panjhara block connected with Garumara national park and Sipchu block connected with Kalinpong forest to Neora Valley National Park.	Forest	Not known
308	WB/S/HAL	NP	No			
309	WB/S/LOT	NP	No			
310	WB/S/RAI	NP	No			
311	WB/S/RAM	NO	No			
312	WB/S/SEN	NP	Yes	Other adjacent forests in the district and Nepal	Forests	Not surveyed

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.6: Overpopulation of Fauna in the PA

Table 1.6: Overpopulation of Fauna in the PA

Sno	PA code	Old data-1984-87	New Data 1998-03	New Data 1998-03		
				Species	Cause	Management Initiative
1	A&N/S/INT	NO	Yes	Elephant	Not known	
2	AP/N/MAH	NP *	Yes	Chital	Lack of adequate number of predators.	Translocation to other PAs, this recourse is working well.
3	AP/S/GUN	NP	Yes	Susxcrofa cristatus wild boar	Crops in fring areas	No
4	AP/S/KRI	NP	Yes	Otter	Availability of food due to prawn culture tanks	Nil
5	AP/S/KRI		Yes	Fox	Availability of food due to prawn culture tanks	NIL
6	AP/S/PAP	NP	Yes	Wild Boar	Due to protection	NIL
	AP/S/PAP			Hare	Due to protection	NIL
	AP/S/PAP			Bison	Due to protection	NIL
7	ASS/N/KAZ	NP	Yes	Elephant (Elephas maximus)	Suitable habitat of Kaziranga National Park former habitat in surrounding area destruction	Capture, sale translocation etc. now prohibited. Park authority regularly drawing attention of all concerned about deforestation and preservation of wildlife habitat.
8	ASS/S/BAR	NP	Yes	Indian Elephant (Elephas maximus)	Cessation of elephant capturing	Non
9	ASS/S/GIB	NP	Yes	Elephant (Elephas maximus)	Habitat degradation	Not yet
10	ASS/S/POB	NP	Yes	Rhino	Protection, Successful breeding	Proposal submitted for translocation to some Rhino to Laokhowa Wildlife Sanctuary
11	ASS/S/SON	NP	Yes	Indian Elephant (Elephas maximus)	High breeding and non capture for a long period	Capturing by creating Mahals ie. awarding contracts for capturing elephants
12	BIH/S/RAJ	NO	Yes	Wild boar	Suitable habitat	None
13	CHD/S/SUK	No	Yes	Sambar	Because of good habitat, good drinking water facilities available throughout the area and effective protection.	Not required

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.6: Overpopulation of Fauna in the PA

Sno	PA code	Old data-1984-87	New Data 1998-03	New Data 1998-03		
				Species	Cause	Management Initiative
	CHD/S/SUK			Wild boar	Because of good habitat, good drinking water facilities available throughout the area and effective protection.	Not required
14	HAR/N/SUL	NO	Yes	Nilgai	Over Breeding	
	HAR/N/SUL			Termites or White Ants	Due to dry plants.	
15	HAR/S/BIRB	NP	Yes	Nilgai	Increase in Births	
	HAR/S/BIRB			Rhesus macaque	Increase in Births	
	HAR/S/BIRB			Hares	Increase in Births	
16	HAR/S/BIRS	NP	Yes	Monkey	Over Breeding	
	HAR/S/BIRS			Wild Pig	Over Breeding	
17	HAR/S/KAL	NP	Yes	Rhesus macaque (Macaca Mulatta)	Over breeding	
	HAR/S/KAL			Common langoor (Presbytis entellus)	Over breeding	
	HAR/S/KAL			Wild Pig (Sus scrofa)	Over breeding	
18	HAR/S/NAH	NP	Yes	Black Buck		
19	KAR/S/GUD	NP	Yes	White Ibis, Spoon bill, Banded Krait, Purple Moorhen, Coot, Pheasant- tailed Jacana, Egrets	Due to Flood & heavy rains the eggs are collapsing during 99-2000 about 5000nos.	Deepening tank and Raising of plants for nesting and Breeding. Formation of soil bund in middle of the Tank. For cutting bushes, shrubs & to make nests
20	KAR/S/SHA	NO	Yes	Tiger, Bison, Panther, Spotted Deer, Mouse Deer, Sambar, Bear, Peacock	These are in sufficient number and not over populated	The tourism zone, Protection as well as making fodder form and salt lick, Water holes, Check Dams, Gully plugs etc
21	MAH/N/AND		No	N.A		
22	MAH/N/PEN		No	NO		
23	MAH/N/SAN	YES	Yes	Liopard(64+)	Protection	No
24	MAH/S/AMB		No	N.A		
25	MAH/S/GYA	NP	Yes	Blue Bull	Protection	No
26	MAH/S/KAL		No	No		
27	MAH/S/KAR		No	Nil		
28	MAH/S/KAT	NP	Yes	Wild Boar & Black Buck	Protection and scientific management	Not at all
29	MAH/S/NAG		No	No		

Table 1.6: Overpopulation of Fauna in the PA

Sno	PA code	Old data-1984-87	New Data 1998-03	New Data 1998-03		
				Species	Cause	Management Initiative
30	MAH/S/NAI		No	No		
31	MAH/S/NAR		No	NONE		
32	MAH/S/PAI		No	No		
33	MAH/S/RAD		No	None		
34	MAH/S/SAG	NP	Yes	Antilope cervicapere(Black buck)	No natural predator	
35	MAH/S/TIP	NP	Yes	Blue Bull		No
36	MAN/N/KEI	NO	Yes	Hog deer (Axis porcinus)	It breeds every six months and enjoys strict protection	None
37	MEG/N/BAL	NP	No	NA		
38	MIZ/S/DAM	NO	Yes	Wild boar (Sus scrofa)	Fast reproduction	
	MIZ/S/DAM			Indan wolf (Canis lupus)	Fast reproduction	
39	MP/N/VAN	NP	Yes	Spotted deer	Over grazing	Supplement feeding provided (by barseem and dry grasses).
40	MP/S/NOR	NP	Yes	Boselaphus tragocamelus	(1) Inadequate predators (2) Stray cattle population is prey base for predators.	Grazing control measures are being taken, though without success.
41	ORI/S/BAL	NP	Yes	Spotted deer	Inbreeding.	None
42	ORI/S/DEB	NP	Yes	Wild boar (Sus scrofa)	Prolific breeder.	None
43	RAJ/S/JAI		No	NA		
44	RAJ/S/JAM	NO	Yes	Blue bull (Borephus trecscamelus).	Lack of predation.	None
45	RAJ/S/NAH	NO	Yes	Blue bull (Bosellaphus tregocamelus).	Lack of predation.	None
46	TN/N/IND	NP	Yes	Bonnet Macaque	Limited predators	
47	TN/S/GRI	NP	Yes	Wild boar (Sus-Scrofa)	Crop damage -Not arise	
48	TN/S/KAN		No	Nil		
49	TN/S/KARA		No	Nil		
50	TN/S/KARI		No	N.A		
51	TN/S/KOO		No	N.A		
52	TN/S/MUD		No	Nil		
53	TN/S/UDA		No	Nil		
54	TN/S/VAD		No	Nil		
55	TN/S/VED	NO	Yes	Open Bill stork	Seasonal habitat	Nil
	TN/S/VED			Glossy Ibis	Seasonal habitat	Nil
	TN/S/VED			White Ibis	Seasonal habitat	Nil
	TN/S/VED			Cormorant	Seasonal habitat	Nil

Table 1.6: Overpopulation of Fauna in the PA

Sno	PA code	Old data-1984-87	New Data 1998-03	New Data 1998-03		
				Species	Cause	Management Initiative
56	TN/S/VELL	NP	Yes	Fish	Not caught	Nil
57	UTT/N/COR	NO	Yes	Indian elephant (Elephas maximus)	Loss of natural migratory corridors, disproportionate male female ratio.	The following proposals have been sent to the government - translocating elephants to other areas, capturing elephants for domestic purposes, sterilisation of male elephants
58	UTT/S/KED	YES	Yes	Leopard (Panthera pardus)	Prolific breeder	
59	WB/N/GOR		No	None		
60	WB/N/SUN		No	Not known		
61	WB/S/BAL	YES	Yes	Axis axis(Spotted deer)	High birth rate	Translocation proposed.
62	WB/S/BET	NP	Yes	Chital	Lack of Predators.	Translocation to other forests.
63	WB/S/BIB	NP	Yes	Chital (Axis axis)	Lack of space	Yes,by translocation of deer from this park to another habitat.
64	WB/S/HAL		No	NA		
65	WB/S/LOT		No	NA		
66	WB/S/RAI	NP	Yes	Open bill Stork (Anastomus oscitans)	Congenial habitat and proper protection.	No such step has been taken.
67	WB/S/RAM	NP	Yes	Spotted Deer (Axis axis)	Adequate natural and supplied food, primary and security.	Rotational grazing since 1992. Artificial fodder cultivation has been adopted, providing medical insurance.
68	WB/S/SEN		No	Nil		

Table 1.7: Threatened Species of Fauna in the PAs

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
1	A&N/S/NAR	Nil	No					
2	A&N/S/NOR	Nil	No					
3	AP/S/ETU	YES	Yes	Tiger	18	14	Habitat degradation	Eco-development programme is being implemented
	AP/S/ETU			Indian Gaur	>1000	210	Rinderpest & FMD epidemics during 1976 & 1981-82	
	AP/S/ETU			Wild dog, Heyna				
	AP/S/ETU			Panther	20	7		
	AP/S/ETU			Barking deer, Leopard cat				
	AP/S/ETU			Four horned Antelope	1300			
4	AP/S/GUN	NP	Yes	Panthera tigris (Tiger)	25	15	Migration	
5	AP/S/KOL	NO	Yes	Pelican	Abundant	Few	Disturbance of nesting place	
6	AP/S/PAK	YES	Yes	Tiger		4	Habitat degradation rinder pest & FFD epidemic during 1976 & 1981-82	Eco-development programmes is being implemented.
	AP/S/PAK			Indian Gaur				
	AP/S/PAK			Wild Dog				
	AP/S/PAK			Panther		2		
	AP/S/PAK			Mugger crocodile		26		
	AP/S/PAK			Heyna				
	AP/S/PAK			Leopard Cat				
	AP/S/PAK			Giant squirrel				
	AP/S/PAK			Barking deer				
	AP/S/PAK			Pythons				
7	AP/S/PAP	NO	Yes	Tiger		8	Disturbances due to podu cultivation and timber felling	Protection
	AP/S/PAP			Sambar		Abundant	Disturbance due to podu cult. & timber felling	Protection

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
8	ARU/N/NAM	NO	Yes	White Winged Wood Duck (Cairina seutulata)	NA	5 individuals were sighted in December 1997	Habitat loss in areas adjoining the PA	
	ARU/N/NAM			Tiger (Panthera tigris)	NA		Human disturbance and poaching	
	ARU/N/NAM			Panther (Panthera pardus)	NA		Human disturbance and poaching	
	ARU/N/NAM			Clouded leopard (Neofelis nebulosa)	NA		Human disturbance and poaching	
	ARU/N/NAM			Snow leopard (Panthera uncia)	NA		Human disturbance and poaching	
	ARU/N/NAM			Musk deer	NA		Human disturbance and poaching	
	ARU/N/NAM			Red panda	NA		Human disturbance and poaching	
	ARU/N/NAM			Marbled cat (Felis marmorata)	NA		Human disturbance and poaching	
	ARU/N/NAM			Golden cat	NA		Human disturbance and poaching	
	ARU/N/NAM			Hog deer	NA		Human disturbance and poaching	
9	ARU/S/MEH	NO	Yes	Tiger	33	5	Loss of habitat and hunting	
	ARU/S/MEH			Sambar			Loss of habitat and hunting	
	ARU/S/MEH			Musk Deer			Hunting	
	ARU/S/MEH			Mishmi Takin			Hunting	
	ARU/S/MEH			Slow Loris			Loss of Habitat	
	ARU/S/MEH			Leopard			Hunting	
	ARU/S/MEH			Barking deer			Hunting	
	ARU/S/MEH			Pangolin			Hunting	
	ARU/S/MEH			Serow			Hunting	
10	ARU/S/YOR	NP	Yes	Tiger	Data not available	Data not available	Poaching / Hunting	None
	ARU/S/YOR			Flying Squirrel (Hylopates albonigec)	Data not available	Data not available		

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
	ARU/S/YOR			Musk Deer	Data not available	Data not available		
11	ASS/N/MAN	NP	Yes	Rhino	No Record	No estimate	Hunting	The PA management is trying to control hunting and destruction of habitat
	ASS/N/MAN			Swamp Deer	No Record	No estimate	Hunting	The PA management is trying to control hunting and destruction of habitat
	ASS/N/MAN			Hispid Hare	No Record	No estimate	Hunting, Habitat destruction	The PA management is trying to control hunting and destruction of habitat
	ASS/N/MAN			Pigmy Hog	No Record	No estimate	Hunting, Habitat Destruction	The PA management is trying to control hunting and destruction of habitat
	ASS/N/MAN			Dhole	No Record	No estimate	Hunting, Habitat Destruction	The PA management is trying to control hunting and destruction of habitat
	ASS/N/MAN			Buffalo	No Record	No estimate	Hunting, Habitat destruction	The PA management is trying to control hunting and destruction of habitat
12	ASS/N/NAME		No					
13	ASS/N/ORA	NP	Yes	Rhino	97	46	Poaching	Protection measures strengthened, but these are not adequate due to lack of funds, manpower, fire arms etc.
14	ASS/S/BAR	NP	Yes	Pigmy hog	Census not done and no sightings have been reported since 1990		Poaching	Strict protection has been given
	ASS/S/BAR			Hispid hare (Caprolagus hispidus)	Census not done and not citing since 1990		Poaching	Strict protection has been given
	ASS/S/BAR			Hog deer (Axis percinus)	As per census done in 1997	15	Poaching	Strict protection has been given
	ASS/S/BAR			Wild pig (Sus scrofa)	As per census done in 1997	13	Poaching	Strict protection has been given
	ASS/S/BAR			Pea fowl	As per census done in 1997	14	Poaching	Strict protection has been given
	ASS/S/BAR			Hornbill	As per census done in 1997	10	Poaching	Strict protection has been given

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
15	ASS/S/BUR	Yes	Yes	Rhino	85	0	Mass poaching in 1983	Reintroduction of rhino in the sanctuary is proposed.
16	ASS/S/EKAR		No					
17	ASS/S/GAR	Yes	Yes	Elephant	Not known	21	Loss of forest cover in a	None
18	ASS/S/KAR	No	No					
19	ASS/S/LAO	NP	Yes	Rhino	110		Poaching	
20	ASS/S/NAMB		No					
21	BIH/S/RAJ	YES	Yes	Ant eater			Human interference.	
22	CHT/S/BHA	NP	Yes	Wild Buffalow	11		NTPF Collection and degradation of habitat due to human and cattle pressure	Nil
23	CHT/S/GOM	None	No					
24	CHT/S/PAM	NP	Yes	Wild Buffalow	43	Nil	The Wild buffalow has declined in the PA due to degradation of the habitat because of human and cattle pressure and NTPF collection	
25	CHT/S/TAM	NO	Yes	Tiger (Panthera tigris)	14 individuals in 1993	6 individuals in 1999	Due to migration	
	CHT/S/TAM			Leopard (Panthera pardus)	31 individuals in 1983	15 individuals in 1999	Due to migration	
	CHT/S/TAM			Common Peafowl (Para cristatus)	Commonly found earlier	Occasionally found now	Due to migration	
26	GOA/S/BON	None	No					
27	GUJ/N/BAN	NO	Yes	Panther		5		
	GUJ/N/BAN			Spotted deer		22		
	GUJ/N/BAN			Barking deer		3		
	GUJ/N/BAN			Hyena		3		
	GUJ/N/BAN			Jungle cat		1		
28	GUJ/S/RAT	Nil	No					

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
29	GUJ/S/WIL	NP	Yes	Chinkara (Gazella gazella)	2000 to 5000	865	Loss of habitat, hunting and disturbance due to salt farming	Habitat restoration activities are being taken up by the sanctuary management along with more vigil against poaching. The results are encouraging.
	GUJ/S/WIL			Caracal (Felis Caracal)		Not known	Loss of habitat, hunting and disturbance due to salt farming	Habitat restoration activities are being taken up by the sanctuary management along with more vigil against poaching. The results are encouraging.
	GUJ/S/WIL			Antelope cervicapra (Black buck)	5000 plus	119	Loss of habitat, hunting and disturbance due to salt farming	Habitat restoration activities are being taken up by the sanctuary management along with more vigil against poaching. The results are encouraging.
30	HAR/S/BIRB	NP	Yes	Peacock	100	60	Use of pesticides in agricultural fields	Increasing awareness of local people and protection in the PA
31	HAR/S/BIRS	NP	Yes	Panther		2		
32	HAR/S/CHIL	NP	Yes	All avifauna			Silting and lack of habitat	
33	HAR/S/KAL	NP	Yes	Sambar (Cervus unicolor), Spotted deer or chital (Axis axis), Barking Deer (Muntiacus muntjak), and Gorals (Nemorhaedus goral)				
34	HAR/S/SAR	NP	Yes	Hog Deer, Black Partridge, Porcupine and Grey Partridge				Habitat improvement with artificial plantations & protection works.
35	HP/S/DAR	YES	Yes	Musk deer, Blue sheep, Western tragopan, Monal pheasant, Chir pheasant			Habitat loss and disturbance from human activities	Stopped giving forest areas for <i>nautod</i> to local people and started providing protection

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
36	HP/S/GAM	YES	Yes	Hangul	20-25 about 20 years ago		Hunting	A proposal was submitted for the Hangul, but not sanctioned. Only past records of the forest department show that the Hangul was found in the PA. However, it has never been recorded in any of the census carried out by the PA authorities. The presence of the Hangul in the PA is, however, reported by the local people living within and around the PA.
37	HP/S/KAI	None	No					
38	HP/S/KAL	YES	Yes	Monal	10 individuals were counted in the 1995-96 census	None have been counted in the 1999 census	Not known	None
39	HP/S/KAN	Yes	Yes	Western tragopan			Forest fires	Fire protection
	HP/S/KAN	Yes		Musk deer			Poaching	Protection
	HP/S/KAN	Yes		Leopard			Unknown	None
40	HP/S/KHO	Yes	Yes	Monal Pheasant			Hunting	Strict protection
41	HP/S/KUG	NO	Yes	Musk Deer	300-400	20 Approx.	Natural factors like glaciers, predation & perhaps diseases and undetected poaching	None at present
42	HP/S/MAN	None	No					
43	HP/S/TUN	NO	Yes	Musk Deer	40-50 approx.	10-12 approx.	Natural factors like glaciers, predation & perhaps diseases and undetected poaching	None at Present
44	J&K/N/HEM	Nil	No					
45	J&K/N/KIS	YES	Yes	Snow Leopard Brown bear	7 to 8	7 to 8		No management initiative has taken by the department so far to regenerate the population of snow leopard
	J&K/N/KIS			Hangul	7 to 8	7 to 8		
46	J&K/S/CHA	Nil	No					
47	J&K/S/KAR	Nil	No					

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
48	JHA/S/HAZ	NO	Yes	All the mammals	Abundant	Rare	Habitat destruction and poaching	A breeding enclosure has been made where cheetal and sambar have been kept (numbering 20) for the purpose of protection and breeding. However, the result is not satisfactory. Besides this, no other initiative has been taken
49	JHA/S/UDH	NP	Yes	Snake Bird			Illegal fishing	Patrolling has been intensified
50	KAR/N/BANN	No	No					
51	KAR/S/ATT	NA	No					
52	KAR/S/BIL	Yes	Yes	Hyna	Extinct	Nil	Habitat destruction	
	KAR/S/BIL	Yes		Mouse deer	Abundant	20	Habitat destruction	
	KAR/S/BIL	Yes		Four horned antelope	Abundant	40	Habitat destruction	
53	KAR/S/MOO	NO	Yes	Mouse Deer - Tragulus Meminna		1500		No survey has been done
	KAR/S/MOO			King Cobra - Ophiophagus Hannah		400		No survey has been done
	KAR/S/MOO			Lion Tailed Macaque - Macaca Silenus		100		No survey has been done
	KAR/S/MOO			Otters		50		No survey has been done
	KAR/S/MOO			Slender Loris		30		No survey has been done
54	KAR/S/PUS	NP	Yes	Lion Tailed Macaque	10-Aug	6-Apr	Poaching	Antipoaching camps for better protection
	KAR/S/PUS			Malabar Squirrels	30-40	25-30	Poaching	Anti poaching camps for better protection
	KAR/S/PUS			Indian Gaur	15-20	16-Dec	Poaching	Antipoaching camps for better protection
55	KAR/S/SHA	NO	Yes	Lion tailed Macaque	20	5	Migration	
56	KAR/S/TAL	NP	Yes	Lion tailed macaqu	Not available	6-May	Hunting	Anti-poaching camps have been started. It has to be intensified
57	KER/S/ARA	NA	No					
58	KER/S/CHIN	NO	Yes	Grizzled Giant Squirrel	NA	NA		
	KER/S/CHIN			Nilgiri tahr	NA	NA		
59	MAH/N/AND		No	No				
60	MAH/N/PEN		No	None				
61	MAH/N/SAN	YES	Yes	Wild boar			Poaching	
	MAH/N/SAN			Rabbit			Poaching & illegal hunting	
	MAH/N/SAN			Peafowl			Poaching	
62	MAH/S/AMB		No	None				

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
63	MAH/S/ANE	NP	Yes	Chinkara & Back napped hare	?		Encroachment & hunting	Village level meetings are organised to educate people regarding conversation.
64	MAH/S/BHA		No					No threat to any schedule animals as there is no biotic interference with in the PA, as the terrain is inaccessible hilly & devoid of human population
65	MAH/S/BHI	Yes	Yes	Giant squirrel	Not available	300 approximat	Reduction in habitat	The species needs wooded area with close canopy which can not be artificially created. So protection to this species and its habitat is provided.
66	MAH/S/CHAN	Yes	Yes	Mouse deer			Poaching	Strict protection
	MAH/S/CHAN	Yes		Indian giant squirrel		35	Disturbance in habitat	Habitat development works are necessary.
	MAH/S/CHAN	Yes		Tiger		2	Disturbance in habitat	Habitat development works are necessary.
	MAH/S/CHAN	Yes		Leopard		6	Disturbance in habitat	Habitat development works are necessary.
67	MAH/S/CHAP	NP	Yes	Tiger	9	5	Excessive biotic interference & contiguous similar habitat of adjacent territorial forest areas.	1.Habitat improvement works undertaken.2. Excessive patrolling & protection measures.3. These measures resulted in increase in the prey base & as a result the Tiger population is likely to increase to its original status.
68	MAH/S/DEU	Yes	Yes	Chinkara	9		Biotic interference	Village ecodevelopment (Ved) at Rehekuri village for past 3 years.
	MAH/S/DEU	Yes		Indian wolf	2		Human and cattle	Village ecodevelopment (Ved) at Rehekuri village for past 3 years
	MAH/S/DEU	Yes		Black buck	535			
69	MAH/S/GAU	NP	Yes	Barking Deer,Chinkara & Blue Bull			Grazing pressure has increased over the years.	Ban on grazing in certain areas
70	MAH/S/GRE	Yes	Yes	Great Indian bustard		38		
	MAH/S/GRE	Yes		Black buck		3614		
	MAH/S/GRE	Yes		Wolf	37			
	MAH/S/GRE	Yes		Chinkara	29			
71	MAH/S/GYA		No					Sanctuary declared last year. So it can't be estimated right now
72	MAH/S/JAI		No	Not available				
73	MAH/S/KAL	NO	Yes	Giant squirrel,Barking deer & Sambar			Habitat fragmentation, water scacity & biotic pressure	Habitat improvement, soil & water conservation& reducing biotic pressure by introducing VED

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
74	MAH/S/KAR		No	Nil				
75	MAH/S/KAT		No	No				
76	MAH/S/MAL		No	Not known				
77	MAH/S/MAY	Yes	Yes	Chinkara		105		Management plan under preparation, habitat improvement done 1999-2000, water hole improvement.
	MAH/S/MAY	Yes		Wolf		8		Management plan under preparation, habitat improvement done 1999-2000, water hole improvement.
	MAH/S/MAY	Yes		Fox		5		Management plan under preparation, habitat improvement done 1999-2000, water hole improvement.
78	MAH/S/NAG		No	None				
79	MAH/S/NAI		No	No				
80	MAH/S/NAR		No	None				
81	MAH/S/PAI	NP	Yes	Tiger	8 to 10	2	Regular fire	None at present, but will undertake some initiatives for future.
	MAH/S/PAI			Sloth bear	Not available	6 to 8	Human disturbance	None at present, but will undertake some initiatives for future.
	MAH/S/PAI			Bison	Not available	1 to 2		None at present, but will undertake some initiatives for future.
82	MAH/S/RAD		No	None				
83	MAH/S/SAG	NP	Yes	Canis lupus pallipes (Indian wolf)	3 to 4	2 to 3	Habitat disturbance	
	MAH/S/SAG			Manis crassicaudate (Pangolin)	1 to 2	1	Habitat Disturbance	
	MAH/S/SAG			Hyaena hyaena (Hyaena)	2	1	Habitat disturbance	
84	MAH/S/TIP		No	None				
85	MAH/S/WAN	NP	Yes	Panthera tigris & Panthera pardos	NA	NA	NA	

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
86	MAN/N/KEI	YES	Yes	Brow-antlered deer.		149	Population is on the rise but it is not encouraging due to habitat disturbance caused by frequent flooding of the dam and vegetable collection by humans.	Scientific management has not been taken up so far. However, habitat management is going on.
	MAN/N/KEI			Otter			Population is on the rise but it is not encouraging due to habitat disturbance caused by frequent flooding of the dam and vegetable collection by humans.	Scientific management has not been taken up so far. However, habitat management is going on.
87	MAN/S/YAN	Yes	Yes	Hoolock gibbon	300	200	Biotic interference	
88	MEG/N/BAL	NP	Yes	Elephas maximus (Indian Elephant)	910	741	Migration, natural or accidental deaths, poaching etc.	Extension of PA, habitat amelioration, anti-poaching measures, conservation education, awareness campaigns, etc proposed in the management plan for 2000-2005
	MEG/N/BAL			Bos gaurus (Indian bison)	No census		Migration, natural or accidental deaths, poaching, etc.	Extension of PA, habitat amelioration, anti-poaching measures, conservation education, awareness campaigns, etc proposed in the management plan for 2000-2005
	MEG/N/BAL			Panthera tigris (Tiger)	No census		Migration, natural or accidental deaths, poaching, etc.	Extension of PA, habitat amelioration, anti-poaching measures, conservation education, awareness campaigns, etc proposed in the management plan for 2000-2005
	MEG/N/BAL			Panthera pardus (Leopard)	No census		Migration, natural or accidental deaths, poaching, etc.	Extension of PA, habitat amelioration, anti-poaching measures, conservation education, awareness campaigns, etc proposed in the management plan for 2000-2005

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
89	MEG/N/NOK	NP	Yes	Tiger, Leopard, Gaur, Sambar, Barking deer, Serrow, Himalayan black bear, Slow loris, Rhesus macaque, Assamese macaque, Capped langur, Great Indian Hornbill, Peacock pheasant, Khaleej pheasant	NA	NA	Destruction of habitat and hunting	Protection is being done as per Wildlife (Protection) Act 1972. Management activities are yet to be started (species specific).
	MEG/S/NON	YES		Tiger, Wild Buffalo, Indian Bison	Census not yet conducted	Not known	Hunting	None
90	MEG/S/SIJ	NP	Yes	Elephas maximus (Indian elephant)	910	741	Migration, natural or accidental deaths, poaching, etc.	Extension of PA, habitat amelioration, antic poaching measures, conservation education, awareness campaigns etc. proposed in the management plan for 2000-2005
	MEG/S/SIJ			Bos gaurus (Indian bison), Panthera tigris (Tiger), Panthera pardus (Leopard)	No census		Migration, natural or accidental deaths, poaching, etc.	Extension of PA, habitat amelioration, anti poaching measures, conservation education, awareness campaigns etc. proposed in the management plan for 2000-2005
91	MIZ/N/PHA	NP	Yes	Tiger		4	Migration outside the PA makes the animals prone to hunting. Also extensive habitat degradation outside the PA which adversely affects animals.	Existing area has been notified as a national park.
	MIZ/N/PHA			Pangolin		10	Migration outside the PA makes the animals prone to hunting	Existing area has been notified as a national park.

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
	MIZ/N/PHA			Hoolock gibbon		14	Migration outside the PA makes the animals prone to hunting	Existing area has been notified as a national park.
92	MIZ/S/DAM	NO	Yes	Hoolock gibbon	200	24	Poaching	For protection, regular patrolling is carried out
93	MP/N/BAN	NP	Yes	Gaur (Bos gaurus)	29	1	Migration	Consultation called for.
94	MP/N/SAT	NO	Yes	Giant Squirrel	Not known	Not known	Due to lack of proper management.	
	MP/N/SAT			Flying Squirrel	Not known	Not known	Due to lack of proper management.	
	MP/N/SAT			Pangolin	Not known	Not known	Due to lack of proper management.	
95	MP/N/VAN	NO	Yes	Black buck	183	25	Migration and improper and inadequate feeding.	Repairing of fences, habitat improvement and supplement feeding.
96	MP/S/GAN	NO	Yes	Bear		At present in our census bears are not recorded, but indirect traces confirm their existence.	Heavy biotic interference and unsuitable habitat may have forced them to leave this area.	So far no initiative has been taken in this regard, but in future we intend to do so.
97	MP/S/KAR	YES	Yes	Black buck (Antelope cervicapra)	3777	911	Decline in the population due biotic pressure.	
98	MP/S/KUN	NP	Yes	Black buck				
	MP/S/KUN			Chinkara				
	MP/S/KUN			Four horned Antelope				
	MP/S/KUN			Leopard				
	MP/S/KUN			Sloth bear				
	MP/S/KUN			Tiger				
	MP/S/KUN			Mugger				
	MP/S/KUN			Gharial				
99	MP/S/ORC	Nil	No					
100	MP/S/SON	No	No					

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
101	NAG/N/INT	NO	Yes	Gaur (Bos gaurus)	67	5	Degradation of habitat	
	NAG/N/INT			Sloth bear (Melursus ursinus)	11	2	Degradation of habitat	
	NAG/N/INT			Hoolock gibbon	55	12	Degradation of habitat	
	NAG/N/INT			Elephant	141	29	Habitat fragmentation	Project Elephant has been taken up in the PA
	NAG/N/INT			Tiger			Hunting	
	NAG/N/INT			Leopard			Hunting	
	NAG/N/INT			Samal			Hunting	
102	NAG/S/FAK	NP	Yes	Gaur	6	around 3	Due to degradation of the habitat surrounding the PA	None
	NAG/S/FAK			Blyth's Tragopan	571	402	Due to degradation of the habitat surrounding the PA	A management plan is being drawn up
103	NAG/S/PUL	NP	Yes	Sambar		7	Hunting	A chain link fence has been installed for boundary protection
	NAG/S/PUL			Barking deer		9	Hunting	
	NAG/S/PUL			Fox		6	Hunting	
	NAG/S/PUL			Jungle cat		14	Hunting	
104	ORI/N+S/BHI	NA	No					
105	ORI/S/BAD	NP	Yes	Bison (Bos gaurus)	Approximately 500 (as estimated in 1968-69)	Very few at present	Bison contracted Foot and Mouth disease in 1984	No initiative
	ORI/S/BAD			Wild Dog	8-10 groups numbering around 70 (as estimated during 1966-78)	Very few at present	Not known	No initiative

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
106	ORI/S/BAL	NP	Yes	Black buck(Antelope cervicapra)	In thousands previously	15 to 20	(i) Deforestation by the local villagers resulting in migration of animals (ii) Poaching in the past (iii) Scarcity of food and habitat due to deforestation.	Nil
107	ORI/S/CHA	YES	Yes	Python			Due to depletion in wildlife habitat and poaching.	Adequate protective measures have been taken to prevent poaching and to protect the animals.
	ORI/S/CHA			Leopard(Panthera pardus)	10	6	Due to depletion in wildlife habitat and poaching.	Adequate protective measures have been taken to prevent poaching and to protect the animals.
108	ORI/S/DEB	NP	Yes	Sambar (Cervus unicolour)	Not available	Not available	Hunting and shooting in the past.	Strict protection against poaching.
109	ORI/S/HAD	YES	Yes	Indian Elephant (Elephas maximus).	NA	18	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
	ORI/S/HAD			Indian wolf (Canis lupus pallipes).	NA	15+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.
	ORI/S/HAD			Leopard (Panthera pardus).	NA	1	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
	ORI/S/HAD			Mouse deer (Tragulus menrinal).	NA	25+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.
	ORI/S/HAD			Pangolin(Manis crassicaudate).	NA	50+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
	ORI/S/HAD			Otter (<i>Aonix cinerea</i>).	NA	20+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.
	ORI/S/HAD			Sloth bear (<i>Melurus ursinus</i>).	NA	100+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
	ORI/S/HAD			Python(Python mollurus)	NA	30+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuaRy. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.
	ORI/S/HAD			Pea fowl (Pavo cristatus)	NA	150+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuaRy. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Past Population	Current Population	New Data 1998-03	
							Cause of decline	Any Management initiative taken
	ORI/S/HAD			Sambar (Cervus unicolor)	NA	2	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.
	ORI/S/HAD			Spotted deer (Axis axis).	NA	20+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
	ORI/S/HAD			Barking Deer (Munticus muntjack)	NA	50+	Destruction and shrinking of habitat due to: (i) encroachment (ii) overgrazing by cattle (iii) forest fires (iv) illicit felling (v) NTFP collection (vi) hunting/poaching, fire	At present, protection on a limited scale is being enforced. Due to lack of funds, not many management initiatives have been taken. Moreover, manpower available to manage the sanctuary is inadequate. There is lack of accommodation for staff inside the sanctuary. Since many of the encroached settlements can be approached only by boat, unavailability of mechanised boats causes problems in patrolling and inspecting interior areas. The road network needs to be developed and must be manned properly with anti poaching check gates. The most urgent need is the eviction of the encroachers and rehabilitating them outside the sanctuary since the encroachers have occupied the most productive valleys.
110	ORI/S/KAR	Nil	No					
111	ORI/S/KOT		Yes	Elephant.				
112	ORI/S/KUL	Yes	Yes	Four horned antelope (Tetracerus quadr		Rare	Biotic interference	Under management and guidelines of wildlife sanctuaries Government of Orissa. No specific study has been done.
113	ORI/S/SATN	Yes	Yes	Gharial (Gavialis gange	Plenty	3	Biotic interference	Gharial Research and Conservation Unit, Tikarpara, recognised as mini zoo.
	ORI/S/SATN	Yes		Mugger (Crocodylus pal	Plenty	35	Biotic interference	Gharial Research and Conservation Unit, Tikarpara, recognised as mini zoo.
	ORI/S/SATN	Yes		Elephant (Elephas maxi	Plenty	229	Over grazing, forest	Conservation by patrolling
	ORI/S/SATN	Yes		Tiger (Panthera tigris)	Plenty	14	Fire (Intentional) illicit fe	Conservation by patrolling
	ORI/S/SATN	Yes		Leopard (Panthera pard	Plenty	8	Poaching	Conservation by patrolling
	ORI/S/SATN	Yes		Hornbill	Common	50	Habitat destruction	Conservation by patrolling
	ORI/S/SATN	Yes		Gaur	Common	Less than 50	Habitat destruction	Conservation by patrolling
	ORI/S/SATN	Yes		Indian wolf	Common	Less than 10	Habitat destruction	Conservation by patrolling
	ORI/S/SATN	Yes		Mouse deer	Plenty	Less than 50	Habitat destruction	Conservation by patrolling
	ORI/S/SATN	Yes		Sloth bear	Common	Less than 25	Habitat destruction	Conservation by patrolling
114	ORI/S/SATS		No					
115	ORI/S/SIM	Yes	Yes	Chowsingha (Tetracerus quadricornis)		Rare		Under management guidelines of "Project Tiger", government of India.

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
	ORI/S/SIM	Yes		Wild dog (Cuon alpinus)		Rare		Under management guidelines of "Project Tiger", government of India.
	ORI/S/SIM	Yes		Mahaseer (Tor tor)		Rare		Under management guidelines of "Project Tiger", government of India.
	ORI/S/SIM	Yes		Wolf (Canis lupus)		Rare		Under management guidelines of "Project Tiger", government of India.
	ORI/S/SIM	Yes		Flying squirrel (Petaurista petaurista)		Rare		Under management guidelines of "Project Tiger", government of India.
	ORI/S/SIM	Yes		Indian pangolin (Manis crassicaudata)		Rare		Under management guidelines of "Project Tiger", government of India.
116	RAJ/N/KEO	Yes	Yes	Black buck (Antelope ca	41 in 1992	0	Decline in open flat areas	Reintroduction was carried out once, but it was not successful.
117	RAJ/S/BAS	Nil	No					
118	RAJ/S/BHA	No	No					
119	RAJ/S/JAI		Yes	Leopard (Panthera pardus)		33	Decline in herbivorous population	Protection
120	RAJ/S/JAM	NO	Yes	Tiger (Panthera tigris).	Not recorded	1	Biotic disturbance and habitat degradation.	(i).Anicuts, (ii). Patrolling by flying squad. (iii). Cutting of fire lines (iv). Planting in degraded forest areas of adjoining panchayat land.
	RAJ/S/JAM			Leopard (Panthera pardus).	Not recorded	18	Biotic disturbance and habitat degradation.	
	RAJ/S/JAM			Caracal (Felis caracal).		4	Biotic disturbance and habitat degradation.	
	RAJ/S/JAM			Ratel (Mallivora capensis).		30	Biotic disturbance and habitat degradation.	
	RAJ/S/JAM			Wolf (Canis lupus).		7	Biotic disturbance and habitat degradation.	
121	RAJ/S/KELA	NA	No					
122	RAJ/S/KUM	Nil	No					

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Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
123	RAJ/S/NAH	NO	Yes	Leopard (Panthera pardus).		5	Biotic pressure and habitat degradation.	(i).Anicuts, (ii). Patrolling by flying squad. (iii). Cutting of fire lines (iv). Planting in degraded forest areas of adjoining panchayat land.
	RAJ/S/NAH			Indian pea fowl (Pavo cristatus).			Biotic pressure and habitat degradation.	
124	RAJ/S/PHU	Yes	Yes	Leopard (Panthera pardus)	30	13	Decline in herbivore population	Protection tightened
	RAJ/S/PHU	Yes		Sloth bear (Melursus ursinus)	100	15-Oct	Habitat deterioration	Habitat improvement by protection
	RAJ/S/PHU	Yes		Four Horned Antelope (Kudu)	63	20-25	Poaching	Protection tightened
	RAJ/S/PHU	Yes		Flying squirrel (Petaurista)	200	25-30	Habitat deterioration and poaching	Restoration of habitat
125	RAJ/S/SAJJ	NA	No					
126	RAJ/S/SIT	Nil	No					
127	RAJ/S/TAL	NO	Yes	Desert Fox	Data not available	3	Biotic pressure.	
	RAJ/S/TAL			Jackal	Data not available	2	Biotic pressure.	
128	RAJ/S/TOD	Yes	Yes	Leopard (Panthera pardus)		38	Decline in herbivore population	Better protection
	RAJ/S/TOD	Yes		Sambar (Cervus unicolor)		45	Poaching, habitat deterioration	Better protection
129	RAJ/S/VAN	Yes	Yes	Leopard (Panthera pardus)	5	1	Disturbance, decline in prey	None
130	SIK/N/KHA	Yes	Yes	Blood pheasants	No records available		Feral dogs	Anti poaching operations are carried out frequently. In order to assist growth of population of these animals, habitat improvement is carried out. Personal observations show that there is some improvement in the situation
	SIK/N/KHA			Satyr Tragopan	No records available		Feral dogs	Anti poaching operations are carried out frequently. In order to assist growth of population of these animals, habitat improvement is carried out. Personal observations show that there is some improvement in the situation
	SIK/N/KHA			Goral	No records available		Hunting by locals for meat	Anti poaching operations are carried out frequently. In order to assist growth of population of these animals, habitat improvement is carried out. Personal observations show that there is some improvement in the situation

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
	SIK/N/KHA			Musk deer	No records available		Hunting by locals for meat	Anti poaching operations are carried out frequently. In order to assist growth of population of these animals, habitat improvement is carried out. Personal observations show that there is some improvement in the situation
	SIK/N/KHA			Serow	No records available		Hunting by locals for meat	Anti poaching operations are carried out frequently. In order to assist growth of population of these animals, habitat improvement is carried out. Personal observations show that there is some improvement in the situation
	SIK/N/KHA			Clouded leopard	No records available		Hunting by locals for skin	Anti poaching operations are carried out frequently. In order to assist growth of population of these animals, habitat improvement is carried out. Personal observations show that there is some improvement in the situation
131	SIK/S/FAM		No					
132	SIK/S/MAE	Yes	Yes	Red Panda	Unknown	Unknown	Biotic pressure	None
133	TN/N/GUI	Yes	Yes	Black buck		152-170		None (for past 6 years)
	TN/N/GUI	Yes		Jackal (schedule II part 2)				
134	TN/N/GUL	YES	Yes	Sea cow (Dugong)	Not known	Not known	Habitat degradation	Awareness creation among fisher men
	TN/N/GUL			Sea turtle	Not known	Not known	Habitat degradation	Legal action taken if sch-I animals are found captured.
135	TN/N/IND	NP	Yes	Chital	108 in Topslip reception area	16 only	Plantation activities stopped	Only burning of grassland to maintain openings
136	TN/S/GRI	NP	Yes	Grizzled gaint-Squirral macroura squirrel	288	345		
	TN/S/GRI			Elephant-Elephas maximus	69	74		
	TN/S/GRI			Nilgiritahr - Hemitragus hylocrius	184	210		
	TN/S/GRI			LTM - Macaca silenus	34	46		
137	TN/S/KAN		No	Nil				
138	TN/S/KARA		No	Nil				
139	TN/S/KARI		No	N.A				
140	TN/S/KOO		No	N.A				

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
141	TN/S/MUD		Yes	Elephant-Elephas maximus				
142	TN/S/UDA		No	Nil				
143	TN/S/VAD		No	Nil				
144	TN/S/VED		No	Nil				
145	TN/S/VELL		No	Nil				
146	TN/S/VET	NP	Yes	Spoonbill	100 (avg).	53	Not known	None
147	TRI/S/GUM	NP	Yes	Pigtailed Macaque	No records available	No estimate available	Habitat destruction	Habitat restoration through afforestation
	TRI/S/GUM			Stumptailed Macaque	No records available	No estimate available	Habitat destruction	Habitat restoration through afforestation
	TRI/S/GUM			Slow Loris	No records available	No estimate available	Habitat destruction	Habitat restoration through afforestation
	TRI/S/GUM			Phayre's Leaf Monkey	No records available	No estimate available	Habitat destruction	Habitat restoration through afforestation
148	TRI/S/TRI	NP	Yes	Gaur				Steps - Protection of habitat, ecodevelopment activities to create awareness among people. Results - Population is regenerating and the local people are coming forward to help.
	TRI/S/TRI			Hoolock Gibbon				Steps - Protection of habitat, ecodevelopment activities to create awareness among people. Results - Population is regenerating and the local people are coming forward to help.
	TRI/S/TRI			Phayre's Leaf Monkey				Steps - Protection of habitat, ecodevelopment activities to create awareness among people. Results - Population is regenerating and the local people are coming forward to help.
149	UP/S/BAK	Nil	No					
150	UP/S/CHA	Yes	Yes	Tiger (Panthera tigris)		5	Habitat decline	New management plan is proposed for the PA.
	UP/S/CHA	Yes		Chinkara (Gazella gazella)		34	Habitat decline	New management plan is proposed for the PA.
151	UP/S/KAC	NA	No					
152	UP/S/KAI	Yes	Yes	Wild dog	50 to 60	Rare	No specific cause is known	
153	UP/S/KAT		No					
154	UP/S/LAK		No					
155	UP/S/MAH	Nil	No					

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
156	UP/S/NAT	Nil	No					
157	UP/S/NAW		No					
158	UP/S/OKH	No	No					
159	UP/S/PAR		No					
160	UP/S/PAT	No	No					
161	UP/S/RAN	Yes	Yes	Wild dog	70	16	Not known	Cattle around the PA is being vaccinated
162	UP/S/SAMN	No	No					
163	UP/S/SAMS		No					
164	UP/S/SAN		No					
165	UP/S/SOH	Nil	No					
166	UP/S/SUH	Yes	Yes	Tiger				
	UP/S/SUH	Yes		Leopard				
	UP/S/SUH	Yes		Sloth bear				
167	UP/S/SURA	NA	No					
168	UP/S/SURS	No	No					
169	UP/S/VIJ		No					
170	UTT/N/COR	YES	Yes	Hog Deer	424	323	Loss of grass land due to formation of reservoir.	Development of grass land for habitat improvement is proposed to be carried out
171	UTT/N/GAN	Yes	Yes	Musk deer	Not known	Not known	Hunting	None as yet
	UTT/N/GAN	Yes		Snow leopard	Not known	Not known	Hunting	None as yet
172	UTT/N+S/GOV	None	No					
173	UTT/S/ASK	Yes	Yes	Musk deer	Unknown	Unknown	Hunting	None. Expected to go extinct in this area in the next 20-25 years if current trend of depletion continues.
	UTT/S/ASK	Yes		Ghoral	Unknown	Unknown	Hunting, loss of breeding	None
	UTT/S/ASK	Yes		Bharal	Unknown	Unknown	Hunting, loss of breeding	None
	UTT/S/ASK	Yes		Monal pheasant	Unknown	Unknown	Hunting	None
174	UTT/S/BINO	NA	No					

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
175	UTT/S/KED	YES	Yes	Himalayan Brown Bear (<i>Ursus arctos</i>), Himalayan Tahr (<i>Hemilirus jemlahicus</i>), Leopard (<i>Panthera pardus</i>), Leopard Cat (<i>Felis bengalensis</i>), Musk Deer (<i>Moschus moschiferous</i>), Serow (<i>Capricornis sumatraensis</i>), Snow Leopard (<i>Panthera uncia</i>), Cheer Pheasants (<i>Catreus wallichii</i>), Monal Pheasants (<i>Lophophorus impejanus</i>)				Strict protection measures have been initiated. A breeding centre has been opened for the breeding of endangered Musk Deer. The results are encouraging.
176	UTT/S/SON		No					
177	WB/N/GOR		No	NA				
178	WB/N/NEO	Yes	Yes	Red Panda	Not estimated	Not estimated	NA	Field survey will be conducted very soon.
179	WB/N/SUN	NP	Yes	Gangetic Dolphin (<i>Platanista Gangetica</i>)			Degradation of Habitat	Nil
	WB/N/SUN			Olive Ridley (<i>Lepidochelys Olivacea</i>)				Artificial hatching of eggs and release.
	WB/N/SUN			Estuarine Crocodile				Artificial hatching and release in the forest.
180	WB/S/BAL	YES	Yes	Antelope Cervicapra (Black buck)	16	1	12-Translocated, 3 Died due to old age	Proposal are there to translocate to Battarpur Wildlife Sanctuary.
181	WB/S/BET	NP	Yes	Jungle Cat			Lack of predator base	
	WB/S/BET			Porcupine				
182	WB/S/CHA	Yes	Yes	Indian pangolin	Not estimated	Not estimated	Biotic disturbances	Not taken steps taken to reduce biotic interference

Table 1.7: Threatened Species of Fauna in the PAs

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	New Data 1998-03			
					Past Population	Current Population	Cause of decline	Any Management initiative taken
183	WB/S/HAL	NP	Yes	Royal Bengal Tiger(Panthera tigris)	NA	Nil	Not known	Intense protection measures have been taken.
184	WB/S/LOT		No					
185	WB/S/RAI		No	NA				
186	WB/S/RAM		No					Not yet studied.
189	WB/S/SEN		Yes	All faunal species				

*Table 1.8: Faunal Species of Special Interest in the
PA*

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
1	A&N/S/CUT	Sea turtles	Threatened	Stable but might be declining	Betapur	Personal Estimate
2	A&N/S/NAR	Narcondam hornbill (Rhyleceros narcondami)	Found only in the small Island sanctuary	Stable	Kalara	
3	A&N/S/NOR	Andaman Teal	The species which is threatened in other habitats are found in this PA.	Stable	Tugapur	
4	AP/N/MAH	Black Buck - Antelope cervicapra	A threatened species in Andhra Pradesh	Stable	Mahaveer Harina Vanasthali National Park	Survey
5	AP/N/VEN	Golden Gecko (Calodactylus aureus)	Found only in this PA	Unknown	Tirupati, Chamala, Balapalli	Research and estimation
	AP/N/VEN	Slender Loris (Loris Tardigradus)	Found only in the PA and source of Medicine	Unknown	Tirupati, Chamala, Balapalli	Research and estimation
6	AP/S/COR	Clawless otter	Found only in this PA	Increasing	WLM Range, Kakinada	Personal estimate
7	AP/S/ETU	Gaur - Bos gaurus	Large Population of Gaur used to roam in these forests	210 no. (As per 1986-87 census)	Eturnagaram, Tadvai Range	As per current management plan (1992-2002)
	AP/S/ETU	Tiger	Chief Predator of the Forest	Stable	Eturnagaram & Tadvai	
	AP/S/ETU	Giant squirrel		Not available	Eturnagaram & Tadvai	
	AP/S/ETU	Pythons	Once-good population	Decline	Eturnagaram & Tadvai	
	AP/S/ETU	Barking deer	Sighting in rare	Not available	Eturnagaram & Tadvai	
	AP/S/ETU	Leopard cat	Sighting in rare	Not available	Eturnagaram & Tadvai	
8	AP/S/GUN	Rusty spotted cat	Wild relative of domesticated species	unknown	GBM	ACF Biodiversity Shri Sailan
	AP/S/GUN	Golden Cat	Wild relative of domesticated species	unknown	GBM	ACF Biodiversity Shri Sailan
9	AP/S/KAW	Bison	Found only in this PA	stable	Tannaram , Indanpally, Birsapet, Tadlapet.	Survey with a animal tracker
10	AP/S/KOL	All variety of Teaks	Hunted for food	Declining	Eluru Range	Personal estimate
	AP/S/KOL	Pelicans	Found only in this PA	Declining	Eluru Range	Personal estimate
	AP/S/KOL	Painted Strokes	Found only in this PA	Declining	Eluru Range	Personal estimate
11	AP/S/KOU	Elephas maximus	Found only in this PA	Increasing	Palamaner & Kuppam	Survey
12	AP/S/NEL	Grey Pelican	Winter Migratory Bird	Stable	Nelapattu Bird Sanctuary	Census
	AP/S/NEL	Open Billed Storks	Winter Migratory Bird	Stable	Nelapattu Bird Sanctuary	Census
	AP/S/NEL	White Ibis	Winter Mig. Bird	Stable	Nelapattu Bird Sanctuary	Census
13	AP/S/PAK	Gaur	Sighting incidence reduced	Unknown	Kothaguda	As per current available information.
	AP/S/PAK	Tigers	Chief predator of the forest		Kothaguda	
	AP/S/PAK	Giant squirrel		Not available	Kothaguda	
	AP/S/PAK	Leopard cat	Sighting is rare	Not available	Kothaguda	
	AP/S/PAK	Mugger crocodile	Sighting is rare	Not available	Kothaguda, Narsampet	

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	AP/S/PAK	Pythons	Once good population	Declining	Kothaguda, Gudur	
	AP/S/PAK	Nilgai	Once good population	Stable	Kothaguda, Gudur	
	AP/S/PAK	Fourhorned antelope	Once good population	Stable	Kothaguda, Gudur	
14	AP/S/PRA	Black Buck Antelope cervicarpa	These move in open dry grass lands	Increasing	Chennur, Nilwai	Survey and personal estimate
15	AP/S/PUL	Flamingo - Phoenicopterus roteus	Migratory Bird		Pulicat Bird Sanctuary	Census details
16	AP/S/SIW	Otter	Aquatic eco-system it has got importance, apex carnivore in aquatic eco-system.	Stable	Mamthani river bed of Godavari	Survey and personal observation
17	ARU/N/MOU	Red Panda (Ailurus fulgens)	Cultural Importance	Stable	Moulting Peak	Local Information
	ARU/N/MOU	Panther Tigris	Cultural Importance	Stable	Foot hills and near banks of streams	Local Information
	ARU/N/MOU	Pythons	Cultural Importance	Stable	Foot hills	Local Information
18	ARU/S/DER	River Dolphin (Platanista gangetica)	Found nowhere else in the state	Unknown	Anchalghat range	
	ARU/S/DER	Wild Buffalo (Bubalis bubalis)	Endangered	Declining	All the ranges	Personnel estimate
19	ARU/S/MEH	Bodorus Taxi Color	Hunted as game	Declining	Mehao	Personnel estimate
	ARU/S/MEH	Mismi Takin				
	ARU/S/MEH	Allurus Fulgens	Hunted as game	Declining	Mehao	Personnel estimate
	ARU/S/MEH	Red Panda	Hunted as game	Declining	Mehao	Personnel estimate
	ARU/S/MEH	Carinascutalata	Hunted as game	Declining	Mehao	Personnel estimate
	ARU/S/MEH	Wood Duck	Hunted as game	Declining	Mehao	Personnel estimate
	ARU/S/MEH	Mismi Monal	Hunted as game	Declining	Mehao	Personnel estimate
20	ASS/N/DIB	Spat Billed Pelica		Unknown	All the ranges	Personal estimate and research
	ASS/N/DIB	White Belied Heron		Unknown	All the ranges	Personal estimate and research
	ASS/N/DIB	White winged wood Buck	Found only in this PA	Unknown	All the ranges	Personal estimate and research
	ASS/N/DIB	Black breasted parath	Found only in this PA	Unknown	All the ranges	Personal estimate and research
	ASS/N/DIB	Pale capped Pigeon	Found only in this PA	Unknown	All the ranges	Personal estimate and research
	ASS/N/DIB	Lesser Adjutant stork	Red Data Listed	Unknown	All the ranges	Personal estimate and research
	ASS/N/DIB	Greater Adjutant stork, Great Spotted Eagle		Unknown	All the ranges	Personal estimate and research

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	ASS/N/DIB	Pochard, Jerdon's Babbler, Marsh babbler		Unknown	All the ranges	Personal estimate and research
21	ASS/N/KAZ	Rhino (Rhinoceros unicornis)	Others (A significant population of this most endangered species is found in this PA)	Increasing	All the ranges	Survey
	ASS/N/KAZ	Asiatic wild buffalo	Wild relative of domesticated species	Increasing	All the ranges	Survey
	ASS/N/KAZ	Tiger	Others (Endangered species - more then 80 found in Kaziranga National Park)	Increasing	All the ranges	Survey
	ASS/N/KAZ	Swamp deer (Cervus duvauceli)	Others (Significant population found in Kaziranga National Park)	Increasing	All the ranges	Survey
	ASS/N/KAZ	Elephant (Elephas maximus)	Cultural importance, More than 1000 found in the Kaziranga National Park	Increasing	All the ranges	Survey
22	ASS/N/MAN	Pigmy Hog	Found only in this PA	Declining	Bansbari and Bhuiyanpara	Personal estimate
	ASS/N/MAN	Hispid Hare	Found only in this PA	Declining	Bansbari and Bhuiyanpara	Personal estimate
23	ASS/N/ORA	One Horned Rhinoceros (Rhinoceros unicornis)	Found only in this PA	Declining	Orang	Research, Survey
	ASS/N/ORA	Tiger (Panthera tigris)	Source of medicine, Other commercial value, Hunted as game or for trophy.	Increasing	Orang	Research, Survey
	ASS/N/ORA	Elephant, Bengal florican				
24	ASS/S/BUR	Bengal florican	Endangered species	Declining	Burachapori Wildlife Range	Personal estimate
	ASS/S/BUR	Tiger	Endangered species	Stable	Burachapori Wildlife Range	Census
	ASS/S/BUR	Gangetic dolphin	Endangered species	Stable	Burachapori Wildlife Range	Census
25	ASS/S/GAR	Elephant		Declining		
26	ASS/S/GIB	Hoolock gibbon	Found only in this PA	Stable	C.N.S.E. West Ranges	Personal estimate
	ASS/S/GIB	Stump Tailed Macaque	Found only in this PA	Stable	C.N.S.E. West Ranges	Personal estimate
	ASS/S/GIB	Pigtailed macaque (Macaca vemestriuan)	Found only in this PA	Stable	C.N.S.E. West Range	Personal estimate
27	ASS/S/LAO	Great Indian Bustard		Unknown-Local migrant		
	ASS/S/LAO	Bengal Florican		Unknown (Sightings have reduced over past ten years)		
	ASS/S/LAO	Wild Buffalo		Increasing - (Approximately 250 animals in 1998 and 300 in 2000)		

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	ASS/S/LAO	Tiger		Increasing (current estimates-around 14-15 animals)		
	ASS/S/LAO	Rhino		Part time resident only		
	ASS/S/LAO	Hog deer		Declining over past 10 years because of hunting and repeated flooding		
28	ASS/S/PAN	Adjutant Stork (Leptoptilos dubivs)	Others	Declining		Personal estimate
29	ASS/S/POB	Rhino (Rhinoceros unicornis)	Schedule I species and state animal of Assam	Increasing	Entire Sanctuary	Survey, Research, Personal estimate
30	ASS/S/SON	White winged wood duck (Cairina seutulata)	Highly endangered species	Stable	Central Range & Dhekiajuli range	Personal estimate
	ASS/S/SON	Bengal florican (Eupodot's bengalensis)	Highly endangered species	Stable	Central Range & Dhekiajuli range	Personal estimate
	ASS/S/SON	Tiger (Panthera tigris)	Highly endangered species	Stable	Central Range & Dhekiajuli range	Personal estimate
	ASS/S/SON	Bison (Bos gaurus)	Highly endangered species	Stable	Central Range & Dhekiajuli range	Personal estimate
	ASS/S/SON	Hispid Hare (Capologus hispidus), Hornbill	Highly endangered species	Stable	Central Range & Dhekiajuli range	Personal estimate
31	BIH/S/RAJ	Ant eater	Rare species	Declining	Rajgir	Personal estimate
32	CHT/N/IND	Wild buffalo (Bubalus bubalis)	Wild relative of domesticated species	Declining	Entire PA	Survey and Census
33	CHT/N/KAN	Ratel (Mellivora capensis)	Status in India is very low	Stable	Kotamsar	Research
34	CHT/S/TAM	Sloth Bear	Source of medicine	Common	Tamor Pingla Game Range	Census
	CHT/S/TAM	Gaur or Indian Bison	Found only in this PA in Surguja District	Common	Tamor Pingla Game Range	Census
35	CHT/S/UDA	Wild Buffalo	Wild relative of domesticated species	Almost stable	Udanti	Personal estimate and survey
36	DEL/S/ASO	Spiny tail lizard or Sanda (Uromastix hardwickii)	Source of medicine.	Stable	Asola	Personal estimate
37	GOA/S/BON	Mouse deer	Hunted as game	Declining	Throughout the PA	Personal estimate
38	GOA/S/CHO	Pteropus giganteus (Flying fox)	Unique to this region of India.	Stable	Campal	Personal estimate
39	GUJ/N/BAN	Flying squirrel	Cultural importance	declining	Bansada national park	Personal estimate
40	GUJ/S/WIL	Caracal (felis caracal)	Found only in the Kutch area	Unknown	Bajana	Personal estimate
41	HAR/N/SUL	Sarus crane	Found only in this PA		National Park Area	
42	HAR/S/ABU	Black Buck (Antelope cervicapra)	Found only in this PA	Increasing	Dabwali	Personal estimate

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
43	HAR/S/BHIN	Pelican, Rosy		Stable	Bhindawas	Personal Estimate
	HAR/S/BHIN	Stork, Blacknecked		Stable		
	HAR/S/BHIN	Flamingo		Stable	Bhindawas	
	HAR/S/BHIN	Shelduck, Ruddy		Stable	Bhindawas	Personal Estimate
	HAR/S/BHIN	Mallard		Stable	Bhindawas	Personal Estimate
	HAR/S/BHIN	Partridge, Black & Grey		Stable	Bhindawas	Personal Estimate
	HAR/S/BHIN	Parakeet, Roseringed		Stable	Bhindawas	Personal estimate
	HAR/S/BHIN	Cuckoo, Pied Crested		Stable	Bhindawas	Personal estimate
	HAR/S/BHIN	Skylark, Eastern		Stable		
	HAR/S/BHIN	Kingfisher, Lesser Pied		Stable	Bhindawas	Personal estimate
	HAR/S/BHIN	Owl, Great Horned or Eagle-Owl		Stable		
	HAR/S/BHIN	Owl, Dusky Horned		Stable		
	HAR/S/BHIN	Owl, Brown Fish		Stable		
44	HAR/S/BIRB	Porcupine	Wild relative of domesticated species	Declining	Bir Bara Ban Jind	Personal Estimate
45	HAR/S/BIRS	Spotted Deer and Red Jungle Fowl			Bir Shikar Gah	Personal Estimate
46	HAR/S/KAL	Red Jungle fowl			Wildlife sanctuary Kalesar	Personal Estimate
47	HAR/S/KHA	Pelican, Flemingo, Barheaded geese, Mallard, Gadwell	To preserve wildlife and keep balanced environment	Stable		Personal Estimate
48	HAR/S/NAH	Black Buck	Endangered	Stable	Nahar	Personal Estimate
49	HP/S/DAR	Musk deer, Western tragopan, Monal pheasant, Serow	All are rare and endangered animals found in the PA	Stable	Dofda	Surveys and personal estimates
50	HP/S/GAM	Hangul	Others (one of the few PAs apart from Dachigam, where the Hangul may occur)	Unknown	Langrea and Beer beats	Personal estimate
51	HP/S/KAN	Himalayan Tahr	Threatened species	Stable		
	HP/S/KAN	Western tragopan	Threatened species	Declining		
	HP/S/KAN	Musk deer	Threatened species	Declining		
	HP/S/KAN	Ghoral	Threatened species	Stable		
52	HP/S/KUG	Monal	Cultural importance	Stable	All over the PA	Personal estimate
	HP/S/KUG	Musk Deer	Other commercial value	Declining	Along the snow line in the PA	Personal estimate
53	HP/S/LIP	ibex	Others (one of the few PAs with a significant population)	Stable	Sangla	Personal estimate
	HP/S/LIP	Bharal	Others (one of the few PAs with a significant population)	Stable	Sangla	Personal estimate
54	HP/S/MAN	Western tragopan	Highly endangered	Unknown		
	HP/S/MAN	Musk deer	Highly endangered	Unknown		

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
55	HP/S/RUP	Snow leopard	Rare species	Stable	Bhaba & Rupi both	Personal estimate
	HP/S/RUP	Himalayan Tahr	Rare Species	Stable	Bhaba & Rupi both	Personal estimate
	HP/S/RUP	Western Tragopan	Endangered Species	Stable	Bhaba & Rupi both	Personal estimate
	HP/S/RUP	Musk Deer	Endangered Species	Stable	Bhaba & Rupi both	Personal estimate
56	HP/S/SAN	Musk Deer	Schedule - I of the Wild Life (Protection) Act, 1972	Stable	Sangla	Personal estimate
	HP/S/SAN	Monal	Schedule - I of the Wild Life (Protection) Act, 1972	Stable	Sangla	
	HP/S/SAN	Brown Bear	Schedule - I of the Wild Life (Protection) Act, 1972	Stable	Sangla	
57	HP/S/TUN	Monal	Cultural importance	Stable	All over the PA	Personal estimate
	HP/S/TUN	Musk Deer	Other commercial value	Declining	Along the snow line in the PA	Personal estimate
58	J&K/N/HEM	Snow leopard	Found only in this Pa	Increasing	Throughout the PA	Survey, research
	J&K/N/HEM	Tibetan Argali	Found only in this PA	Stable	Candala pass	Survey, research
59	J&K/N/KIS	Musk deer (Moschus moschiferus)	Found only in Kistawar National Park	Found only in this Kishtwar National Park.	Sirchi	
	J&K/N/KIS	Western tragopan		This animal is hunted for musk	Kistwar	
60	J&K/S/CHA	Tibetan Antelope	Found only in this PA, other commercial value	Not known	Chushul	Survey, personal estimate
	J&K/S/CHA	Wild Ass	Found in this PA, wild relative of domesticated species.	Increasing	Both ranges	Rresearch, personal estimate
	J&K/S/CHA	Tibetan Gazelle\	Found only in this PA.	Declining	Both ranges.	Research
61	J&K/S/KAR	Tibetan Antelope	Found only in this PA	Not available	Shayok, Daulat beg (Nubra)	Personal estimate, survey
	J&K/S/KAR	Bactrian camel	Wild relative of domesticated species	Stable	Nubra	Personal estimate
62	J&K/S/OVE	Hangul (Cervus elaphus hanglu)		Stable	Lidder	Survey
	J&K/S/OVE	Musk deer (Moschus moschiferus)		Stable	Lidder	Survey
	J&K/S/OVE	Brown bear (Ursus arctos)		Unknown	Lidder	
	J&K/S/OVE	Leopard (Panthera pardus)		Unknown	Lidder	
	J&K/S/OVE	Serow (Capricornis sumatraenses)		Unknown	Lidder	
63	JHA/S/HAZ	Indian Wolf (Canis lupus)	Child lifting in the past had created panic during the villagers	Unknown	Entire PA	
64	KAR/N/ANS	Black Panther		Unknown	Wildlife Range Anashi & Kumbarwada	

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	KAR/N/ANS	King Cobra - Ophiophagus Hannah		Unknown	Wildlife Range Anashi & Kumburwada	
65	KAR/N/BANN	Tiger (Panthera tigris)	It has been felt that this species was exist in this PA. The pugmark are found recently shows its presence.	Unknown	Anckal	Observation by the staff
66	KAR/N/KUD	Lion Tailed macaque (Macaca silenus)	Western Ghat	Stable	Kudremukh & Sringeri WL Range	Personal estimate
67	KAR/S/BRA	Lion tailed Macque	Very rare	Unknown	Makutta & Srimangala	Personal estimate
68	KAR/S/DAN	Black Panther, Kingcobra		Unknown	WLR kulgi, Kumburwada	Personal estimate
69	KAR/S/DOR	Sloth bear (Melursus Ursinus)	Fairly well distributed	Common	Kamalapur	Census 1997
	KAR/S/DOR	Panther (Panthera Paredus)	Confined to small area	Occasional		Census 1997
	KAR/S/DOR	Chital (axis axis)	Confined to small area	Rare		Census 1997
70	KAR/S/GHA	Herpestes edwardsi (common mangoose)	Confined to small area	common		Personal estimate
	KAR/S/GHA	Naza naza (cobra)	Confined to small area	common		
	KAR/S/GHA	Vulpes bengalensis (Indian fox)	Confined to small area	common		
	KAR/S/GHA	Hysrtix indica (indian porcupine)	Confined to small area	common		
	KAR/S/GHA	Lepus regridcoltis (indian hare)	Confined to small area	common		
	KAR/S/GHA	Caris aureus (jackal)	Confined to small area	common		
	KAR/S/GHA	Python molarus (python)	Confined to small area	common		
	KAR/S/GHA	Ptyas mucosus (rat snake)	Confined to small area	common		
	KAR/S/GHA	Vipera russellii (viper)	Confined to small area	common		
71	KAR/S/KAV	Ratufa Macroura (Grizzled squirrel)	Endemic to few parts	Stable	Kanakapura WL Range	
	KAR/S/KAV	Masher Fish	Found in Kaveri River	Stable	Kanakapura WL Range	
72	KAR/S/MEL	Canis Lupus - Indian Wolf	Rare and endangered animal	Stable	Narayanadurga and Mudibetta Reserve Forest	Personal estimate
73	KAR/S/PUS	Leeches	Different varieties of leeches	Stable	All wet places	Personal estimate
74	KAR/S/RANE	Great Indian Bustard - Choriotis nigriceps	Found only in this PA, No wild relation with domestic species, No source of medicine, No commercial value, Under the threat of extinction, Not hunted	The existence is very erratic	Hullatti	Survey
75	KAR/S/RANG	Hirundo fluvicola, Indian Cliff Swallow	Winter visitor builds colony of nests	Stable	Ranganathittu	Personal estimate

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
76	KAR/S/SHA	LTM	Other commercial value		Kogar	Personal Sighting
	KAR/S/SHA	Black Panther	Found only in this PA			Personal Sighting
77	KAR/S/SOM	Lion tailed macaque - <i>Macaca silenus</i>	Found only in this PA	Stable	Agumbe Ghat Section of this Range	Conservation plan for the lion tailed macaque by Shri K. Ullas Karanth
78	KER/N/ERA	Nilgiri tahr	Endangered and endemic	Increasing	Entire PA	Survey
	KER/N/ERA	Nilgiri marten	Endemic	Unknown	Entire PA	Survey
79	KER/S/ARA	Lion tailed macaque (<i>Macaca silenus</i>)	Others (endemic)	Unknown	Aralam	Personal estimate
	KER/S/ARA	Slender loris (<i>Loris tardigradus</i>)	Others (endemic)	Unknown	Aralam	Personal estimate
	KER/S/ARA	Great Indian hornbill (<i>Tockus griseus</i>)	Others (endemic)	Unknown	Aralam	Bird survey
80	KER/S/CHIN	Grizzled Giant Squirrel	OTH (Endangered)	Increasing	Chinnar	Personal estimate
	KER/S/CHIN	White Gaur	OTH (Albino)	Stable	Chinnar	Survey
81	KER/S/WAY	Indian Elephant	OTH (Religious), OTH (Threatened)	Stable	Entire PA	Survey and personal estimate
	KER/S/WAY	Tiger	OTH (Religious), OTH (Threatened)	Stable	Entire PA	Survey and personal estimate
	KER/S/WAY	Four horned antelope	OTH (Threatened)	Stable	Sulthan Bathery and Muthanga	Survey and personal estimate
	KER/S/WAY	Leopard cat	OTH (Threatened)	Stable	Tholpetty	Survey and personal estimate
	KER/S/WAY	Malabar civet	OTH (Threatened)	Stable	Kurichiyat and Sulthan Bathery	Survey and personal estimate
	KER/S/WAY	Pangolin	OTH (Threatened)	Stable	Entire PA	Survey and personal estimate
	KER/S/WAY	Flying squirrel	OTH (Threatened)	Stable	Entire PA	Survey and personal estimate
82	MAH/N/AND	Ratel	Distribution restricted	Unknown	Moharli, Tadoba, Kolsa	Survey & Personal estimate
	MAH/N/AND	Leopard cat	Distribution restricted	Unknown	Tadoba	Survey & Personal estimate
83	MAH/N/PEN	Tiger	Population to be increased at sustainable stage	Increasing, but not remarkable	East Pench range	Personal estimate
	MAH/N/PEN	Mahasheer (Fish)	Population to be increased at sustainable stage	Increasing, but not remarkable	East Pench range	Personal estimate
84	MAH/N/SAN	Rusty spotted cat	Rare	Unknown	Bhandup Complex Sanjay Gandhi National Park	1 Sighting
85	MAH/S/ANE	Chinkara				
86	MAH/S/BHA	Giant Squirrel	Found mostly around the riparian areas, increasing	Increasing	Bhamragarh Sanctuary	Census
87	MAH/S/BHI	Giant Squirrel, <i>Ratufa indica</i> (<i>Elphinstoni</i>)	Found only in this PA	Declining	Bhimashankar 1 & 2	Research study by Mr. Rinni Borges

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
88	MAH/S/BOR	Tiger				
89	MAH/S/CHAN	Tiger	Rare to this area	Stable	Randhiv, Shidheshwar, Chandoli	Survey
	MAH/S/CHAN	Tricarinate hill turtle	Rare to this area and it is confined to small area (found only in this PA)	Declining	Dhakale, Tanlali	Survey
90	MAH/S/CHAP	Giant Squirrel	Found mostly around the riparian areas	Increasing	Chaudampalli	Census
91	MAH/S/DEU	Black buck	Rare and endangered	Increasing	Rehekuri	Annual survey by wildlife wing
	MAH/S/DEU	Chinkara	Rare and endangered	Increasing	Rehekuri	Annual survey by wildlife wing
	MAH/S/DEU	Wolf	Rare and endangered	Increasing	Rehekuri	Annual survey by wildlife wing
92	MAH/S/GAU	Barking Deer	To maintain the balance	Declining	All three ranges	PA
	MAH/S/GAU	Chinkara	To maintain the balance	Declining	All three ranges	PA
93	MAH/S/GRE	Great Indian bustard		Stable	Nannaj	Census
	MAH/S/GRE	Black buck		Stable	All ranges	Census
	MAH/S/GRE	Wolf		Stable	All ranges	Census
94	MAH/S/GYA	Panther		Increasing		
	MAH/S/GYA	Sloth		Increasing		
95	MAH/S/JAI	Open Billed Storks		Not yet studied		
	MAH/S/JAI	Tufted Pochards		Not yet studied		
	MAH/S/JAI	Common Pochards		Not yet studied		
	MAH/S/JAI	White Eyed Pochards		Not yet studied		
	MAH/S/JAI	Coots		Not yet studied		
	MAH/S/JAI	Bar Headed Geese		Not yet studied		
	MAH/S/JAI	Common Teal		Not yet studied		
	MAH/S/JAI	Cotton Teal		Not yet studied		
	MAH/S/JAI	Democile cranes		Not yet studied		
	MAH/S/JAI	Flamingo		Not yet studied		
96	MAH/S/KAL	Giant squirrel, Barking deer, Sambar				
97	MAH/S/KAT	Indian Wolf	Endangered	Declining	Akola	Survey and personal estimate
98	MAH/S/MAY	Chinkara	It is a sanctuary for Chinkara	Increasing	Supe	Census
	MAH/S/MAY	Wolf		Stable	Supe	Census
	MAH/S/MAY	Fox		Stable	Supe	Census
99	MAH/S/NAI	Peafowl	Conservation value & cultural significance	Increasing	Beed	PA
100	MAH/S/NAR	Panthera tigris	Hunted as game or for trophy	Increasing	Narnala	Personal estimate
101	MAH/S/PAI	Tiger	Wildlife protection	Stable	Sondabi, Kharbi	Personal estimate & census result

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	MAH/S/PAI	Panther	Wildlife protection	Increasing	Sondabi, Kharbi	Personal estimate & census result
	MAH/S/PAI	Spotted deer	Wildlife Protection	Increasing	Sondabi, Kharbi	Personal estimate & census result
	MAH/S/PAI	Black buck	Wildlife protection	Increasing	Sondabi, Kharbi	Personal estimate & census result
	MAH/S/PAI	Barking deer	Wildlife protection	Stable	Sondabi, Kharbi	Personal estimate & census result
102	MAH/S/RAD	Bison		Increasing		
	MAH/S/RAD	Giant Squirrel		Increasing		
	MAH/S/RAD	Tiger		Increasing		
	MAH/S/RAD	Sloth Bear		Increasing		
103	MAH/S/SAG	Cervus anicolour niger (Sambar)	Balance of the ecosystem	Increasing	In whole protected area	Survey
	MAH/S/SAG	Axis axis (Chital)	Balance of ecosystem	Increasing	In the whole area	Survey
	MAH/S/SAG	Vulpes bengalensis (Indian fox or khoked)	Balance of ecosystem	Increasing	In the whole area	Personal estimate
	MAH/S/SAG	Sus scrofa (Wild boar)	Balance of ecosystem	Increasing	In the whole protected area	Personal estimate
	MAH/S/SAG	Felis chaus (Jungle cat)	Balance of ecosystem	Increasing	In the whole protected area	Personal estimate
104	MAH/S/TIP	Blue Bull	Wild relative of domesticated species	Increasing	Tipeshwar	Census
105	MAH/S/WAN	Panthera tigris & Panthera pardos	Hunted as game or for trophy	Increasing	Somthana and Wan	Personal Estimate
106	MAH/S/YED	Wolf	Conservation Value	Increasing	Yedashi	Personal estimate
107	MAN/N/KEI	Brow Antlered Deer (Cervus eldi eldi)	Found only in this PA	Increasing	Throughout the park, where the deer's favoured habitat, the phumdi, is present	Census
108	MAN/S/YAN	Tiger	Migrates to the PA	Unknown		
	MAN/S/YAN	Elephant	Migrates to the PA	Unknown		
109	MEG/N/BAL	Hoolock gibbon	Only Ape species in the PA	Unknown	All the ranges	Research and Personal Estimate
	MEG/N/BAL	Pangolin, Capped Langoor, Civet cat, Tiger	Threatened species	Unknown	All the ranges	Research and Personal Estimate
	MEG/N/BAL	Binturang	Hunted for skin	Unknown	All the ranges	Research and Personal Estimate
110	MEG/N/NOK	Hoolock gibbon	The only tail less ape of the Indian sub-continent	Unknown	Distributed all over the PA	Personal estimate

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	MEG/N/NOK	Stumped tailed macaque and Pig tailed macaque	Their status is not known in the region	Unknown, because a detailed estimate has not been conducted	Distributed all over the PA	Personal estimate
111	MEG/S/NON	Clouded Leopard (Neofelis nebulosa)	State animal	Stable	Nongpoh	Personal estimate
	MEG/S/NON	Tiger (Panthera tigris)		Declining	Nongpoh	Personal estimate
	MEG/S/NON	Hill myna	State bird	Stable	Nongpoh	Personal estimate
	MEG/S/NON	Great Indian pied hornbill		Stable	Nongpoh	Personal estimate
	MEG/S/NON	Golden cat		Declining	Nongpoh	Personal estimate
	MEG/S/NON	Wild Dog		Stable	Nongpoh	Personal estimate
	MEG/S/NON	Hollock Gibbon (Hylobates hollock)		Increasing	Nongpoh	Personal estimate
112	MEG/S/SIJ	Hoolock gibbon	Only Ape species found in India	Unknown	Siju Range	Research and personal estimate
	MEG/S/SIJ	Pangolin, Capped langur, Civet cat, Tiger	Threatened species	Unknown	Siju Range	Research and Personal Estimate
	MEG/S/SIJ	Binturong	Hunted for skin	Unknown	Siju Range	Research and Personal Estimate
113	MIZ/N/MUR	Hume's Bartailed Pheasant	State bird of Mizoram, has a sparse distribution	Increasing	North Khawbung	Census
114	MIZ/N/PHA	Blyth's Tragopan	Found only in this PA in Mizoram	Increasing	Phawngpui	Census, personal estimate and local information
115	MIZ/S/DAM	Hoolock Gibbon (Hylobates hoolock)	Only ape found in India	Declining	Teirei & Phuldungsei	Personal estimate
	MIZ/S/DAM	Wolf	Endangered species	Increasing	Teirei & Phuldungsei	Personal estimate
116	MIZ/S/KHA	Hume's Bartailed Pheasant	State bird of Mizoram, has a sparse distribution	Increasing	Rawpui	Census
117	MIZ/S/LEN	Hume's Bartailed Pheasant	State bird of Mizoram, has a sparse distribution	Increasing		Personal estimate
118	MP/N/BAN	Tiger	Hunted as game or for trophy.	Increasing	All over the PA.	Census
119	MP/N/SAT	Indian Giant Squirrel	Found only in this PA.		Pachmarhi	Personal estimate
	MP/N/SAT	Flying Squirrel	Found only in this PA.		Kamti	Personal estimate
120	MP/N/VAN	Tiger	Endangered	Stable	Van Vihar National Park.	
	MP/N/VAN	Lion	Endangered	Stable	Van Vihar National Park.	
	MP/N/VAN	Leopard	Threatened	Stable	Van Vihar National Park.	
121	MP/S/GAN	Leopard	It occupies the top position in the food chain and helps in maintaining ecological balance.	Increasing	Gandhisagar sanctuary.	Every year census is carried out.

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	MP/S/GAN	Crocodile		Unknown	Gandhisagar dam and its adjoining reservoir.	Personal observations.
	MP/S/GAN	Otter		Unknown	Submergence area.	Personal observations.
122	MP/S/NAR	Peacock	Cultural importance as well as national bird found abundantly in this P.A.	Increasing	Narsingarh	Survey and personal estimate.
123	MP/S/NAT	Gharial		Increasing	Throughout sanctuary.	Survey
	MP/S/NAT	Dolphin		Increasing	Down stream of the Chambal river.	Survey
	MP/S/NAT	Otter		Stable	Small area.	Survey
	MP/S/NAT	Indian Skimmer		Declining	Some islands.	
	MP/S/NAT	Sarus Crane		Declining	Certain areas.	
	MP/S/NAT	Black necked Stork		Declining	Small areas.	
	MP/S/NAT	Vultures		Declining	All over the sanctuary.	
	MP/S/NAT	Kestrel		Not known	Around the Chambal river.	
124	MP/S/NOR	Wolf (Canis lupus)	It is an excellent species to keep herbivore population under control.	Increasing	Mohli, Jhapan, Sarra and part of Noradehi and Singpur ranges	Survey, personal estimate.
125	MP/S/ORC	Turtle (Lissenys punctata)	Under schedule I of WLPA			
	MP/S/ORC	Turtle (Trionyx gangeticus)	Under schedule I of WLPA			
126	NAG/N/INT	Elephants	The largest mammal found in the PA	Declining	Intanki Range "A"	Census
	NAG/N/INT	Crocodile	Found only in this PA	Unknown	Kusumdisa river	Personal sighting
127	NAG/S/FAK	Blyth's Tragopan	Found only in this PA	Stable	Fakim Wildlife Sanctuary	Census
128	NAG/S/PUL	Barking deer	Hunted as game or for trophy	Decreasing	Core zone	Personal estimate
	NAG/S/PUL	Fox	Cultural importance	Decreasing	Whole sanctuary	
	NAG/S/PUL	Jungle cat		Decreasing	Whole sanctuary	
	NAG/S/PUL	Flying squirrel	Its population in the PA is fast decreasing		Whole sanctuary	
129	ORI/N+S/BHI	Salt water crocodile (Crocodylus porosus)	Found only in this PA	Stable	Kanika, Rajnagar, Chandbali	Census
130	ORI/S/BAD	Elephant	Cultural importance	Increasing	Badarma	Census
	ORI/S/BAD	Bison	Cultural importance	Declining	Badarma	Personal estimate
	ORI/S/BAD	Sambar	State animal	Declining	Badarma	Personal estimate
	ORI/S/BAD	Barking deer	Cultural importance	Declining	Badarma	Personal estimate
	ORI/S/BAD	Spotted deer	Cultural importance	Declining	Badarma	Personal estimate
131	ORI/S/BAI	Elephant			Banigocha Range	Census and sighting

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	ORI/S/BAI	Gaur	It is an Indicator of a healthy ecosystem.	Stable	Banigocha Range	Sighting
132	ORI/S/BAL	Black buck		Very rare	Balukhand Konark	Personal estimate
133	ORI/S/DEB	Chousingha-Four horned Antelope - (Tetracerus quadricornis)	Common in this PA,	Increasing	All over the PA	
134	ORI/S/HAD	Indian elephant(Elephas maximus)	Flagship species for conservation.	Declining	Entire Boula Reserve Forest	Survey, personal Estimate
135	ORI/S/KOT	Elephant	Not studied	Unknown	Belgarh and Kotagarh	Personal estimate
136	ORI/S/LAK	Indian elephant(Elephas maximus)	Cultural importance	Increasing	Chandragiri	Census
137	ORI/S/SATN	Malabar pied hornbill (Anthracoceros coronatus)	Found only in this PA, Source of medicine.	Declining	Along Riparian forest	Survey, personal estimate
	ORI/S/SATN	Gharial (Gauialis gangetius)	Found only in this Pa, hunted as game or for trophy	Declining	In Mahanadi river	Survey, personal estimate
	ORI/S/SATN	Mugger (Crocodylus palustris)	Found only in this PA, hunted as game or for trophy	Declining	In Mahanadi river	Survey, personal estimate
	ORI/S/SATN	Elephant (Elephas maximus)	Found only in this PA, other commercial value, hunted as game or for trophy	Stable	Pampasar, Purnakote	Survey, personal estimate
	ORI/S/SATN	Gayal (Bos gauros)	Found only in this PA, hunted as game or for trophy	Declining	Baghamunda, Purunakote	Survey, personal estimate
	ORI/S/SATN	Malayan giant squirrel (Ratufa bicolor)	Found only in this PA, other commercial value, hunted as game or for trophy	Declining	Purunakote, Katraga, Raigoda	Survey, personal estimate
138	ORI/S/SATS	Elephant	The seasonally migrate into the sanctuary		Kusanga, Chhamundia	Census and sighting report
	ORI/S/SATS	Gharial	They were released in river Mahanadi in the past	Not usually sighted	Kusanga, Chhamundia	Sighting
	ORI/S/SATS	Mugger	They are commonly seen in Mahanadi river	Increasing	Kusanga, Chhamundia	Frequently sighted
139	ORI/S/SIM	Black tiger (Panthera tigris)	Tiger with colour-aberration		Chahala, Upperbarakamara, Nawana	Direct sighting by the field staff
140	PUN/S/ABO	Black Buck	The Sanctuary is comprised entirely of Bishnoi villages who protect the Black Buck as a sacred animal	Increasing	Abohar	Survey
141	PUN/S/HAR	Salora Pigeon	Rare Migratory Bird	Stable	Near Nanak Sar Gurudwara	
	PUN/S/HAR	Black necked stork	Rare Migratory Bird	Stable	Pond Area Harike	

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	PUN/S/HAR	Slight night jar	Rare Migratory Bird	Stable	Pond Area Harike	
	PUN/S/HAR	Rufous vented prinia	Rare Migratory Bird	Stable	Downstream of Harike	
	PUN/S/HAR	Hog Deer				
142	RAJ/N/KEO	Siberian crane	Last population of central Siberian crane left in India	Declining- only 1 pair of cranes has been observed since 1997.	Keoladeo	Research
143	RAJ/S/JAM	Caracal (Felis caracal).	One of the rarest cat.	Declining.	Jamwa Ramgarh.	Census.
	RAJ/S/JAM	Peafowl (Pavo cristatus).	Cultural importance.	Declining.	Jamwa Ramgarh.	Census.
	RAJ/S/JAM	Wolf (Canis lupus).	Wild relative to domestic species.	Declining.	Jamwa Ramgarh.	Census.
144	RAJ/S/NAH	Pea fowl (Pavo cristatus).	Cultural value and importance.	Declining.	Nahargarh	Census.
	RAJ/S/NAH	Wolf (Canis lupus).	Wild relative to domestic supplies.	Declining.	Nahargarh	Census.
145	RAJ/S/PHU	Green pigeon	Found in relatively large number	Stable	Mamer, Panarwa, Kotra	Personal estimate
	RAJ/S/PHU	Flying squirrel	Found at very few places in the state	Declining	Mamer, Panarwa, Kotra	Personal estimate
146	RAJ/S/SIT	Flying squirrel (Bulopetes petauriota)	Found only in this PA	Increasing	Dhariyawad, Jakham	Personal estimate
147	RAJ/S/TAL	Black Buck.		Stable.	Tal chappar sanctuary range, Dungar garh.	Survey.
148	RAJ/S/TOD	Paradise flycatcher	Relegious significance	Unknown	Raoli range (Dudhalaswar Temple)	Personal estimate
149	SIK/N/KHA	Himalayan thar	Wild relation of domesticated species	Unknown	Yuksom, Dzongri	Research
	SIK/N/KHA	Black bear	Source of medicine	Declining		Research
	SIK/N/KHA	Musk deer	Source of medicine	Declining		Research
150	SIK/S/FAM	Leopard cat	Included in Schedule I of the Wildlife (Protection) Act, 1972			
	SIK/S/FAM	Marbled cat	Included in Schedule I of the Wildlife (Protection) Act, 1972			
151	SIK/S/KYON	Musk deer	Schedule I animal, hunted for its musk pod	Unknown	Kyongnosla	Personal estimate
	SIK/S/KYON	Leopard	Schedule I animal, hunted for its pelt	Unknown	Kyongnosla	Personal estimate
	SIK/S/KYON	Red panda	State animal of Sikkim	Unknown	Kyongnosla	Personal estimate
	SIK/S/KYON	Himalayan black bear	Hunted for its bile, has come into conflict with man in army areas	Unknown	Kyongnosla	Personal estimate

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	SIK/S/KYON	Blood pheasant	State bird of Sikkim	Unknown	Kyongnosla	Personal estimate
	SIK/S/KYON	Monal pheasant	Schedule I bird	Unknown	Kyongnosla	Personal estimate
152	SIK/S/MAE	Red Panda	State animal of Sikkim	Declining	Maenam	Personal estimate
153	SIK/S/SHIN	Red panda	State animal of Sikkim	Unknown		Personal estimate
	SIK/S/SHIN	Musk deer	Faces poaching	Unknown		Personal estimate
	SIK/S/SHIN	Snow leopard	Faces poaching	Unknown		Personal estimate
	SIK/S/SHIN	Blood pheasant	State bird of Sikkim	Unknown		Personal estimate
154	TN/N/GUI	Small Indian civet (<i>Viverricula indica</i>)	Rarely found	Stable	Guindy National Park, near polo ground	Personal estimate
	TN/N/GUL	Coral reef	OTH- found abundantly in the Gulf	Not known	All ranges except 'Ramnad	PE
	TN/N/GUL	Sea cow	Number of species of each found here is high		All ranges except 'Ramnad	PE
	TN/N/GUL	Sea turtle	Number of species of each found here is high		All ranges except 'Ramnad	PE
155	TN/N/IND	Indian G.G. Squirrel	Endemic to western ghats of TN & Kerala	Stable	Amaravati	Census
	TN/N/IND	Lion Tailed Macaque	Endemic to western ghats of TN & Kerala	Stable	Valparai, Ulandy, Manambolly, Pollachi	Census
	TN/N/IND	Nilgiri Tahr	Endemic state animal	Stable	All ranges	Census
	TN/N/IND	Great pied hornbill	Low density in old forest	Stable	All ranges other than Amaravathi	Census
156	TN/N/MUD	Asian elephants	Migrant/food base is more	Stable	All ranges	Research
	TN/N/MUD	Guar	Migrant/food base is more	Increase	All ranges	
157	TN/N/MUK	Tahr	Highly endangered	Stable		Survey & Personal estimate
158	TN/S/KARI	Ducks	Good Breeding grounds	Increasing		
159	TN/S/POIN	Black Buck	Highest population in TN	Stable	Koddikkarai	Survey
160	TN/S/PUL	Flamingo	Seasonal migrant	Stable		Survey
161	TN/S/VALL	Black Buck	Hunted as game	Increasing	Tirunelveli/Vallandir	By survey
162	TN/S/VED	Painted Stork	Seasonal habitat	Increasing	Sanctuary Range	Survey
	TN/S/VED	Grey Pelican	Seasonal habitat	Increasing	Sanctuary Range	Survey
163	TN/S/VELL	Snake bird				
164	TRI/S/GUM	Hoolock gibbon (<i>Hylobates hoolock</i>)	Highly endangered	Not known	Tirthmukh	Management plan, research carried out in the past
	TRI/S/GUM	Pig tailed macaque	Highly endangered	Not known	Tirthmukh	Management plan, research carried out in the past
	TRI/S/GUM	Stumptailed macaque	Highly endangered	Not known	Tirthmukh	Management plan, research carried out in the past

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	TRI/S/GUM	Capped langur	Highly endangered	Heavy population decline	Tirthmukh	Management plan, research carried out in the past
	TRI/S/GUM	Phayre's leaf monkey	Highly endangered	Not known	Tirthmukh	Management plan, research carried out in the past
	TRI/S/GUM	Slow loris	Highly endangered	Not known	Tirthmukh	Management plan, research carried out in the past
	TRI/S/GUM	Leopard	Highly endangered	Not known	Tirthmukh	Management plan, research carried out in the past
165	TRI/S/TRI	Gaur		Common	Tirthmukh	Management plan, research carried out in the past
	TRI/S/TRI	Hoolock gibbon		Occasional	Tirthmukh	Management plan, research carried out in the past
	TRI/S/TRI	Capped langur		Occasional	Tirthmukh	Management plan, research carried out in the past
	TRI/S/TRI	Phyre's leaf monkey		Common	Tirthmukh	Management plan, research carried out in the past
166	UP/S/CHA	Sloth bear		Stable	Chandra Prabha	Personal estimate
	UP/S/CHA	Four Horned Antelope (Chausinga)		Unknown	Chandra Prabha	Personal estimate.
167	UP/S/KAI	Black buck	Cultural importance , 'Increasing	Roberts ganj and Halia	Survey	
168	UP/S/KAT	Antelope cervicapra (Black buck)	Endangered ,Declining	Katarniaghat	Survey	
169	UP/S/MAH	Chinkara	Found in and around this PA. It has great acceptability among villagers.	Stable	Lalitpur	Personal estimate
170	UP/S/NAT	Dolphins		Increasing	Both ranges	Survey and personal estimate
	UP/S/NAT	Crocodile		Increasing	Both ranges	Survey and personal estimate
	UP/S/NAT	Fresh water turtles		Increasing	Both ranges	Survey and personal estimate
	UP/S/NAT	Otters		Increasing	Both ranges	Survey and personal estimate
	UP/S/NAT	Indian skimmer	Found only in this P	Increasing	Both ranges	Survey and personal estimate
	UP/S/NAT	Porcupine		Increasing	Both ranges	Survey and personal estimate
	UP/S/NAT	Hyena		Increasing	Both ranges	Survey and personal estimate
	UP/S/NAT	Wolf		Increasing	Both ranges	Survey and personal estimate
	UP/S/NAT	Pelican		Increasing	Both ranges	Survey and personal estimate
171	UP/S/PAT	Sarus Crane (Grus antigon)		Increasing	Patna Bird sanctuary	Census, management plan.
172	UP/S/RAN	Black buck	Found only in and around the PA	Increasing	Both ranges	Personal estimate

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	UP/S/RAN	Chinkara	Found only in and around the PA	Increasing	Both ranges	Personal estimate
173	UP/S/SAMN	Sarus crane		Increasing	Saman Bird Sanctuary	Survey and research
	UP/S/SAMN	Black Necked Stork		Stable	Saman Bird Sanctuary	Personal estimate
	UP/S/SAMN	Pelican		Stable	Saman Bird Sanctuary	Personal estimate.
	UP/S/SAMN	White Necked Stork		Stable	Saman Bird Sanctuary	Personal estimate.
	UP/S/SAMN	Painted stork		Stable	Saman Bird Sanctuary	Personal estimate
	UP/S/SAMN	Paintail Duck		Stable	Saman Bird Sanctuary	Personal estimate
	UP/S/SAMN	Geese		Stable	Saman Bird Sanctuary	Personal estimate
	UP/S/SAMN	Brahminy kite		Stable	Saman Bird Sanctuary	Personal estimate.
174	UP/S/SUH	Tiger	Found in this PA	Stable	All ranges	Census
175	UP/S/SURS	Black Necked Stork	Endangered		Sur Sarovar Bird Sanctuary	Census
176	UP/S/VIJ	Large Cormorant			Vijay Sagar Bird Sanctuary	Personal survey
	UP/S/VIJ	Darter			Vijay Sagar Bird Sanctuary	Personal survey
	UP/S/VIJ	Black Necked Stork			Vijay Sagar Bird Sanctuary	Personal survey
	UP/S/VIJ	White Ibis			Vijay Sagar Bird Sanctuary	Personal survey
	UP/S/VIJ	Red Crested Pochard			Vijay Sagar Bird Sanctuary	Personal survey
177	UTT/N/GAN	Musk deer	Other commercial value	Not known	Gangotri	Personal estimate
	UTT/N/GAN	Snow leopard	Hunted as game or for trophy.	Not known	Gangotri	Personal estimate
178	UTT/N+S/GOV	Snow leopard	Hunted as game or for trophy	Stable	Sankari	Personal estimate, census
	UTT/N+S/GOV	Brown bear	Source of medicine	Increasing	Sankri, Supin	Personal estimate, census
	UTT/N+S/GOV	Black bear	Source of medicine	Increasing	All ranges	Personal estimate, census
	UTT/N+S/GOV	Ghoral	Wild relative of domesticated species	Increasing	All ranges	Personal estimate, census
	UTT/N+S/GOV	Bharal	Wild relative of domesticated species	Increasing	Sankari, Supin	Personal estimate, census
	UTT/N+S/GOV	Musk deer	Source of medicine, other commercial value	Stable	All ranges	Personal estimate, census
179	UTT/S/ASK	Musk deer	Source of medicine, commercial value, hunted as game or for trophy.		Snow covered areas	Personal estimate
	UTT/S/ASK	Snow leopard				
	UTT/S/ASK	Himalayan Thar				
180	UTT/S/KED	Himalayan marten	Others	Unknown	Gopeshwer and Okhimath	Personal estimate
	UTT/S/KED	Himalayan mouse hare	Others	Unknown	Gopeshwer and Okhimath	Personal estimate
	UTT/S/KED	Koklas pheasants	Others	Unknown	Gopeshwer and Okhimath	
181	UTT/S/SON	Asian Elephant	Sonandi forms a critical part of the habitat of the North West Asian elephant population.	Increasing	Throughout the PA	Survey, personal estimate

Table 1.8: Faunal Species of Special Interest in the PA

Sno	PA code	Species	Significance	Status	Ranges	Source
	UTT/S/SON	Tiger	Along with Corbett National Park, Sonanadi harbours the second largest tiger population of the world	Increasing	Throughout the PA	Survey, personal estimate
	UTT/S/SON	Mahaseer				
182	WB/N/GOR	Great Indian one horned Rhinoceros	Found only in this PA(exp. Jaldapara in WB)	Increasing	Garumara south Range	Population estimation
183	WB/N/NEO	Red Panda (<i>Ailurus fulgens</i>)	Endangered species	Not estimated.	Upper Neora	Field survey and observation
	WB/N/NEO	Tiger (<i>Panthera tigris</i>)	Endangered species		Upper Neora and Lower Neora	Field survey and observation
	WB/N/NEO	Clouded leopard (<i>Neofelis nebulosa</i>)	Endangered species		Upper Neora	Tiger census and field survey
	WB/N/NEO	Leopard cat (<i>Panthera pardus</i>)	Endangered species		Upper Neora and Lower Neora	Tiger census, field survey
	WB/N/NEO	Fishing cat (<i>Felis viverrina</i>)	Endangered species		Upper Neora and Lower Neora	Tiger census
	WB/N/NEO	Marbled cat (<i>Felis marmorata</i>)	Endangered species		Upper Neora and Lower Neora	Tiger census
184	WB/N/SUN	Olive Ridley	Comes to Sundarban for breeding	Unknown	NP west	Personal estimate
185	WB/S/BET	Python	Schedule-I	Stable	Entire PA	Personal estimate
186	WB/S/CHA	Gaur	Good habitat for gaur	Increasing	Chapramari Beat	Population estimation

*Table 1.9: Deliberate Introduction of Fauna into
the PA*

Table 1.9: Deliberate Introduction of Fauna into the PA

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Year	Reason	Status	Ranges
1	AP/S/COR	NO	Yes	Saltwater Crocodiles (3 no.)	1988-89	To protect PA from Biotic interference	No existing	
2	ASS/N/ORR	NP *	Yes	Pigmy Hog (Sus salwanius)	6/7/1976		Unsuccessful	Orang
3	CHD/S/SUK		Yes	Spotted deer	1985	To introduce new species of fauna in the sanctuary area.	Population is increasing.	Kansal forest area
4	DEL/S/ASO	NP	Yes	Black buck (Antelope cervicapra)	1999	Reintroduction of species that once occurred in this area.	Not known	Asola
5	HAR/S/BHIN	NP	Yes	Weavils and mites	1999	To eradicate water hyacinth		Jhajjar
6	HP/S/PON	NO	Yes	Mirror Carp	1974-75	To increase fish production in the Pong Lake		
	HP/S/PON		Yes	Indian Major Carp	1974-75	To increase fish production in the Pong Lake		
7	KAR/S/SHA	NO	Yes	Spotted Deer	1994-95		Heavy population in children zoo at Shimoga	Kargal, Sanichowku
	KAR/S/SHA		Yes	Bison	1999-00		Heavy disturbs to the villagers near Sagen Town	Madensur
8	KER/N/ERA	NO	Yes	Rainbow trout	1880	Angling	Unknown	Waterbodies in the PA
	KER/N/ERA		Yes	Brown trout	1880	Angling	Unknown	Waterbodies in the PA
9	MAH/N/AND	NP	Yes	Marsh crocodiles(Mugger crocodylus palustris)	1977	Were naturally occurring in the past	Increasing	Tadoba, Moharli, Kolsa
10	MAH/N/PEN		Yes	Crocodile (17 no.)	1998-99	Since the reserve has big reservoirs, the crocodile habitat may be developed here.	Unknown	East Pench Range
11	MAH/N/SAN	YES	Yes	Tiger	1998	Education & tourism	Stable	Krishagiri Upwan Borih
	MAH/N/SAN		Yes	Lion	1972	Education & tourism	Increasing	Krishagiri Upwan Borih
	MAH/N/SAN		Yes	Giant Squirrel	1998	Spreading of species	Unknown	Sanjay Gandhi National Park
12	MAH/S/AMB		No	NO				
13	MAH/S/GYA		No	No				
14	MAH/S/KAL		No	No				
15	MAH/S/KAR		No	Nil				
16	MAH/S/MAL		No	No				
17	MAH/S/NAG		No	No				

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.9: Deliberate Introduction of Fauna into the PA

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Year	Reason	Status	Ranges
18	MAH/S/NAI		No	NO				
19	MAH/S/NAR		No	No				
20	MAH/S/PAI		No	No				
21	MAH/S/RAD		No	No				
22	MAH/S/SAG	NP	Yes	Cervus anicolour higer(Samber)	1980	Establishment in local area	Increasing	In deer park area
	MAH/S/SAG		Yes	Axis axis(Chital)	1980	Establishment in local area	Increasing	In deer park area
	MAH/S/SAG		Yes	Antelope cervicapra(Black buck)	1980	Establishment in local area	Increasing	In deer park area
23	MAH/S/TIP		No	No				
24	MAH/S/YED		No	No				
25	MP/N/VAN	NO	Yes	All the species are introduced.		Exhibit	Stable	
26	NAG/N/INT	NO	Yes	Peafowl	1985-86	Not known	Unknown	Intanki
			Yes					
27	ORI/N+S/BHI			Varanus salvator	1999	Request from the PCCF (WL), Karnataka, to release the reptile in its natural habitat		
28	ORI/S/DEB		Yes	Sloth Bears, Python (information taken from brief note on the PA)		These were caught in Sambalpur town and released in the PA.		
	ORI/S/DEB		Yes	Crocodile, Gharial (information taken from brief note on the PA)		Ten Gharial and three Crocodile have been released in the creek adjoining Hiraikund Reservoir from the Crocodile research station at Chourasimal with in the PA.		
29	PUN/S/BHU	NP	Yes	Antelope Cervicapra	1998	To relocate surplus stock.	Stable	Bhunerheri
30	PUN/S/BHU		Yes	Cervis unicolor	1998	To relocate surplus stock.	Stable	Bhunerheri
31	RAJ/S/JAI		No	NA				
32	RAJ/S/SAJJ		Yes	Sambar (Cervus unicolor)	1999	In order to repopulate the area.	Stable	Sajjangarh
33	SIK/N/KHA	NO	Yes	Dzo	1970	It is used as a pack animal	Increasing	Temperate to alpine zone
34	SIK/S/SHIN	NP	Yes	Brown trout	1978		Stable	Yumthang Chhu at Phunigi
35	TN/N/GUI		Yes	Spotted deer (Axis axis)	1940	Introduced by local Maharaja	Increasing	Guindy National Park
	TN/N/GUI		Yes	Albino black buck				
36	TN/S/KAN		No	Nil				
37	TN/S/KARI		No	N.A				
38	TN/S/KOO		No	N.A				

Table 1.9: Deliberate Introduction of Fauna into the PA

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Year	Reason	Status	Ranges
39	TN/S/MUD		No	Nil				
40	TN/S/MUK		No	Nil				
41	TN/S/POIN	NO	No	Jakal		Predator-prey equilibrium	Increasing	Kodikkarai
	TN/S/POIN		No	Chital			Increasing	
42	TN/S/UDA		No	Nil				
43	TN/S/VAD		No	Nil				
44	TN/S/VED		No	Nil				
45	TN/S/VELL		No	Nil				
46	TRI/S/TRI	NP	Yes	Spotted deer				Rajnagar
47	UP/S/CHA	YES	Yes	Asiatic lion (Panthera leo persica)	1957	To create an alternate free ranging population of Asiatic lions.	Lions have not been observed in the sanctuary after 1970.	Chandraprabha
	UP/S/CHA		Yes	Asiatic Lion (Panthera Leo persica)	1957	This was apart of the former range of Asiatic lions. Reintroduction was therefore considered appropriate.	Lions disappeared from the sanctuary after 1970.	Chandra Prabha
48	UTT/N/COR	NO	Yes	Crocodile	1994	Rehabilitation of the species which was on the verge of extinction.	Increasing	Sarpduli and Tourism range
	UTT/N/COR		Yes	Ghariyal	1904		Increasing	Sarpduli and Tourism range
49	WB/N/GOR		No	Nil				
50	WB/N/SUN		No	NA				
51	WB/S/BAL		No	None				
52	WB/S/BET	NP	Yes	Chital	1969	Aesthetic, To prepare stock for reintroduction.	Stable	Entire Sanctuary
53	WB/S/BIB	NP	Yes	Chital (Axis axis)	1964	To create deer park	Increasing	Bongaon Social Forestry Range
54	WB/S/HAL		No	NA				
55	WB/S/LOT		No	NA				
56	WB/S/RAI		No	NA				
57	WB/S/RAM	NO	Yes	Spotted deer (Axis axis)	From starting	To develop educational tourism	Increasing	Ramnabagan WildLife Sanctuary
	WB/S/RAM		Yes	Black Buck (Antelope carvicopus)	From starting	To develop educational tourism	Stable	Ramnabagan WildLife Sanctuary
	WB/S/RAM		Yes	Leopard (Panthera pardus)	1996	To develop educational tourism	Increasing	Ramnabagan WildLife Sanctuary
	WB/S/RAM		Yes	Pelican	1996	To develop educational tourism	Stable	Ramnabagan WildLife Sanctuary

Table 1.9: Deliberate Introduction of Fauna into the PA

Sno	PA code	Old data-1984-87	New Data 1998-03	Species	Year	Reason	Status	Ranges
	WB/S/RAM		Yes	Ajdtutant stork	1996	To develop educational tourism	Stable	Ramnabagan WildLife Sanctuary
	WB/S/RAM		Yes	Peacock	1996	To develop educational tourism	Stable	Ramnabagan WildLife Sanctuary
	WB/S/RAM		Yes	Various Birds	1996	To develop educational tourism	Declining	Ramnabagan WildLife Sanctuary
58	WB/S/SEN		No	No				

*Table 1.10: Accidental Introduction of Fauna
into the PA*

Table 1.10: Accidental Introduction of Fauna into the PA

Sno.	PA code	Accidental Introduction	Details of Accidental Introduction
1	A&N/N/SAD	No	
2	A&N/S/CUT	No	
3	A&N/S/INT	Yes	A private contractor, M/s P.C. Roy, brought elephants from the mainland to carry out timber extraction in Interview island in 1950. When they wound up their operations in the island, they left behind the elephants that they had brought. These have now become residents in the PA.
4	A&N/S/NAR	No	
5	A&N/S/NOR	No	
6	AP/N/KAS	No	
7	AP/N/MAH	No	
8	AP/N/MRU	No	
9	AP/N/VEN	No	
10	AP/S/COR	No	
11	AP/S/ETU	No	
12	AP/S/GUN	No	
13	AP/S/KAW	No	
14	AP/S/KOL	No	
15	AP/S/KOU	No	
16	AP/S/KRI	Yes	Prosopis juliflora invading the PA
17	AP/S/MAN	No	
18	AP/S/NEL	No	
19	AP/S/PAK	No	
20	AP/S/PAP	No	
21	AP/S/POC	No	
22	AP/S/PRA		
23	AP/S/PUL	No	
24	AP/S/SIW	No	
25	ARU/N/MOU	No	
26	ARU/N/NAM	No	
27	ARU/S/DER	No	
28	ARU/S/KAM	No	
29	ARU/S/MEH	No	
30	ARU/S/YOR	No	
31	ASS/N/DIB	Yes	During the second world war, the Japanese left their horses in this area. There are now approximately 79 feral horses in the national park
32	ASS/N/KAZ	No	
33	ASS/N/MAN	No	
34	ASS/N/NAME	No	
35	ASS/N/ORA	No	
36	ASS/S/BAR	No	
37	ASS/S/BUR	No	
38	ASS/S/DIP		

Table 1.10: Accidental Introduction of Fauna into the PA

Sno.	PA code	Accidental Introduction	Details of Accidental Introduction
39	ASS/S/EKAR	No	
40	ASS/S/GAR	No	
41	ASS/S/GIB	No	
42	ASS/S/KAR	No	
43	ASS/S/LAO	No	
44	ASS/S/NAMB	No	
45	ASS/S/PAN	No	
46	ASS/S/POB	No	
47	ASS/S/SON	No	
48	BIH/S/RAJ	No	
49	CHD/S/SUK	No	
50	CHT/N/IND	No	
51	CHT/N/KAN		
52	CHT/S/ACH	No	
53	CHT/S/BAR	No	
54	CHT/S/BHA	No	
55	CHT/S/GOM	No	
56	CHT/S/PAM	No	
57	CHT/S/SIT	No	
58	CHT/S/TAM	No	
59	CHT/S/UDA	No	
60	DEL/S/ASO	No	
61	GOA/S/BON	No	
62	GOA/S/CHO	No	
63	GUJ/N/BAN	No	
64	GUJ/S/PUR	No	
65	GUJ/S/RAT	No	
66	GUJ/S/WIL	No	
67	HAR/N/SUL	No	
68	HAR/S/ABU	No	
69	HAR/S/BHIN	No	
70	HAR/S/BIRB	No	
71	HAR/S/BIRS		
72	HAR/S/CHIL	No	
73	HAR/S/KAL		
74	HAR/S/KHA	No	
75	HAR/S/NAH	No	
76	HAR/S/SAR	No	
77	HP/N/GRE	No	
82	HP/S/DAR	No	
83	HP/S/DHA	No	
84	HP/S/GAM	No	
81	HP/S/KAI		
85	HP/S/KAL	No	
78	HP/S/KAN		
79	HP/S/KHO		
86	HP/S/KUG	No	
87	HP/S/LIP	No	

Table 1.10: Accidental Introduction of Fauna into the PA

Sno.	PA code	Accidental Introduction	Details of Accidental Introduction
80	HP/S/MAN		
88	HP/S/NAR	No	
89	HP/S/PON	No	
90	HP/S/RUP	No	
91	HP/S/SAN	No	
92	HP/S/SHI	No	
93	HP/S/TUN	No	
94	J&K/N/HEM	No	
95	J&K/N/KIS	No	
96	J&K/S/CHA	No	
97	J&K/S/KAR	Yes	The Bactrian camels that were use as pack animals along the silk trade route, became redundant and soon became feral.
98	J&K/S/OVE	No	
99	JHA/N/RAJ	No	
100	JHA/S/HAZ	No	
101	JHA/S/PAR	No	
102	JHA/S/UDH	No	
103	KAR/N/ANS	No	
104	KAR/N/BAND	No	
105	KAR/N/BANN	Yes	Star tortoise-seized in Bangalore and left in the PA in 2000.
106	KAR/N/KUD	No	
107	KAR/N/NAG	No	
108	KAR/S/ADI	No	
109	KAR/S/ARA	No	
110	KAR/S/ATT	No	
111	KAR/S/BHA	No	
112	KAR/S/BIL	No	
113	KAR/S/BRA		
114	KAR/S/DAN	No	
115	KAR/S/DOR		
116	KAR/S/GHA	No	
117	KAR/S/GUD		
118	KAR/S/KAV	No	
119	KAR/S/MEL	No	
120	KAR/S/MOO	No	
121	KAR/S/NUG	No	
122	KAR/S/PUS	No	
123	KAR/S/RANE	No	
124	KAR/S/RANG	No	
125	KAR/S/SHA		
126	KAR/S/SHE	No	
127	KAR/S/SOM	No	
128	KAR/S/TAL	No	
129	KER/N/ERA	No	
130	KER/S/ARA	No	

Table 1.10: Accidental Introduction of Fauna into the PA

Sno.	PA code	Accidental Introduction	Details of Accidental Introduction
131	KER/S/CHIN	No	
132	KER/S/WAY	No	
133	MAH/N/AND	No	
134	MAH/N/NAV	No	
135	MAH/N/PEN	No	
136	MAH/N/SAN	No	
137	MAH/S/AMB	No	
138	MAH/S/ANE	Yes	A total of 5 bears have migrated from the adjoining range forest to Aner Dam since the past 2-3 months (December 1999, January & February 2000).
139	MAH/S/BHA	No	
140	MAH/S/BHI	No	
141	MAH/S/BOR	No	
142	MAH/S/CHAN	No	
143	MAH/S/CHAP	No	
144	MAH/S/DEU	No	
145	MAH/S/GAU	No	
146	MAH/S/GRE	No	
147	MAH/S/GYA	No	
148	MAH/S/JAI	No	
149	MAH/S/KAL	No	
150	MAH/S/KAR	No	
151	MAH/S/KAT	No	
152	MAH/S/MAL	No	
153	MAH/S/MAY	No	
154	MAH/S/NAG	No	
155	MAH/S/NAI	No	
156	MAH/S/NAR	No	
157	MAH/S/PAI	No	
158	MAH/S/RAD	No	
159	MAH/S/SAG	No	
160	MAH/S/TIP	No	
161	MAH/S/WAN	No	
162	MAH/S/YAW	No	
163	MAH/S/YED	No	
164	MAN/N/KEI	No	
165	MAN/S/YAN		
166	MEG/N/BAL	No	
167	MEG/N/NOK	No	
168	MEG/S/BAG	No	
169	MEG/S/NON	No	
170	MEG/S/SIJ	No	
171	MIZ/N/MUR	No	
172	MIZ/N/PHA	No	
173	MIZ/S/DAM	No	
174	MIZ/S/KHA	No	
175	MIZ/S/LEN	No	

Table 1.10: Accidental Introduction of Fauna into the PA

Sno.	PA code	Accidental Introduction	Details of Accidental Introduction
176	MIZ/S/NGE	No	
177	MP/N/BAN	No	
179	MP/N/GHU	No	
180	MP/N/PEN	No	
181	MP/N/SAN	No	
182	MP/N/SAT	No	
183	MP/N/VAN	No	
184	MP/S/BAD	No	
178	MP/S/BAG	No	
185	MP/S/GAN	No	
187	MP/S/KAR	No	
188	MP/S/KHE	No	
189	MP/S/KUN	No	
190	MP/S/NAR	No	
191	MP/S/NAT	No	
192	MP/S/NOR	No	
193	MP/S/ORC	No	
194	MP/S/PEN	No	
195	MP/S/RAL	Yes	Captive animals from zoo were released in the area in the year 1999.
196	MP/S/SAI	No	
197	MP/S/SAR	No	
186	MP/S/SON		
198	NAG/N/INT	No	
199	NAG/S/FAK	No	
200	NAG/S/PUL	No	
201	NAG/S/RAN	No	
202	ORI/N+S/BHI	No	
203	ORI/S/BAD	No	
204	ORI/S/BAI	No	
205	ORI/S/BAL	No	
206	ORI/S/CHA	No	
207	ORI/S/CHI	No	
208	ORI/S/DEB	No	
209	ORI/S/HAD	No	
210	ORI/S/KAR	No	
211	ORI/S/KHA	No	
212	ORI/S/KOT	No	
213	ORI/S/KUL	No	
214	ORI/S/LAK	No	
215	ORI/S/SATN	No	
216	ORI/S/SATS	No	
217	ORI/S/SIM	No	
218	ORI/S/SUN	No	
219	PUN/S/ABO	No	
220	PUN/S/AIS	No	
221	PUN/S/BHA	No	
222	PUN/S/BHU	No	

Table 1.10: Accidental Introduction of Fauna into the PA

Sno.	PA code	Accidental Introduction	Details of Accidental Introduction
223	PUN/S/DOS	No	
224	PUN/S/GUR	No	
225	PUN/S/HAR	No	
226	PUN/S/MAH	No	
227	PUN/S/MOT	No	
228	PUN/S/TAK		
229	RAJ/N/DES	No	
230	RAJ/N/KEO	Yes	A tigress came to the park on its own and is residing in the park continuously since December 1999.
231	RAJ/S/BAS	No	
232	RAJ/S/BHA	No	
241	RAJ/S/JAI	No	
233	RAJ/S/JAM	No	
234	RAJ/S/KELA	No	
235	RAJ/S/KUM	No	
236	RAJ/S/NAH	No	
237	RAJ/S/PHU	No	
238	RAJ/S/SAJJ	No	
239	RAJ/S/SIT	No	
240	RAJ/S/TAL	No	
242	RAJ/S/TOD	No	
243	RAJ/S/VAN	No	
244	SIK/N/KHA	No	
245	SIK/S/BAR		
246	SIK/S/FAM	No	
247	SIK/S/KYON	Yes	Feral dogs abandoned by army jawans
248	SIK/S/MAE	No	
249	SIK/S/SHIN	No	
250	TN/N/GUI	Yes	1. Pangolin- caught in nearby town, 2. Star tortoise seized by customs and released in Guindy National Park.
251	TN/N/GUL		
252	TN/N/IND	No	
253	TN/N/MUD	No	
254	TN/N/MUK	No	
255	TN/S/CHI		
256	TN/S/GRI	No	
257	TN/S/KAN	No	
258	TN/S/KARA		
259	TN/S/KARI	No	
260	TN/S/KOO	No	
261	TN/S/MEL		
262	TN/S/POIN	No	
263	TN/S/PUL	No	
264	TN/S/UDA	No	
265	TN/S/VAD	No	
266	TN/S/VALL	No	
267	TN/S/VED	No	

Table 1.10: Accidental Introduction of Fauna into the PA

Sno.	PA code	Accidental Introduction	Details of Accidental Introduction
268	TN/S/VELL	No	
269	TN/S/VET	No	
270	TRI/S/GUM	No	
271	TRI/S/TRI	No	
286	UP/S/BAK		
272	UP/S/CHA	No	
273	UP/S/KAC	No	
274	UP/S/KAI	No	
275	UP/S/KAT	No	
285	UP/S/LAKH		
284	UP/S/MAH	No	
283	UP/S/NAT	No	
282	UP/S/NAW		
280	UP/S/OKH	No	
281	UP/S/PAR		
276	UP/S/PAT	No	
277	UP/S/RAN	No	
288	UP/S/SAM	No	
289	UP/S/SAMS		
290	UP/S/SAN		
287	UP/S/SOH		
291	UP/S/SUH		
278	UP/S/SURA	No	
279	UP/S/SURS	No	
292	UP/S/VIJ	No	
293	UTT/N/COR	No	
294	UTT/N/GAN	No	
295	UTT/N+S/GOV	No	NA
296	UTT/S/ASK	No	
297	UTT/S/BIN	No	
300	UTT/S/BINOG	No	
298	UTT/S/KED	No	
299	UTT/S/SON	No	
301	WB/N/GOR	No	
302	WB/N/NEO	No	
303	WB/N/SUN		
304	WB/S/BAL	No	
305	WB/S/BET	No	
306	WB/S/BIB	No	
307	WB/S/CHA	No	
308	WB/S/HAL	No	
309	WB/S/LOT	No	
310	WB/S/RAI	No	
311	WB/S/RAM	No	
312	WB/S/SEN		

Table 1.11: Fauna Breeding in the PA

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
1	A&N/N/SAD	NO	No									
2	A&N/S/CUT	NP*	Yes	Turtles	Annually since 1997	Depending on the clutch size	Wild	To release hatchlings back into the sea	No estimate	Annually since 1997	The hatchlings are released back into the sea from the PA	NA
3	A&N/S/INT	NO										
4	A&N/S/NAR		No									
5	A&N/S/NOR		No									
6	AP/N/KAS	NP	No									
7	AP/N/MAH	NP	No									
8	AP/N/MRU	NP										The park is only 2.80 km.sq. and fenced around. Hence inbreeding may take place
9	AP/N/VEN	NP	No									
10	AP/S/COR	NO	No									
11	AP/S/ETU	NO	No									
12	AP/S/GUN	NP	No									
13	AP/S/KAW	NO	Yes	Spotted deer	1984	20	wild	For rehabilitation and to enhance the population of herbivores and finally these will be released in the PA.	So far not released		Proposed to be released in PA soon.	No steps were taken to prevent inbreeding.
	AP/S/KAW			Chowsinga	1998	3						
	AP/S/KAW			Neelgai	1998	4						
14	AP/S/KOL	NO	No									
15	AP/S/KOU	NP										
16	AP/S/KRI	NP	No									
17	AP/S/MAN	NO	No									
18	AP/S/NEL	NO										
19	AP/S/PAK	YES	No									
20	AP/S/PAP	NO										
21	AP/S/POC	YES	Yes	Nilgai	1997	2	Zoo	Still kept in captivity				
	AP/S/POC			Spotted Deer - Axis Axis	1992	9	Zoo	Still kept in captivity				
	AP/S/POC			Black Buck	1997	2	Zoo	Still kept in captivity				
	AP/S/POC			Four horned antelope	1998	1	Wild	Still kept in captivity				

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
22	AP/S/PRA	NO										
23	AP/S/PUL	NO	No									
24	AP/S/SIW	NO	NA									As the area is not confined for the animals, hence the inbreeding does not occur.
25	ARU/N/MOU	NP										
26	ARU/N/NAM	NO	No									NA
27	ARU/S/DER	NO	No									NA
28	ARU/S/KAM	NP										
29	ARU/S/MEH	NO	Yes	Hyspid Hare	1997	50	Zoo	By natural mating	35	1998	Outside PA	
	ARU/S/MEH			Sambar	1996	2	Zoo	By natural mating	2	1998	Inside PA	
	ARU/S/MEH			Presbytis Spp. (Langur)	1998	6	Zoo	By natural mating	6	1999	Inside PA	
30	ARU/S/YOR	NP	No									
31	ASS/N/DIB	NP	No									
32	ASS/N/KAZ	NP	No									
33	ASS/N/MAN	NP	Yes	Pigmy Hog								
34	ASS/N/NAME		No									
35	ASS/N/ORA	NP	No									
36	ASS/S/BAR	NP	No									
37	ASS/S/BUR		No									
38	ASS/S/DIP	NP										
39	ASS/S/EKAR		No									Nil
40	ASS/S/GAR		No									
41	ASS/S/GIB	NP	No									
42	ASS/S/KAR		No									
43	ASS/S/LAO	NP	No									
44	ASS/S/NAMB		No									Nil
45	ASS/S/PAN	NP	No									
46	ASS/S/POB	NP	No									
47	ASS/S/SON	NP	No									
48	BIH/S/RAJ	NO										
49	CHD/S/SUK	YES	Yes	Spotted deer			Zoo	To release in the sanctuary.	18	1989 to 2000	Kansal forest area	The animals are kept in separate enclosures.
	CHD/S/SUK			Black buck	1999		Wild	To release in the sanctuary.	None		Kansal forest area	
50	CHT/N/IND	NO	No									
51	CHT/N/KAN	YES	No									

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
52	CHT/S/ACH	NO										
53	CHT/S/BAR	NO	No									
54	CHT/S/BHA	NO	No									
55	CHT/S/GOM		No									
56	CHT/S/PAM	NO	No									
57	CHT/S/SIT	NO	No									
58	CHT/S/TAM	NO	No									
59	CHT/S/UDA	NO	No									
60	DEL/S/ASO	NP	No									
61	GOA/S/BON		No									None
62	GOA/S/CHO	NP	No									
63	GUJ/N/BAN	NO	No									
64	GUJ/S/PUR	NP	No									
65	GUJ/S/RAT		No	Nil								
66	GUJ/S/WIL	NP	No									
67	HAR/N/SUL	NO	No									
68	HAR/S/ABU	NP	Yes	Bonnet macaque			Couple is kept in captivity					No steps are taken
	HAR/S/ABU			Indian fox	1998	1	Zoo					
69	HAR/S/BHIN	NP	No									
70	HAR/S/BIRB	NP										
71	HAR/S/BIRS	NP										
72	HAR/S/CHIL	NP	No									
73	HAR/S/KAL	NP										
74	HAR/S/KHA	NP	No									
75	HAR/S/NAH	NP										
76	HAR/S/SAR	NP										
77	HP/N/GRE	NO										
78	HP/S/DAR	NO	No									
79	HP/S/DHA	NP	No									
80	HP/S/GAM	NO	No									
81	HP/S/KAI		No									
82	HP/S/KAL	NO	No									
83	HP/S/KAN		No									
84	HP/S/KHO		No									
85	HP/S/KUG	NO	No									
86	HP/S/LIP	NO	No									
87	HP/S/MAN		No									
88	HP/S/NAR	NO	No									
89	HP/S/PON	NO	No									

Table 1.11: Fauna Breeding in the PA

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		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
90	HP/S/RUP	NO	No									
91	HP/S/SAN	NP	No									
92	HP/S/SHI	NO	No									
93	HP/S/TUN	NO	No									
94	J&K/N/HEM		No									
95	J&K/N/KIS	NO	No									
96	J&K/S/CHA		No									
97	J&K/S/KAR		No									N.A.
98	J&K/S/OVE	NO	No									
99	JHA/N/RAJ	NP	No									
100	JHA/S/HAZ	NO	Yes	Chital and Sambar	1994-99	6	Wild	To increase their number as they had become a rarity in the PA				NA
101	JHA/S/PAR	NP										
102	JHA/S/UDH	NP	No									
103	KAR/N/ANS	NP	No									
104	KAR/N/BAND	NP	No									
105	KAR/N/BANN		Yes	Tiger panthera tigris	2000	2	Safari	Accidental making				Captive animals are not allowed to mate when the female is seen in heat (oestrus)
	KAR/N/BANN		Yes	Elephant	1999	1	Picnic corner					
106	KAR/N/KUD	NP	No									
107	KAR/N/NAG	NP	No									
108	KAR/S/ADI	NO										
109	KAR/S/ARA	NP										
110	KAR/S/ATT		No									N.A.
111	KAR/S/BHA	NO	No									
112	KAR/S/BIL		No									
113	KAR/S/BRA	NO										
114	KAR/S/DAN	NO										
115	KAR/S/DOR	NP										
116	KAR/S/GHA	NO	No									
117	KAR/S/GUD	NP										
118	KAR/S/KAV	NP										
119	KAR/S/MEL	NO	No									
120	KAR/S/MOO	NO	No									
121	KAR/S/NUG	NO	No									
122	KAR/S/PUS	NP	No									

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
123	KAR/S/RANE	NO	No									
124	KAR/S/RANG	NO										
125	KAR/S/SHA	NO										
126	KAR/S/SHE	NO	Yes	Tiger - Panthera tigris	1991	2	Wild		Not released			Step are being taken to exchange animals with different Zoos and Safaris in the country
	KAR/S/SHE			Tiger - Panthera tigris	1993	1	Safari (Safari is the location of captive breeding)		Not released			
	KAR/S/SHE			Tiger - Panthera tigris	1995	3	Safari		Not released			
	KAR/S/SHE			Tiger - Panthera tigris	1997	4	Safari		Not released			
	KAR/S/SHE			Tiger - Panthera tigris	1998	3	Safari		Not released			
	KAR/S/SHE			Lion	1996	2	Safari		Not released			
	KAR/S/SHE			Lion	1993 & 95	1 & 1	Safari		Not released			
127	KAR/S/SOM	NO	No									No steps have taken so far
128	KAR/S/TAL	NP	No									
129	KER/N/ERA	NP	No									
130	KER/S/ARA		No									NA
131	KER/S/CHIN	NO	No									
132	KER/S/WAY	NO	No									Steps have been taken to facilitate geographical connectivity between this sanctuary and other neighbouring areas to ensure that animals have available to them, as large an area as is possible
133	MAH/N/AND	NP	Yes	Marsh Crocodile	1977	434	Wild(from GM)	Introduction and rearing them	206	1984 to1996	In P.A.	
134	MAH/N/NAV	NP	No									
135	MAH/N/PEN	NO	No									
136	MAH/N/SAN	NO	No									
137	MAH/S/AMB	NP										
138	MAH/S/ANE	NP	No									
139	MAH/S/BHA	NP										

Table 1.11: Fauna Breeding in the PA

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		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
140	MAH/S/BHI		No									
141	MAH/S/BOR	YES	No									
142	MAH/S/CHAN											
143	MAH/S/CHAP	NP										
144	MAH/S/DEU		No									
145	MAH/S/GAU	NP	No									
146	MAH/S/GRE		No									
147	MAH/S/GYA	NP	No									
148	MAH/S/JAI	NP	No									
149	MAH/S/KAL	NO	No									
150	MAH/S/KAR	NO	No									
151	MAH/S/KAT	NP	No									
152	MAH/S/MAL	NO	No									
153	MAH/S/MAY		No									
154	MAH/S/NAG	NO	No									
155	MAH/S/NAI	NP	No									
156	MAH/S/NAR	NP	No									
157	MAH/S/PAI	NP										
158	MAH/S/RAD	NO	No									
159	MAH/S/SAG	NP	Yes	Cervus anicolor niger(Sambar)	1980-89	8	Zoo	Establishment in local area	17	1989	In the whole protected area	No
	MAH/S/SAG			Axis axis(Chital)	1980-89	15	Zoo	Establishmen in local area	50	1989	In the whole protected area	No
	MAH/S/SAG			Antelope cervicapra(Black buck)	1980-89	12	Zoo	Establishment in local area	46	1989	In the whole protected area	No
	MAH/S/SAG			Muntiacus muntjack(Bhekar)	1980-89	3	Zoo	Establishment in local area		1989	In the whole protected area	No
160	MAH/S/TIP	NP	No									
161	MAH/S/WAN	NP	No									
162	MAH/S/YAW	NO	No									
163	MAH/S/YED	NP	No									
164	MAN/N/KEI	NO	No									N.A., Not so far
165	MAN/S/YAN											
166	MEG/N/BAL	NP	Yes	Indian elephant	1982	1	Seizure	Pending courts verdict				There is a proposal to acquire corridor for increasing the network of PA's and to connect other PA's through corridors

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167	MEG/N/NOK	NP	No									
168	MEG/S/BAG	NP										
169	MEG/S/NON	NO	No									
170	MEG/S/SIJ	NO	No									
171	MIZ/N/MUR	NP										N.A.
172	MIZ/N/PHA	NP	No									N.A.
173	MIZ/S/DAM	NO	No									N.A.
174	MIZ/S/KHA	NP	No									N.A.
175	MIZ/S/LEN	NP	No									N.A.
176	MIZ/S/NGE	NP	No									N.A.
177	MP/N/BAN	NO	No									N.A.
178	MP/N/GHU	NP	No	N.A.								
179	MP/N/PEN	NO	No									N.A.
180	MP/N/SAT	NO	No									
181	MP/N/VAN	NO	Yes	Tiger, Leopard, Lion, Spotted deer, Black buck, Sambar, Neelgai.								Breeding is done as per CZA guidelines.
182	MP/S/BAD	NO	No									
183	MP/S/BAG	NO	No									
184	MP/S/GAN	NO	No									N.A.
185	MP/S/KAR	NO	No									
186	MP/S/KHE	NO	No	N.A.								N.A.
187	MP/S/KUN	NP	No									
188	MP/S/NAR	NO	No	N.A.								
189	MP/S/NAT	YES	No									
190	MP/S/NOR	NP	No	Nil								
191	MP/S/ORC		No									Nil
192	MP/S/PEN	NO	No									N.A.
193	MP/S/RAL	NO	Yes	Black buck	1999	3	Zoo			1999		N.A.
	MP/S/RAL			Neelgai (Blue bull)	2000	2	Zoo			1999		
	MP/S/RAL			Chital						1999		
194	MP/S/SAI	NO	No	N.A.								N.A.
195	MP/S/SAN	NO	No	N.A.								None
196	MP/S/SAR	NP	No	N.A.								N.A.
197	MP/S/SON											
198	NAG/N/INT	NO										
199	NAG/S/FAK	NP	No									
200	NAG/S/PUL	NP	No									
201	NAG/S/RAN	NP										

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
202	ORI/N+S/BHI		Yes	Salt water crocodile (<i>Crocodylus porosus</i>)	1975		Wild	To rebuild natural population quickly and to promote captive breeding.				
203	ORI/S/BAD	NP	No									
204	ORI/S/BAI	NO	No									
205	ORI/S/BAL	NP	No									
206	ORI/S/CHA	NO	No									
207	ORI/S/CHI	NP	Yes	Indian purple moorhen	Every year	Not counted	Wild		All	Every year	Sanctuary	
208	ORI/S/DEB	NP	No									
209	ORI/S/HAD	NO	No									
210	ORI/S/KAR		No									No
211	ORI/S/KHA	NP	No									
212	ORI/S/KOT	NP	No									
213	ORI/S/KUL		No									
214	ORI/S/LAK	NP	No									
215	ORI/S/SATN		Yes	Gharial (<i>Gavialis gangeticus</i>)	1975		Gandak river , Bihar, Nepal	Captive breeding (eggs were collected and hatched and released) and release to restock natural population in Mahanadi	787	1977 onwards	In Mahanadi river, Tikarpada, Majhipada, Sunakhania, Kumarai, Bahali, Katranga ghat.	Does not arise as no male gharial is available in nature in Mahanadi.
	ORI/S/SATN		Yes	Mugger (<i>Crocodylus palustris</i>)	1975		Gandak river , Bihar, Nepal	Captive breeding (eggs were collected and hatched and released) and release to restock natural population in Mahanadi	284		In Mahanadi river, Tikarpada, Majhipada, Sunakhania, Kumarai, Bahali, Katranga ghat.	
216	ORI/S/SATS		No									None

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217	ORI/S/SIM		No									NA, as a part of crocodile conservation programme of state government alongwith government of India/FAO/UNDP, a mugger crocodile (Crocodylus palustris) breeding centre exists at Ramatirtha under PA administration. 'Captive reared muggers from this centre are regularly released in the PA for rebuilding the population.
218	ORI/S/SUN	NP	No									
219	PUN/S/ABO	NP	No									
220	PUN/S/AIS	NP	No	N.A.								N.A.
221	PUN/S/BHA	NP	No	N.A.								N.A.
222	PUN/S/BHU	NP	No	N.A.								
223	PUN/S/DOS	NP	No	N.A.								N.A.
224	PUN/S/GUR	NP	No	N.A.								N.A.
225	PUN/S/HAR	NP	No									
226	PUN/S/MAH	NP	No									N.A.
227	PUN/S/MOT	NP	No									N.A.
228	PUN/S/TAK	NP										N.A.
229	RAJ/N/DES	NP	No									
230	RAJ/N/KEO		No									Nil
231	RAJ/S/BAS		Nil									Nil
232	RAJ/S/BHA		No									No
233	RAJ/S/JAI		No									NA
234	RAJ/S/JAM	NO	No									
235	RAJ/S/KELA		No									NA
236	RAJ/S/KUM		No									NA
237	RAJ/S/NAH	NO	No									
238	RAJ/S/PHU											
239	RAJ/S/SAJJ		No									Nil
240	RAJ/S/SIT		Nil									NA
241	RAJ/S/TAL	NO	No									

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
242	RAJ/S/TOD		No									NA
243	RAJ/S/VAN		No									
244	SIK/N/KHA	YES	No									
245	SIK/S/BAR	NP										
246	SIK/S/FAB											
247	SIK/S/KYON	NP	No									
248	SIK/S/MAE		No									NA
249	SIK/S/SHIN	NP	No									
250												
	TN/N/GUI		Yes	Albino black buck				Not known	1			To avoid inbreeding the IIT gate was opened for the animals to go freely from one area to the other.
	TN/N/GUL	NP	Yes									Sea Turtle - eggs laid were bred
251												
252	TN/N/IND	NP	Yes	Crocodile mohar	Since 1980	Approx 1000	Rivers	Dut to decrease in population in one river only 1970s	300	1980-2000	Within the PA area of Amaravati & Chinnar rivers	There is constant shifting of elephants among the different camps and so is the case with crocodile in different enclosures
	TN/N/IND	NP		Elephant	Since 1955	approx 30	Wild and captive	For a variety of tasks				
	TN/N/MUD	NP	Yes	Elephant		28	Wild	Timber extraction an tourism				
253												
254	TN/N/MUK	NP	No									
255	TN/S/CHI	NP										
256	TN/S/GRI	NP	No									
257	TN/S/KAN	NP	No									
258	TN/S/KARA	NP										
259	TN/S/KARI	NP	No									
260	TN/S/KOO	NP	No									
261	TN/S/MEL	NP										
262	TN/S/POIN	NO	No									
263	TN/S/PUL	NO	No									
264	TN/S/UDA	NP	No									
265	TN/S/VAD	NP	No									
	TN/S/VAD		Nil									
266	TN/S/VALL	NP										
267	TN/S/VED	NO	No									

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
268	TN/S/VELL	NP	No									
269	TN/S/VET	NP	No									
270	TRI/S/GUM	NP	No									
271	TRI/S/TRI	NP										
272	UP/S/BAK											
273	UP/S/CHA	NO	NA									NA
274	UP/S/KAC		No									NA
275	UP/S/KAI		No									
276	UP/S/KAT		Project for blackbuck and cheetal breeding is being prepared									
277	UP/S/LAK											
278	UP/S/MAH		No									
279	UP/S/NAT		No									
280	UP/S/NAW											
281	UP/S/OKH		No									
282	UP/S/PAR		No									
283	UP/S/PAT		No									
284	UP/S/RAN		No									
285	UP/S/SAMN		No									NA
286	UP/S/SAMS											
287	UP/S/SAN											
288	UP/S/SOH		No									
289	UP/S/SUH		No									
290	UP/S/SURA		No									NA
291	UP/S/SURS		No									NA
292	UP/S/VIJ		No									NA
293	UTT/N/COR	NO	No									
294	UTT/N/GAN		No									NA
295	UTT/N+S/GOV		No									NA
296	UTT/S/ASK		No									
297	UTT/S/BIN	NP	No									
298	UTT/S/BINO		No									

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
299	UTT/S/KED	YES	Yes	Musk deer	1982-83 to till date.	42	Wild	Endangered animal. Dwindling population. Reintroduction into the sanctuary.				1.The lowest inbreeding co-efficient animals are allowed to mate. 2. There is a plan to exchange the animals with Musk Deer research centre, Ranikhet 3. One individual has been captured from the wild and has been introduced in the centre.
300	UTT/S/SON											
301	WB/N/GOR	NP	No									Introduction of rhinoceros from Kaziranga, Assam.
	WB/N/NEO		No									NA
303	WB/N/SUN		Page missing									
304	WB/S/BAL	YES	No									Spotted deer confind in about 80 hectare area. Breeding is inevitable.
305	WB/S/BET	NO	Yes	Chital (Axis axis)	Since 1969		Zoo	As a stock for reintroduction elsewhere.	72	1991to1998	North Bengal, Bankura	Original stock of Chital were from the Alipur Zoo (Calcutta) and Nandan Kanan Zoo (Orrisa)
	WB/S/BIB	NO	No									Does not arise
307	WB/S/CHA		No									Not applicable
308	WB/S/HAL	NO	No									
309	WB/S/LOT	NO	No									NA
310	WB/S/RAI	NO	No									
311	WB/S/RAM	YES	Yes	Deer 42-48 nos.	1996-97	06	Natural	Due to adequate natural and supplied food, primary and security in the P.A.			Protected high forest under Burdwan range.	Does not arise

Table 1.11: Fauna Breeding in the PA

Sno	PA code	Have animals been bred in captivity		New Data 1998-03								
		Old data-1984-87	New Data 1998-03	Species bred in captivity	Years when bred	Numbers bred	Breeding source	Reason for captive breeding	Numbers released in the wild	Years when released	Location in PA	Steps taken to ensure that no inbreeding takes place
	WB/S/RAM			Deer 48-58 nos.	1997-98	10	Natural	Due to adequate natural and supplied food, primary and security in the P.A.			Protected high forest under Burdwan range.	
	WB/S/RAM			Deer 38-59 nos.	1998-99	01	Natural	Due to adequate natural and supplied food, primary and security in the P.A.			Protected high forest under Burdwan range.	
312	WB/S/SEN	NP		None								

*Table 1.12: Floral Species of Special Interest in the
PA*

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
1	A&N/N/SAD		Yes	Garjan (Dipterocarpus castatus)	The height of the trees is hardly 3-4 metres and BHG is 57 cm or less than that at the summit	Increasing	Kalara	Survey	
2	A&N/S/CUT	NP *	Yes	Poon (callophy humsoulatri and callophy inophyllum)	Protects the coast from erosion	Declining	Found in the the buffer of the PA	Personal estimate	
3	A&N/S/INT	NO	Yes	Burmese cane	Other commercial value			KFRI	
4	AP/N/VEN	NP	Yes	Cycuss Beddomei	Found only in this PA	Unknown	Tirupati, Chamala and Balapalli	Personal Estimate	
5	AP/N/VEN		Yes	Pterocarpus Santalines	Foreign export, Medicinal value	Unknown	Tirupati, Chamala, Balapalli	Personal Estimate	
6	AP/S/GUN	NP	Yes	Oryza sativa (Rice)	Wild relative of cultivated plant	stable	GBM	Botanical survey	
	AP/S/GUN			Oryza Granulata (Rice)	Wild relative of cultivated plant	stable	GBM	Botanical survey	
	AP/S/GUN			Oryza malma puzhalsis (rice)	Wild relative of cultivated plant	stable	GBM	Botanical survey	
	AP/S/GUN			Athyrium hohanacterianum (Fern)	Found only in this PA	stable	GBM	Botanical survey	
	AP/S/GUN			Pueraria tuberosa	Found only in this PA	stable	GBM	Botanical survey	
	AP/S/GUN			Naravelia zeylancia	Found only in this PA	stable	GBM	Botanical survey	
7	AP/S/KAW	NO	Yes	Japsi stercula urens	Its gum is extracted by the local villages.	Declining	Jammaram,	Personal estimate	
	AP/S/KAW			Bambool and Teak	Being used as MFP and timber	Increasing	Indampally, Tadlapet, Birsai pet	Personal estimate	
8	AP/S/KOL	NO	Yes	Phramites karka tin	Other commercial value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Abutilon Asiaticum, Acalypha Indica	Medicinal value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Achyranthus Aspera	Medicinal value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Aerva lanata	Medicinal value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Azadirachta Indica	Medicinal value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Boerhavia diffusa, Calotropis Giantea, Cassia occidentalis, Centalla asiatica	Medicinal value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Coccinia Grandis, Cretiva adamsoni, Croton bonplandianum, Cynodon dactylon	Medicinal value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Eclipta albe, Datura innoxia, Leotadenia reticulata, Nelumbium sp., Leucas aspera	Medicinal value	Declining	Eluru	Personal estimate	

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	AP/S/KOL			Nymphoea nouchali, Peroullaria daemia, Phyllanthus nodiflora, Phyllanthus asperulatus	Medicinal value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Tephrosea purpurea, Withemia somnifera, Traquia cannabina, Sida acuta	Medicinal value	Declining	Eluru	Personal estimate	
	AP/S/KOL			Kikkisa	Commercial value	Increasing	Eluru	Personal estimate	
9	AP/S/MAN	YES	Yes	Ipomea	Not used	Abundant	Manjira	Personal estimate	
10	AP/S/PAK							At present Botanical survey is in progress. Medicinal plant survey is also in progress.	
11	AP/S/PAP	NO	Yes	Racha, Yerrakara	Other commercial value	No change	Rampachodavaram, ???	Personal estimate	
12	AP/S/PRA	NO	Yes	Strichnons nuxvomica (Visha musti in Telugu)	It is medicinal plant, advised to be used to cure arthritis joint pains.	Declining	Chennur, Nilwai	Survey and personal estimate	
13	AP/S/SIW	NO	Yes	Strichnous nux vomica	Oil obtained from seeds will be used as pain killer, Rheumatoid pains etc	Declining	Mamcherial	Personal estimate	
14	ARU/N/MOU	NP	Yes	Taxus baccata	Medicinal value	Stable	Mouling peak	Field observation	
	ARU/N/MOU			Bulbophyllum	Rare orchid species. It is a new record for this area.	Stable	Ramsing area	Orchid station, Jengging.	
15	ARU/N/NAM	NO	Yes	Blue Vanda	Rare	Unknown	All the ranges	BSI	
	ARU/N/NAM			Mishmi Teeta	Medicinal		Namdapha Wildlife Range	BSI	
16	ARU/S/DER	NP	Yes	Kydia glabrescena, Talamna hodgsonii, Dipteris wallichii, Tacca leavis	These plants are endemic to the north eastern region	Unknown	All the ranges	State Forest Research Institute, Itanagar	
17	ARU/S/MEH		Yes	Coptis Mismi Teeta	Medicinal value	Declining	Mehao Wildlife Range	Personal estimate	
	ARU/S/MEH			Taxus Bacata	Commercial value	Declining	Mehao Wildlife Range	Personal estimate	
	ARU/S/MEH			Black Ginger	Commercial value	Declining	Mehao Wildlife Range	Personal estimate	
18	ARU/S/YOR	NP	Yes	Coptis Teeta (Mishmi teeta)	Medicinal value	Unknown	North-Western Ranges	Personal estimate	
19	ASS/N/DIB	NP	Yes	Salix tetrosperma	Used in the manufacture of sports goods such as hockey sticks and cricket bats	Stable	Guijan and Saikhowa	Personal estimate	

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Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	ASS/N/DIB			Aredes	Making sports goods	Stable	Guijan and Saikhowa	Personal estimate	
	ASS/N/DIB			Multifloram	Making sports goods	Stable	Guijan and Saikhowa	Personal estimate	
	ASS/N/DIB			Dendrobium spp.	Making sports goods	Stable	Guijan and Saikhowa	Personal estimate	
	ASS/N/DIB			Rinchostylis	Making sports goods	Stable	Guijan and Saikhowa	Personal estimate	
	ASS/N/DIB			Folidata articulata	Making sports goods	Stable	Guijan and Saikhowa	Personal estimate	
	ASS/N/DIB			Folidata ampricata, Cymbidium spp.	Making sports goods	Stable	Guijan and Saikhowa		
20	ASS/N/KAZ	NP	Yes	Sarpagandha (Rauwolfia serpentina)	Medicinal value	Unknown	Open tree forests in all the ranges	Personal estimate	
	ASS/N/KAZ			Baska (Adhatoda basica. L)	Medicinal value	Unknown	Fringe areas of forests in all the ranges	Personal estimate	
	ASS/N/KAZ			Gnetum (Gnetum montanum. L)		Unknown	All the ranges	Personal estimate	
21	ASS/S/BAR	Teak (Tectona grandis)	Yes	Other commercial value	Declining			Personal estimate	
	ASS/S/BAR	Gamari (Gmelina arborea)		Other commercial value	Declining			Personal estimate	
22	ASS/S/EKAR								Detailed surveys in this regard have not been carried out.
23	ASS/S/GAR								Information not available
24	ASS/S/NAMB								Detailed surveys in this regard have not been carried out.
25	ASS/S/SON	NP	Yes	Bohera, Silikha	Food	Stable	Dhekiajuli and Central range	Personal estimate	
	ASS/S/SON			Bonsum ontenga	Used as food and for timber	Stable	Dhekiajuli and Central range	Personal estimate	
	ASS/S/SON			Phoebe goalpovensis	Used as food and for timber	Stable	Dhekiajuli and Central range	Personal estimate	
	ASS/S/SON			Bola (Morus laevigata)	Used as food and for timber	Stable	Dhekiajuli and central range	Personal estimate	
	ASS/S/SON			Titasopa (Michelia champaca)	Used as food and for timber	Stable	Dhekiajuli and Central range	Personal estimate	
	ASS/S/SON			Nahor (Mesua ferrea)	Used as food and for timber	Stable	Dhekiajuli and Central range	Personal estimate	
	ASS/S/SON			Mekahi (Phoebe)	Used by birds for nesting	Stable	Dhekiajuli and Central range	Personal estimate	
	ASS/S/SON			Ajar, Urium	Used by birds for roosting	Stable	Dhekiajuli and Central range	Personal estimate	

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Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	ASS/S/SON			Bhelan	Used by birds for nesting	Stable	Dhekiajuli and Central range	Personal estimate	
	ASS/S/SON			Cane, Bamboo	Food	Stable	Dhekiajuli and Central range	Personal estimate	
26	BIH/S/RAJ		Yes	Hibiscus inicranthis	Medicinal	Stable	Rajgir	Personal estimate	
27	CHD/S/SUK		Yes	Khair (Acacia Catechu)	Other commercial value	Decline	Kandal and Nepli	Personal estimate	
	CHD/S/SUK			Shishaun (Dalbergia sissoo)	Other commercial value	Stable	Kandal and Nepli	Personal estimate	
28	CHT/N/KAN	YES	Yes	Albizia ordoratissima (locally called "Kiding" in Hindi)	Localised distribution	Stable	Kotamsar	Survey/Research	
29	CHT/S/TAM		Yes	Madhuca indica	Commercial Value	Increasing	Game Range Tamor Pingla	Personal Estimate	
	CHT/S/TAM			Helicterea isora	Medicinal Value	Stable	Game Range Tamor Pingla	Personal Estimate	
	CHT/S/TAM			Embelia	Medicinal value	Stable	Game Range Tamor Pingla	Personal Estimate	
	CHT/S/TAM			Andrographis paniculata	Medicinal value	Declining	Game Range Tamor Pingla	Personal Estimate	
	CHT/S/TAM			Asparagus rocemusos	Medicinal value	Declining	Game Range Tamor Pingla	Personal Estimate	
	CHT/S/TAM			Cissampelos pareiramen	Medicinal value	Stable	Game Range Tamor Pingla	Personal Estimate	
30	DEL/S/ASO	NP	Yes	Dhonk (Anogeissus pendula)	Cultural importance and natural vegetation of Aravalli range	Stable	Asola	Personal estimate	
	DEL/S/ASO	NP		Butea monosperna	Cultural importance and natural vegetation.	Stable	Asola	Personal estimate	
	DEL/S/ASO			Acacia senegal	Cultural importance and natural vegetation.	Stable	Asola	Personal estimate	
31	GOA/S/BON		Yes	Dalbergia latifolia	Other commercial value	Declining	Ponda, Valpoi, Collem	Personal estimate	
32	GOA/S/CHO	NP	Yes	Sonneratia casiolaris	Found rarely	Stable	Campal	Personal estimate	
33	GUJ/S/WIL		Yes	There are many grasses and other plants that are found only in the Rann of Kutch.	Found only in the Rann of Kutch				
34	HAR/N/SUL	YES	Yes	Sarkanda	Breeding				
	HAR/N/SUL			Acacia nilotica	Breeding				
	HAR/N/SUL			Albizia lebbek	Breeding				
	HAR/N/SUL			Azadirachta indica	Medicinal value				
35	HAR/S/BHIN	NP	Yes	Kikar	For breeding				
36	HAR/S/BIRB	NP	Yes	Eucalyptus	For pulp wood and other commercial value	Decline	Bir Bara Ban Jind	Personal Estimate	

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		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	HAR/S/BIRB			Kikar	Other commercial value	Decline	Bir Bara Ban Jind	Personal Estimate	
	HAR/S/BIRB			Neem	Medicinal value	Decline	Bir Bara Ban Jind	Personal Estimate	
	HAR/S/BIRB			Shisham	Other commercial value	Decline	Bir Bara Ban Jind	Personal Estimate	
37	HAR/S/BIRS	NP	Yes	Eucalyptus, Ber, Khair, Amaltas and Teak			Pinjore	Personal Estimate	
38	HAR/S/KAL	NP	Yes	Sal, Shain, Amla, Khair, juenda, Jamun, Papri, Beri, Rami, Safeda and Teak					
39	HAR/S/KHA	NP	Yes	Kikar	For breeding				
40	HAR/S/NAH	NP	Yes	Kikar	For Protection & Shelter				
41	HP/S/GAM	NO	Yes	Saalam Panja	Medicinal value	Declining but due to ban in grazing and NTFP collection, the status might improved.	Bhandal	Personal estimate	
	HP/S/GAM	NO		Taxus Baccata	Medicinal Value	Declining but due to ban in grazing and NTFP collection, the status might improved.	Bhandal	Personal estimate	
42	HP/S/KUG		Yes	Karu	Medicinal value	Stable	Ridge tops/ Alpine areas	Personal estimate	
	HP/S/KUG			Patish	Medicinal value	Stable	Ridge tops/ Alpine Areas	Personal estimate	
	HP/S/KUG			Mushkbala	Medicinal value	Stable	Forest Areas	Personal estimate	
	HP/S/KUG			Saalam Panja	Medicinal value	Stable	Rocky cliffs at high altitudes	Personal estimate	
	HP/S/KUG			Saalam Mishri	Medicinal value	stable	Rocky cliffs at high altitudes	Personal Estimate	
	HP/S/KUG			Dhup	Other commercial value(incensc)	Stable	Alpine Pastures	Personal estimate	
43	HP/S/NAR		Yes	Deodar	It is a very valuable timber for building construction	Stable	Wildlife range Barot	PA authorities	
44	HP/S/SHI		Yes	Deodar	It is a very valuable timber for building construction	Stable	Wildlife Range Karsog	Personal estimate	
45	HP/S/TUN	NO	Yes	Karu	Medicinal value	Stable	Ridge tops/alpine areas	Personal estimate	
	HP/S/TUN			Dhup	Other commercial value(incensc)	Stable	Ridge tops/alpine areas	Personal estimate	
	HP/S/TUN			Mushkbala	Medicinal value	Stable	Forest areas	Personal estimate	

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Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	HP/S/TUN			Patish	Medicinal value	Stable	Rocky cliffs at high altitudes	Personal estimate	
	HP/S/TUN			Saalam Panja	Medicinal value	Stable	Rocky cliffs at high altitudes	Personal estimate	
	HP/S/TUN			Saalam Mishri	Medicinal value	Stable	Alpine pastures	Personal estimate	
46	J&K/N/HEM		Yes	Salix spp.(willow)	Commercial value	Stable	Throughout the PA	Personal estimate	
47	J&K/N/HEM		Yes	Populus spp. (Poplars)	Commercial value	Stable	Throughout the PA	Personal estimate	
48	J&K/N/KIS	YES	Yes	Pinus roxburghii					
	J&K/N/KIS			Chilgoza(Pinus gerardiana)	Only found in Kishtwar national park area.	Common	Sirchi		
49	J&K/S/CHA		Yes	Caragana pignum (Tama)	Soil binding legume	Not known	Both ranges	Personal estimate	
	J&K/S/CHA			Myricaria spp.	Tender stems and leaves are used as fodder.	Not known	Both ranges	Personal estimate	
50	J&K/S/KAR		Yes	Ephedra spp (Tsepath)	Medicinal value	Stable	Nubra	Personal estimate	
	J&K/S/KAR			Phicea chiliana (Langtang)	Medicinal value	Stable	Nubra	Personal estimate	
51	J&K/S/OVE		Yes	Kins (Dioscorea deltoidea)	Tuber used as medicine for rheumatic and ophthalmic problems	Declining	Lidder	Personal estimate	
52	KAR/N/ANS	NP	Yes	Anteda Scandelensis		Unknown	Wildlife Range Anashi		
	KAR/N/ANS			Woodfordia - Fruitcosa	Medicinal value	Unknown	Wildlife Range Kumbarwada		
53	KAR/N/BANN		Yes	Santalum album	Found in abandoned in specific area, valuable wood.	Stable	Bannerghatta S.F.	Personal estimate	
	KAR/N/BANN			Anaigeissus latifolia	Found in abandoned in specific area, coppice regenerating	Stable	Kalkore S.F.	Personal estimate	
	KAR/N/BANN			Dendrocalamus strictus	Found in abandoned in specific area, elephant fodder	Stable	Bannarghatta S.F.	Personal estimate	
54	KAR/N/KUD	NP	Yes	Balgi - Poeciloneuron indicum	Found only at Bagavathi Valley	Stable	Kudremukh and Sringeri Ranges	Personal estimate	
55	KAR/S/BIL		Yes	Michaelia champaca	Worship	Stable	All ranges	Old working plans	
56	KAR/S/DAN		Yes	Karimuttal-Ougeinia dalbergiodes	Commercial value	Decreasing	Wildlife Range Kulgi	Personal estimate	
	KAR/S/DAN			Dhataki-Woodfordia-Fruiticosa	Medicinal value	Unknown	WLR Kulgi & Kumbarwada	Personal estimate	
	KAR/S/DAN			Antada scandelensis		Unknown	Wildlife Range Kumbarwada	Personal estimate	
57	KAR/S/GUD	NP	Yes	Acacia and Fruit yielding seedlings		Stable	Gudavi Bird Sanctuary	Personal estimate	

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Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
58	KAR/S/MEL	NO	Yes	Cycus circinalis	Rare species - The only gymnosperm to be found in the dry Scrub Forest	Stable	Naryanadurga Scurb Forest(SF) & Mudibetta SF	Personal estimate	
59	KAR/S/SHA	NO	Yes	Accacia (Plantation)		Stable	Kargal, Kogar	Personal estimate	
60	KER/N/ERA	YES	Yes	Brachycorythis wightii	Found only in this PA	Increasing	Throughout the PA	Research	
	KER/N/ERA			Phlebophyllum kunthianum (Neelakurinji)	Cultural importance	Increasing	Throughout the PA	Research	
61	KER/S/ARA		Yes	Karanjili (Dipterocarpus bourdillonii)	Found only in this PA.	Increasing	Aralam	Research	
	KER/S/ARA			Nanku (Mesua ferrea)	Found only in this PA.	Increasing	Aralam	Research	
	KER/S/ARA			Pali (Palquium ellipticum)	Found only in this PA	Increasing	Aralam	Research	
62	KER/S/CHIN		Yes	Sandal	Other commercial value, Medicinal value, Cultural importance	Stable	Chinnar	Personal estimate	
63	MAH/N/AND	NP	Yes	Khanduchaka	Medicinal value	Stable	Tadoba	Personal estimate	
66	MAH/N/SAN	NP	Yes	Teak	Wildlife Significance				
	MAH/N/SAN			Khair	Wildlife Significance				
	MAH/N/SAN			Aasana	Wildlife Significance				
	MAH/N/SAN			Rudraksha	Wildlife Significance				
67	MAH/S/AMB	NP	Yes	Dalbergia latifolia	Rare timber species	Stable	Sonala	Personal estimate	
68	MAH/S/ANE	NP	Yes	Safed Musali	Medicinal(root)	Declining	Aner dam	Personal estimate	
69	MAH/S/CHAN		Yes	Murraya koenigii	Commercial value	Increasing	South western part	Personal estimate	
	MAH/S/CHAN			GarCinia indica	Commercial value	Stable	Western part	Personal estimate	
70	MAH/S/CHAP	NP	Yes	Jungli Bhendi(Urena lobata)	Wild variety found in this PA	Unknown	Chaudampalli	Survey	
	MAH/S/CHAP			Junglee Teel(Sesamum oriental)	Wild variety found in this PA	Unknown	Chaudampalli	Survey	
	MAH/S/CHAP			Jungli Hadi(Curcuma species)	Wild variety found in this PA	Unknown	Chaudampalli	Survey	
71	MAH/S/GAU	NP	Yes	Safed Musali	Medicinal	Declining	Nagad,Kannad	PA	
72	MAH/S/GYA		Yes	Anjan(Hardwickia Binata)		Increasing	Khamgaon Buldhana		
73	MAH/S/KAL		Yes	Hirda	Commercial & Medicinal value	Stable	Both	PA, Survey	
	MAH/S/KAL			Beheda	Commercial & Medicinal value	Stable	Both	PA, Survey	
	MAH/S/KAL			Vavding	Medicinal & Commercial value	Stable	Both	PA, Survey	
74	MAH/S/KAT	NP	Yes	Alectra parasitica	These are found as root parasite plants on Vitex negundo & these have been recorded for the first time in India.	Unknown	Akola	Research.	

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	MAH/S/KAT			Alectra thonsonii	These are found as root parasite on plants of Vitex negundo & these have been recorded for the first time in India.	Unknown	Akola	Research	
75	MAH/S/SAG	NP	Yes	Santalum album(Chandan)	Naturally found	Increasing	In the whole protected area.	Personal estimate	
76	MAH/S/WAN	NP	Yes	Safed Musali	High medicinal value	Decline	Wan and Somthana	Personal estimate	
77	MAN/N/KEI	YES	Yes	Ishing Kambong (Zizania latifolia)	Favourite food of Sangai, found only in this P.A.	Believed to be declining	Phumdi area (floating biomass)	Personal estimate	
78	MAN/S/YAN		Yes	Tectona grandis	Commercial value	Declining	Along foot hills.	Survey	
	MAN/S/YAN			Dipterocarpus spp.	Commercial value	Declining	Along foot hills.	Survey	
79	MEG/N/BAL	NP	Yes	Pitcher plant, Sun dew plant	Insectivorous plant	Stable	All the ranges	Research and Personal Estimate	
	MEG/N/BAL			Agar	Commercial value (Used in the perfume industry)	Stable	All the ranges	Research and personal estimate	
	MEG/N/BAL			Ladies slipper orchid (Paphiopedelum species)	Commercial value because of its rarity	Stable	Siju range	Personal estimate	
80	MEG/N/NOK	NP	Yes	Citrus indica	Citrus indica is the most primitive and perhaps the progenitor of cultivated citrus plants	Unknown	In both the ranges	Survey by National Bureau of Plant Genetic Resources, Shillong	
81	MEG/S/BAG	NP	Yes	Pitcher plant	Insectivorous plants	Stable	Baghmara	Personal Estimate	
	MEG/S/BAG			Agar	Commercial value (Used in the perfume industry)	Stable		Personal Estimate	
82	MEG/S/SIJ		Yes	Pitcher plant, Sun dew plant	Insectivorous plants	Stable	Siju Wildlife Range	Research and Personal Estimate	
	MEG/S/SIJ			Agar	Commercial value (Used in the perfume industry)	Stable	Siju Wildlife Range	Research and personal estimate	
	MEG/S/SIJ			Ladies slipper orchid	Commercial value because of its rarity	Stable	Siju Wildlife Range	Research and personal estimate	
83	MIZ/N/MUR	NP	Yes	Lady's Slipper	Other commercial value	Unknown	North Khawbung	Personal estimate	
84	MIZ/N/PHA	NP	Yes	Rhododendron	Found only in this PA	Stable	Phawngpui	Survey and personal estimate	
85	MIZ/S/DAM	NO	Yes	Blue Vanda Orchid	Endangered + Commercial Value	Stable	Phuldungsei	Research by forest department	
86	MIZ/S/LEN	NP	Yes	Lady's Slipper	Other commercial value	Unknown	Ranges not yet demarcated	Personal estimate	
87	MP/N/SAN		Yes	kali musali (Curculigo orchisdes)	Medicinal value.	Declining	Dubari, Bastua	Personal estimate	
	MP/N/SAN			Chansraj (Adiantum lenulatum)	Medicinal value.	Declining	Dubari, Bastua	Personal estimate	

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	MP/N/SAN			Keli kand (Costos speciosus)	Medicinal value.	Declining	Dubari, Bastua	Personal estimate	
88	MP/N/SAT	YES	Yes	Psilotum	Found only in this PA.	Declining	Pachmarhi	Personal estimate	
	MP/N/SAT			Cyathea gignater	Found only in this PA.	Declining	Pachmarhi	Personal estimate	
	MP/N/SAT			Cyathea spimlasa	Found only in this PA.	Declining	Pachmarhi	Personal estimate	
	MP/N/SAT			Lycopodium	Found only in this PA.	Declining	Pachmarhi	Personal estimate	
	MP/N/SAT			Drosera burmanii	Found only in this PA.	Declining	Pachmarhi	Personal estimate	
89	MP/S/GAN		Yes	Dhawara	Other commercial value.	Declining	Gandhisagar	Personal estimate	
	MP/S/GAN			Soya	Other commercial value.	Unknown	Gandhisagar	Survey	
	MP/S/GAN			Kullar	Other commercial value.	Unknown	Gandhisagar	Survey	
	MP/S/GAN			Khair	Found only in the PA.	Declining	Gandhisagar	Personal Estimate	
	MP/S/GAN			Amla	Medicinal Value.	Stable	Gandhisagar	Survey	
	MP/S/GAN			Bahera	Medicinal Value.	Stable	Gandhisagar	Survey	
90	MP/S/NOR	NP	Yes	Bel (Aegle marmelos)	Commercial value.	Declining	Mohli, Sarra, Noradehi, Jhapan, Singpur.	Survey and Personal estimate.	
	MP/S/NOR			Casearia graveolens-Gilchi	Commercial value.	Stable	Mohli, Sarra, Noradehi, Jhapan, Singpur.	Survey and Personal estimate.	
	MP/S/NOR			Amla (Embllica officinalis)	Commercial value.	Declining	Mohli, Sarra, Noradehi, Jhapan, Singpur.	Survey and Personal estimate.	
	MP/S/NOR			Koha (Terminalia arjuna)	Medicinal value.	Stable	Mohli, Sarra, Noradehi, Jhapan, Singpur.	Survey and Personal estimate.	
91	MP/S/SAN		Yes	Safed musali (Chlorophytum arundinaleam)	Medicinal value.	Declining	Dubari, Bastua	Personal estimate	
92	NAG/S/PUL	NP	Yes	Rhododendron	Cultural importance	Stable	High altitude areas	Personal estimate	
	NAG/S/PUL	NP		Ghinseng	Medicinal value	Declining	Moderate altitude areas	Personal estimate	
93	ORI/N+S/BHI		Yes	Sundari (Heritiera fomes)	Found only in this PA apart from Sunderbans	Stable	Kanika, Rajnagar, Chandbali	Personal estimate	
	ORI/N+S/BHI			Heritiera littoralis					
94	ORI/S/BAD	NP	Yes	Sal	Other commercial value	Increasing	Badarama	Personal estimate	
	ORI/S/BAD			Mahul	Wild relative of cultivated plant having commercial value	Increasing	Badarama	Personal estimate	
	ORI/S/BAD			Kendu	Wild relative of cultivated plant having commercial value	Increasing	Badarama	Personal estimate	
95	ORI/S/BAI	YES	Yes	Diospyros melanoxylon	Fruit for wild animals	Declining	Banigucha Wildlife Range	Personal estimate	

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	ORI/S/BAI			Terminalia chebula	Fruit for wild animals	Stable			
	ORI/S/BAI			Terminalia bellerica	Fruit for wild animals	Stable			
	ORI/S/BAI			Emblica officinalis	Fruit for wild animals	Stable			
96	ORI/S/BAL	NP	Yes	Bhuja patta	Medicinal and cultural importance	Unknown	Balukhand	Personal	
97	ORI/S/HAD	YES	Yes	Ashoka(Saraca indica), Nageswar(Mesule ferna), Campak(Michelia champaca)	Rare species, grows in moist sites, sign of post climax in dry deciduous forest	Declining	Boula Reserve Forest, Jumoposi area	Reported by Forester, Hadgarh	
98	ORI/S/KUL		Yes	Tree ferns	Rare and endemic				
	ORI/S/KUL			Orchid flora	Rare and endemic				
99	ORI/S/LAK	NP	Yes	Sal(Shorea robusta)	Commercial value	Increasing	Chandragiri	Personal estimate	
100	ORI/S/SATN		Yes	Hinjal (Barintonia auotangula)	Medicinal value	Stable	Along river Mahanadi	Survey	
	ORI/S/SATN			Kochila (Strychnos noxvomia)	Medicinal value	Stable	Along river Mahanadi	Survey	
	ORI/S/SATN			Sissoo (Dalbergia latifolia)	Other commercial value	Declining	All block	Personal estimate	
	ORI/S/SATN			Patal garuda (Roulfia serpentina)	Medicinal value	Declining	Raigoda	Personal estimate	
	ORI/S/SATN			Gila (Enteda phoseloides)	Other commercial value	Declining	Purunakote	Personal estimate	
	ORI/S/SATN			Mirigachara (Grewia elastica)	Medicinal value	Declining	Katranga	Personal estimate	
101	ORI/S/SATS		Yes	Mango	Fruit of wild animals	Stable	Chamundia, Kusanga	Personal estimate	
	ORI/S/SATS			Terminalia chebula	Fruit of wild animals	Stable	Chamundia, Kusanga	Personal estimate	
	ORI/S/SATS			Tectona belerica	Fruit of wild animals	Stable	Chamundia, Kusanga	Personal estimate	
	ORI/S/SATS			Emblica officinalis	Fruit of wild animals	Stable	Chamundia, Kusanga	Personal estimate	
	ORI/S/SATS			Diospyrus melanosylam	Fruit of wild animals	Stable	Chamundia, Kusanga	Personal estimate	
	ORI/S/SATS			Anogeinus acuminata	Naturally regenerate in riverine area and used as religious significance	Profuse regeneration	Chamundia, Kusanga	Personal estimate	
102	ORI/S/SIM		Yes	Tree ferns	Rare and endemic				
	ORI/S/SIM			Orchid flora	Rare and endemic				
	ORI/S/SIM			Wild paddy	Rare and endemic				
	ORI/S/SIM			Aquatic grass	Rare and endemic				
103	PUN/S/HAR		Yes	Elephant grass	Fodder and Thaching				
	PUN/S/HAR			Lemon grass	Medicinal				
	PUN/S/HAR			Hydrilla	Food				
	PUN/S/HAR			Spyrogyra (Green Algae)	Medicinal				
	PUN/S/HAR			Spirullina (Blue Algae)	Medicinal				
	PUN/S/HAR			Pamelia pabelata (Lichen)	Medicinal				

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
104	RAJ/N/KEO		Yes	Kadamb (Mitragyana periviflora)	Climax species of this flood plain. Grasses of Kadamb are now left in this park only.	Declining	Keoladeo	Survey	
	RAJ/N/KEO			Khus (Vetivaria zizianoides)	Root gives famous khus perfume; many other uses also.	Declining	Keoladeo	Survey	
105	RAJ/S/BHA		Yes	Amla (Emblica officianalis)	Medicinal	Declining	Bhainsroadgarh	Personal estimate	
	RAJ/S/BHA			Bahera (Termenalia belerica)	Medicinal	Stable	Bhainsroadgarh	Personal estimate	
106	RAJ/S/JAI		Yes	Gangchee	Medicinal	Decline	Jojawar Bonsar	Personal	
	RAJ/S/JAI			Gugal (commipheramukuri)	Medicinal , worship	Decline	Bijajika guda, Jojawar, Raoli	Personal estimate	
	RAJ/S/JAI			Megad (vitex negunder)	Medicinal	stable	Raoli	Personal estimate	
107	RAJ/S/JAM	YES	Yes	Neem(Azadirachta indica).	Medicinal value.	Declining.	Jamwa Ramgarh.	Personal estimate.	
	RAJ/S/JAM			Ber(Ficus bengalensis).	Cultural importance.	Declining.	Jamwa Ramgarh.	Personal estimate.	
	RAJ/S/JAM			Pipal(Ficus relegiosa).	Cultural importance.	Declining.	Jamwa Ramgarh.	Personal estimate.	
	RAJ/S/JAM			Khair (Acacia catechu).	Commercial value.	Declining.	Jamwa Ramgarh.	Personal estimate.	
	RAJ/S/JAM			Kadayas (Sterculia urens).	Medicinal value.	Declining.	Jamwa Ramgarh.	Personal estimate.	
	RAJ/S/JAM			Bajardanti (Barlaria prionitis).	Medicinal value.	Declining.	Jamwa Ramgarh.	Personal estimate.	
108	RAJ/S/KELA		Yes	Googal (Commiphora wightii)	Medicinal	Declining	Karanpur	Personal estimate	
	RAJ/S/KELA			Karaya (Sterculia ursus)	Medicinal	Declining	All ranges	Personal estimate	
109	RAJ/S/NAH	YES	Yes	Bud(Ficus bengalensis).	Cultural and religious importance.	Declining.	Nahargarh.	Personal estimate.	
	RAJ/S/NAH			Peepal (Ficus reliogisa).	Cultural and religious importance.	Declining.	Nahargarh.	Personal estimate.	
	RAJ/S/NAH			Khair (Acacia catechu).	Commercial value.	Declining.	Nahargarh.	Personal estimate.	
	RAJ/S/NAH			Neem (Azadirachta indica).	Medicinal value.	Declining.	Nahargarh.	Personal estimate.	
110	RAJ/S/PHUI		Yes	Safed musli (Chlrophytum borivillanum)	Medicinal value	Declining	Kotra, Panarwa, Mamer	Personal estimate	
	RAJ/S/PHUI			Brahmi (Centrella asiatica)	Medicinal value	Declining	Kotra, Panarwa, Mamer	Personal estimate	
	RAJ/S/PHUI			Baus (Dendrocalamus strictus)	Found in abundance	Declining	Kotra, Panarwa, Mamer	Personal estimate	
111	RAJ/S/SIT		Yes	Chironji (Bucknesia lanzan)	Medicinal value and other commercial value	Stable	All ranges	Personal estimate	
	RAJ/S/SIT			Vanda (Vanda corrulea)	Medicinal value and other commercial value	Stable	Jhakam	Personal estimate	
112	RAJ/S/TOD		Yes	Gaugchee	Medicinal	Declining	Jojawar, Bonsor	Personal estimate	

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	RAJ/S/TOD			Gugal (Commiphora mukur)	Medicinal value, used as incense during worship	Declining	Bijaji ka Guda, Jojawar, Raoli	Personal estimate	
	RAJ/S/TOD			Negad (Vitex negundur)	Medicinal value	Stable	Raoli	Personal estimate	
113	RAJ/S/VAN		No						No study has been carried out in the PA.
114	SIK/N/KHA	YES	Yes	Rubarb	Roots used for medicinal purposes	Declining	Yuksom, Dzongri	Research / Survey	
	SIK/N/KHA			Druping Juniper	Used in incense	Stable	Lalhen, Clungthang	Research / Survey	
	SIK/N/KHA			Rhododendron Anthopo	Used in incense	Declining	Lalhen, Clungthang	Research / Survey	
	SIK/N/KHA			Kutki	Roots used as medicine	Declining	Lalhan, Clungthang		
115	SIK/S/KYON	NP	Yes	Medicinal plants	Medicinal value	Unknown	Kyongnosla	Personal estimate	
116	SIK/S/SHIN	NP	Yes	Pinguicula	Found only in this PA	Declining	Chumadu area in the PA	Personal estimate	
	SIK/S/SHIN			Rhododendron neivium	State tree (only found in this sanctuary)	Declining	Shingba	Personal estimate	
	SIK/S/SHIN			R. ciliatum	Found only in this PA	Declining			
117	TN/N/GUI		Yes	Atalantia monophylla	Attracts birds	Increasing	Guindy National Park	Survey	
	TN/N/GUI			Ficus bengalensis	Bulbul, coppersmith	Increasing	Guindy National Park	Survey	
	TN/N/GUI			Cycus	Slow growth	Stable	Guindy National Park	Survey	
	TN/N/GUL	NP		Pemphis acidula	Endemic	Stable	In almost all islands of all ranges except Ramnad	PE	
118	TN/N/MUD	NP	Yes	Bonbedagou (moist deciduate)	Malabargaint squirrel & tribals stable food	Stable	Nel,Mud,Tep,Kar	Research	
	TN/N/MUD			Turmaric	Med				
	TN/N/MUD			Ginger	Med				
119	TN/N/MUK	NP	Yes	Orchids	found only in the P.A.	Stable	1	Research	
	TN/N/MUK			Vanda					
	TN/N/MUK			Globalossa					
120	TN/S/PUL		Yes	Avecenia aviaialis risofoa					
121	TN/S/VED		Yes	Atalancia monophila	Energreen species	Stable		Census	
	TN/S/VED			Buchenania	Energreen species	Stable		Census	
123	TN/S/VET	NP	Yes	Babul	Birds are seen to use Babul trees extensively for nesting ignoring other trees	Declining (Supplementary gap planting taken up by FD)	Vettangudi	PE	
124	TRI/S/GUM	NP	Yes	Ficus spp.	As food sources for avifauna, primates and other wildlife	Stable	Tirthmukh	Research by Dr. A.K.Gupta, IFS	
	TRI/S/GUM			Albizia, Bamboo spp.					
125	TRI/S/TRI		Yes	Diptenocurpturoiretus		Abundant	Rajnagar & Abhoya	Personal estimate	
	TRI/S/TRI			A.Chuplaea		Abundant	Rajnagar & Abhoya	Personal estimate	

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	TRI/S/TRI			T.Belerica		Abundant	Rajnagar & Abhoya	Personal estimate	
	TRI/S/TRI			Shorea robusta		Abundant	Rajnagar, Abhoya & Rangamura	Personal estimate	
	TRI/S/TRI			Sterculia villosa		Abundant	All over the sanctuary	Personal estimate	
	TRI/S/TRI			Duabanga gradiflora		Abundant	All over the sanctuary	Personal estimate	
126	UP/S/KAC		Yes	Ficus religiosa	Cultural importance	Stable	Kachhua wildlife sanctuary	Personal estimate.	
	UP/S/KAC			Ficus bengalensis	Cultural importance	Stable	Kachhua wildlife sanctuary	Personal estimate.	
127	UP/S/KAI		Yes	Tendu (Diospyras tomentosa)	Used in making bidis	Stable	All ranges	Personal estimate	
	UP/S/KAI			Amla (Embllica officinales)	Medicinal value	Stable	All range	Personal estimate	
	UP/S/KAI			Harra (Terminalia chebula)	Midicinal value	stable	All range	Personal estimate	
	UP/S/KAI			Bahera (Termenalia belerica)	Medicinal Value	Stable	All ranges	Personal estimate	
	UP/S/KAI			Bel (Aegle marmelis)	Medicinal value	Stable	All ranges	Personal estimate	
128	UP/S/NAT		Yes	Kareel	Medicinal value	Declining	Both ranges	Research and personal estimate	
	UP/S/NAT			Van karela	Medicinal value	Declining	Both ranges	Research and personal estimate	
	UP/S/NAT			Van tulsi	Medicinal value	Declining	Both ranges	Research and personal estimate	
	UP/S/NAT			Guggal	Medicinal value	Declining	Both ranges	Research and personal estimate	
129	UP/S/PAT		Yes	Khajan	1. Religious significance for Muslims 2. Food for birds.	Stable	Patna bird sanctuary	Survey	
130	UP/S/SAMN		Yes	Butea monosperma	Medicinal value	Declining	Saman Bird Sanctuary	Personal estimate	
131	UTT/N/GAN		Yes	Utish	Medicinal value	Not Known	Gangotri	Personal estimate	
	UTT/N/GAN			Gugal	Medicinal value	Not known	Gangotri	Personal estimate	
	UTT/N/GAN			Salam Mishri, Salam Panja	Medicinal value	Not known	Gangotri	Personal estimate	
	UTT/N/GAN			Patar Loung	Medicinal value	Not known	Gangotri	Personal estimate	
	UTT/N/GAN			Kutki	Medicinal value	Not known	Gangotri	Personal estimate	
	UTT/N/GAN			Jatamansi	Medicinal value	Not known	Gangotri	Personal estimate	
	UTT/N/GAN			Brahma Kamal	Cultural importance	Not known	Gangotri	Personal estimate	
	UTT/N/GAN			Ban Tulsi	Cultural importance	Not known	Gangotri	Personal estimate	
	UTT/N/GAN			Vajradanti	Medicinal value	Not known	Gangotri	Personal estimate	
132	UTT/N+S/GOV		Yes	Deodar	Other commercial value	Stable	All ranges	Personal estimate	
	UTT/N+S/GOV			Pangar	Medicinal value and use by wildlife	Stable	All ranges	Personal estimate	
	UTT/N+S/GOV			All oak species	Cultural importance and other commercial value	Stable	All ranges	Personal estimate	

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
	UTT/N+S/GOV			Atish	Medicinal value	Declining	All ranges	Personal estimate	
	UTT/N+S/GOV			Salam panja	Medicinal value	Declining	All ranges	Personal estimate	
	UTT/N+S/GOV			Taxus baccata	Medicinal value	Declining	Sankari, Supin	Personal estimate	
133	UTT/S/ASK		Yes	Bhoj patra (Bitula utilis)	Found only in this PA, others	Stable		Working plan	
	UTT/S/ASK			Atis (Aconitum heterophyllum)					
	UTT/S/ASK			Tejpat (Cinnamomum tamala)					
	UTT/S/ASK			Satawar (Asparagus curvillus)					
134	UTT/S/BIN	NP	Yes	Oak	Oth- Pristine groves provide shelter to animals, help in storing water. Binsar is the only areas with such a high percentage of oak forests in Kumaon	Pine forest is said to be eating into the Oak forest and the number of Oak trees are decreasing.	Binsar	Personal estimate	
135	UTT/S/BINO		Yes	Potentilla fulgens	Medicinal value				
	UTT/S/BINO			Centella asiatica	Medicinal value				
	UTT/S/BINO			Ficus scandens	Medicinal value				
136	UTT/S/KED	YES	Yes	Taxus baccata	Medicinal value	Stable	Okhimath & Gopeshwer	Working plan.	
			Yes	Bhabar grass (Eulaliopsis binata)	To make Ban rope	Increasing	Along stable riverine flats, along Sonanadi river	Personal estimate	
137	UTT/S/SON		Yes						
138	WB/N/NEO		Yes	Taxus wallichiana	Medicinal value, endemic	Not known/stable	Upper Neora	Field observation	Under negative list of experts
	WB/N/NEO			Balanophora neonensis	New species discovered in Neora valley national park	Not known	Upper Neora	Research	
	WB/N/NEO			Balanophora polyandra	Endemic			Field observation	
	WB/N/NEO			Aristolochia griffithii	Endemic	Not known	Upper Neora and Lower Neora	Field observation	
	WB/N/NEO			Aristolochia saccata	Medicinal	Not known	Upper Neora and Lower Neora	Field observation	
	WB/N/NEO			Antemisia vulgaris	Medicinal	Not known	Upper Neora and Lower Neora	Field observation	
	WB/N/NEO			Ranwolfia serpentine	Medicinal	Stable	Upper Neora and Lower Neora	Field observation	
	WB/N/NEO			Swentia chirata	Medicinal	Stable	Upper Neora and Lower Neora	Field observation	

Table 1.12: Floral Species of Special Interest in the PA

Sno	PA code			New data 1998-03					Remarks
		Old data 1984-87	New data 1998-03	Species	Significance	Status	Ranges	Source	
139	WB/S/CHA		Yes	Kurchi (Holarrhena antidysenterica)	Medicinal	Not known	Chapramara Beat	Field observation	
	WB/S/CHA			Sarpagandha (Rauvolfia serpentina)	Medicinal	Not known	Chapramara Beat	Field observation	
140	WB/S/RAI	NP	Yes	Hijal (Barringtonia acutangula)	It can survive in waterlogged area. Root more developed than shoot. The length of root is three times more than the length of shoot	Declining	Wildlife Range	Personal Estimate	

*Table 1.13: Deliberate Introduction of Floral
Species into PAs*

Table 1.13: Deliberate Introduction of Floral Species into PAs

Sno	PA code	Floral species deliberately		New data 1998-03				
		Old data 1984-87	New data 1998-03	Species Introduced	Year of Introduction	Reason of Introduction	Current Status	Ranges
1	A&N/ N/ SAD	NO	No					
2	A&N/ S/ CUT	NP *	Yes	Casurina equisetifolia	Over 10 years ago	Useful as windbreakers and soil binders. They were also planted to prevent encroachment	Stable	Betapur
3	A&N/ S/ INT	NO	No					
4	A&N/ S/ NAR		No					
5	A&N/ S/ NOR		Nil					
6	AP/ N/ KAS	NP	No					
7	AP/ N/ MAH	NP	No					
8	AP/ N/ MRU	NP	No					
9	AP/ N/ VEN	NP	No					
10	AP/ S/ COR	NP	No					
	AP/ S/ ETU	YES	Yes	Eucalyptus	1977	Raised Industrial Plantation working circle	These have failed after 1st rotation weeds have invaded the area at present	Tadvai, Etumagaram
11								
12	AP/ S/ GUN	NP	No					
13	AP/ S/ KAW	NO	No					
14	AP/ S/ KOL	NO	No					
15	AP/ S/ KOU	NP	No					
16	AP/ S/ KRI	NP						
17	AP/ S/ MAN	NO	No					
18	AP/ S/ NEL	YES	Yes	Red Sanders	1990	Environmental Enrichment	Increasing	Nelapattu Bird Sanctuary
	AP/ S/ NEL			Mahua	1996	Gap planting	Increasing	Nelapattu Bird Sanctuary
	AP/ S/ NEL			Terminalia	1996	Gap planting	Increasing	Nelapattu Bird Sanctuary
	AP/ S/ NEL			Babul	1986	Birds nesting	Increasing	Nelapattu Bird Sanctuary
19	AP/ S/ PAK	YES	No	Eucalyptus	1985-87	Exotic species	Stable	Gudur
	AP/ S/ PAK			Eucalyptus	1985-87	Exotic species	Stable	Nassampet
	AP/ S/ PAK			Eucalyptus	1986-89	Exotic species	Stable	Gudur
	AP/ S/ PAK			Eucalyptus	1988-89	Exotic species	Stable	Nassampet
	AP/ S/ PAK			Eucalyptus	1989-90	Exotic species	Stable	Gudur
20	AP/ S/ PAP	NO	No					
21	AP/ S/ POC	YES	No					
22	AP/ S/ PRA	NO	Yes	Eucalyptus	1975 onwards	Under social forestry scheme to meet the fuelwood demands& employment generation	Declining	Chennur, Nilwai
23	AP/ S/ PUL	NO	No					
24	AP/ S/ SIW	NO	NA					
25	ARU/ N/ MOU	NP	No					
26	ARU/ N/ NAM	NO	No					
27	ARU/ S/ DER	NO	Yes	Simul (Bombax ceiba), Koroi (Albizia procera)	1988-89	Habitat development	Most of the plantations have failed due to floods and fire	All range
	ARU/ S/ DER			Gamari (Gmelina arborea), Sissoo (Dalbergia sisso)	1990-91	Habitat development	Most of the plantations have failed due to floods and fire	All the ranges
	ARU/ S/ DER			Fruit plants	1990-91	Habitat development	Most of the plantations have failed due to floods and fire	All the ranges

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.13: Deliberate Introduction of Floral Species into PAs

Sno	PA code	Floral species deliberately		New data 1998-03				
		Old data 1984-87	New data 1998-03	Species Introduced	Year of Introduction	Reason of Introduction	Current Status	Ranges
	ARU/ S/ DER			Fuelwood and fodder plants	1996-97	Habitat development	Most of the plantations have failed due to floods and fire	All the ranges
28	ARU/ S/ KAM	NP	No					
29	ARU/ S/ MEH	YES	Yes	Mango (<i>Mangifera indica</i>)	1997	Food for animals	Unknown	Mehao Wildlife Range
	ARU/ S/ MEH			Kathal (<i>Artocarpus integrifolia</i>)	1997	Food for animals	Unknown	Mehao Wildlife Range
	ARU/ S/ MEH			Amlaki (<i>Emblica officinalis</i>)	1997	Food for animals	Unknown	Mehao Wildlife Range
	ARU/ S/ MEH			Jalpai	1997	Food for animals	Unknown	Mehao Wildlife Range
	ARU/ S/ MEH			Ziziphus spp.	1997	Food for animals	Unknown	Mehao Wildlife Range
30	ARU/ S/ YOR	NP	No					
31	ASS/ N/ DIB	NP	No					
32	ASS/ N/ KAZ	NP	No					
33	ASS/ N/ MAN	NP	No					
34	ASS/ N/ NAME		No					
35	ASS/ N/ ORA	NP	No					
36	ASS/ S/ BAR	NP	No					
37	ASS/ S/ BUR		Yes	Gmelina arborea	1980-81	1. To increase forest cover and enrich forest composition, 2. To check illegal grazing, encroachments, erosion, floods and droughts, 3. To add to the scenic beauty and to attract wildlife.	Declining, due to ecological reasons.	Burachapori Wildlife Range
	ASS/ S/ BUR		Yes	Delbergia sissoo	1980-81	1. To increase forest cover and enrich forest composition, 2. To check illegal grazing, encroachments, erosion, floods and droughts, 3. To add to the scenic beauty and to attract wildlife.	Declining due to disease	Burachapori Wildlife Range
38	ASS/ S/ DIP	NP						
39	ASS/ S/ EKAR		No					
40	ASS/ S/ GAR		No					
41	ASS/ S/ GIB	NP	No					
42	ASS/ S/ KAR		No					
43	ASS/ S/ LAO	NP	No					
44	ASS/ S/ NAMB		No					
45	ASS/ S/ PAN	NP	No					
46	ASS/ S/ POB	NP	No					
47	ASS/ S/ SON	NP	No					
48	BIH/ S/ RAJ	NO	No					
49	CHD/ S/ SUK	YES	No	Eucalyptus	These species have been introduced in different years.	To provide green cover and to conserve bio-diversity.	Stable	Kansal and Nepli forest area.
	CHD/ S/ SUK			Arjun	These species have been introduced in different years.	To provide green cover and to conserve bio-diversity.	Stable	Kansal and Nepli forest area.

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Sno	PA code	Floral species deliberately		New data 1998-03				
		Old data 1984-87	New data 1998-03	Species Introduced	Year of Introduction	Reason of introduction	Current Status	Ranges
	CHD/ S/ SUK			Papri	These species have been introduced in different years.	To provide green cover and to conserve bio-diversity.	Stable	Kansal and Nepli forest area.
	CHD/ S/ SUK			Amla	These species have been introduced in different years.	To provide green cover and to conserve bio-diversity.	Stable	Kansal and Nepli forest area.
	CHD/ S/ SUK			Behra	These species have been introduced in different years.	To provide green cover and to conserve bio-diversity.	Stable	Kansal and Nepli forest area.
	CHD/ S/ SUK			Neem	These species have been introduced in different years.	To provide green cover and to conserve bio-diversity.	Stable	Kansal and Nepli forest area.
50	CHT/ N/ IND	NO	No					
51	CHT/ N/ KAN	NO	No					
52	CHT/ S/ ACH	NO	No					
53	CHT/ S/ BAR	NO	No					
54	CHT/ S/ BHA	NO	No					
55	CHT/ S/ GOM		No					
56	CHT/ S/ PAM	NO	No					
57	CHT/ S/ SIT	NO	No					
58	CHT/ S/ TAM	NO	No					
59	CHT/ S/ UDA	NO	No					
60	DEL/ S/ ASO	NP	No	Vilayati Kikar (Prosopis juliflora)	1989-90	To cover barren and degraded areas with vegetation which can come up in water deficit conditions.	Increasing	Asola
61	GOA/ S/ BON		No					
62	GOA/ S/ CHO	NP	No					
63	GUJ/ N/ BAN	NO	No					
64	GUJ/ S/ PUR	NP	No					
65	GUJ/ S/ RAT		No					
66	GUJ/ S/ WIL	NP	Yes	Prosopis juliflora	1973	To check desertification	Increasing	Radhanpur
67	HAR/ N/ SUL	YES	No					
68	HAR/ S/ ABU	NP	Yes	Kikar (Acacia nilotica)	50 years ago	To create strip plantations	Increasing	Dabwali range
	HAR/ S/ ABU			Eucalyptus (safada)				
69	HAR/ S/ BHIN	NP	No	Eucalyptus Teretecornis	1978-79	To stabilize the earthen embankment around the lake	Stable	Jhajjar
70	HAR/ S/ BIRB	NP	No	Eucalyptus	1988-89	For growth of trees for their commercial value	Declining	Bir Bara Ban Jind
71	HAR/ S/ BIRS	NP	No					
72	HAR/ S/ CHIL	NP	Yes	Eucalyptus		For reclamation of wetland	stable	Around wetland
73	HAR/ S/ KAL	NP						
74	HAR/ S/ KHA	NP	No					
75	HAR/ S/ NAH	NP	No					

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76	HAR/ S/ SAR	NP		Eucalyptus hybrid	1960	Reclamation of water logged and desalted area of the sanctuary	Stable	Entire range
77	HP/ N/ GRE	NO						
78	HP/ S/ DAR	NO	Yes	Grasses(Local+Clover)	1990	Pasture development	Stable	
	HP/ S/ DAR			Rubenia	1990	Fuel and Fodder	Stable	
79	HP/ S/ DHA	NP	No					
80	HP/ S/ GAM	NO	No					
81	HP/ S/ KAI		Yes	Tall Fescu	1996-97	Pasture improvement	Increasing	On the boundary of the PA on an experimental basis
82	HP/ S/ KAL	NO	No					
83	HP/ S/ KAN		Yes	Poplar	1985	To provide fuelwood		
	HP/ S/ KAN		Yes	Robinia	1980	To provide fuel and fodder		
	HP/ S/ KAN		Yes	Tall fescu grass	1990	To provide fodder		
84	HP/ S/ KHO		No					
85	HP/ S/ KUG	NO	Yes	Robina	1980s	To provide fodder to people	Stable	Around Kugti village
	HP/ S/ KUG	NO		Alanthus	Mid 1990s	For soil conservation	Declining	Around the Dharol & Kugti area
86	HP/ S/ LIP	NO	No					
87	HP/ S/ MAN		Yes	Tall Fescu and White clover grasses	1983	For pasture development	Increasing	
88	HP/ S/ NAR	NO	No					
89	HP/ S/ PON	NO	No					
90	HP/ S/ RUP	NO	Yes	Robinia	1990	To meet the fuel and fodder demand of people	Stable	Rupi and Bhaba
	HP/ S/ RUP			Red & white clover grass planted in Alpine pastures	1997	Development of Pastures	Stable	Rupi and Bhaba
91	HP/ S/ SAN	NP	Yes	Robinia	1996	To meet people's needs		Sangla
92	HP/ S/ SHI	NO	No					
93	HP/ S/ TUN	NO	Yes	Rubinia	1980's	To provide fodder and conserve soils	Stable	Monthu, Gower, Mandha areas
	HP/ S/ TUN			Alanthus	Mid 1990's	Soil conservation	Declining	Mandha
94	J&K/ N/ HEM		Yes	Barley		Food, fodder and for making wine.	Stable	Markha, Rumbak, Chilling, Kaya
	J&K/ N/ HEM		Yes	Wild Pea		Food, fodder	Stable	Markha, Rumbak, Chilling, Kaya
	J&K/ N/ HEM		Yes	Apricot		Food, fodder, timber, fuel	Stable	Markha, Rumbak, Chilling, Kaya
	J&K/ N/ HEM		Yes	Turnip		Food and fodder	Stable	Markha, Rumbak, Chilling, Kaya
95	J&K/ N/ KIS	NO						
96	J&K/ S/ CHA		Yes	Barley		Food, fodder and for making wine.	Stable	Nyoma & Chushal ranges
	J&K/ S/ CHA		Yes	Wild Pea		Food and fodder	Stable	Nyoma & Chushal ranges
97	J&K/ S/ KAR		Yes	Barley		Food, fodder, wine	Stable	Diskit, Panamik, Diggar
	J&K/ S/ KAR		Yes	Apricot		Food, fodder, timber, fuel		Diskit, Panamik
	J&K/ S/ KAR		Yes	Wild Pea		Food, fodder		
	J&K/ S/ KAR		Yes	Turnip		Food, fodder		
98	J&K/ S/ OVE	NO	No					

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Sno	PA code	Floral species deliberately		New data 1998-03				
		Old data 1984-87	New data 1998-03	Species Introduced	Year of Introduction	Reason of Introduction	Current Status	Ranges
99	JHA/ N/ RAJ	NP	No					
100	JHA/ S/ HAZ	YES	No					
101	JHA/ S/ PAR	NP	No					
102	JHA/ S/ UDH	NP	No					
103	KAR/ N/ ANS	NP	Yes	Eucalyptus Hybrid - Neelgiri	1971	Commercial purpose	Declining	Wildlife Range Kumbharwada
	KAR/ N/ ANS			Silver Oak Carevillearobusta	1962	Commercial purpose	Declining	Wildlife Range Kumbareada
	KAR/ N/ ANS			Davabanga Senoroides	1976	Commercial purpose	Stable	Wildlife Range Anashi
104	KAR/ N/ BAND	NO	No					
105	KAR/ N/ BANN		No					
106	KAR/ N/ KUD	NP	No					
107	KAR/ N/ NAG	NP						
108	KAR/ S/ ADI	NO	Yes	Eucalyptus Teritocolins - Nilgiri	Not available	To cover the barren area	Stable	Entire PA
	KAR/ S/ ADI			Acacia Auruculiformis	Not available	To cover the barren area	Stable	Entire PA
109	KAR/ S/ ARA	NP	No					
110	KAR/ S/ ATT		NA					
111	KAR/ S/ BHA	NO	No					
112	KAR/ S/ BIL		Yes	Pinus 1200 m.	1985	Shola spread shola grass	Stable	Yelandur
113	KAR/ S/ BRA	NO	No					
114	KAR/ S/ DAN	NO	Yes	Eucalyptus-Neelgiri	1961	Commercial	Declining	Wildlife range Kulgi
	KAR/ S/ DAN			Acacia auriculasformis	1961	Commercial	Declining	Wildlife Range Kulgi
	KAR/ S/ DAN			Cassoda-Cassia siamea	1961	Commercial	Declining	Wildlife Range Kulgi
	KAR/ S/ DAN			Santalum album	1961	Commercial	Declining	Wildlife Range Kulgi
	KAR/ S/ DAN			Lagerstroemia Hosregia		commercial	Declining	Wildlife Range Kumbharwada
	KAR/ S/ DAN			Silver Oak-Grevillea Robusta	1962	Commercial	Declining	Wildlife Range Kumbharwada
115	KAR/ S/ DOR	NP						
116	KAR/ S/ GHA	NO	No					
117	KAR/ S/ GUD	NP						
118	KAR/ S/ KAV	NP						
119	KAR/ S/ MEL	NO	Yes	Eucalyptus Teritocolins - Nilgiri	Not available	To cover the barren areas	Stable	Outer fringer of Narayadurga & Mudibetta SF
	KAR/ S/ MEL			Acacia Auriculasformis - Acacia	Not available	To cover the baren areas	Stable	Outer fringer of Narayadurga & Mudibetta SF
120	KAR/ S/ MOO	NO	No					
121	KAR/ S/ NUG	NO						
122	KAR/ S/ PUS	NP	No					
123	KAR/ S/ RANE	NO						
124	KAR/ S/ RANG	YES		Bambusa Vulgaris - Yellow Bamboo	Not Known	Ornamental	Stable	Ranganathittu Bird Sanctuary
125	KAR/ S/ SHA	NO	No					
126	KAR/ S/ SHE	YES	Yes	Eucalyptus - Eucalyptus citriodora	Prior to the formation of PA	A forestation of degraded forest land	Stable	Hanagere and Shimoga
	KAR/ S/ SHE			Acacia - Acacia auriculasformis	1983	Raising pulpwood plantations	Stable	Hanagere and Shimoga
127	KAR/ S/ SOM	NO	No					

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128	KAR/ S/ TAL	NP	No					
129	KER/ N/ ERA	NO	No	Congo signal grass (<i>Brachiara ruziziensis</i>) introduced in early 1990s according to WII Study. Not reported by PA authorities				
130	KER/ S/ ARA		No					
131	KER/ S/ CHIN	YES	No					
132	KER/ S/ WAY	NO	No					
133	MAH/ N/ AND	NP	No					
134	MAH/ N/ NAV	NO	No					
135	MAH/ N/ PEN	NO	No					
136	MAH/ N/ SAN	YES	Yes	Peltoforum	1985	Asthetic	Stable	Krishagiri Upwan Borih-recreation zone
	MAH/ N/ SAN			Kaju	1985	MS EB lines		
137	MAH/ S/ AMB	NP	No					
138	MAH/ S/ ANE	NP						
139	MAH/ S/ BHA	NP						
140	MAH/ S/ BHI		Yes	Nilgiri (Eucalyptus spp.)	1965-66	Not known	Declining	Bhimashankar 1
	MAH/ S/ BHI		Yes	Silver oak	Not known	Not known	Declining	Bhimashankar 1
	MAH/ S/ BHI		Yes	Moha (Madhuca longifolia)	1966-67	Not known	Declining	Bhimashankar 1
141	MAH/ S/ BOR	YES	No					
142	MAH/ S/ CHAN		No					
143	MAH/ S/ CHAP	NP						
144	MAH/ S/ DEU		No	Jowar Bajra (Lure crops)	1990-91	To attract black buck and reduce crop damage and crop rading habit of black buck.	Stopped	Rehekuri
145	MAH/ S/ GAU	NP	No					
146	MAH/ S/ GRE		No					
147	MAH/ S/ GYA	NP	No					
148	MAH/ S/ JAI	NP	No					
149	MAH/ S/ KAL		No					
150	MAH/ S/ KAR	YES	Nil					
151	MAH/ S/ KAT	NP	Yes	Azadirachta indica	1994	Economically Beneficial	Stable	Akola
	MAH/ S/ KAT			Dalbergia Sisoo	1994	Economically Beneficial	Stable	Akola
152	MAH/ S/ MAL	NP	No					
153	MAH/ S/ MAY		Yes	Neem		Soil and water conservation	Stable	Supe
	MAH/ S/ MAY		Yes	Babul		Soil and water conservation	Stable	Supe
	MAH/ S/ MAY		Yes	Gliricidia		Soil and water conservation	Stable	Supe
154	MAH/ S/ NAG	NO	No					
155	MAH/ S/ NAI	NP	No					
156	MAH/ S/ NAR	NP	No					
157	MAH/ S/ PAI	NP	No					
	MAH/ S/ PAI		No					
158	MAH/ S/ RAD	NO	No					
159	MAH/ S/ SAG	NP	Yes	Mangifera indica(Amba)	1980-81	To bring the barren land under vegetation	Increasing	In the whole protected area
	MAH/ S/ SAG			Hardwickia binata(Anjan)	1980-81	To bring the barren land under vegetation	Increasing	In the whole protected area

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	MAH/ S/ SAG			Bauhunia racemosa(Apta)	1980-81	To bring the barren land under vegetation	Increasing	In the whole protected area
	MAH/ S/ SAG			Emblca officinalis(Avala)	1980-81	To bring the barren land under vegetation	Increasing	In the whole protected area
160	MAH/ S/ TIP	NP	No					
161	MAH/ S/ WAN	NP	No					
162	MAH/ S/ YAW	NO	No					
163	MAH/ S/ YED	NP	No					
164	MAN/ N/ KEI	NO	Yes	Tou (Phragmites karka)	1998	For shelter	Declining	Phumdi (floating biomass)
165	MAN/ S/ YAN							
166	MEG/ N/ BAL	NP	No					
167	MEG/ N/ NOK	NP	No					
168	MEG/ S/ BAG	NP	No					
169	MEG/ S/ NON	YES	No					
170	MEG/ S/ SIJ	NO	No					
171	MIZ/ N/ MUR	NP	Yes	Vegetable crops		Villagers carry out jhum and thereby introduce plants into the PA	Unknown	North Khawbung
	MIZ/ N/ MUR			Bischofia	2000	Food for birds and animals	NA	North Khawbung
	MIZ/ N/ MUR			Porpia roxburghii	2000	Food for birds and animals	NA	North Khawbung
	MIZ/ N/ MUR			Artocarpus spp.	2000	Food for birds and animals	NA	North Khawbung
172	MIZ/ N/ PHA	NP	No					
173	MIZ/ S/ DAM	NO	No					
174	MIZ/ S/ KHA	NP						
175	MIZ/ S/ LEN	NP	Yes	Bischofia	2000	Food for birds and animals	N.A.	Ranges not yet demarcated
	MIZ/ S/ LEN			Porpia roxburghii	2000	Food for birds and animals	N.A.	Ranges not yet demarcated
	MIZ/ S/ LEN			Artocarpus spp.	2000	Food for birds and animals	N.A.	Ranges not yet demarcated
	MIZ/ S/ LEN			Various agricultural crops		Agriculture by villagers		
176	MIZ/ S/ NGE	NP	No					
177	MP/ N/ BAN	NO	No					
178	MP/ N/ GHU	NP	No					
179	MP/ N/ PEN	NO	No					
180	MP/ N/ SAN	NO	No					
181	MP/ N/ SAT	NO	No					
182	MP/ N/ VAN	NO	Yes	Barseem	1997	Provide fodder to species.	Cultivation	
183	MP/ S/ BAD	NO	No					
184	MP/ S/ BAG	NO	No					
185	MP/ S/ GAN	NO	Yes	Khair	1992-93	To meet fuelwood requirement and habitat improvement.	Declining	Gandhisagar sanctuary
	MP/ S/ GAN			Desi babool	1992-93	To meet fuelwood requirement and habitat improvement.	Stable	Gandhisagar sanctuary
	MP/ S/ GAN			Prosopis juliflora	1992-93	To improve degraded forest.	Increasing	Gandhisagar sanctuary
	MP/ S/ GAN			Sirali	1992-93	To meet NTFP demand and to improve the condition of degraded forest.	Unknown	Gandhisagar sanctuary

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186	MP/ S/ KAR							
187	MP/ S/ KHE	NO	No					
188	MP/ S/ KUN	NP	No					
189	MP/ S/ NAR	NO	No					
190	MP/ S/ NAT	NO	No					
191	MP/ S/ NOR	NP	No					
192	MP/ S/ ORC		NA					
193	MP/ S/ PEN	NO	No					
194	MP/ S/ RAL	NP	No					
195	MP/ S/ SAI	NO	No					
196	MP/ S/ SAR	NP	No					
197	MP/ S/ SON		No					
198	NAG/ N/ INT	NO	Yes	Khair (Acassia catechu)	Pre 1975	To fill up vacancies in the forest	Declining	Intanki National Park
	NAG/ N/ INT	YES		Teak (Tectona grandis)	Pre 1975 and in some areas after 1975 as well.	Plantation in area from where encroachers were evicted	Declining	Intanki National Park
199	NAG/ S/ FAK	NP	No					
200	NAG/ S/ PUL	NP	No					
201	NAG/ S/ RAN	NP	No					
202	ORI/ N+ S/ BHI		Yes	Neepea fruticans		Trial	Stable	Kanika, Rajnagar
203	ORI/ S/ BAD	NP	Yes	Teak	1965/ 66	Restoration/ Restocking	The original plantation has gone but coppice shoots exist.	Badarama
204	ORI/ S/ BAI	NO	Yes	Teak	1965	Commercial plantation	Stable	Banigocha Range
205	ORI/ S/ BAL	NP	No					
206	ORI/ S/ CHA	NO	No					
207	ORI/ S/ CHI	NP	No					
208	ORI/ S/ DEB	NP	Yes	Grass (Stylo hamata)	2001	Development of meadows. (this information has been taken from brief note on the PA)	30Kgs of grass seeds were sown in 2001 when the PA was field visited. Therefore status is not known	Chaurasimal and Dhodrokusum
209	ORI/ S/ HAD	NO	Yes	Teak (Tectona grandis)	Prior to 1971	Commercially most valuable timber species	There is no natural regeneration. The plantations are being destroyed due to illicit felling. But about 50 ha. of teak plantation of 1995-96 still exists in a degraded stage.	Compartment: 6,7,9,11
	ORI/ S/ HAD		Yes	Acacia	1994-95			
	ORI/ S/ HAD		Yes	Eucalyptus	1994-95			
210	ORI/ S/ KAR		No					
211	ORI/ S/ KHA	NP	Yes	Teak	1976	Restocking the area	Stable	Girishchandrapur
212	ORI/ S/ KOT	NP	No					
213	ORI/ S/ KUL		Yes	Teak (Tectona grandis)	50 years back	Introduced during ex-jamindari state		
214	ORI/ S/ LAK	NP	Yes	Teak (Tectona grandis)		Gap filling	Increasing	Chandragiri
215	ORI/ S/ SATN		Yes	Teak (Tectona grandis)	1919	Commercial timber	Declining	Purunakote, Pampasar

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216	ORI/ S/ SATS		Yes	Teak (<i>Tectona grandis</i>)	1958, 1959, 1971	For plantation and crop value addition.	Declining	Chamundia wildlife range
217	ORI/ S/ SIM		NO					
218	ORI/ S/ SUN	NP	No					
219	PUN/ S/ ABO	NP	No					
220	PUN/ S/ AIS	NP	No	N.A.				
221	PUN/ S/ BHA	NP	No	N.A.				
222	PUN/ S/ BHU	NP	No	N.A.				
223	PUN/ S/ DOS	NP	No	N.A.				
224	PUN/ S/ GUR	NP	No	N.A.				
225	PUN/ S/ HAR	NP	No					
226	PUN/ S/ MAH	NP	No					
227	PUN/ S/ MOT	NP	No					
228	PUN/ S/ TAK	NP						
229	RAJ/ N/ DES	NO	Yes	Israeli Babul (<i>Acacia tortalis</i>).	1993-94	Sand dune stabilisation.	Increasing.	All ranges.
	RAJ/ N/ DES			Juilflora (<i>Prosopis juliflora</i>).	1993-94	Fuelwood.	Increasing.	All ranges.
	RAJ/ N/ DES			Rohira (<i>Tecomella undulata</i>).	1993-94	Timber.	Stable.	All ranges.
	RAJ/ N/ DES			Ber (<i>Zyziphus nummularia</i>).	1993-94	Fodder.	Stable.	All ranges.
230	RAJ/ N/ KEO		Yes	Vilayati Babul (<i>Prosopis juliflora</i>)	1955	To increase tree cover	Increasing rapidly	Keoladeo
	RAJ/ N/ KEO		Yes	Water Hyacinth	1950	To beautify the wetlands.	Increasing. Regular removal is carried out.	Keoladeo
	RAJ/ N/ KEO		Yes	Lantana camara	1950	For cosmetic reasons.	Increasing slowly	Keoladeo
231	RAJ/ S/ BAS		Nil					
232	RAJ/ S/ BHA		No					
233	RAJ/ S/ JAI		No					
234	RAJ/ S/ JAM	NO	No					
235	RAJ/ S/ KELA		Yes	Vilayati Babul (<i>Prosopis juliflora</i>)	1984-85 to 1989-90	Meeting fuelwood demand, reforestation degraded and barren areas.	Stable	Karanpur, Baler, Mandrayal, Kela Devi
236	RAJ/ S/ KUM		No					
237	RAJ/ S/ NAH	NO	No					
238	RAJ/ S/ PHU		No					
239	RAJ/ S/ SAJJ		NA					
240	RAJ/ S/ SIT		NA					
241	RAJ/ S/ TAL	YES	No					
242	RAJ/ S/ TOD		No					
243	RAJ/ S/ VAN		No					
244	SIK/ N/ KHA	NO	No					
245	SIK/ S/ BAR	NP	No					
246	SIK/ S/ FAM		Yes	Large cardamom	Before declaration of the PA	Cash crop on the fringes of the sanctuary	Declining	
	SIK/ S/ FAM		Yes	<i>Taxus wallichiana</i>	1992	Medicinal plant grown as an experiment	Stable	
247	SIK/ S/ KYON	NP	Yes	<i>Rhododendron neivium</i>		Conservation	Unknown	Kyongnosla
	SIK/ S/ KYON	NP		<i>Cypripedium tibeticum</i>		Conservation	Unknown	Kyongnosla
248	SIK/ S/ MAE		No					
249	SIK/ S/ SHIN	NP	No					

Table 1.13: Deliberate Introduction of Floral Species into PAs

Sno	PA code	Floral species deliberately		New data 1998-03				
		Old data 1984-87	New data 1998-03	Species introduced	Year of Introduction	Reason of introduction	Current Status	Ranges
250	TN/ N/ GUI		Yes	Hanea coromandelica		Not known	Increasing	Guindy National Park
251	TN/ N/ GUL	NO	No					
252	TN/ N/ IND	NP	Yes	Pine (Pinus petula)	1970	New plantation for fuel coupe for tannery & fuel ever green	Declining	Valparai
	TN/ N/ IND	NP		Eucalyptus grandis	1970		Declining	All ranges
	TN/ N/ IND	NP		Accacia meanseil	1970		Declining	Valparrai
	TN/ N/ IND	NP		Swetinia mahagani	1970	Ever green	Increasing	Top slip
253	TN/ N/ MUD	NO	No					
254	TN/ N/ MUK	NP	No					
255	TN/ S/ CHI	NP						
256	TN/ S/ GRI	NP	No					
257	TN/ S/ KAN	NP	No					
258	TN/ S/ KARA	NP						
259	TN/ S/ KARI	NP						
260	TN/ S/ KOO	NP	N.A					
261	TN/ S/ MEL	NP						
262	TN/ S/ POIN	NP	Yes	Mango	2000	Alternative fruit	Unknown	Kodikkarai
	TN/ S/ POIN			Coconut	2000	Availability for 'Bird & herbivores	Unknown	
	TN/ S/ POIN			Cicatcida	2000	Availability for 'Bird & herbivores	Unknown	
	TN/ S/ POIN			Cashewnut	2000	Availability for 'Bird & herbivores	Unknown	
263	TN/ S/ PUL	NO		Mangrove species (Risofoa)	1996	Eco-development	Declining	
264	TN/ S/ UDA	NP	No					
265	TN/ S/ VAD	NP	Nil					
266	TN/ S/ VALL	NP						
267	TN/ S/ VED	NO	Yes	Barringtonia acutangula	Not known	Providing nesting for birds	Declining	
	TN/ S/ VED			Acacia nilotica	Not known	Providing nesting for birds	Declining	
268	TN/ S/ VELL	NP	Yes	Syzgium cumini	2000	Food source for terrestrial birds	Stable	Erode
	TN/ S/ VELL			Ficus religiosa	2000	Food source for terrestrial birds	Stable	Erode
	TN/ S/ VELL			Ficus bengalensis	2000	Food source for terrestrial birds	Stable	Erode
	TN/ S/ VELL			Ficus glomerata	2000	Food source for terrestrial birds	Stable	Erode
269	TN/ S/ VET	NP	No					
270	TRI/ S/ GUM	NP	Yes	Teak (Tectona grandis)	1962	Commercial plantation	Stable	Tirthmukh
	TRI/ S/ GUM			Karai (Albizzia procera)	1962	Commercial plantation	Stable	Tirthmukh
271	TRI/ S/ TRI	NP						
272	UP/ S/ BAK		No					
273	UP/ S/ CHA		No					
274	UP/ S/ KAC		No					
275	UP/ S/ KAI		No					
276	UP/ S/ KAT		No					
277	UP/ S/ LAKH							
278	UP/ S/ MAH		No					
279	UP/ S/ NAT		No					
280	UP/ S/ NAW							
281	UP/ S/ OKH		NA					
282	UP/ S/ PAR		No					
283	UP/ S/ PAT		No					
284	UP/ S/ RAN		No					

Table 1.13: Deliberate Introduction of Floral Species into PAs

Sno	PA code	Floral species deliberately		New data 1998-03				
		Old data 1984-87	New data 1998-03	Species introduced	Year of Introduction	Reason of introduction	Current Status	Ranges
285	UP/ S/ SAMN		Yes	Prosopis juliflora	1994-95	Habitat improvement	Increasing	Saman Bird Sanctuary
286	UP/ S/ SAMS							
287	UP/ S/ SAN							
288	UP/ S/ SOHA		Yes	Teak (Tectona grandis)		To increase productivity and quality of wood.	Stable	All ranges
289	UP/ S/ SUH		No					
290	UP/ S/ SURA		No					
291	UP/ S/ SURS		Yes	Prosopis juliflora	1979	To cover the barren ravines of Chambal.	Increasing	Sur Sarovar Bird Sanctuary
292	UP/ S/ VIJ		No					
293	UTT/ N/ COR	YES	Yes	Grevillea robusta (Silver Oak)	Unknown	Decoration of rest house premises	Stable	Bijrani
	UTT/ N/ COR			Peltoforum	Unknown	Decoration of rest house premises	Stable	Bijrani
	UTT/ N/ COR			Eucalyptus	Unknown	Decoration of rest house premises	Stable	Bijrani
294	UTT/ N/ GAN		No					
295	UTT/ N+S/ GOV		No					
296	UTT/ S/ ASK		Yes	Kutki (Picrorhiza kurru)	1990	Medicinal properties	Increasing	Hera gomari, Dug, Jyotigarh
	UTT/ S/ ASK		Yes	Jatamansi (Nardostachya grandiflora)	1990	Medicinal properties		
	UTT/ S/ ASK		Yes	Saxifrage lagulata	1990	Medicinal properties		
297	UTT/ S/ BIN	NP	Yes	Deodar	1933-34	Decoration, also used as timber	Increasing, not naturally, but due to plantations carried out, especially on van divas	Binsar
	UTT/ S/ BIN			Some ornamental flowers around rest house		Beautification	The plants are present in a limited area	Binsar
	UTT/ S/ BIN			Akhrot	1992-97	For fruits	Stable	Binsar
298	UTT/ S/ BINO		No					
299	UTT/ S/ KED	NO	No					
300	UTT/ S/ SON		Yes	Teak	1955		Stable (growth rate of the species is poor)	Sonanadi (Pakhrau 8, Dhaukhand 6)
	UTT/ S/ SON		Yes	Kath sagon	1955		Stable (growth rate of the species is poor)	Sonanadi (Pakhrau 8, Dhaukhand 6)
	UTT/ S/ SON		Yes	Ailanthus				
	UTT/ S/ SON		Yes	Eucalyptus			Stable/ increasing	Sonanadi (Dharikand, Kalushahid)
	UTT/ S/ SON		Yes	Silver Oak				
301	WB/ N/ GOR	NP	No					
302	WB/ N/ NEO		Yes	Cupressno cashmirina	1958	Production	Unstable/ declining	East Neora 20 compartments
	WB/ N/ NEO		Yes	Eucalyptus spp.	1974	Production	Declining	East Neora 20 compartments

Table 1.13: Deliberate Introduction of Floral Species into PAs

Sno	PA code	Floral species deliberately		New data 1998-03				
		Old data 1984-87	New data 1998-03	Species Introduced	Year of Introduction	Reason of Introduction	Current Status	Ranges
	WB/ N/ NEO		Yes	Pinus patula	1969	Production	Stable	East Neora 14 compartment
	WB/ N/ NEO		Yes	Pinus insularis	1969	Production	Declining	East Neora 14 compartments
303	WB/ N/ SUN	YES	Yes	Casuarina equisetifolia	1967	To control soil erosion	Stable	NPW
304	WB/ S/ BAL	YES	No					
305	WB/ S/ BET	NP	Yes	Teak (Tectona grandis)	1949	As production forestry	Declining	
	WB/ S/ BET			Napier, Para	Several years back	As fodder for Chital		Within a Part of PA
306	WB/ S/ BIB	NP	No					
307	WB/ S/ CHA		No					
308	WB/ S/ HAL	NP	No					
309	WB/ S/ LOT	NP						
310	WB/ S/ RAI	NP	No					
311	WB/ S/ RAM	NO	No					
312	WB/ S/ SEN	NP	nil					

*Table 1.14: Accidental Introduction of Flora in
PAs*

Table 1.14: Accidental Introduction of Flora in PAs

Sno	PA code	Floral species accidentally introduced into the PA?	Details of accidental introduction
1	A&N/N/SAD		
2	A&N/S/CUT	No	
3	A&N/S/INT		
4	A&N/S/NAR	No	
5	A&N/S/NOR	No	
6	AP/N/KAS	No	
7	AP/N/MAH	No	
8	AP/N/MRU	No	
9	AP/N/VEN	No	
10	AP/S/COR	No	
11	AP/S/ETU	No	
12	AP/S/GUN	No	
13	AP/S/KAW	No	
14	AP/S/KOL	No	
15	AP/S/KOU	No	
16	AP/S/KRI	Yes	Prosopis Juli Flora invading PA
17	AP/S/MAN	No	
18	AP/S/NEL	No	
19	AP/S/PAK	No	
20	AP/S/PAP	No	
21	AP/S/POC	No	
22	AP/S/PRA	No	
23	AP/S/PUL	No	
24	AP/S/SIW	No	
25	ARU/N/MOU	No	
26	ARU/N/NAM	No	
27	ARU/S/DER	No	
28	ARU/S/KAM	No	
29	ARU/S/MEH	No	
30	ARU/S/YOR	No	
31	ASS/N/DIB	Yes	Citrus plants. Year of introduction unknown.
32	ASS/N/KAZ	No	
33	ASS/N/MAN	No	
34	ASS/N/NAME	No	
35	ASS/N/ORA	No	
36	ASS/S/BAR	No	
37	ASS/S/BUR	No	
38	ASS/S/DIP		
39	ASS/S/EKAR	No	
40	ASS/S/GAR	No	
41	ASS/S/GIB	No	
42	ASS/S/KAR	No	
43	ASS/S/LAO	No	
44	ASS/S/NAMB	No	
45	ASS/S/PAN	No	
46	ASS/S/POB	No	
47	ASS/S/SON	No	
48	BIH/S/RAJ	No	
49	CHD/S/SUK	No	
50	CHT/N/IND	No	
51	CHT/N/KAN		
52	CHT/S/ACH	No	

Table 1.14: Accidental Introduction of Flora in PAs

Sno	PA code	Floral species accidentally introduced into the PA?	Details of accidental introduction
53	CHT/S/BAR	No	
54	CHT/S/BHA	No	
55	CHT/S/GOM	No	
56	CHT/S/PAM	No	
57	CHT/S/SIT	No	
58	CHT/S/TAM	Yes	Due to heavy grazing, Cassia tora, Bantulsa and Lantana have come into the PA
59	CHT/S/UDA	No	
60	DEL/S/ASO	No	
61	GOA/S/BON	No	
62	GOA/S/CHO	No	
63	GUJ/N/BAN	No	
64	GUJ/S/PUR	No	
65	GUJ/S/RAT	No	
66	GUJ/S/WIL	No	
67	HAR/N/SUL	No	
68	HAR/S/ABU	No	
69	HAR/S/BHIN	No	
70	HAR/S/BIRB	No	
71	HAR/S/BIRS	No	
72	HAR/S/CHIL	No	
73	HAR/S/KAL		
74	HAR/S/KHA		
75	HAR/S/NAH	No	
76	HAR/S/SAR	No	
77	HP/N/GRE		
78	HP/S/DAR		
79	HP/S/DHA	No	
80	HP/S/GAM	No	
81	HP/S/KAI		
82	HP/S/KAL	No	
83	HP/S/KAN		
84	HP/S/KHO		
85	HP/S/KUG	No	
86	HP/S/LIP	No	
87	HP/S/MAN		
88	HP/S/NAR	No	
89	HP/S/PON	No	
90	HP/S/RUP	No	
91	HP/S/SAN		
92	HP/S/SHI	No	
93	HP/S/TUN	No	
94	J&K/N/HEM	No	
95	J&K/N/KIS	No	
96	J&K/S/CHA	No	
97	J&K/S/KAR	Yes	Poplar ephratica introduced from central Asia during silk route trade.
98	J&K/S/OVE	No	
99	JHA/N/RAJ	No	
100	JHA/S/HAZ	No	
101	JHA/S/PAR		
102	JHA/S/UDH	No	
103	KAR/N/ANS	No	

Table 1.14: Accidental Introduction of Flora in PAs

Sno	PA code	Floral species accidentally introduced into the PA?	Details of accidental introduction
104	KAR/N/BAND	No	
105	KAR/N/BANN	Yes	Eucalyptus hybrid, before 1970 as plantations.
106	KAR/N/KUD	No	
107	KAR/N/NAG	No	
108	KAR/S/ADI	No	
109	KAR/S/ARA	No	
110	KAR/S/ATT	NA	
111	KAR/S/BHA	No	
112	KAR/S/BIL	No	
113	KAR/S/BRA		
114	KAR/S/DAN	Yes	Eupatorium weed, since long back
115	KAR/S/DOR		
116	KAR/S/GHA		
117	KAR/S/GUD		
118	KAR/S/KAV	No	
119	KAR/S/MEL	No	
120	KAR/S/MOO	No	
121	KAR/S/NUG		
122	KAR/S/PUS	No	
123	KAR/S/RANE		
124	KAR/S/RANG	No	
125	KAR/S/SHA		
126	KAR/S/SHE	No	
127	KAR/S/SOM	No	
128	KAR/S/TAL	No	
129	KER/N/ERA	Yes	Black wattle and Acacia mearnsii. The reason for the introduction of these plants is not known.
130	KER/S/ARA	No	
131	KER/S/CHIN	No	
132	KER/S/WAY	No	
133	MAH/N/AND	No	
134	MAH/N/NAV	No	
135	MAH/N/PEN	Yes	Parthenium, Lantana & Cosmos
136	MAH/N/SAN	Yes	Rudraksha- core area, Gulmohar (near tulsi lake)
137	MAH/S/AMB	No	
138	MAH/S/ANE	No	
139	MAH/S/BHA		
140	MAH/S/BHI	No	
141	MAH/S/BOR	No	
142	MAH/S/CHAN	No	
143	MAH/S/CHAP	No	
144	MAH/S/DEU	No	
145	MAH/S/GAU		
146	MAH/S/GRE	No	
147	MAH/S/GYA	No	
148	MAH/S/JAI		
149	MAH/S/KAL	No	
150	MAH/S/KAR	No	
151	MAH/S/KAT	Yes	Lantana camara
152	MAH/S/MAL	No	
153	MAH/S/MAY	No	
154	MAH/S/NAG	No	
155	MAH/S/NAI	No	

Table 1.14: Accidental Introduction of Flora in PAs

Sno	PA code	Floral species accidentally introduced into the PA?	Details of accidental introduction
156	MAH/S/NAR	No	
157	MAH/S/PAI	No	
158	MAH/S/RAD	No	
159	MAH/S/SAG	No	
160	MAH/S/TIP	No	
161	MAH/S/WAN	No	
162	MAH/S/YAW	No	
163	MAH/S/YED		
164	MAN/N/KEI	No	N.A.
165	MAN/S/YAN	No	
166	MEG/N/BAL	No	
167	MEG/N/NOK	No	
168	MEG/S/BAG	No	
169	MEG/S/NON	No	
170	MEG/S/SIJ	No	
171	MIZ/N/MUR		
172	MIZ/N/PHA	No	N.A.
173	MIZ/S/DAM	No	
174	MIZ/S/KHA	No	N.A.
175	MIZ/S/LEN	No	
176	MIZ/S/NGE	No	N.A.
177	MP/N/BAN		N.A.
178	MP/N/GHU	No	No
179	MP/N/PEN	No	
180	MP/N/SAN	No	
181	MP/N/SAT	No	
182	MP/N/VAN	No	
183	MP/S/BAD	No	
184	MP/S/BAG	No	
185	MP/S/GAN	No	
186	MP/S/KAR		
187	MP/S/KHE	No	
188	MP/S/KUN	No	N.A.
189	MP/S/NAR	No	N.A.
190	MP/S/NAT		
191	MP/S/NOR	Yes	Subaboel/ Parthenium/ Lantana/ Eucalyptus.
192	MP/S/ORC	No	
193	MP/S/PEN	No	
194	MP/S/RAL		N.A.
195	MP/S/SAI	No	N.A.
196	MP/S/SAR	No	
197	MP/S/SON	No	
198	NAG/N/INT	No	
199	NAG/S/FAK	No	
200	NAG/S/PUL	No	
201	NAG/S/RAN	No	
202	ORI/N+S/BHI	No	
203	ORI/S/BAD	No	
204	ORI/S/BAI	No	
205	ORI/S/BAL	No	
206	ORI/S/CHA	No	
207	ORI/S/CHI	No	

Table 1.14: Accidental Introduction of Flora in PAs

Sno	PA code	Floral species accidentally introduced into the PA?	Details of accidental introduction
208	ORI/S/DEB	No	
209	ORI/S/HAD	No	
210	ORI/S/KAR	No	
211	ORI/S/KHA	No	
212	ORI/S/KOT	No	
213	ORI/S/KUL	No	
214	ORI/S/LAK	No	
215	ORI/S/SATN	No	
216	ORI/S/SATS	No	
217	ORI/S/SIM	No	
218	ORI/S/SUN	No	
219	PUN/S/ABO	No	
220	PUN/S/AIS	No	N.A.
221	PUN/S/BHA	No	N.A.
222	PUN/S/BHU	No	N.A.
223	PUN/S/DOS	No	N.A.
224	PUN/S/GUR	No	N.A.
225	PUN/S/HAR	No	N.A.
226	PUN/S/MAH	No	N.A.
227	PUN/S/MOT	No	No
228	PUN/S/TAK		N.A.
229	RAJ/N/DES	No	
230	RAJ/N/KEO	No	
231	RAJ/S/BAS	No	
232	RAJ/S/BHA	No	
233	RAJ/S/JAI	No	
234	RAJ/S/JAM	No	
235	RAJ/S/KELA	No	
236	RAJ/S/KUM	No	
237	RAJ/S/NAH	No	
238	RAJ/S/PHU	No	
239	RAJ/S/SAJJ	NA	
240	RAJ/S/SIT	No	NA
241	RAJ/S/TAL	No	
242	RAJ/S/TOD	No	
243	RAJ/S/VAN	No	
244	SIK/N/KHA		
245	SIK/S/BAR	No	
246	SIK/S/FAM	No	
247	SIK/S/KYON	No	
248	SIK/S/MAE	No	
249	SIK/S/SHIN	No	
250	TN/N/GUI	Yes	Acacia auricodi famis- dry species
251	TN/N/GUL		
252	TN/N/IND	No	
253	TN/N/MUD	Yes	Eupatorium, II world war, Lantana during British time
254	TN/N/MUK	No	
255	TN/S/CHI		
256	TN/S/GRI	No	
257	TN/S/KAN	No	
258	TN/S/KARA		

Table 1.14: Accidental Introduction of Flora in PAs

Sno	PA code	Floral species accidentally introduced into the PA?	Details of accidental introduction
259	TN/S/KARI		
260	TN/S/KOO	No	
261	TN/S/MEL		
262	TN/S/POIN	No	
263	TN/S/PUL	No	
264	TN/S/UDA	No	
265	TN/S/VAD	No	
266	TN/S/VALL	No	
267	TN/S/VED	No	
268	TN/S/VELL	No	
269	TN/S/VET	No	
270	TRI/S/GUM	Yes	Some weeds come up accidentally in light deficient areas in the sanctuary
271	TRI/S/TRI		
272	UP/S/BAK	Yes	Water hyacinth
273	UP/S/CHA	No	
274	UP/S/KAC	No	
275	UP/S/KAI	No	
276	UP/S/KAT	Yes	Lantana and Parthenium have been accidentally introduced.
277	UP/S/LAK		
278	UP/S/MAH	No	
279	UP/S/NAT	No	
280	UP/S/NAW		
281	UP/S/OKH	No	
282	UP/S/PAR	No	
283	UP/S/PAT	No	
284	UP/S/RAN	No	
285	UP/S/SAMN	No	
286	UP/S/SAMS		
287	UP/S/SAN		
288	UP/S/SOH		
289	UP/S/SUH	No	
290	UP/S/SURA	No	NA
291	UP/S/SURS	Yes	Prosopis juliflora. It was introduced by the social forestry division in year 1979 to cover the barren ravines.
292	UP/S/VIJ	No	
293	UTT/N/COR	No	
294	UTT/N/GAN	No	
295	UTT/N+S/GOV	No	NA
296	UTT/S/ASK	Yes	A number of non native species have been introduced in the PA accidentally. Year and Circumstances of introduction not known. (Dhar et al in Biodiversity and Conservation 1997).
297	UTT/S/BIN	No	
298	UTT/S/BINO	No	
299	UTT/S/KED	No	
300	UTT/S/SON	No	
301	WB/N/GOR	No	
302	WB/N/NEO	No	
303	WB/N/SUN		

Table 1.14: Accidental Introduction of Flora in PAs

Sno	PA code	Floral species accidentally introduced into the PA?	Details of accidental introduction
304	WB/S/BAL	No	
305	WB/S/BET	Yes	Hamjam (<i>Polyalthea suberosa</i>). At present, abundant. It was introduced along with Chital from Orissa.
306	WB/S/BIB	No	
307	WB/S/CHA	No	
308	WB/S/HAL	No	
309	WB/S/LOT		
310	WB/S/RAI	No	
311	WB/S/RAM	No	
312	WB/S/SEN		

Table 1.15: Threatened Species of Flora in PAs

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
1	AP/S/GUN		Yes	Litsea decanarsis	GBM		Over exploitation for Bark	
	AP/S/GUN	NP *		Stercutia urens	GBM		Over exploitation for Gum	
	AP/S/GUN			Litsea decanarsis	GBM		Over exploitation for Bark	
	AP/S/GUN			Strychnos cinnamomifolia	GBM, Baireni			
2	AP/S/KAW	NO	Yes	Tapsi (Stercula urens)	Jannaram Indanpally, BirsaiPET.		Over exploitation by the gum collector as a NTFP	Recently it is being introduced in the vss plantation areas
	AP/S/PAP			Pterocarpus marsupium	Whole sanctuary	25%	Illicit felling and Podu cultivation	Protection
	AP/S/PAP			Tectona grandis	Polavaram and V.R.Puram	50%	Illicit felling	Booking of offences protection
3	AP/S/PAP	NO	Yes	Dalbergia latifolia - Rose wood	Rampachoduvaram, Polavaram	50%	Illicit felling	Protection
	AP/S/PAP			Pterocarpus marsupium	Whole sanctuary	25%	Illicit felling and Podu cultivation	Protection
	AP/S/PAP			Tectona grandis	Polavaram and V.R.Puram	50%	Illicit felling	Booking of offences, protection
	AP/S/PRA			Maliva arborea, Diospyros nelanoxylon	Chennur, Neelwai	75%	Heavy pressure from the fringe villagers for fire wood and s	Under JFM prog. the locally threatened sp. were given due importance to regenera
4	AP/S/PRA	NO	Yes	Marri				
	AP/S/PRA			Strichnous nuxvomica				
	AP/S/PRA			Maliva arborea	Chennur,	75%	Heavy pressure from the fringe villagers for fire wood and small timber	Under JFM prog. the locally threatened sp. were given due importance to regenerate the declining flora.
	AP/S/PRA			Diospyros nelanoxylon	Nilwai	75%		
	AP/S/PRA			Marri (Buchanania laxzen)				
5	ARU/N/NAM	NO	Yes	Data not available				
6	ARU/S/MEH	NO	Yes	Data not available				
7	ARU/S/YOR	NP	Yes	Coptis teeta (Mishimi teeta)	North-Western Ranges	Not known	Over exploitation	None
8	ASS/S/BAR	NP	Yes	Teak (Tectona grandis)	Plains area		Illegal felling for commercial use	Strict protection has been accorded to the area

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	ASS/S/BAR			Gomari (Gmelina arboria)	Plains and hill areas		Illegal felling for commercial use	Strict protection has been accorded to the area
	ASS/S/BAR			Simul (Bambax ceiba)	Plain areas		Illegal felling for commercial use	Strict protection has been accorded to the area
	ASS/S/BAR			Bansom (Phoebe goalparensis)	Hill areas		Illegal felling for commercial use	Strict protection has been accorded to the area
	ASS/S/BAR			Gomari (Gmelina arboria)	Plains and Hills area	Illegal felling	Commercial requirement	Streak protection has been given
	ASS/S/BAR			Simul (Bambax cibai)	Plains area	Illegal felling	Commercial requirement	Streak protection has been given
	ASS/S/BAR			Bansom (Phoebe goalparensis)	Hills area	Illegal felling	Commercial requirement	Streak protection has been given
9	ASS/S/LAO	NP	Yes	Sisoo (Dallargia Sisoo)	Throughout the PA		Felling	
	ASS/S/LAO			Gomari (Gamdina arboria)	Throughout the PA		Felling	
	ASS/S/LAO			Koroi (Albeigia procara)	Throughout the PA		Felling	
	ASS/S/LAO			Ajar (Lagesthomia flosreginae)	Throughout the PA		Felling	
	ASS/S/LAO			Gomari (Gamdina arboria)	Throughout the PA		Tree Felling	
	ASS/S/LAO			Koroi (Albeigia proc)	Throughout the PA		Tree felling	
	ASS/S/LAO			Ajar (Lagesthomia flosreginae)	Throughout PA		Tree felling	
10	ASS/S/SON	NP	Yes	Bonsum (Phoebe goalparensis)	Central and Dhekiajuli ranges	Not assessed	Felling by encroachers	Regular patrolling to protect the forests
11	CHD/S/SUK	NO	Yes	Lantana (Lantana camara)	Kansal and Nepli Range			Removal of Congress Grass and burning of Lantana Camera time to time, but remain as such.
	CHD/S/SUK			Congress Grass (Parthenium)	Kansal and Nepli Range			Removal of Congress Grass and burning of Lantana Camera time to time, but remain as such.
	CHD/S/SUK			Safeda (Eucalyptus)	Kansal and Nepli Range			Removal of Congress Grass and burning of Lantana Camera time to time, but remain as such.

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Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	CHD/S/SUK			Congress Grass (Parthenium)	Kansal and Nepli Range			Removal of Congress Grass & burning of Lantana Camera time to time, but remain a
	CHD/S/SUK			Safeda (Eucalyptus)	Kansal and Nepli Range			Removal of Congress Grass & burning of Lantana Camera time to time, but remain a
12	CHT/S/GOM		Yes	Sal (Shorea robusta)	Gomarda	0.02 sq.km.	Badly used by people.	None
13	CHT/S/TAM	NO	Yes	Lodh (Symlocos raxemosa)	Game Rang Tamor Pingla	218 sq km	Due to commercial value of the plant	
	CHT/S/TAM			Meda(Litsea glurnosa)	Game range Tamor Pingla	Normal 218sqkm	Due to commercial value	
	CHT/S/TAM			Char(BuchananiaLanzn	Game Range Tamor Pingla	Decline area 175sqkm	Due to commercial value	
	CHT/S/TAM			Meda (Litsea glutinosa)	Game range Tamor Pingla	218 sq km	Due to commercial value of the plant	
	CHT/S/TAM			Char (Buchanania Lanzan)	Game Range Tamor Pingla	175 sq km	Due to commercial value of the plant	
14	GUJ/N/BAN	NO	Yes	Teak (Tectona grandes)	National park Bansda		Due to commercial value of the species	Management plan has been prepared to protect the plants
	GUJ/N/BAN			Sissam (Delbergia sisoo(National park Banda		Due to commerical timber species	Management plan has been prepared to protect the plants
	GUJ/N/BAN			khari (accia catechu	National park Bansda)		Due to commercial timber species	Management plan has been prepared to protect the plants
	GUJ/N/BAN			Charoli	National park Bansda		Due to commerical timber species	Management plan has been prepared to protect the p
	GUJ/N/BAN			Sissam (Dalbergia sisoo)	National park Banda		Due to commercial value of the species	Management plan has been prepared to protect the plants
	GUJ/N/BAN			Khair (acacia catechu)	National park Bansda)		Due to commercial value of the species	Management plan has been prepared to protect the plants
	GUJ/N/BAN			Charoli	National park Bansda		Due to commercial value of the species	Management plan has been prepared to protect the plants
15	GUJ/S/PUR	NP	Yes	Teak, Sissam, Khair			Pressure from birds	Prescribed in the management plan
	GUJ/S/PUR			Sissam				
	GUJ/S/PUR			Khair				
16	GUJ/S/WIL	NP	Yes	Aeluropus lagopoides (En)	Adesar (Maliya)			
	GUJ/S/WIL			Arthrocnemum Indicum (VV)				

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Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	GUJ/S/WIL			Suaeda maritima (EN)				
	GUJ/S/WIL			Suaeda Nudiflora (EN)				
	GUJ/S/WIL			Tamarix troupii (EN)				
	GUJ/S/WIL			Urochondra setulosa				
	GUJ/S/WIL			Arthrocnemum Indicum (Vv)	Adesar (Maliya)			
	GUJ/S/WIL			Suaeda maritima (En)	Adesar (Maliya)			
	GUJ/S/WIL			Suaeda nudiflora (En)	Adesar (Maliya)			
	GUJ/S/WIL			Tamarix troupii (En)	Adesar (Maliya)			
	GUJ/S/WIL			Urochondra setulosa (En)	Adesar (Maliya)			
17	HAR/S/BIRB	NP	Yes	Neem	Bir Bara Ban Jind	10 numbers	FEL	N.A
	HAR/S/BIRB			Sisham	Bir Bara Ban Jind	20 no.	FEL	N.A
	HAR/S/BIRB			Shisham	Bir Bara Ban Jind	20 numbers	FEL	N.A
18	HP/S/KAI		Yes	Taxus Baccata	Entire PA		An unidentified disease that is causing these trees to dry suddenly.	
19	JHA/S/HAZ	NO	Yes	All the species except weeds	Entire PA		Habitat destruction by felling, grazing, fires, etc.	Plantation has been done to fill gaps and improve habitat in a small part of the PA
20	KAR/N/ANS	NP	Yes	Memecylon edule	Anashi		Illicit Felling in the past	Strict protection being given now. Decline arrested
21	KAR/S/BIL		Yes	Sandalwood	All ranges	Full sanctuary	Extraction	Seed sown
22	KAR/S/BIL		Yes	Bamboo (Dendro calamus strictus, B. arundica)	Dry deciduous & fringe areas	Full sanctuary	Extraction	Seed sown
23	KAR/S/DAN	NO	Yes	karimuttal-Ougenia dalbergoides	Kulgi Wildlife Range	Lower age classes are missing	Seedlings browsed	
24	KAR/S/GUD		Yes	Nandi	Gudavi Birds Sanctuary		Due to heavy population and encroachment	Protection given for the growth as well as Birds
	KAR/S/GUD			Matti	Gudavi Birds Sanctuary		Due to heavy population and encroachment	Protection given for the growth as well as Birds
	KAR/S/GUD			Honne	Gudavi Birds Sanctuary		Due to heavy population and encroachment	Protection given for the growth as well as Birds

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Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	KAR/S/GUD	NP		Beete	Gudavi Birds Sanctuary	1 Beete Tree	Due to heavy population and encroachment	Protection given for the growth as well as Birds
	KAR/S/GUD			Nandi	Gudavi Birds Sanctuary		Due to heavy population and encroachment	Protection given for the growth as well as Birds
	KAR/S/GUD			Matti	Gudavi Birds Sanctuary		Due to heavy population and encroachment	Protection given for the growth as well as Birds
	KAR/S/GUD			Honne	Gudavi Birds Sanctuary		Due to heavy population and encroachment	Protection given for the growth as well as Birds
25	KAR/S/MEL	NO	Yes	Cycus circinalis	Narayanadurga & Mudibetta SF	Slightly declined in the past	Collection by the villagers for mat making & for ornamental use	Rigid protection is being given
26	KAR/S/MOO	NO	Yes	Ailanthus Malabarica, Cinnamomum Zeeplanica		Not evaluated		No
	KAR/S/MOO			Myristica Malabarica		Not evaluated		No
	KAR/S/MOO			Ashoka - Saraca Indica, Entada Scandens		Not evaluated		No
	KAR/S/MOO			Ailanthus Malabarica, Cinnamomum Zeeplanica		Not evaluated		No
	KAR/S/MOO			Myristica Malabarica		Not evaluated		No
27	KAR/S/SHA	NO	Yes	Sandal	Kogan		Due to heavy population & for cutting here & theft	Protection give for the growth
	KAR/S/SHA			Nandi			Due to heavy population & for cutting here & theft	Protection give for the growth
	KAR/S/SHA			Beete - Dalbergia latifolia	Kargal		Due to heavy population and for cutting here and theft	Protection give for the growth
	KAR/S/SHA			Sandal	Kogan		Due to heavy population & for cutting here & theft	Protection give for the growth

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Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	KAR/S/SHA			Nandi-Lagaestromeia			Due to heavy population & for cutting here & theft	Protection give for the growth
	KAR/S/SHE			Sandal - Santalum album	Shimoga, Hanagere, Sacrebyle		Theft	
28	KAR/S/SHE	NO	Yes	Beete - Dalbergia latifolia	Shimoga, Sacrebyle		Theft	
	KAR/S/SHE			Sandal - Santalum album	Shimoga, Hanagere, Sacrebyle		Theft	
29	KER/S/WAY	NO	Yes	Sandal wood	Entire PA	172.22 sq. km.	Fungal disease	None
	KER/S/WAY			Kanikonna-Cassia fistula	All ranges	25%	Fungal disease	Planting fire tracing
	KER/S/WAY			Chuvamnakil-Toona ci	All ranges	80%	Borer attack	Planting
	KER/S/WAY			Vella chadachi-Kydia/Calyane	All ranges	60%	Elephant damage	None
	KER/S/WAY			Shore tehura	Muthanga S.Bathery	Over 50%	Climatic change	Planting fire tracing
	KER/S/WAY			Cassis fistula	Entire PA	86.11 sq. km.	Fungal disease	Planting and fire tracing
	KER/S/WAY			Toona ciliata	Entire PA	275.55 sq. km.	Borer attack	Planting
	KER/S/WAY			Vella chadachi	Entire PA	206.66 sq. km.	Elephant damage	None
	KER/S/WAY			Shorea telura	Muthanga and Sulthan Bathery	172.22 sq. km.	Climatic change	Planting and fire tracing
30	MAH/N/NAV		No	No				
31	MAH/N/PEN		Yes	Sterculia urens		To be studied scientifically	Overuse	To be undertaken
	MAH/N/PEN			Buchanania laneana				
	MAH/N/PEN			Semicarpus anacardium				
	MAH/N/PEN	NO		Diospyros melanoxylon	EPR	To be studied scientifically	Over use	To be undertaken
	MAH/N/PEN			Sterculia urens		To be studied scientifically	Overuse	To be undertaken
	MAH/N/PEN			Buchanania laneana		To be studied scientifically	Overuse	To be undertaken
	MAH/N/PEN			Semicarpus anacardium		To be studied scientifically	Overuse	To be undertaken
32	MAH/S/AMB	NP	Yes	Bambusa bambus(Bamboo)	Sonala	Entire range	Illicit cutting	Protection plan
33	MAH/S/ANE	NO	Yes	Anjan(Hardwickia binnata),	Aner dam	30%	Illicit cutting	Patrolling

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Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	MAH/S/ANE			Salai(Boswellia sierrata)	Aner dam	30%	Illicit cutting	
34	MAH/S/ANR		Yes	Salai(Boswellia sierrata)	Aner dam	30%	Illicit cutting	
35	MAH/S/GAU	NP	Yes	Teak	Kannad, Nagad	Not known		Total protection
	MAH/S/GAU			Chandan	Chalisgaon, Kannad, Nagad	Not known	Illicit cutting	Total protection
	MAH/S/GAU			Teak	Kannad, Nagad	Not known		Total protection
36	MAH/S/GYA		No	None				
37	MAH/S/JAI		No	None				
38	MAH/S/KAL	NO	Yes	Terminalia chebula, Terminalia tomentosa & Amla				
39	MAH/S/KAR		No	Nil				
40	MAH/S/KAT		No	NO				
41	MAH/S/NAG	NO	Yes	Tendu	Nagzira entire	Moderate	Illicit extraction	Vigilance, Patrolling
	MAH/S/NAG			Mahua	Nagzira entire	Moderate	Illicit extraction	
	MAH/S/NAG			Teak	Nagzira entire	Severe	Illicit cutting	Vigilance & Patrolling
	MAH/S/NAG			Tendu	Nagzira entire	Moderate	Illicit extraction	Vigilance, Patrolling
	MAH/S/NAG			Mahua	Nagzira entire	Moderate	Illicit extraction	Vigilance & Patrolling
42	MAH/S/NAI		No	NO				
43	MAH/S/NAR	NP	Yes	Chandan(Santalum album), Shisham(Dalbergia latifolia)	NA		Valuable species	
44	MAH/S/PAI	NP	Yes	Bija(Torocarpus Marsupirm)	Both ranges	Data not avb.	Lack of regeneration fire	No
	MAH/S/PAI			Teak	Both ranges		Illicit felling	No
	MAH/S/PAI			Sisum	Sondhabi & Kharbi range	Data not available.	Lack of regeneration & fire	No
	MAH/S/PAI			Teak	Sondhabi & Kharbi range	Data not available.	Illicit felling	No
	MAH/S/PAI			Bijasal(Pterocarpus marsupium)	Sondhabi & Kharbi range	Data not available.	Lack of regeneration & fire	No
43	MAH/S/RAD	NO	Yes	Entada				
44	MAH/S/SAG		No	None				
45	MAH/S/TIP	NP	Yes	Sterculia urens	Tipeshwar			
46	MAH/S/WAN	NP	Yes	Safed Murali	Van+Somthana	40%	Heavy uprooting	
47	MAN/N/KEI	NO	Yes	Ishing Kambong (Zizania latifolia)				

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Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
48	MAN/S/YAN		Yes	Tectona grandis		This species has disappeared from 75% of the PA.	Over exploitation	Protection has been strengthened.
	MAN/S/YAN			Dipterocarpus spp.		This species has disappeared from 40% of the PA.	Over exploitation	Protection has been strengthened.
49	MEG/N/BAL	NP	Yes	Agarwood (Aquilaria agallocha)	All the ranges	Not ascertained	Commercial exploitation	Sanctuary created at Baghmara
	MEG/N/BAL			Pitcher plant (Nepenthes khasiana)	All the ranges	Not ascertained	Unawareness to endemic existence	
	MEG/N/BAL			Persia villosa	All the ranges	Not ascertained	Bark is of medicinal importance	
	MEG/N/BAL			Litsea polianthia	All the ranges	Not ascertained	Bark is of medicinal importance	
	MEG/N/BAL			Species of orchids	All the ranges	Not ascertained	Loss of habitat	
	MEG/N/BAL			Pitcher Plant (Nepenthes khasiana)	All the ranges	Not ascertained	Bark is of medicinal importance	
	MEG/N/BAL			Persia vilasa	All the ranges	Not ascertained	Bark is of medicinal importance	
	MEG/N/BAL			Orchid species (Litsea polianthia)	All the ranges	Not ascertained	Loss of habitat	
50	MEG/N/NOK	NP	Yes	Pitcher plant (Nepenthes khasiana)	Southern slope	Not available	Destruction of habitat	No
51	MEG/S/SIJ	NO	Yes	Agar wood (Aquilaria agallocha)	Siju Wildlife Range	Not ascertained	Commercial exploitation	
	MEG/S/SIJ			Nepenthes uhariana(Pitcher Plant)	Siju Wildlife Range	Not ascertained	Unawareness of endemic existence	
	MEG/S/SIJ			Persia vilasa	Siju Wildlife Range	Not ascertained	Barks is of medicinal value	
	MEG/S/SIJ			Litsea polianthia	Siju Wildlife Range	Not ascertained	Barks is of medicinal value	
	MEG/S/SIJ			Spps of Orchids	Siju Wildlife Range	Not ascertained	Lost of habitat	
	MEG/S/SIJ			Pitcher Plant (Nepenthes khasiana), Persia vilasa, Orchid species (Litsea polianthia)	Siju Wildlife Range	Not ascertained	Commercial value	

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Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
52	MIZ/N/PHA	NP	Yes	Blue Vanda	Phawngpui	No decline at present	People from Burma attempt collection.	N.A.
	MIZ/N/PHA			Pitcher plant	Phawngpui	No decline at present	People from Burma attempt collection.	N.A.
	MIZ/N/PHA			Ladies Slipper Orchid	Phawngpui	No decline at present	People from Burma attempt collection.	N.A.
	MIZ/N/PHA			Pitcher Plant	Phawngpui	No decline at present	People from Burma attempt collection due to strict patrollin	N.A.
	MIZ/N/PHA			Ladies Slipper	Phawngpui	No decline at presen	People from Burma attempt collection due to strict	N.A.
53	MP/N/SAT	YES	Yes	Psilotum rundum	Pachmarhi	Very rare	Botanical collection.	All botanical collections have been banned.
	MP/N/SAT			Cyathea gigantea	Park Pachmarhi	very rare	Botanical Collections	All Botinical collections have been banned
	MP/N/SAT			Cyathea Spenulesa	Park Pachmarhi	Very rare	Botanical collections	All Botinical collections have been banned
	MP/N/SAT			Osmmadu regilis	Park Pachmarhi	rare	Botanical collection	All Botinical collections have been banned
	MP/N/SAT			Lygodium flernosnon	Park Pachmarhi	rare	Botanical collections	All Botinical collections have been banned
	MP/N/SAT			Lycopodium	Park Pachmarhi	Very rare	Botanical collections	All Botinical collections have been banned
	MP/N/SAT			Drosere lurmarii	Park Pachmarhi	Very rare	Botanical collections	All Botinical collections have been banned
	MP/N/SAT			Cyathea gigantea	Pachmarhi	Very rare	Botanical collection.	All botanical collections have been banned.
	MP/N/SAT			Cyathea spenulesa	Pachmarhi	Very rare	Botanical collection.	All botanical collections have been banned.
	MP/N/SAT			Osmmada regilis	Pachmarhi	Rare	Botanical collection.	All botanical collections have been banned.
	MP/N/SAT			Lygodium flernosnon	Pachmarhi	Rare	Botanical collection.	All botanical collections have been banned.
	MP/N/SAT			Lycopodium	Pachmarhi	Very rare	Botanical collection.	All botanical collections have been banned.

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Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	MP/N/SAT			Drosera lurmarii	Pachmarhi	Very rare	Botanical collection.	All botanical collections have been banned.
54	MP/S/NAR	NO	Yes	Chandan (Santalum album)	Narsingarh	500 hectares	Illegal trading	Area is protected. Regeneration is increasing.
	MP/S/NAR			Acacis catechu (Khair)	Narsingarh	2000 Hac.	illicit felling	Area is protected regeneration is increasing.
	MP/S/NAR			Chlorophytun aundina	Narsingarh	500 Hac.	Medicinal value	Area is protected regeneration is increasing.
	MP/S/NAR			Annona & quamosa (silaphal)	Narsingarh	1500 Hac.	Commerical value	Area is protected regeneration is increasing.
	MP/S/NAR			Khair (Acacia catechu)	Narsingarh	2000 hectares	Illicit felling	Area is protected. Regeneration is increasing.
	MP/S/NAR			Safed musali (Chlorophytum arundinacum)	Narsingarh	500 hectares	Medicinal value	Area is protected. Regeneration is increasing.
	MP/S/NAR			Sitaphal (Annona squamosa)	Narsingarh	1500 hectares	Commercial value	Area is protected. Regeneration is increasing.
55	NAG/N/INT	NO	Yes	Aquilaria agallocha (Agarwood)	Intanki	Decline in number of standing trees	Illegal extraction of agarwood	None
56	ORI/S/BAD	NP	Yes	Bandhan(Rugeima oogineais),Sissoo(Dalbeagin sisoo), Gambhhari (Gmelina arborera)	Badarma	Not known	Illicit felling	Patrolling has been initiated
	ORI/S/BAD			Bija(Pterocarpus mersupium)	Badarma	Can't say	Illicit felling	Patrolling has been initiated
	ORI/S/BAD			Bija(Pterocarpus mersupium)	Badarma	Not known	Illicit felling	Patrolling has been initiated
57	ORI/S/BAL	NP	Yes	Bhoja patta	Balukhand			None
58	ORI/S/CHA	YES	Yes	Shorea robusta	Dompada		Smuggling of timber, fire and lack of natural regeneration.	No mature tree is available in the PA. The sal patch of coppice origin is now protected.
59	ORI/S/DEB	NP	Yes	Bija (Pterocarpus marsupium)	Lakhanpur and Kamgaon range.	20 sq.km. of the PA that used to harbour this plant has seen a decline in its numbers.	Illicit felling by peripheral villagers and smugglers.	Regular patrolling is being carried out.

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				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
60	ORI/S/HAD	NP	Yes	Ashoka(Saraca indica),Nageswar(Mesua ferrea), Cham	Compartment: 1,6,13,14	Reduction of moist sites along perennial streams of the PA	Due to encroachment, intensive biotic interference, illicit felling, overgrazing, fire.	No initiative have been taken due to failure of relocation of encroachers outside the PA.
	ORI/S/HAD			Sisham(Dalbergia sisoo),Bija(pterocarpus marsupium	Compt: 2,3,5,7,8,10	Decline due to illicit felling	Due to encroachment, Intensive biotic interference, illicit felling	No initiative have been taken due to failure of relocation of encroachers outside the PA. There is a need for curbing smugglers and to touch all encroached villages
	ORI/S/HAD			Cycas(Cycas bedomii)	Compt: 7	Rampant collection	Due to encroachment, Intensive biotic interference, illicit felling	No initiative have been taken due to failure of relocation of encroachers outside the PA. There is a need for curbing smugglers and to touch all encroached villages
	ORI/S/HAD			Sisham(Dalbergia sisoo),Bija(Pterocarpus marsupium	Compartment: 2,3,5,7,8,10		Due to encroachment, intensive biotic interference, illicit felling, overgrazing, fire.	No initiative have been taken due to failure of relocation of encroachers outside the PA.
	ORI/S/HAD			Cycas(Cycas bedomii)	Compartment: 7	Rampant collection of root stock.	Due to encroachment, intensive biotic interference, illicit felling, overgrazing, fire.	No initiative have been taken due to failure of relocation of encroachers outside the PA.
61	ORI/S/KHA	NP	Yes	Bandhan,Rosewood,Sisoo	Girishchandrapur	Number of trees are declining	Illicit felling	None
62	ORI/S/KUL		Yes	Sal (Shorea Robusta), Pia Sal (Pterocarpus marsupium), Sisoo (Dalbergia Sisoo), Kasi (Bradelin retusa), Teak (Tectona Grandis) and Kaim (Adina Cordifolia)	Throughout the PA	At present there is very less Pia Sal, Sisoo and Kasi in the PA. Each year there is destruction of 5% to 7% of Sal, Teak and Kaim in the PA	There is heavy biotic pressure. Because the PA has the only forests remaining in Balasore and Bhadrak District and the PA is surrounded by villages.	Regular range mobile squad and divisional mobile parties are deployed to protect the forest. Other departmental works are taken up for regeneration of valuable species.

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
63	ORI/S/SATN		Yes	Kangada (<i>Xylia xylocarpa</i>)	Purunakote, Katrang	Declined in number	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Sissoo (<i>Dalbergia sissoo</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Patuli (<i>Stereospermam chelonoides</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Bandhan (<i>Ongenia oojensis</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Gambhar (<i>Gmelina arborea</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Kurum (<i>Adina cordifolia</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Asan (<i>Terminalia alata</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Siris (<i>Albizia lebbek</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Bahada (<i>Terminalia belerica</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Harida (<i>Terminalia chebula</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Dhaura (<i>Anogeissus latifolia</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Mahul (<i>Madhuca indica</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Gilla (<i>Enteda phasesloides</i>)	Katrang	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Mirigchara (<i>Grewia elastica</i>)	Katrang	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Patal garud (<i>Rautfia serpentina</i>)	Majhipada	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
	ORI/S/SATN			Piasal (<i>Pterocarpus marsupian</i>)	All forest blocks	Survey 1968-1988	Illicit over exploitation	None, due to dearth of fund, non allocation of fund.
64	RAJ/S/JAI		No	None				
65	RAJ/S/JAM	NO	Yes	Dhok (<i>Anogeissus pendula</i>).	Jamwa Ramgarh.	Not studied.	Biotic pressure	Plantation in degraded areas and preventive measures are being taken.

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	RAJ/S/JAM			Fiscus relegiosa (Pipal)	Jamwa Ramgarh	Not studied	Biotic pressure	Plantation in degraded areas and preventive measure are being taken under wild I
	RAJ/S/JAM			Sterculia ureus (kad)	Jamwa Ramgarh	Not studied	Biotic pressure	
	RAJ/S/JAM			Boswallia serrate (Salar)	Jamwa Ramgarh	Not studied	Biotic pressure	
	RAJ/S/JAM			Syzygium euminii (Jamua)	Jamwa Ramgarh	Not studied	Biotic pressure	
	RAJ/S/JAM			Acacia catchr (Khari)	Jamwa Ramgarh	Not studied	Biotic pressure	
	RAJ/S/JAM			Dendrocalamus strict	Jamwa Ramgarh	Not studied	Biotic pressure	
	RAJ/S/JAM			Terminalis spp.	Jamwa Ramgarh	Not studied	Biotic pressure	
	RAJ/S/JAM			Pipal (Fiscus relegiosa).	Jamwa Ramgarh.	Not studied.	Biotic pressure	Plantation in degraded areas and preventive measures are being taken.
	RAJ/S/JAM			Kadaya (Sterculia ureus).	Jamwa Ramgarh.	Not studied.	Biotic pressure.	
	RAJ/S/JAM			Salar (Boswellia serrata).	Jamwa Ramgarh.	Not studied.	Biotic pressure.	
	RAJ/S/JAM			Jamun (Syzygium cuminii).	Jamwa Ramgarh.	Not studied.	Biotic pressure.	
	RAJ/S/JAM			Khair (Acacia catechu).	Jamwa Ramgarh.	Not studied.	Biotic pressure.	
	RAJ/S/JAM			Dendrocalamus strictus.	Jamwa Ramgarh.	Not studied.	Biotic pressure.	
	RAJ/S/JAM			Terminalia species	Jamwa Ramgarh.	Not studied.	Biotic pressure.	
66	RAJ/S/KELA		Yes	Googal (Commiphora wightii)	All ranges	NA	Lack of regeneration	Nil
	RAJ/S/KELA			Karaya (Sterculea urenus)	All ranges	NA	Lack of regeneration	Nil
	RAJ/S/KELA			Salar (Boswellia serrata)	All ranges	NA	Lack of regeneration	Nil
67	RAJ/S/NAH	NO	Yes	Dhok (Anogeissus pendula).	Nahargarh.	50 head loads per day	Biotic pressure fuel wood.	Preventive measures are being taken under Wildlife (Protection) Act 1972 and plantations have been carried out in the degraded area.
	RAJ/S/NAH			Bans (Dendro calamus strictus)	Nahargarh	very rare	Domestic use by local people	Preventive measure are being taken under WL (P) Act 1972 & plantation in degrade
	RAJ/S/NAH			Salar (Boswellia ser	Nahargarh	Very rare		
	RAJ/S/NAH			Bans (Dendrocalamus strictus).	Nahargarh.	The plant has become very rare.	Domestic use by local people.	Preventive measures are being taken under Wildlife (Protection) Act 1972 and plantations have been carried out in the degraded area.

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	RAJ/S/NAH			Salar (<i>Boswellia serrata</i>).	Nahargarh.	The plant has become very rare.	Domestic use by local people.	Preventive measures are being taken under Wildlife (Protection) Act 1972 and plantations have been carried out in the degraded area.
68	RAJ/S/PHU		Yes	Shisham (<i>Dalbergia latifolia</i>)	Kotra, Panarwa, Mamer	250 sq.km.	Illicit felling for use as timber	General protection
	RAJ/S/PHU			Safed musli (<i>Chlorophytum boriveillum</i>)	Kotra, Panarwa, Mamer	300 sq.km.	Excessive exploitation illegally for medicine	General protection
	RAJ/S/PHU			Brahmi (<i>Centrale asiatica</i>)	Panarwa	100 sq.km.	Biotic pressure	General protection
69	RAJ/S/TOD		YES	Karaiya (<i>Sterculia urens</i>)	Bijaji ka Guda, Raoli, Jojawar, Bheem	Declining throughout the PA	Excessive exploitation	General protection
	RAJ/S/TOD			Timru (<i>Diospyrous melanoxylon</i>)	Bijaji ka Guda, Raoli, Jojawar, Bheem	Declining throughout the PA	Illicit felling and drought	General protection
	RAJ/S/TOD			Gugal (<i>Commiphora mukul</i>)	Bijaji ka Guda, Raoli, Jojawar, Bheem	Declining throughout the PA	Excessive exploitation	General protection
70	SIK/N/KHA	YES	Yes	Kutki (<i>Picrohiza kurru</i>)	Dzongri		Frequent collection by porters	Patrolling is conducted from time to time
	SIK/N/KHA			Jatamansi (<i>Nardostachys jatamashi</i>)	Dzongri		Frequent collection by porters	Patrolling is conducted from time to time
	SIK/N/KHA			Pakhanbat (<i>Bergania aliata</i>)	Dzongri - Thansing		Frequent collection by porters	Patrolling is conducted from time to time
	SIK/N/KHA			Panch Anguli (<i>Orchis latifolia</i>)	Dzongri		Frequent collection by porters	Patrolling is conducted from time to time
	SIK/N/KHA			Champ (<i>Michelia excelea</i>)	Lachen			
	SIK/N/KHA			Silver fir	Lachen			
	SIK/N/KHA			Okhor (<i>Quercus spp.</i>)	Yuksom, Lachen, Dzongu			
	SIK/N/KHA			Lokhim (<i>Rheum emodi</i>)	Dzongu			
	SIK/N/KHA			Jatamanshi (<i>Nardostachys yatamashi</i>)	Dzongri	Area & Number	Freguteny collection by portess	Petrolling isconducting from time to time
	SIK/N/KHA			Pakhanbat (<i>Bargania</i>)	Dzongri - thansing	Area & Number	Fregutent collection by portess	

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	SIK/N/KHA			Panch Anguli (Orchis latifolia)	Dzongri	Number	Frequent collection by porters	
	SIK/N/KHA			Lokhim (Rheum enwidi)	Dzibgru, kokshsus	Number		
71	SIK/S/SHIN	NP	Yes	Maple	Shingba		Micro-climatic changes and grazing	None
	SIK/S/SHIN			Juniper	Shingba		Micro-climatic changes and grazing	None
	SIK/S/SHIN			Birch	Shingba		Micro-climatic changes and grazing	None
	SIK/S/SHIN			'Rhododendron barbatum, Rhododendron ciliatum, Rhododendron thomson	Shingba		Micro-climatic changes and grazing	None
	SIK/S/SHIN			Juniper	Shingba		Changes	
	SIK/S/SHIN			Larch	Shingba		Grazing	
	SIK/S/SHIN			Rhododendron	Shingba			
	SIK/S/SHIN			Rhododendron barbatum, Rhod.ciliatum. Rhod.Thomson				
72	TN/N/GUI		Yes	Sandalwood	Guindy National Park			Not surveyed
73	TN/N/IND	NP	Yes	Rinunculus reni formis	Valp, Udumalpet	Not known	Not known	Not special initiatives
	TN/N/IND			Micholia nilgirica	Valp, Udumd	Not known	Not known	Not special initiatives
	TN/N/IND			Impetirus elegans	Valp, Udumd	Not known	Not known	Not special initiatives
	TN/N/IND			Litrea bourdullomi	Valp, Udumd	Not known	Not known	Not special initiatives
	TN/N/IND			Legianthus acuminatus	Valp, Udumd	Not known	Not known	Not special initiatives
	TN/N/IND			Lycopodium currum	Valp, Udumd	Not known	Not known	Not special initiatives
	TN/N/IND			Occunda regalis	Valp, Udumd	Not known	Not known	Not special initiatives
	TN/N/IND			Phychotrla barberi	Valpari, Udumd	Not known	Not known	Not special initiatives
	TN/N/IND			Selegimella species	Valpari, Udumd	Not known	Not known	Not special initiatives
	TN/N/IND			Sandulua album utteria	Ulandy, Pol, Val, Ulandy	Not known	Not known	Not special initiatives
	TN/N/IND			Michalia nilgirica	Valp, Udumalpet	Not known	Not known	Not special initiatives
	TN/N/IND			Impetieus elegans	Valp, Udumalpet	Not known	Not known	Not special initiatives
	TN/N/IND			Litrea bourdillomil	Valp, Udumalpet	Not known	Not known	Not special initiatives
	TN/N/IND			Legianthus acuminatus	Valp, Udumalpet	Not known	Not known	Not special initiatives
	TN/N/IND			Lycopodium currum	Valp, Udumalpet	Not known	Not known	Not special initiatives
	TN/N/IND			Occunda regalis	Valp, Udumalpet	Not known	Not known	Not special initiatives
	TN/N/IND			Phychotrla barberi	Valp, Udumalpet	Not known	Not known	Not special initiatives

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	TN/N/IND			Selegimella species	Valpari, Udumud	Not known	Not known	Not special initiatives
	TN/N/IND			Sandulua album utteria	Ulandy, Pollachi, Valparai	Not known	Not known	Not special initiatives
74	TN/N/MUD	NO	Yes	Sandal	Masinagudi	50/hect	Elephant trampling	Staff protection
75	TN/S/KAN		No	Nil				
76	TN/S/KOO		No	N.A				
77	TN/S/MUK		Yes	Orchid				
78	TN/S/POIN	NO	Yes	Aristalocia tegala			Medicinal expoloitation	None
	TN/S/POIN			Caesalpine Bonduc			Natural	Natural regeneration
	TN/S/POIN			Caesalpina bonduc			Natural	Natural regeneration
79	TN/S/PUL	NO	Yes	Mangroves		Not known	Change in salinity	Plantation
80	TN/S/UDA		No	Nil				
81	TN/S/VAD		No	Nil				
82	TN/S/VED		No	Nil				
83	TN/S/VELL		No	Nil				
84	TN/S/VET	NP	Yes	Babul	All	Not known	Bird dropping & excessive growth of P. Juliflora	Gap planting undertaken for Babul trees in 1994.
85	TRI/S/GUM	NP	Yes	Holigrana caustica	Tirthmukh	Not quantified	Habitat destruction	Habitat restoration through aforestation
	TRI/S/GUM			Terenia macnoulata	Tirthmukh	Not quantified	Habitat destruction	Habitat restoration through aforestation
	TRI/S/GUM			Wallichia caryotoide	Tirthmukh	Not quantified	Habitat destruction	Habitat restoration through aforestation
	TRI/S/GUM			Terenia Macnoulata	Tirthmukh			
	TRI/S/GUM			Wallichia caryotoide				
86	TRI/S/TRI	NP	Yes	Ramdala(Duabanga grandiflora)		Large reduction in population. Very few plants continue to survive	Natural regeneration adversely affected due to biotic interference.	Artificial regeneration is being attempted
	TRI/S/TRI			Udal, Kadam (Anthocophalus chisessis)				
	TRI/S/TRI			Udal, Kadam (An thocophalus chisessis)	Flora out PA			
87	UTT/N/GAN		Yes	Utish, Jata Mansi, Salem Mishri, Salem Panja, Somlata, Patther Laong	Gangotri	Not known	Unsustainable extraction	None

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
88	UTT/N+S/GOV		Yes	All medicianl plants	Entire PA	Non known	Over exploitation in the past and at present	Restriction of pressures
89	UTT/S/ASK		Yes	Athyrium duthiei, Acer caesium, Cymbidium eburneum, Cyripedium cordigerum, C. elegans, C. himalaicum, Dioscorea deltoidea, Eria occidentalis, Nardostachys grandiflora, Picrorhiza kurrooa		Habitat destruction and over exploitation		
90	UTT/S/SON		Yes	Bamboo (Dendrocalamus strictus)	Throughout the PA	90%	Over feeding by elephants.	The species is being artificially planted in the PA.
91	WB/N/GOR		No	Nil				
92	WB/N/NEO		Yes	Rhododendron spp.	Upper Neora	Not known		
	WB/N/NEO			Swentia chirata	Upper Neora, Lower Neora	Not known		
	WB/N/NEO			Lycopodium spp.	Upper Neora, Lower Neora	Not known		
	WB/N/NEO			Aconitum spp.	Upper Neora, Lower Neora	Not known		
	WB/N/NEO			Aristolochia spp.	Upper Neora, Lower Neora	Not known		
	WB/N/NEO			Berberis cristata	Upper Neora, Lower Neora	Not known		
	WB/N/NEO			Costus speciosa	Upper Neora, Lower Neora	Not known		
	WB/N/NEO			Didymocarpus pedicellate	Upper Neora, Lower Neora	Not known		
	WB/N/NEO			Ranwolfia serpentina	Upper Neora, Lower Neora	Not known		
	WB/N/NEO			Taxus wallichiana	Upper Neora	Not known		
93	WB/N/SUN	NO	Yes	Dhundul (Xylocarpus granatum Koenig)	NPE Range, NPW Range	NA	Non entry of sweet water from the river.	Nil
	WB/N/SUN			Sundari(Heritiera fomes Buch-Ham(T)	NPE,NPW,BHT, S.W.L.S.Range			
	WB/N/SUN			Amoor(Aglma cuculata	NPE,NPW Range			
	WB/N/SUN			Singra(Cynometra iripa)	NPE,NPW & BH			

Table 1.15: Threatened Species of Flora in PAs

Sno	PA code	OLD DATA 1984-87	New Data 1998-03	New Data 1998-03				
				Species name	Ranges	Magnitude of Decline	Probable Cause	Management Initiative to mitigate the problem, if any
	WB/N/SUN			Bhola(Hibiscus tillaceous),Gila(Enjada scandens)	NPE,NPW & BH			
	WB/N/SUN			Sundari (Heritiera fomes Buch-Ham(T)	NPE, NPW, BHT, S.W.L.S.Range	NA	Non entry of sweet water from the river.	Nil
	WB/N/SUN			Amoor (Aglaia cuculata)	NPE, NPW Range	NA	Non entry of sweet water from the river.	Nil
	WB/N/SUN			Singra (Cynometra iripa)	NPE, NPW & BH	NA	Non entry of sweet water from the river.	Nil
	WB/N/SUN			Bhola (Hibiscus tiliaceus), Gila (Enjada scandens)	NPE, NPW & BH	NA	Non entry of sweet water from the river.	Nil
94	WB/S/BAL		No	None				
95	WB/S/SEN	NP	Yes	All the indigenous spp.				

Table 1.16: Occurrence of Weeds in PAs

Table 1.16: Occurrence of Weeds in PAs
Note: All figures for area are in square kilometers

Sno	PA code	Is there infestation of weeds in the PA		PA Area	New Data 1998-03					
		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
1	A&N/N/SAD		No	32.54						
2	A&N/S/CUT	NP *		5.82						
3	A&N/S/INT	NP	No	133.00						
4	A&N/S/NAR		No	6.81						
5	A&N/S/NOR		No	3.48						
6	AP/N/KAS	NP	No	1.43						
7	AP/N/MAH	NP	Yes	14.59	Lantana Camara	10.00	Mahaveer Harina Vanasthali National Park	1970	Invaded the grass lands	Uprootal of weeds is being done
	AP/N/MAH				Parthenium	4.00	Mahaveer Harina Vanasthali National Park	1975	Invaded the grass lands	Uprootal of weeds is being done
8	AP/N/MRU	NP	Yes	2.80	Lautana Camara	2.80	Chilkur	1978	Very high	Being uprooted in small bits and area sown with grass seeds
	AP/N/MRU				Parthinium	2.80	Chilkur	1980	High	Being uprooted in small bits and area sown with grass seeds
9	AP/N/VEN	NP	No	525.97						
10	AP/S/COR	NO	No	235.70						
11	AP/S/ETU	YES	Yes	803.00	Anisomeles malabarica - maha veera		Tadvai, Eturnagaram		Suppressing the grasses causing scarcity of food to wild ungulate and bovines	Uprootal of weeds whenever funds are available
12	AP/S/GUN	NP	No	1194.00						
13	AP/S/KAW	NO	Yes	893.00	Mahavira	0.15, 0.24, 0.15, 0.15, 0.15, 0.10	Jannaram, Tadlapet, Indanpally, Birsai pet, Kaddam, Pemi.	1994	It is wide spread in nature not allowing other sp. to germinate under the mahavira weed grass.	Under JFM scheme in all the VSS area uprootal of Mahavira is being practiced before the flowering takes place.

*NP. If occurring in a column titled "old data 1984-1987", depicts that the relevant data is "not present" for that PA in the old data set.

Table 1.16: Occurrence of Weeds in PAs
Note: All figures for area are in square kilometers

Sno	PA code	Is there infestation of weeds in the PA		PA Area	New Data 1998-03					
		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
14	AP/S/KOL	YES	Yes	308.00	Ipomea aquatica, Scripus, Phragmites, Ottelia, Typha, Vallisnaria, Chara, Nymphaea, Eichhornia (Water hyacinth)	308.00	Eluru		Dominant and dreadful weed	
15	AP/S/KOU	NP	Yes	357.63	Lantana	30.00				
	AP/S/KOU				Dodonaea	10.00				
16	AP/S/KRI	NP	Yes	194.21	Prosopis juliflora	5.00	Nagayalanka	1950	Reduced pressure for fuel wood in PA	NIL
17	AP/S/MAN	NO	Yes	20.00	Ipomea	2.00	Manjira	Before declaration of Sanctuary	Serving as nesting and roosting places	NIL
18	AP/S/NEL	NO		4.58						
19	AP/S/PAK	NO	Yes	860.00	Anisomeles malabarica		Kothaguda, Narsampet.		Suppressing the grasses resulting in food scarcity to wild ungulate	Up root of weeds whenever funds are available-motivating people to go for rotational grazing is being done. There are several villages inside the PA.
	AP/S/PAK				Hiptis species		Kothaguda - I			
	AP/S/PAK				Eucalyptus Species		Kothaguda - II			
20	AP/S/PAP	NO	Yes	590.68	Lantana Camara		Spread throughout sanctuary			
	AP/S/PAP				Ocimum sp.		Scarcely spread throughout sanctuary			
21	AP/S/POC	YES	No	130.00						
22	AP/S/PRA	NO	Yes	136.00	Mahavira	0.10	Chennur, Nilwai		It is spreading in a speedy manner	In JFM programme in all the treatment area of V.S.S. the removal of weeds in progress
23	AP/S/PUL	NO	No	600.00						
24	AP/S/SIW	NO	No	29.81						
25	ARU/N/MOU	NP	No	483.00						

Table 1.16: Occurrence of Weeds in PAs
Note: All figures for area are in square kilometers

Sno	PA code	Is there infestation of weeds in the PA		PA Area	New Data 1998-03					
		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
26	ARU/N/NAM	NO	Yes	1985.25	Mikania scandance	Not surveyed	Miao, Namdapha and Gandhigram		The weed was introduced during World War - II from Japan and it damages /suppresses the original flora of any area throughout this area	
27	ARU/S/DER	NO	No	190.00						
28	ARU/S/KAM	NP	No	783.00						
29	ARU/S/MEH	NO	No	281.50						
30	ARU/S/YOR	NP	No	445.98						
31	ASS/N/DIB	NP	Yes	340.00	Lantana	Unknown	Guijan and Saikhowa	Unknown	Floods are regulating the spread of weeds.	None
	ASS/N/DIB				Michania	Unknown	Guijan and Saikhowa	Unknown	Floods are regulating the spread of weeds	None
	ASS/N/DIB				Lorenthas	Unknown	Guijan and Saikhowa	Unknown	Parasite on Salix spp.	None
32	ASS/N/KAZ	NP	Yes	407.90	Eichhornia crassipes (Water hyacinth)	31.00	All the ranges	Not known	Damages waterbodies	Manual eradication is carried out every year, however, the success rate is low.
	ASS/N/KAZ				Mikania spp.	122.50	All the ranges	Not Known	Competes with other grasses, trees	Manual eradication is carried out every year, however, the success rate is low.
	ASS/N/KAZ				Plimosa spp.	122.50	All the ranges	Not Known	Competes with other grasses, trees	Manual eradication is carried out every year, however, the success rate is low.
33	ASS/N/MAN	NP	Yes	519.77	Micania		In all the grasslands.		Negligible	None
	ASS/N/MAN				Parthenium	Small area	Kahitama and Bansbari		Negligible	None
	ASS/N/MAN				Lantana	Small area	Kahitama and Bansbari		Negligible	None

Table 1.16: Occurrence of Weeds in PAs
Note: All figures for area are in square kilometers

Sno	PA code	Is there infestation of weeds in the PA		PA Area	New Data 1998-03					
		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
	ASS/N/MAN				Eupatorium	Small area	Along roads and rivers		Negligible	None
34	ASS/N/ORR	NP		78.80						
35	ASS/S/BAR	NP	No	26.21						
36	ASS/S/BUR		Yes	44	Lantana	2	Burachapori Wildlife Range	1992	Infested moist high lands.	Uprooting and burning is carried out.
	ASS/S/BUR				Ipomea	1	Burachapori Wildlife Range	1990	Infested moist low lands	Uprooting and burning is carried out.
37	ASS/S/DIP	NP	Yes	0.02						
38	ASS/S/EKAR		No	221.81						
39	ASS/S/GAR		No	6						
40	ASS/S/GIB	NP	Yes	19.16	Eupatorium	6.00	Periferral area of N.S.E.W.		Negligible	
	ASS/S/GIB				Michenia seandous	6.00	Periferral area of N.S.E.W.		Negligible	
41	ASS/S/KAR		No	96						
42	ASS/S/LAO	NP	Yes	70.10	Lantana	Negligible	Laokhowa Wildlife Sanctuary	Not known		None
	ASS/S/LAO				Eupatorium	Negligible	Laokhowa Wildlife Sanctuary	Not known		None
	ASS/S/LAO				Hyacinth	Negligible	Laokhowa Wildlife Sanctuary	Not known		None
43	ASS/S/NAMB		No	37						
44	ASS/S/PAN	NP	No	33.93						
45	ASS/S/POB	NP	Yes	16.00	Ipomaea spp.	1.00	Tuplung, Jugdol	Not known	Increasing	Annual burning is carried out
46	ASS/S/SON	NP	Yes	220.00	Lantana camara					
	ASS/S/SON				Euphorbia					
47	BIH/S/RAJ		No	35.84						

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		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
48	CHD/S/SUK	YES	Yes	26.11	Congress grass (Parthenium)	5.22	Kansal and Nepli	1975	1. Do not allow grasses to grow. 2. Hamper the development of habitat for animals, 3. Reduce the availability of food (fodder) for animals.	Parthenium weed removal is regularly carried out but it again spreads in the area.
	CHD/S/SUK			26.11	Lantana (Lantana camara)	6.53	Kansal and Nepli	1975	1. Do not allow grasses to grow. 2. Hamper the development of habitat for animals, 3. Reduce the availability of food (fodder) for animals.	Parthenium weed removal is regularly carried out but it again spreads in the area.
49	CHT/N/IND	NO	No	2799.09						
50	CHT/N/KAN	YES	Yes	200.00	Lantana	1.00	Kotamsar	Long ago	Hindering regeneration and growth of indigenous plants	Uprooting
	CHT/N/KAN			200.00	Eupatorium spp.	20.00	Kotamsar and Koleng	10 years ago	Hindering regeneration and growth of indigenous plants	Uprooting
51	CHT/S/ACH	NO	No	551.55						
52	CHT/S/BAR	NO	Yes	244.66	Lantana camara, Bantulsi, Gazer grass, Chhin grass, Cassiadora	144.66	Barnawapara			Each year 20-25 ha of weed eradication is carried out.
53	CHT/S/BHA	NO	No	138.95						
54	CHT/S/GOM		No	277.82						

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55	CHT/S/PAM		No	442.23						
56	CHT/S/SIT	NO	Yes	558.55	Lantana Camara	140.00	Risgaon and Sitanadi Range	1970	Affecting new regeneration	4 to 6 sq. km. of lantana covered area is being cleared of the weed by uprooting each year
57	CHT/S/TAM	YES	Yes	608.53	Cassia Tora	25.00	Game Range Tamor Pingla	Before the formation of the PA	The weeds are affecting the grasslands	Eradication of weeds being done
	CHT/S/TAM				Bantulsa	35.00	Game Range Tamor Pingla	Before the formation of the PA	The weeds are affecting the grasslands	Eradication of weeds being done
	CHT/S/TAM				Lantana	7.00	Game range Tamor Pingla	Before the formation of the PA	The weeds are affecting the grasslands	Eradication of weeds being done
58	CHT/S/UDA		Yes	237.27	Chhin Grass (Phoenix sylvestris)	118.64	Udanti		Hinders the growth of palatable grasses	Uprooting in some parts
	CHT/S/UDA				Lantana Camara	11.86	Udanti		Hinders the growth of palatable grasses	Uprooting in some parts
59	DEL/S/ASO	NP	Yes	27.81	Lantana camara	2.00	Asola	1988	Encroachment over indigenous species.	Weed removal is carried out
	DEL/S/ASO				Parthenium	1.00	Asola	1994-95	Encroachment over indigenous species.	Weed removal is carried out
60	GOA/S/BON		Yes	7.95	Eupatorium odoratum	2	Ponda	NA	Decline in ground vegetation.	Eradication by uprooting
61	GOA/S/CHO	NP	No	1.80						
62	GUJ/N/BAN	NO	No	23.99						
63	GUJ/S/PUR	NP	No	160.35						
64	GUJ/S/RAT		No	55.65						

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65	GUJ/S/WIL	NP	Yes	4953.71		272.75	All ranges	1973-74	Suppression of growth and regeneration of Indigenous species and encroachment of most of the bets.	Not known. Information for this question has been taken from the report titled "Ecological Study of the Wild Ass Sanctuary, Little Rann of Kutch: A Comprehensive Study on Biodiversity and Management Issues" prepared by the GEER Foundation
66	HAR/N/SUL	NO	Yes	1.42	Congress Grass (Parthenium)	0.40	National Park Area	1996	Check the growth of surrounding plants.	Manual weeding
	HAR/N/SUL				Lantana	0.80	National Park Area	1994	Check the growth of surrounding plants.	Manual weeding
67	HAR/S/ABU	NP	No	113.97						
68	HAR/S/BHIN	NP	Yes	4.07	Water Hyacinth (Eichomia)	3.60	Bhindawas, Jhajjar	1992	3/4 of the lake is presently covered by the weed, adversely damaging the wetland ecosystem.	Tried to eradicate hyacinth by manual labour last year but could not succeed. Weevils and mites were to be released in the month of July 99 for eradication of water Hyacinth.
69	HAR/S/BIRB	NP	No	4.14						
70	HAR/S/BIRS	NP	Yes	7.58	Congress Grass	3.04	Pinjore Bir Sikar Gah	1990		
	HAR/S/BIRS				Lantana		Pinjore Bir Sikar Gah			
71	HAR/S/CHIL	NP	No	0.28						
72	HAR/S/KAL	NP	Yes	100.00	Lantana	0.40	WL sanctuary	1997		
	HAR/S/KAL				Congress grass	0.20	WL sanctuary	1997		
73	HAR/S/KHA	NP	No	0.82						
74	HAR/S/NAH		No	2.09						
75	HAR/S/SAR	NP	Yes	44.02	Sacchareniya		Weed has encroached upon the entire range in patches		The PA has become prone to fire hazards	Eradication of weed frequently over the affected area
76	HP/N/GRE		No	905.40						

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77	HP/S/DAR		No	46.59						
78	HP/S/DHA	NP	No	943.98						
79	HP/S/GAM	NO	No	109.00						
80	HP/S/KAI		No	#N/A						
81	HP/S/KAL	NO	No	69.47						
82	HP/S/KAN		No	#N/A						
83	HP/S/KHO		No	#N/A						
84	HP/S/KUG	NO	No	378.87						
85	HP/S/LIP		No	30.89						
86	HP/S/MAN		No	#N/A						
87	HP/S/NAR		No	278.38						
88	HP/S/PON	NO		307.70						Information for this question was not available with the DFO (WL), Chamba since most of the forest areas of the PA are under control of the Territorial DFOs of Dehra and Nurpur.
87	HP/S/RUP		No	269.15						
88	HP/S/SAN	NP	No	650.00						
89	HP/S/SHI	NO	No	90.37						
88	HP/S/TUN	NO	No	64.00						
89	J&K/N/HEM		No	3350						
90	J&K/N/KIS	NO	No	425.00						
89	J&K/S/CHA		No	4000						
90	J&K/S/KAR		No	5000						
91	J&K/S/OVE		No	425.00						
90	JHA/N/RAJ		NA	0.74						
91	JHA/S/HAZ	YES	Yes	186.26	Lantana, Parthenium, Chakor	186.26	Entire PA		Habitat degradation, fire hazard, competition with palatable species for herbivores	Nil
92	JHA/S/PAR	NP	No	50.81						
91	JHA/S/UDH	NP	No	1.27						

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		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
92	KAR/N/ANS	NP	Yes	250.00	Eupatorium		WL Range Anashi & Kumbharwada	1975	Degradation of Habitat	
93	KAR/N/BAND	YES	Yes	880.02	Lantana camara		Sporadic in Nature occurs throughout NP		Suppresses the grass and prevent easy movement of animals	No action is taken
	KAR/N/BAND			880.02	Eupatorium		Sporadic in Nature occurs throughout NP		Suppresses the grass and prevent easy movement of animals	No action is taken
	KAR/N/BAND			880.02	Strobilanthus		Sporadic in Nature occurs throughout NP		Suppresses the grass and prevent easy movement of animals	No action is taken
94	KAR/N/BANN		Yes	104.27	Lantana camara	20	Picnic corner, Project range	Long back (1960's)	No bad impact as it provides food to birds/ungulates and shelter to small animals.	Nil
95	KAR/N/KUD	NP	No	600.32	Eupatorium	Sporadic	Kudremukh Range	Before its declaration as NP	Impact is not much since its presence is very less and sporadic	No action has been taken since its impact is too negligible
96	KAR/N/NAG	YES	Yes	643.39	Lantana Camara	75.00	All the seven ranges		They do not allow regeneration/grass to grow	Steps are taken to remove it in a phased manner
	KAR/N/NAG				Eupatorium	25.00	All the seven ranges		They don't allow regeneration/grass to grow	Steps are taken to remove it in a phased manner
	KAR/N/NAG				Parthenium	10.00	Mainly in tourism area of Nagarhole and along road side of Kallahalla market		They don't allow regeneration/grass to grow	Steps are taken to remove it in a phased manner
97	KAR/S/ADI	YES		0.89						

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98	KAR/S/ATT		NA	2.226						
99	KAR/S/BHA	NO	Yes	492.46	Eupatorium	40.00	Muthodi	Not known	Not much	Being weeded out regularly
	KAR/S/BHA				Parthenium	20.00	Hebbe, Lakkavalli, Thanigebyle			
100	KAR/S/BIL		Yes	540	Lantana camara	30% to 60%	All ranges	Not known	Open space encroached wildlife habitat defaced.	Deweeding and uprooting but very minor
	KAR/S/BIL				Parthenium	30% to 60%	All ranges	Not known	Open space encroached wildlife habitat defaced. Open space encroached wildlife habitat defaced.	Deweeding and uprooting but very minor
	KAR/S/BIL				Eupatorium				Open space encroached wildlife habitat defaced.	
101	KAR/S/BRA	NO	No	181.29						
102	KAR/S/DAN	YES	Yes	475.02	Eupatorium		Wildlife Range Kulgi, Phansoli, Gund and Kumbarwada	1975	Regeneration of other species affected adversely	
103	KAR/S/DOR	NP	No	55.87						
104	KAR/S/GHA	NO	No	29.79						
105	KAR/S/GUD	NP	Yes	0.74	Eupatorium	0.20	Gudavi Birds Sanctuary	30 years back, 1970	Contracting the grazing sanctuary area	Clearance of Fire lines etc
106	KAR/S/KAV	NP		526.95						
107	KAR/S/MEL	NO	No	49.82						
108	KAR/S/MOO	NO	Yes	247.00	Eupatorium	20.00	Kundapur Wildlife Range	30 years earlier	Habitat suppressed	No
	KAR/S/MOO			247.00	Strobilantus	10.00	Kundapur Wildlife Range	30 years earlier	habitat suppressed	No

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109	KAR/S/NUG	YES	Yes	30.32	Lautana Camara	6.00	Nugu Wildlife Sanctuary	Not known	Regeneration of Native species in poor	Being Mechanically removed
	KAR/S/NUG				Eupatorium	5.00	Nugu Wildlife Sanctuary	Not known		Being Mechanically removed
110	KAR/S/PUS	NP	No	92.66						
111	KAR/S/RANG	NO	No	0.67						
112	KAR/S/SHA		Yes	431.23	Eupatorium	100.00	Kargal, Kogar	20 years, 1974	Reducing the grazing to wildlife	Clearing of weeds
113	KAR/S/SHE	NO	Yes	395.60	Eupatorium	150.00	Hanagere, Shimoga	Around 1975	Poor regeneration in the PA	Uprooting of the weed in thick patches
114	KAR/S/SOM	NO	No	88.97						
115	KAR/S/TAL	NP	No	105.01						
116	KER/N/ERA	NO	Yes	100.00	Ageratina adenophora		Throughout the PA	Not known	Total loss of biodiversity	Weeding and cutting
	KER/N/ERA			100.00	Pteridium aquilinum (Bracken)		Throughout the PA	Not known	Total loss of biodiversity	This plant cannot be controlled.
	KER/N/ERA				Chromolaena odoratissima infested in grasslands while Lantana infested elsewhere according to the Management Plan					
117	KER/S/ARA		Yes	55	Mikania spp.	8	Aralam	Not known	Suppression of natural regeneration and degradation of habitat	Uprootal of exotic weeds, intensity is being reduced.

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118	KER/S/ARA				Eupetorium (Eupetorium odoratuns)	12	Aralam	Not known	Suppression of natural regeneration and degradation of habitat	Uprootal of exotic weeds, Intensity is being reduced.
119	KER/S/CHIN	NO	Yes	90.44	Lantana	Unknown	Chinnar	Not known	Threat on natural flora & fauna	Weeding in small scale
	KER/S/CHIN				Ageratum	Unknown	Chinnar	Not known	Threat on natural flora & fauna	Weeding in small scale
	KER/S/CHIN				Parthenium	Unknown	Chinnar	Not known	Threat on natural flora & fauna	Weeding in small scale
120	KER/S/WAY	NO	Yes	344.44	Eupatorium	103.33	All ranges	Not known	Aggravates fire hazard, impacts regeneration, reduces food and fodder availability and heightens competition	Weeding in mature Eucalyptus, uprooting and miscellaneous plantations
	KER/S/WAY				Lantana	103.33	All ranges	Not known	Aggravates fire hazard, impacts regeneration, reduces food and fodder availability and heightens competition	Weeding in mature Eucalyptus, uprooting and miscellaneous plantations
121	MAH/N/AND	NP	Yes	625.40	Lantana	2.00	Compartment Numbers- 91,92 & 117	Not known	Grasses are decreasing	Weed eradication works have been undertaken, but sufficient funds are not available.
	MAH/N/AND				Rantulas(Occimum tassilicum)	5.00	Compartment Numbers- 141,91,83,101,50 & 49	Not known	Grasses are decreasing	Weed eradication works have been undertaken, but sufficient funds are not available.
122	MAH/N/NAV	NP		133.88						
123	MAH/N/PEN	NO	Yes	257.26	Parthenium					

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	MAH/N/PEN				Lantana camara					
	MAH/N/PEN				Ocimum Species					
124	MAH/N/SAN	NO	Yes	103.09	Lantana Camara					Weeding for plantation
	MAH/N/SAN				Eupatorium spp.					
125	MAH/S/AMB	NP	Yes	127.11	Ran tulsi	12.70	Sonala	1970		
126	MAH/S/ANE	NP	Yes	82.94	Parthenium & Kusali	82.94	Aner dam	1986	Degradation	
127	MAH/S/BHA	NP		104.38						
128	MAH/S/BHI		No	130.78						
129	MAH/S/BOR	YES	Yes	61.10	Parthenium	2.00	Compartment Numbers-222 & 286	Not known	Food & habitat of herbivores is reduced.	Uprooting since last year
	MAH/S/BOR				Ocimum species	3.00	Compartment Number-222	Not known	Food & habitat of herbivores is reduced.	Uprooting since last year
	MAH/S/BOR				Cassia tora	1.00	Compartment Numbers-222 & 234	Not known	Food & habitat of herbivores is reduced.	Uprooting since last year
130	MAH/S/CHAN		No	308.97						
131	MAH/S/CHAP	NP		133.23						
132	MAH/S/DEU		Yes	2.17	Parthenium (Congress grass)	2.17	All around the PA including private fields.	Not known	Suppressing the palatable grass species.	Manual uprooting and destruction by burning before seeding every year.
133	MAH/S/GAU	NP	Yes	260.00	Lantana, Parthenium & Tarota(Cassia tora)		Alongside the roads	1996	Degradation	Not yet done but proposed
134	MAH/S/GRE		Yes	8496.41	Congress grass	NA		NA	NA	Yes, removal of the weed in Rehekuri range undertaken.
135	MAH/S/GYA	NP	Yes	203.56	Lantana	132.31	Buldhana Khamgaon	NotKnown	Restricting the growth of grass species	Eradication of weeds is proposed
	MAH/S/GYA				Parthenium	132.31	Buldhana Khamgaon	NotKnown	Restricting the growth of grass species.	Eradication of weeds is proposed

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	MAH/S/GYA				Cassia tora	132.31	Buldhana Khamgaon	NotKnown	Restricting the growth of grass species	Eradication of weeds is proposed
	MAH/S/GYA				Occimum sp.	132.31	Buldhana Khamgaon	NotKnown	Restricting the growth of gras	Eradication of weeds is proposed
136	MAH/S/JAI	NP	Yes	341.05	Ipoemia		Alongside the waterbody			
137	MAH/S/KAL		Yes	361.71	Lantana,Cassia tora,Ipoemia		Both around the habitation			
138	MAH/S/KAR	NO	Yes	4.27	Ranmodi(Eupatorium glandulosum)	2.00	Karnala	1994	Natural regeneration is adversely affected	Not yet
139	MAH/S/KAT	NP	Yes	73.69	Lantana		Akola		It has retarded the growth of indigenous species.	Management plan & its implementation is in progress.
	MAH/S/KAT			73.69	Cassia tora		Akola		It has retarded the growth of indigenous species.	Management plan & its implementation is in progress.
140	MAH/S/MAL	NP	NA	29.12						
	MAH/S/MAL		Not known							
141	MAH/S/MAY		No	5.145						
142	MAH/S/NAG	YES	Yes	152.81	Lantana	2.00	Nagzira	1990	Not obvious	No
	MAH/S/NAG				Parthenium		Nagzira	1990	No	Only in traces, periodic uprooting
143	MAH/S/NAI	NP	Yes	29.90	Lantana,Parthenium, Cassia tora,Occimum sp(Rantulas),Grass sp-Kusali		Except for valleys spread all over the PA	Not known	Degradation of other palatable grass species	Proposed
144	MAH/S/NAR	NP	Yes	12.35	Congress Grass	2.47	Narnala	1972	Regeneration of other species is hampered	Eradication process will be taken

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	MAH/S/NAR				Ran tulsi	2.47	Narnala		Regeneration of other species is hampered	Eradication process will be taken
	MAH/S/NAR				Lantana camara	3.08	Narnala		Regeneration of other species is hampered	Eradication process will be taken
145	MAH/S/PAI	NP	Yes	324.64	Congress grass	7.00	Scattered in both the ranges(Sondabhi &Kharbi)	Can't say	Growth of grass species is reduced.(ii)Attracts fire	No
	MAH/S/PAI				Cassia tora	50.00	Scattered in both the ranges(Sondabhi & Kharbi)	Can't say	Growth of grass species is reduced.(ii)Attracts fire	No
146	MAH/S/RAD	NO	Yes	351.16	Ghaneri(Lantana)	25.00	Easternside of the PA	1980 Onwards	It is affecting the other grass species of the PA	Not yet taken
147	MAH/S/SAG	NP	No	10.87						
148	MAH/S/TIP	NP	No	140.29	Cassia tora		On fringes			
	MAH/S/TIP				Ocimum species		Tipeshwar			
149	MAH/S/WAN	NP	Yes	205.86	Lantana camera	144.10	Wan and Somthana	1972	Regeneration of the other species is hampered.	Eradication process will be undertaken
	MAH/S/WAN				Congress grass	41.17	Wan and Somthana	1972	Regeneration of the other species is hampered.	Eradication process will be undertaken
	MAH/S/WAN				Ran tulsi	20.59	Wan and Somthana	1972	Regeneration of the other species is hampered.	Eradication process will be undertaken
150	MAH/S/YAW	NO	No	177.52						
151	MAH/S/YED	NP	Yes	22.37	Lantana,Parthenium, Cassia tora,Rantulas,Kusali grass		Except for the valleys ,this found all over the PA.	Not known	Degradation of fodder species e.g. grassess	Proposed plan for improved varities of grasses.

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152	MAN/N/KEI	NO	Yes	40.00	Zenthinum Spp.					
153	MAN/S/YAN		Yes	184.4	Mikania plandansa	100		For a very long time		To be taken up shortly
154	MEG/N/BAL	NP	Yes	220.00	Michelia champaca, Lantana camara, Eupatorium species	Not known	All the ranges	Not known	Adversely effects the regeneration of important floral species	Weeding is carried out subject to availability of funds
155	MEG/N/NOK	NP	Yes	47.48	Eupatorium odoratum, Michelia champaca	Not known	Both the ranges (areas on the periphery of abandoned jhum plots)	Not available	Negligible impact	Not started
156	MEG/S/BAG	NP	No	0.03	Michelia champaca, Lantana camara, Eupatorium species		Baghmara	Not known	Adversely affects the re-generation of important floral species	Weeding is carried out subject to availability of funds
157	MEG/S/NON	NO	No	29.00						
158	MEG/S/SIJ		Yes	5.18	Michelia champaca, Lantana camara, Eupatorium species		Siju Wildlife Range	NotKnown	Adversely affects the re-generation of important floral species	Weeding is carried out subject to availability of funds
159	MIZ/N/MUR	NP	Yes	200.00	Michenia macarantha	10.00	North Khawbung		Not known	None
160	MIZ/N/PHA	NP	No	50.00						
161	MIZ/S/DAM		Yes	500.00	Lantana	0.30	Teirei and Phuldungsei	Not known	Negligible	None
	MIZ/S/DAM				Michenia macarantha	1.00	Teirei and Phuldungsei	Not Known	Negligible	None
162	MIZ/S/KHA	NP	Yes	41.00	Michenia macarantha	5.00	Rawpui	Not known	Not known	None
163	MIZ/S/LEN	NP	No	120.00						
164	MIZ/S/NGE	NP	No	110.00						
165	MP/N/BAN	NO	Yes	1161.47	Lantana (Lantana camara)	300.00	Whole PA.	Not known	Degradation of habitat.	Eradication by uprooting and burning.

Table 1.16: Occurrence of Weeds in PAs
Note: All figures for area are in square kilometers

Sno	PA code	Is there infestation of weeds in the PA		PA Area	New Data 1998-03					
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	MP/N/BAN				Chakora (Cassia tora)	100.00	Whole PA.	Not known	Degradation of habitat.	Eradication by uprooting and burning.
	MP/N/BAN				Sida (Sida acuta), Sidaveronileaf (Folia sidacordifolia)	50.00	Whole PA.	Not known	Degradation of habitat.	Eradication by uprooting and burning.
166	MP/N/GHU	NP	No	0.27	Nil					
167	MP/N/PEN	NO	Yes	292.86	Lantana camara	73.22	Karmajhiri and Guntara	Not known	Production of grasses	Uprooting
168	MP/N/VAN	YES	Yes	4.45	Lantana camara	3.45	Whole Van vihar	Not known	Reducing ground vegetation and good fodder.	Eradication, (but due to lack of budget complete eradication cannot be carried out).
169	MP/S/BAD		Yes	104.45	Calphelie	0.15	Game Range Bagicha	Long ago	Grass is suppressed and Sal germination is affected	Eradication of the weed was carried out in April 1999 in 25 ha. under the Habitat Improvement Programme. This programme needs to be carried out further
170	MP/S/BAG	NO	Yes	478.00	Lantana camara	15.00	Bagdara	1988	Effecting regeneration, effecting wildlife and effecting local species	Weed eradication being undertaken under the habitat development scheme
171	MP/S/GAN	NO	Yes	368.62	Lantara (Lantara camara)	10.00	Gandhisagar		Degradation of wildlife habitat.	Under the Madhya Pradesh forestry project, budget was allotted for control/eradication of weeds. This work was taken up on priority basis. As a result we have been able to notice an appreciable change in wildlife habitat.

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		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
	MP/S/GAN				Cassia tora	10.00	Gandhisagar		Degradation of wildlife habitat.	Under the Madhya Pradesh forestry project, budget was allotted for control/eradication of weeds. This work was taken up on priority basis. As a result we have been able to notice an appreciable change in wildlife habitat.
172	MP/S/KAR	NO	No	202.21						
173	MP/S/KHE	NO	No	132.78	N.A.					
174	MP/S/KUN	NP	No	344.69	N.A.					
175	MP/S/NAR		Yes	57.20	Lantana camara	25.00	The whole PA.		Regeneration of other species is adversely affected and area of grasslands is reducing.	Weed eradication is carried out according to the fund availability.
176	MP/S/NAT		No	460.00						
177	MP/S/NOR	NP	Yes	1186.96	Parthenium and Lantana	360.00	Mohli, Singpur, Noradehi, Sarra, Jhapan.	Around 1975	Grazing area is reduced.	Steps to eradicate lantana are being taken at suitable sites.
178	MP/S/ORC		NA	44.9						
179	MP/S/PEN	NO	No	118.00	N.A.					
180	MP/S/RAL	NP	Yes	2.62	Lantana	1.00		1970		In the year 1998 weed removal was done in some areas.
181	MP/S/SAI	NO	No	12.96	N.A.					
182	MP/S/SAN	NO	Yes	364.59	Lantana camara	7.50	Dubari and Bastua	1990-92	(1) Disturbs the floral composition (2) Decreasing range lands (3) Effects free movement of wild animals.	No initiatives taken till now.
183	MP/S/SAR	NP	No	348.12	N.A.					

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184	MP/S/SAT	NP	Yes	#N/A	Lantana camara		Pachmarhi and Kamti		Reduction of other ground flora including grasses.	Eradication of lantana is being carried out. However, due to lack of budget, the weed is not eradicated from the whole area. Therefore, due to its fast spreading and growing properties, it recolonises eradicated areas.
185	NAG/N/INT		No	202.02						
186	NAG/S/FAK	NP	No	6.41						
187	NAG/S/PUL	NP	No	9.23						
188	NAG/S/RAN	NP	No	4.70						
189	ORI/N+S/BHI		Yes	145	Acanthus ilicifolius and Lantana camara		Kanika, Rajnagar	Not known	Hampers regeneration, deteriorates the quality of vegetation leading to degradation and extinction of palatable grasses	Removal of weeds and cutting of climbers
190	ORI/S/BAD	NP	Yes	304.03	Eupatorium	Negligible area. Weeds occur in scattered patches	Along roads, village fringes and around watch towers.		Negligible	None
191	ORI/S/BAI	NO		168.35						The commonly known weeds such as Eupatorium and Lantana are not considered weeds for this sanctuary.
192	ORI/S/BAL	NP	No	71.72						
193	ORI/S/CHA	YES	Yes	193.39	Eupatorium odoratum	Approximate ly 100 sq.km.	All four ranges	Not available	Fire hazard, checks natural regeneration	
194	ORI/S/CHI	NP	No	15.53						
195	ORI/S/DEB	NP	No	346.90						

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196	ORI/S/HAD		Yes	191.60	Pokasungha(Eupatorium odoratum)	Not estimated	Compartment: 5,7,10	Not Known	Reduction in the availability of palatable fodder i.e. grass, shrubs etc.	None, done due to lack of funding
197	ORI/S/KAR		No	147.66						
198	ORI/S/KHA	NP	Yes	116.00	Eupatorium	Scattered, in small patches	Girishchandrapur	Not Known	No such impact	None
199	ORI/S/KOT	NP	Yes	399.50	Eupatorium		Both in Belgarh and Kotaharh		Affecting species diversity	None
200	ORI/S/KUL		Yes	272.75	Poka Sungha (Eupatorium spp.)		Almost the entire PA		Scientifically not assessed	Eradication of weeds by uprooting, followed by burning.
201	ORI/S/LAK	NP	Yes	174.96	Sihali(Bauhinia vahili)	171.23	Chandragiri	Since long	Crippling effect on young plants.	Weed removal is carried out.
	ORI/S/LAK				Atundi(Calycoptria floribunsa)					
	ORI/S/LAK				Muturi(Smilax macrophyla)					
202	ORI/S/SATN		Yes	795.52	Nagaairi (Lantana camara)	0.5		Not known	Habitat quality	No management to eradicate
	ORI/S/SATN				Pokasungha (Eupatorium odoratum)	4.5	Pampasar, Purunakote, all along forest blanks roads and village forest interfere		Degradation	Due
203	ORI/S/SATS		Yes	268.94						The commonly known weeds such as eupatorium and lantana are not considered weeds for sanctuary.
204	ORI/S/SIM		Yes	2200	Putus (Lantana camara)		Almost all ranges of PA		Scientifically not assessed	Eradication of weeds by uprooting followed by burning.

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	ORI/S/SIM				Pokasungha (Eupatorium spp.)		Almost all ranges of PA		Scientifically not assessed	
205	ORI/S/SUN	NP	Yes	600.00	Eupatorium					None
206	PUN/S/ABO	NP	No	186.05	N.A.					
207	PUN/S/AIS	NP	No	2.60	N.A.					
208	PUN/S/BHA	NP	No	8.20	N.A.					
209	PUN/S/BHU	NP	No	6.60	N.A.					
210	PUN/S/DOS	NP	No	7.50	N.A.					
211	PUN/S/GUR	NP	No	6.10	N.A.					
212	PUN/S/HAR	NP	Yes	86.00	Water Hyacinth	10.00	Harike Pond area	Not known	Displacement of naturally occurring species	Manual and mechanical removal with collaboration of the Army. This was started in July 2000.
213	PUN/S/MAH	NP	No	2.20	N.A.					
214	PUN/S/MOT	NP	No	5.24	N.A.					
215	PUN/S/TAK	NP		3.86						
216	RAJ/N/DES	NO	No	3162.00						
217	RAJ/N/KEO		Yes	28.73	Water hyacinth	7	Keoladeo		Chokes wetland	In the last few years, very large scale manual and mechanical eradication has been carried out.
	RAJ/N/KEO				Ipomea comea	5	Keoladeo		Chokes wetland	In the last few years, very large scale manual and mechanical eradication has been carried out.
218	RAJ/S/BAS		Nil	138.69						
219	RAJ/S/BHA		Yes	195.015	Lantana camara		Bhainsroadgarh		Gradual degradation of forest area.	
220	RAJ/S/JAI		No	52.00						
221	RAJ/S/JAM	NP	Yes	300.00	Parthenium species (Congress grass).	Not recorded.	Jamwa Ramgarh.	Not recorded.		
222	RAJ/S/KELA		Yes	672	Casia tora		Widely distributed	NA	Poor regeneration of grass and other flora	Nil

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	RAJ/S/KELA				Tephresia		Widely distributed	NA	Poor regeneration of grass and other flora	Nil
223	RAJ/S/KUM		Yes	608.56	Prosopis chilensis	50	Sadari, Desuri	Around 1960		Nil
	RAJ/S/KUM				Lantana camara	100	Sadri, Desuri, Kumbhalgarh, Bokhara	Around 1960		Uprooting has been carried out in small pockets but it quickly grows back.
224	RAJ/S/NAH		Yes	52.40	Parthenium species (Congress grass).	Not recorded.	Nahargarh.	Not recorded.		None
225	RAJ/S/PHU		No	511.41						
226	RAJ/S/SAJJ		Yes	5.19	Lantana camara	4	Sajjangarh		Negative impact on grasslands	Annual eradication is carried out.
	RAJ/S/SAJJ			5.19	Prosopis juliflora	4	Sajjangarh			None
227	RAJ/S/SIT		Yes	422.94	Pawad (Cassia tora)	5	All ranges	1970	Suppression of grasses	Slight eradication has been carried out
	RAJ/S/SIT				Lantana (Lantana camara)	5	All ranges	1965	Suppression of grasses, causes forest fires.	Slight eradication has been carried out
228	RAJ/S/TAL	YES	Yes	7.19	Vilayati Babool (Prosopis juliflora).	4.00	Tal Chhaper Sanctuary	1992	It affects the growth of palatable grass.	Eradication of juliflora is in progress.
229	RAJ/S/TOD		No	495.27						
230	RAJ/S/VAN		No	25.6						
231	SIK/N/KHA		Yes	1784.00						
232	SIK/S/BAR	NP	No	104.00						
233	SIK/S/FAM		Yes	51.76	Eupatorium spp.	Not known	Not yet studied			
234	SIK/S/KYON	NP	No	31.00						
235	SIK/S/MAE		No	35.34						
236	SIK/S/SHIN	NP	No	43.00						
237	TN/N/GUI		Yes	2.8194	Prosopis juliflora					Removed manually
238	TN/N/GUL	NP		6.23						

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239	TN/N/IND	NP	Yes	958.57	Lantana camara	50.00	All ranges		The grassy patches and open area is reducing	
	TN/N/IND			958.57	Eupatorium g.	30.00	All ranges			
	TN/N/IND				Parthenium	2.00	All ranges		Only in settlement area	
	TN/N/IND				Mrcheria	2.00	M'bolly, Valparai, Ulandy	Last 2 y	Not evaluated	
240	TN/N/MUD	NP	Yes	321.00	Lantana	159.00	All	British	Peacock increased fire increased	Project launched
	TN/N/MUD				Eupatorium	159.00	All	1968	Fire	
	TN/N/MUD				Parthenium		Mas, Ker	1965	Rose finches food	
	TN/N/MUD				Maimosa	3.00	?	Long time		
	TN/N/MUK			78.46	Wattle					
241	TN/N/MUK	NP	Yes		Ulex Europea	3.00		During British period		Manual clearing
242	TN/S/CHI	NP	Yes	0.48	Prosopis juliflora	0.10	Chitrangudi	Since notification	Not much as only 20% is covered by this	None
243	TN/S/GRI	NP	Yes	477.83	Lantana camera	30.00	Rajopaloyam, srivilliputhur, saptur		Degradation	
	TN/S/GRI				Parthenaun sp	6.00	Saptur			
244	TN/S/KAN	NP	Yes	1.04	Prosopis juliflora	0.75	Kanjarankulam	From before 1994	Could be one reason for birds not coming here	None
245	TN/S/KARA	NP		4.53						
246	TN/S/KARI	NP	Yes	0.65	Ipomia carnea	0.02		Not known	Not known	Manual uprooting
247	TN/S/KOO	NP	N.A	1.20						
248	TN/S/MEL	NP		5.93						
249	TN/S/POIN		Yes	25.00	Prosopis Juliflora	2.50			Arrests natural regeneration of native species	Nil
250	TN/S/PUL	NO	Yes	61.47	Prosopis juliflora			Not known	Affects mangroves	
251	TN/S/UDA	NO	Yes	0.44	Ipomia Marijuam		Tanjauur wild life		Silting	Manual removal

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252	TN/S/VAD	NP	Yes	1.28	Ipomia Marijuana	0.32			Silting of lake	Manually weeding out, not very effective
253	TN/S/VALL	NP	Yes	16.41	Opuntia					
254	TN/S/VED	NO	Yes	0.27	20 nos. of a climber (Name not known)			1996	Disturbance for birds nesting on the trees	Physical removal done but has grown again
255	TN/S/VELL	NP		0.77						
256	TN/S/VET	NP	Yes	0.38	Prosopis juliflora	0.24	Vettangudipatti & chinnakollingudi patti tanks	Since notification in 1997	Increased over the years & birds do not come for nesting	None
257	TRI/S/GUM	NP	Yes	389.59	Mikania (orolata)	194.80	Tirthmukh	1988		
	TRI/S/GUM				Mikania scandans	194.80		1988		
258	TRI/S/TRI	NP	No	194.70						
259	UP/S/BAK		Yes	28.9421	Eichhomia	0.5			Forage and habitat of birds are adversely affected.	None
260	UP/S/CHA		Yes	96	Lantana (Lantana camara)	20	Chandra Prabha	Not known	Regeneration affected, grassland shrinkage, herbivore population declines	New management plan proposed for the area.
261	UP/S/KAC		No	7.00						
262	UP/S/KAI		Yes	501	Lantana camara	25% of the PA	All ranges	Not available	Hinderance in natural regeneration, suppression of palatable grasses	
	UP/S/KAI				Cassia tora	20-25 % of the PA	All ranges	N.A	Suppression of palatable grasses	
	UP/S/KAI				Parthenium	20% of the PA	All ranges		Suppression of palatable grasses	

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263	UP/S/KAT		Yes	400.09	Lantana	Entire PA	Entire PA		It effects regeneration of important species and availability of fodder for wildlife.	Physical uprooting is carried out.
	UP/S/KAT			400.09	Parthenium	Entire PA	Entire PA		It effects regeneration of important species and availability of fodder for wildlife.	Physical uprooting is carried out.
264	UP/S/LAK		Yes	80.24	Ipomoea indica	0.2	Lakh Bahosi	1996	Habitat degradation	Manual eradication is carried out every year.
	UP/S/LAK				Water lettuce (Ristia stratiates)	0.5	Lakh Bahosi	Since very long.	Habitat degradation	Manual eradication is carried out every year.
	UP/S/LAK				Ipomea aquatica	0.35	Lakh Bahosi	Since very long.	Habitat degradation	Manual eradication is carried out every year.
	UP/S/LAK				Cyperus alulatus	0.15	Lakh Bahosi	Since very long.	Habitat degradation	Manual eradication is carried out every year.
	UP/S/LAK				Sespania spp.	0.2	Lakh Bahosi	Since very long.	Habitat degradation	Manual eradication is carried out every year.
265	UP/S/MAH		Yes	5.42	Lantana camara	1.21	Lalitpur	About 20 years back.	Ground flora is suppressed	It was uprooted and burnt from 50 ha. last year. This has shown good results as the weed has disappeared from that area.
266	UP/S/NAT		Yes	635	Prosopis juliflora	20	Bah, Etah	1979		
267	UP/S/NAW		Yes	2.246	Ipomoea indica	0.2	Nawab Ganj	Since very long.	Degradation of habitat.	Manual eradication is carried out.
	UP/S/NAW				Cyprus aloporiodes	0.2	Nawab Ganj	Since very long.	Degradation of habitat.	Manual eradication is carried out.
	UP/S/NAW				Eichhomia crassips	0.3	Nawab Ganj	Since very long.	Degradation of habitat.	Manual eradication is carried out.
	UP/S/NAW				Playgonium lindatiun	0.27	Nawab Ganj	Since very long.	Degradation of habitat.	Manual eradication is carried out.

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	UP/S/NAW				Zizania aquatica	0.23	Nawab Ganj	Since very long.	Degradation of habitat.	Manual eradication is carried out.
268	UP/S/OKH		No	4						
269	UP/S/PAT		No	1.05						
270	UP/S/RAN		Yes	220.41	Lantana camara	25% of the PA area.	Both ranges	Not known	Palatable grasses are suppressed	Uprooting and burning is carried out in some areas depending on availability of funds.
	UP/S/RAN				Cassia tora	20-25% of the PA area.	Both ranges	Not known	Palatable grasses are suppressed	Uprooting and burning is carried out in some areas depending on availability of funds.
	UP/S/RAN				Van Tulsi	20% of the PA area.	Both ranges	Not known	Palatable grasses are suppressed, pungent smell repels herbivores	Uprooting and burning is carried out in some areas depending on availability of funds.
271	UP/S/SAMN		Yes	5.26	Prosopis juliflora	1	Saman Bird Sanctuary	1994-95		
272	UP/S/SAMS		Yes	7.99	Ipomea indica	0.8	Samaspur	Many years.	Habitat degradation.	Manual eradication is carried out.
	UP/S/SAMS				Eichharina crassips	0.3	Samaspur	Many years.	Habitat degradation.	Manual eradication is carried out.
	UP/S/SAMS				Polygonium limbatum	0.35	Samaspur	Many years.	Habitat degradation.	Manual eradication is carried out.
	UP/S/SAMS				Cyprus aloponoder	0.25	Samaspur	Many years.	Habitat degradation.	Manual eradication is carried out.
273	UP/S/SAN		Yes	2.246	Ipomea	0.5	Sandi Bird Sanctuary	1995	Habitat degradation.	Manual eradication
	UP/S/SAN				Eichharina crassips	0.5	Sandi Bird Sanctuary	Many years	Habitat degradation	Manual eradication.
	UP/S/SAN				Polygonium limbatum	0.7	Sandi Bird Sanctuary	Many years.	Habitat degradation.	Manual eradication.
	UP/S/SAN				Cyprus aloponoder	0.5	Sandi Bird Sanctuary	Many years	Habitat degradation	Manual eradication.

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274	UP/S/SOH		Yes	428.2	Lantana camara	2.00	Shivpur	Not known	Habitat degradation	None
275	UP/S/SUH		Yes	452.472	Lantana camara		All ranges	Not known	Adverse impact on fodder availability	None
276	UP/S/SURA		No	34.329						
277	UP/S/SURS		Yes	7.13	Prosopis juliflora	3	Sur Sarovar Bird Sanctuary	1979		
278	UP/S/VIJ		Yes	2.62	Ipomea	1.05	Vijay Sagar Bird Sanctuary	1995	Adverse impact on birds.	Manual eradication is being carried out since last 2 years.
	UP/S/VIJ				Water hyacinth	0.25	Vijay Sagar Bird Sanctuary	1994	Adverse impact on birds.	Manual eradication is being carried out since last 2 years.
279	UTT/N/COR	YES	Yes	520.82	Lantana camara	208.33	All ranges of the PA	unknown	Decline in habitat of herbivores	Weed eradication work is done every year in a limited area
	UTT/N/COR				Parthenium	52.08	All ranges of the PA	unknown	Decline in habitat of herbivores	Weed eradication work is done every year in a limited area
	UTT/N/COR				Cannabis sativa (Bhang)	26.04	All ranges of the PA	unknown	Decline in habitat of herbivores	Weed eradication work is done every year in a limited area
280	UTT/N/GAN		No	2390.024						
281	UTT/N+S/GOV		Yes	957.969	Rumex	40	All ranges in alpine pastures where grazing takes place	1997	Reduction in availability of palatable species.	Uprooting was carried out last year in 150 ha. and will carry on this year if funds are available.
282	UTT/S/ASK		No	599.93						
283	UTT/S/BIN	NP	No	47.07						
284	UTT/S/BINO		Yes	3.3874	Kalabansa					
285	UTT/S/KED	NO		975.20						
286	UTT/S/SON		Yes	301.1	Lantana camara		Throughout the PA	Unknown		
	UTT/S/SON				Parthenium			Unknown		
	UTT/S/SON				Water hyacinth		in certain patches of the Ramganga reservoir	Unknown		
	UTT/S/SON			301.1	Ipomia		in certain patches of the Ramganga reservoir	Unknown		

Table 1.16: Occurrence of Weeds in PAs
Note: All figures for area are in square kilometers

Sno	PA code	Is there infestation of weeds in the PA		PA Area	New Data 1998-03					
		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
287	WB/N/GOR	NP	Yes	79.45	Leea sp., Eupatorium spp., Lantana camara	10.00	Garumara (S) & (N)	Not known	Suppression of fodder spp.	Proposal taken for leea uprooting of plant at the time of flowering. Other weed should be removed by Oct.
288	WB/N/NEO		Yes	88	Eupatorium odoratum	Very less	Lower Neora range/fringe area of east Neora and west Neora block	Not known	Very less not alarming	Not taken yet
	WB/N/NEO				Lantana camara	Very less	Lower Neora range/fringe area of east Neora and west Neora block	Not known		
	WB/N/NEO				Mikania cordata	Very less	Lower Neora range/fringe area of east Neora and west Neora block			
289	WB/N/SUN	NP	No	2585.00						
290	WB/S/BAL		Yes	2.02	Aquatic weed	0.07	Water body	1991	In the water bodies	Yearly, cleaning done
291	WB/S/BET	NP	Yes	0.67	Cassia tora, Ageratum conegeoides	0.05	Entire PA	Several years	It is within control and does not pose a serious threat.	Cleaning
292	WB/S/BIB	NP	No	0.64						
293	WB/S/CHA		Yes	9.492	Lantana camara	Not assessed	Chapramari wildlife 2,3 compartment	Not known	Supresses the fodder grasses and effects regeneration	Eradication of weed and fodder plantation in the infected areas.
	WB/S/CHA				Eupatorium spp.	Not assessed	Chapramari wildlife 2,3 compartment	Not known	Supresses the fodder grasses and effects regeneration	Eradication of weed and fodder plantation in the infected areas.
	WB/S/CHA				Leea spp.	Not assessed	Chapramari wildlife 2,3 compartment	Not known	Supresses the fodder grasses and effects regeneration	Eradication of weed and fodder plantation in the infected areas.
294	WB/S/HAL	NP	No	5.95						

Table 1.16: Occurrence of Weeds in PAs
 Note: All figures for area are in square kilometers

Sno	PA code	Is there infestation of weeds in the PA		PA Area	New Data 1998-03					
		OLD DATA 1984-87	New Data 1998-03		Weed species	Area affected by weeds	Ranges	Year when the weed first occurred	Impact on the PA	Management initiatives taken to mitigate the problem
295	WB/S/LOT	NP		38.00						
296	WB/S/RAI	NP	No	1.30						
297	WB/S/RAM	NO	No	0.14						
298	WB/S/SEN	NP	Nil	38.88						

*Table 1.17: Human Activities and Other Natural
Phenomenon Having an Impact on the Habitat
of the PAs*

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
1	A&N/S/CUT	5.82	Grazing				Turtle breeding area	Population decline, degradation, disturbance
2	A&N/S/NAR	6.81	Herding goats					The sprouted seedling were eaten off resulting in reduced regeneration.
3	A&N/S/NOR	3.48						
4	AP/N/MAH	14.59	Sale of grass in the area in the past before notification as a National Park now stopped	upto 1995	10	Mahaveer Harina Vanasthali National Park	Grasslands	To encourage grass area was repeatedly burned resulting in general degradation.
	AP/N/MAH		Location of Municipal Garbage dumping ground adjacent to the Park	From 1980 till date	14.59	Mahaveer Harina Vanasthali	Forest and grass land habitats	Air, soil and water pollution effecting plant and animal health
5	AP/N/VEN	525.97	GRA, NTF, FEL *		10	Tirupati- Karakambadi RF, Mamandur RF	Forest	Poor regeneration
	AP/N/VEN		NTF		25	Chamala- Nagapatla RF, Talakona RF	Forest	Poor regeneration
	AP/N/VEN		FEL		25	Balapalli- Gungale Kona, Valeti Kona	Forest	Poor rageneration
6	AP/S/COR	235.70	November 1996 Cyclone	November 1996	110	WLM, Kakinada	Wetland (Mangroves)	Population in decline
	AP/S/COR		Grazing, Tree Felling & Fishing		235	WLM, Kakinada	All mangroves	Degradation, poor regeneration
7	AP/S/ETU	803.00	Habitation within & around PA			Eturnagaram, Tadvai	Forest wetland grassland	Loss of Habitat good low lying areas- grassland were lost
	AP/S/ETU		Cultivation				Forest	Loss of Habitat
	AP/S/ETU		OTH (AP Rayon Factory)			On periphery		Pollution & disturbance pressure on forest increased for fuel timber etc.
	AP/S/ETU		Fire			Eturnagaram	Most of PA is affected	

* Grazing, Collection of non-timbre forest produce, felling

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers


Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	AP/S/ETU		Grazing				Most of the area around habitation	Disturbance food competition
	AP/S/ETU		Pilgrimage		75		Deciduous Forest & Wetland and Riparian zone of Jampanna Vagu	Distur. about 40lakh people visit the Sammakka-Saralamma festival at Medaram in PA once in 2yr in Feb.
8	AP/S/GUN	1194.00	 Fires	During summer	716.4	Total area of PA	Forest	Degradation, Changes in habitat/vegetation/forest types
9	AP/S/KAW	893.00	Cultivation			Indanpally, BirsaiPET	Forest have been degraded.	
	AP/S/KAW		Cultivation			Jannaram, Kaddam	Dry deciduous mixed type forests, mainly teak dominated with mixed miscellaneous and understorey.	
	AP/S/KAW		Encroachments		0.3	Pembi		
10	AP/S/KOL	308.00	Cultural	Full year		Eluru	Wetlands	Degradation
	AP/S/KOL	308.00	Pesci culture	Full year 1976		Eluru	Wetland	Degradation
11	AP/S/KOU	357.63	Drought	1995, 1997, 1999	375.63	Palamaner and Kuppam Range		Poor regeneration, Proliferation of hardy species/weeds
12	AP/S/KRI	194.21	Cyclone	1977	194.21	Nagayalanka	Mangrove Forest Wet Land	Population decline, Degradation, Changes in habitat/vegetation/forest types
13	AP/S/MAN	20.00	Traditional fishing by the local fishermen	From the beginning	20	Manjira	Wetland	Disturbance to birds
14	AP/S/PAK	860.00	Habitation within PA			Kothaguda, Narsampet and Gudur	Forests, wetland, grassland	Loss of habitat, good low lying areas grassland were lost.
	AP/S/PAK		Habitation around PA			Kothaguda, Narsampet and Gudur	Forest wet land grass land	Loss of habitat, good low lying areas grassland were lost.
	AP/S/PAK		Cultivation			Kothaguda, Nassampet and Gudur	Forest	Loss of habitat

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	AP/S/PAK		Fire			Kothaguda and Gudur	Most of the PA is affected.	Disturbance
	AP/S/PAK		Grazing			Kothaguda and Gudur	Most of the area around the habitation.	Food competition
	AP/S/PAK		Pilgrimage					
15	AP/S/PAP	590.68	Podu cultivation and illicit felling			Whole sanctuary	Forests	Population decline, Proliferation of hardy species/weeds
16	AP/S/POC	130.00	Erosion		20	Pocharam	Forest	Degradation and Poor regeneration
	AP/S/POC		Fire		18	Pocharam	Forest	Poor regeneration, Changes in habitat/vegetation/forest types and Proliferation of hardy species/weeds
	AP/S/POC		Grazing		32	Pocharam	Forest	Degradation and Poor regeneration
	AP/S/POC		NTFP collection		30	Pocharam	Forest	Extinction and Degradation
	AP/S/POC		Tree felling		35	Pocharam	Forest	Extinction, Degradation and Poor regeneration
17	AP/S/PRA		Cultivation	1972	3	Chennur	Forest (Dry deciduous mixed forests)	Destruction of habitat causes the reduction of fodder for herbivores
	AP/S/PRA		Cultivation	1972	2	Nilwai	Forest (Dry deciduous forest)	Destruction of habitat causes the reduction of fodder for herbivores
18	AP/S/PUL	600.00	Development project and Habitation	1970 onwards	200	Northern Lake	Wetland	Reduction of flow of water
	AP/S/PUL		Industries	1980-90	2	Southwest Corner	Village site	Environment pollution
19	AP/S/SIW	29.81	Grazing				grassland ecosystem	Degeneration of biodiversity, Compaction and hardening of Soil, Slow regrowth, disappearance of organisms like earthworms, butterflies etc from the grazing area.

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
20	ARU/N/MOU	483.00	Landslide, Erosion	Every year	Exact area not calculated, but very common along the banks of rivers and streams.		Tree land in steep hilly areas, grass lands on river banks.	
21	ARU/N/NAM	1985.25	Miao-Vijaynagar Road Project		4.5	Miao and Gandhigram Ranges. The road passes through the middle of the PA.	Forests and Wetlands.	Lasting canopy gap in the forest. More workers means more disturbance for fuel and other NTFP. Fragmentation of habitat
	ARU/N/NAM		Settlement of Lisu people from adjoining Myanmar.	1996	4.45	All the ranges.	Forest, grassland and wetland. They hunt animals, clear the forest for cultivation, carry out fishing in the wetlands, collect timber and NTFP	Population decline, change in habitat, proliferation of weeds. The total rainforest ecosystem gets disturbed.
	ARU/N/NAM		Chakma settlers.	1964	4.27	Miao wildlife range.	Forest and wetland.	Population decline, change in habitat, proliferation of weeds. The total rainforest ecosystem gets disturbed.
22	ARU/S/DER	190.00	Flood and Erosion	Regular	30	All ranges	Grasslands and Forest	Degradation of habitat, loss of wildlife
	ARU/S/DER		Fire (burning)	Regular	142.5	All ranges	Grassland	Degradation of habitat, loss of wildlife
	ARU/S/DER	190.00	Grazing and NTFP collection	Regular		All ranges	Forest & Grassland	Impact negligible
23	ARU/S/MEH	281.50	Floods	Every year	0.01	Mehao	Forest	
	ARU/S/MEH		Landslide	Every year	0.01	Mehao	Forest	
	ARU/S/MEH		Erosion	Every year	0.01	Mehao	Forest	

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	ARU/S/MEH		Development project	1980	0.98	Mehao	Forest	
	ARU/S/MEH		Fire (burning)	1999	3	Mehao	Forest	
	ARU/S/MEH		Grazing	Every year	20	Mehao	Forest	
	ARU/S/MEH		Habitation	Time immemorial	9.8	Mehao	Forest	
	ARU/S/MEH		NTFP collection	Time immemorial	98	Mehao	Forest	
	ARU/S/MEH		Cultivation	Time immemorial	30	Mehao	Forest	
	ARU/S/MEH		Tree felling	1964	0.2	Mehao	Forest	
	ARU/S/MEH		Tourism	1980	0.3	Mehao	Forest	
	ARU/S/MEH		Pilgrimage	1996	0	Mehao	Forest	
24	ASS/N/DIB	340.00	Floods	Annual	340	Guijan and Saikhowa	All types	Degradation, changes in habitat/Vegetation/forest types, loss of land heavy siltation
	ASS/N/DIB		Erosion	Annual	Unknown	Guijan and Saikhowa	All types	Degradation, Loss of area and vegetation
	ASS/N/DIB		Grazing	Annual	32.5	Guijan and Saikhowa	Grassland	Degradation, Poor regeneration
	ASS/N/DIB		Habitation	Since 1956-57	1	Guijan		Degradation
	ASS/N/DIB		Tree felling	Every year	Unknown	Guijan and Saikhowa	Forest	Degradation
	ASS/N/DIB		Cultivation	Every year	1	Guijan and Saikhowa	Grassland	Degradation, Poor regeneration, changes in habitat/vegetation/forest type
	ASS/N/DIB		NTFP collection	Every year	Unknown	Guijan and Saikhowa	Grassland	Negligible
25	ASS/N/KAZ	407.90	Flood	Every year	280	All the ranges	Mainly grassland and wetland	Degradation, Poor regeneration
	ASS/N/KAZ		Erosion	Every year	Banks along the Brahmaputra river	All the ranges	Tree forest and grassland	Degradation, Poor regeneration
	ASS/N/KAZ		Fire (Controlled Burning)	Every year	262	All the ranges	Mainly grassland	Poor regeneration for other than grasses
	ASS/N/KAZ		Tourism	Every year	15	All the ranges	Negligible	

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
26	ASS/N/MAN	519.77	Grazing, Cultivation, Tree Felling	1989	10*	Bhuiyanpara	Forests & Grasslands	Changes in habitat/vegetation/forest types, population decline.
	ASS/N/MAN		Grazing, Cultivation, Tree Felling	1989	8*	Panbari	Forests and Grassland	Changes in habitat/vegetation/forest types, population decline
	ASS/N/MAN		Grazing, Cultivation, Tree Felling, (Nat cultivation)		15*	Bansbari	Forests and Grasslands	Changes in habitat/vegetation/forest types, population decline
27	ASS/N/NAME	200						
28	ASS/N/ORA	78.80	Flood	Every year	50	Orang	Wetland, grassland	Changes in habitat/vegetation/forest types
	ASS/N/ORA		Erosion	Every year	2.5	Orang	Forest, grassland, wetland	Extinction, Population decline
	ASS/N/ORA		Grazing	Every year	5	Orang	Grassland	Extinction, Degradation, Poor regeneration
	ASS/N/ORA		Tree felling			Negligible. Along the boundary of the PA		Negligible
	ASS/N/ORA		NTFP collection			Negligible. Along the boundary of the PA		
29	ASS/S/BAR	26.21	Grazing (out of 20)	Every year	10	Plain areas	Forest, grassland	Disease
	ASS/S/BAR	26.21	Habitation, Grazing, Cultivation	Prior to 1990	6	Plain areas	Forest, grassland	Extinction
	ASS/S/BAR		Tree felling	Since 1989 and ongoing	9	Hills and plain areas	Forest	Degradation
	ASS/S/BAR		NTFP collection		20			
	ASS/S/BAR		Fire		11			
30	ASS/S/BUR	44	Floods	1998	40.02	Burachapori Wildlife Range	Grassland and wetland	
	ASS/S/BUR		Erosion	Every year	0.05	Burachapori Wildlife Range	Forest	

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	ASS/S/BUR		Grazing	Every year	20.04	Burachapori Wildlife Range	Grassland	
	ASS/S/BUR		Habitation	Every year	0.03	Burachapori Wildlife Range	Grassland	
	ASS/S/BUR		Cultivation	Every year	10.02	Burachapori Wildlife Range	Grassland	
	ASS/S/BUR		NTFP collection	Every year	30.2	Burachapori Wildlife Range	Forest	
	ASS/S/BUR		Felling	Every year	2.01	Burachapori Wildlife Range	Forest	
31	ASS/S/EKAR	221.81	Grazing, cultivation, habitation, tree felling				Forest	The activities have resulted in some deforestation, which in turn has affected the habitat of fauna.
32	ASS/S/GAR	6	Development activity (approach road to bridge over Nambor river on NH-39)	1994	0.028	Near Garampani hot spring	Forest	Deforestation and resultant change in habitat.
	ASS/S/GAR		Grazing					
33	ASS/S/GIB	19.16	Grazing, Tree felling	1970	10	E.W.N.S.C.	Forest	Degradation, Poor regeneration
34	ASS/S/KAR	96						
35	ASS/S/LAO	70.10	Floods	Every year	50		Forest, grasslands, wetlands	Flood tolerant species
	ASS/S/LAO		Grazing	Every year	20	Southern part of PA	Grasslands	Degradation
	ASS/S/LAO		Cultivation	Seasonal in every year	20	Southern part of Dyke	Grasslands	Change in habitat/vegetation/forest types, Proliferation of hardy species/weeds
	ASS/S/LAO		Tree felling	Every year	20	Throughout the PA	Forest	Population decline, Proliferation of hardy species/weeds, Degradation, Poor regeneration
	ASS/S/LAO		Development project (Dyke)	1960	50	Northern part of the PA	Grasslands	Population decline, Degradation, Poor regeneration

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
36	ASS/S/NAMB	37	Grazing				Forest	Grazing has resulted in some deforestation, which in turn has affected the habitat of fauna.
37	ASS/S/PAN	33.93	Flood		33.93			Degradation and Changes in habitat/vegetation/forest types
	ASS/S/PAN		Grazing		33.93			Degradation and Changes in habitat/vegetation/forest types
38	ASS/S/POB	16.00	Flood	Every year	16	Entire	Grassland	Degradation, Poor regeneration
	ASS/S/POB		Grazing	Every year	6.8	Pagladova, Noltoli, Tamuldova	Grassland	Grass growth stunted
	ASS/S/POB		Sangai project		1	Jugdol	Grassland	Regeneration of Albizia procerea
	ASS/S/POB		Siltation	Every year		Tamuldova, Jugdol	Wetland	Water scarcity during dry months
39	ASS/S/SON	220.00	Habitation	1996	5.9	Central Range	Forest	Degradation, Poor regeneration
	ASS/S/SON		Tree felling	1996				
	ASS/S/SON		Cultivation	1997		Dhekiajuli Range		
40	BIH/S/RAJ	35.84	Grazing		30	Rajgir	Grassland, forest	Degradation and poor regeneration.
	BIH/S/RAJ		Fire		12	Rajgir	Grassland, forest	Degradation and poor regeneration.
	BIH/S/RAJ		Tourism		1	Rajgir	Forest	Degradation.
41	CHD/S/SUK	26.11	Drought, Erosion, Dams.	Regularly		Kansal and Nepli	Forest	
42	CHT/N/IND	2799.09	Grazing	Annual	559.82	In the periphery of villages	Grasslands	Degradation
	CHT/N/IND		NTFP Collection	Annual	559.82	In the periphery of villages	Forest	Degradation
43	CHT/N/KAN	200.00	Cultivation	Since 1987	3	Both the ranges	Forest	Population decline, Degradation, Poor regeneration, Changes in habitat/vegetation/ forest types, Proliferation of hardy species/ weeds
	CHT/N/KAN		Habitation	Since 1987	0.7	Both the ranges	Forest	Population decline, Degradation, Poor regeneration, Changes in habitat/vegetation/ forest types, Proliferation of hardy species/ weeds

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	CHT/N/KAN		NTFP Collection	Since a long time	40	Both the ranges	Forest	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types
	CHT/N/KAN		Fire (Burning)	Since a long time	60	Both the ranges	Forest	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types, Proliferation of hardy species/ weeds
	CHT/N/KAN		Tree felling	Since a long time		Both the ranges	Forest	Degradation, Poor regeneration, Proliferation of hardy species/ weeds
	CHT/N/KAN		Bamboo and bamboo shoots cutting	Since a long time	20	Both the ranges	Forest	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types
	CHT/N/KAN		Grazing	Since a long time	10	Both the ranges	Forest	Degradation, Poor regeneration, Proliferation of hardy species/ weeds
	CHT/N/KAN		Tourism	Since 1984		Both the ranges	Forest	Cave structure in the PA is being broken, blackened and scratched
	CHT/N/KAN		Fishing by tribals	Since a long time		Both the ranges	Forest	Degradation
	CHT/N/KAN		OTH (Fuelwood extraction)	Since a long time	30	Both the ranges	Forest	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types
44	CHT/S/ACH	551.55	Development (PWD Road)	Since 1978	80	All the three ranges	Forest	OTHERS (Noise pollution and disturbance to wild animals)
	CHT/S/ACH		Habitation (22 forest villages in the PA)	Since before creation of the PA	300	All the three ranges	Forest	OTHERS (Human impact on biodiversity)
45	CHT/S/BAD	104.45	Habitation	Since before creation of the PA	12	Compartment numbers 339, 363, 365, 371	Forest	Disturbance to wildlife and possibility of encroachment and hunting
	CHT/S/BAD		Cultivation	Since before creation of the PA	6	Compartment numbers 339, 363, 365, 371	Forest	Disturbance to wildlife and possibility of encroachment and hunting
	CHT/S/BAD		Felling	Since before creation of the PA	6	Compartment numbers 339, 363, 365, 371	Forest	Forest villagers do felling to collect honey, NTFP from Sal and to hunt birds
46	CHT/S/GOM	277.82						

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Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
47	CHT/S/PAM	442.23	Grazing	Annual	132.67	Pamed	Grassland	Degradation
	CHT/S/PAM		NTFP Collection	Annual	132.67	Pamed	Forest	Degradation
48	CHT/S/SIT	558.55	Grazing	Annual	140	Risgaon and Sitanadi Range	Grasslands	Degradation
	CHT/S/SIT		Fire (Burning)	Annual	0.35	Risgaon and Sitanadi Range	Forest, around Mahua trees	Changes in habitat/vegetation/forest types
	CHT/S/SIT		Tree Felling	Annual	55.8	Risgaon and Sitanadi Range	Forest	Degradation
49	CHT/S/TAM	608.53	Fire (Burning)	Since before creation of the PA	210	Game Range Tamor Pingla	Grassland	Degradation and poor regeneration
	CHT/S/TAM		Grazing	Since before creation of the PA	32	Game Range Tamor Pingla	Grassland	Degradation and poor regeneration
	CHT/S/TAM		NTFP Collection	1990	593	Game Range Tamor Pingla	Forest	Degradation and poor regeneration
50	DEL/S/ASO	27.81	Grazing	1986	9	Asola	Forest	Degradation, poor regeneration
	DEL/S/ASO		Mining	1986	4	Asola	Forest	Degradation, poor regeneration
	DEL/S/ASO		NTFP Collection	1986	10	Asola	Forest	Degradation, poor regeneration
51	GOA/S/BON	7.95	Erosion	During monsoons	Valleys	Catchment of streams	Forest	Degradation
	GOA/S/BON		Grazing	Not monitored	Peripheral areas	Ponda, Valpoi, Collem	Forest	Poor regeneration
	GOA/S/BON		Habitation	1978 onwards	1	Bondla zoo	Forest	Degradation
	GOA/S/BON		Tourism	1978 onwards	2	Eco tourism zone	Forest	Proliferation of hardy species
	GOA/S/BON		Pilgrimage	Annual (one day every year)	2	Siddha shrine	Forest	Degradation
52	GOA/S/CHO	1.80	Tree felling	1991-93	0.1	Campal	Mangrove forest	Degradation
53	GUJ/N/BAN	23.99	Fire (Burning)	1994/95 to 1998/99	0.62	Bansda national park	Dry leaves, grass were burnt	

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	GUJ/N/BAN		Tree felling	1994/98 to 1998/99	0.62	Bansda national park	Illicit cutting of 127 cmt. Value of damage was Rs. 308011/-	
	GUJ/N/BAN		OTH (17 offence were registered)	1994/95 to 1998/99	0.62	Bansda national park		
	GUJ/N/BAN		Grazing (9 cases were registered)	1994/95 to 1998/99	0.62	Bansda national park		
54	GUJ/S/PUR	160.35	Fire(Burning), Tree felling and Grazing	Occasional			Under growth and occasional reports of firewood extraction.	
55	GUJ/S/RAT	55.65	Drought	1986-87-88, 2000, 2001	Whole area	Kanjeta	Forest	Poor regeneration, degradation
	GUJ/S/RAT		Drought	Every year	Part of the area	Kanjeta	Forest	Poor regeneration, degradation
	GUJ/S/RAT		Fire	Every year	Part of the area	Kanjeta	Forest	Poor regeneration, degradation
	GUJ/S/RAT		NTFP collection	Every year	Part of the area	Kanjeta	Forest	Poor regeneration, degradation
	GUJ/S/RAT		Habitation	Every year	Part of the area	Kanjeta	Forest	Poor regeneration, degradation
56	GUJ/S/WIL	4953.71	Salt production	Continuously since 1873	297.21	Dhrangadhra, Bajana, Adesar.	Open desert land and creek area at Surajbari	Negative
57	HAR/S/ABU	113.97	CUL	Since before the declaration of the sanctuary.		Dabwali range		

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	HAR/S/ABU		FEL	Since before the declaration of the sanctuary.		Dabwali range		
	HAR/S/ABU		TOU	Since before the declaration of the sanctuary.		Dabwali range		
58	HAR/S/BIRB	4.14	FEL	1999	6	Bir Bara Ban Jind	Tree Felling in forests	Population decline and poor regeneration
59	HAR/S/CHIL	0.28	Cultivation around the wetland				Wetland	Degradation of the habitat
60	HAR/S/SAR	44.02	Grazing, Cultivation and Others			Entire range		New seedlings are impacted heavily. The PA is situated in an area that is heavily impacted by human interference.
61	HP/N/GRE	905.40	Human habitation	From posterity of PA		Sainj, Tivthan and Jiwanal	Forest, Grassland	Degradation of forest cover gacessiuue use of grasses, MFP, etc.
	HP/N/GRE		Cultivation	From Posterity		Sainj, Tirthan and Jiwanal	Forest, Grassland	Degradation of forest cover gacessiuue use of grasses, MFP, etc.
	HP/N/GRE		Grazing of livestock	From posterity		Sainj, Tirthan, Jiwanal	Forest, Grassland	Degradation of forest cover gacessiuue use of grasses, MFP, etc.
	HP/N/GRE		Fodder Collection	From posterity		Sainj, Tirthan and Jiwanal	Forest, Grassland	Degradation of forest cover gacessiuue use of grasses, MFP, etc.
	HP/N/GRE		Hab collection non w	From posterity		Sainj, Tirthan and Jiwanal	Forest, Grassland	Degradation of forest cover gacessiuue use of gras
	HP/N/GRE		Fuel/Timber extraction with coming of fi	From Posterity		Sainj, Tirthan and Jiwanal	Forest, Grassland	Degradation of forest cover gacessiuue use of grasses, MFP, etc.
62	HP/S/DAR	46.59	Fire(Burning)	Annual	2	Dofda	Forest around villages	Degradation, Changes in habitat/ vegetation/ forest types

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	HP/S/DAR		Grazing	Annual	3	Dofda	Forest around villages and Alpine pastures	Degradation, Changes in habitat/ vegetation/ forest types
63	HP/S/DHA	943.98	Fire (burning)	Annual	1	Bir and Keori beats	Forest	Poor regeneration
	HP/S/DHA		Grazing	Annual	350	Whole range	Forest and Grassland	Degeradation, poor regeneration
	HP/S/DHA		Habitation	Annual		Southern part of the PA	Forest	Degeradation, poor regeneration
	HP/S/DHA		NTFP collection	Annual	70	North and North East of the PA	Grassland	Degeradation
	HP/S/DHA		Cultivation	Annual		Southern part of the PA	Forest	Changes in hanbitat/Vegetation/Forest types
	HP/S/DHA		Tree felling	Annual	350	Southern part of the PA	Forest	Poor regeneration
64	HP/S/GAM	109.00	Landslide and erosion	Annual	0.03	Langrea, Beer, Sangani beats	Forest	Minimal loss of vegetation
	HP/S/GAM		Grazing	Annual	30	Bhandal	Grassland and forest	Slight impact
	HP/S/GAM		Habitation	Annual	3.5	Bhandal	Private land	No impact
	HP/S/GAM		Cultivation	Annual	6	Bhandal	Private land	No impact
	HP/S/GAM		Tree felling(Timber demand)	Annual	2	Bhandal	Forest	No impact
	HP/S/GAM		Pilgrimage	Annual	30	Bhandal	Forest and grassland	No impact
65	HP/S/KAI	12.61						
66	HP/S/KAL	69.47	Grazing (Traditional right)	Annual	2	Kalatop-Khajjiar	Forest and grasslands	Poor regeneration
	HP/S/KAL		Tree felling (Timber demand, Traditional right)	Annual	4.7	Kalatop-Khajjiar	Forest	None
	HP/S/KAL		OTH (Charcoal making, Traditional right)	Annual	4.7	Kalatop-Khajjiar	Forest	None
	HP/S/KAL		Habitation	Annual	0.25	Kalatop-Khajjiar	Private lands	Changes in habitat/vegetation/forest types

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	HP/S/KAL		Cultivation (Private land)	Annual	1	Kalatop-Khajjiar	Private lands	Changes in habitat/vegetation/forest types
	HP/S/KAL		Development projects (PWD road)	Annual	1	Kalatop-Khajjiar	PWD land	Changes in habitat/vegetation/forest types
	HP/S/KAL		Tourism and pilgrimage	Annual	0.2	Kalatop-Khajjiar	Revenue, forest land	Changes in habitat/vegetation/forest types
67	HP/S/KAN	58.18						
68	HP/S/KHO	19.35						
69	HP/S/KUG	378.87	Grazing	Annual	340.98	Entire PA	Forests & grasslands	Poor regeneration, OTH (Soil degradation)
	HP/S/KUG		Habitation & Cultivation	Annual	0.5	Around kugti	Forests	Negligible
	HP/S/KUG		NTFP Collection	Annual	189.44	Mostly Hal and Heg Dhar and around Kugti village	Forests & Grasslands	Negligible
	HP/S/KUG		Tourism & Pilgrimage	Annual	19.39	Along trek routes	Forest & Grasslands	OTH (Noise, disturbance and accumulation of solid waste)
	HP/S/KUG		Tree felling(Timber demand)	Annual	2	Around Kugti village	Forests	Population decline, OTH (Noise & Disturbance)
	HP/S/KUG		Development project (Road from Hadsar to Kugti)	1970s onwards	0.5	From Hadsar to Kugti	Forests & Grasslands	Changes in habitat/ vegetation/ forest types, OTH (Soil erosion)
	HP/S/KUG		OTH (Glaciers)	Annual	37.89	South & South East of the PA.	Forest & Grasslands	Population decline (Uprooting & Breaking of trees), land slips.
70	HP/S/LIP	30.89	Grazing	Every year		Sangla	Grassland	Degradation
	HP/S/LIP		NTFP Collection	Every year		Sangla	Grassland	Degradation
71	HP/S/MAN	29.00						
72	HP/S/PON	307.70	OTH (Fishing)	Annual	307.7	Entire PA	Wetland	Population decline (Diving Birds get caught in fishing nets), general disturbance
	HP/S/PON		OTH (Water sports)	Annual	2		Wetland	General disturbance
	HP/S/PON		Cultivation on edge of lake	Annual			Wetland	Nesting or feeding of some birds gets disturbed.

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
73	HP/S/RUP	269.15	Fire	Annual	10	Rupi+Bhaba	Forest around villages	Degradation, Changes in the habitat/ vegetation/ forest types
	HP/S/RUP		Grazing	Annual	100	Rupi+Bhaba	Forest around villages & Alpine Pastures	Degradation, Changes in the habitat/ vegetation/ forest types
74	HP/S/SAN	650.00	Grazing	Annual	650	Sangla	Grasslands and alpine pastures	Poor regeneration. Saplings and seedlings get eaten.
	HP/S/SAN		NTFP Collection	Annual	487.5	Sangla	Grasslands and alpine pastures	Poor regeneration. Roots are removed.
	HP/S/SAN		OTH (Fuel and fodder extraction)	Annual	325	Sangla	Forests and Grasslands	Poor regeneration due to excessive lopping.
	HP/S/SAN		Timber Demand	Annual	325	Sangla	Forests	Population decline.
	HP/S/SAN		Habitation	Annual		Sangla	Forests	Cause fire in the forest occasionally
75	HP/S/SHI	90.37	Floods	1999	3	Karsog	Forest	Change in habitat/Vegetation/ forest types
	HP/S/SHI		Erosion	1999	3	Karsog	Forest	Change in habitat/Vegetation/ forest types
	HP/S/SHI		Grazing	1999	50	Karsog	Forest	Change in habitat/Vegetation/ forest types
76	HP/S/TUN	64.00	Grazing	Annual	57.6	Entire PA	Forest and grassland	OTH (soil degradation)
	HP/S/TUN		Habitation and Cultivation	Annual	15	Tundah & Badgran beats	Forest	Negligible
	HP/S/TUN		NTFP Collection	Annual	46	Entire PA	Forest, grassland	Negligible
	HP/S/TUN		Tourism and pilgrimage	Annual	6.4	Banni, Badgran, Tundah beats and Bhadra, along the trekpaths in the PA.	Grassland	OTH (noise, disturbance and accumulation of solid wastes)
	HP/S/TUN		Tree felling(Timber demand)	Annual	10	Tondah, Badgran beats	Forest	Population decline, OTH (noise and disturbance)
	HP/S/TUN		Development project (Road)	Annual	0.2	Badgran beat	Grassland	Changes in habitat/ vegetation/ forest types, OTH (soil erosion)
	HP/S/TUN		OTH (Glaciers)	Annual	5	Banni, Bhadra beats	Forest and grassland	Population decline (Uprooting & Breaking of trees), land slips.

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
77	J&K/N/HEM	3350	Floods	Annual	10	Markha, Rumbak, Chilling, Kaya	Grassland	Negligible
	J&K/N/HEM		Grazing	Annual	50	Markha, Rumbak, Chilling, Kaya	Grassland	Negligible
	J&K/N/HEM		Habitation and cultivation	Annual	550	Markha, Rumbak, Chilling, Kaya	Forest, grassland, barren areas.	Negligible
	J&K/N/HEM		Tourism	Annual	20	Markha, Rumbak, Chilling, Kaya	Grassland	Negligible
78	J&K/N/KIS	425.00	Development projects ('Budsar hydel electric project is under consideration with government of India. Survey has been completed)		10% of the area of the PA	Sirch and Kishtwar		
	J&K/N/KIS		Soil erosion		10% of the area of the PA	7% in Sirchi range 3% in Kishtwar range.		
	J&K/N/KIS		Grazing			Sirch and Kishtwar	Due to over grazing in the upper reaches, there is problem of regeneration in forest area.	Due to over grazing in the upper reaches, there is problem of regeneration in forest area.
79	J&K/S/CHA	4000	Floods	Annual	100	Both ranges	Barren area	Degradation
	J&K/S/CHA		Development projects (roads)	Annual	810 km. (length)	Both ranges	Barren area	Degradation
	J&K/S/CHA		Tourism	Annual	200	Both ranges	All types	Pollution, degradation
	J&K/S/CHA		Army	Annual	600-700	Both ranges	All types	Pollution, population decline, degradation, poor regeneration.
	J&K/S/CHA		Cultivation and habitation	Annual	20.64	Both ranges	All types	Degradation

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	J&K/S/CHA		Grazing	Annual	2000	Both ranges	Grassland	Population decline, poor regeneration
80	J&K/S/KAR	5000	Erosion	Annual	5	Nubra	Grassland, forest, cultivated area	Degradation
	J&K/S/KAR		Development projects (roads)	Annual	335 km.	Nubra	Barren areas	General disturbance
	J&K/S/KAR		NTFP collection	Annual	10	Khardungla	Grassland	None
	J&K/S/KAR		Habitation and cultivation	Annual	750	Nubra	Forest, grassland	Degradation, poor regeneration
	J&K/S/KAR		Felling	Annual	50	Nubra	Forest	Degradation, poor regeneration
	J&K/S/KAR		Tourism	Annual	2000	Nubra	Forest	Degradation
	J&K/S/KAR		Others (army and para military activity)	Annual	1000	Nubra	All habitats	Degradation, poor regeneration
	J&K/S/KAR		Grazing	Annual	3000	Nubra	Grassland	Degradation, poor regeneration
	J&K/S/KAR		Air port		50	Nubra	Riverine forest	Noise pollution
81	J&K/S/OVE	425.00	Tourism	Every year		Pahalgam	Forest	Disturbance
	J&K/S/OVE		Development projects			Pahalgam	Forest	Disturbance
82	JHA/S/HAZ	186.26	Tree Felling	Annual	186.26	Entire PA	Forest	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types
	JHA/S/HAZ		Cultivation, Grazing, Habitation, NTFP collection, Fire (Burning)	Annual	186.26	Entire PA	Forest	Degradation, Changes in habitat/ vegetation/ forest types, Proliferation of hardy species/ weeds
	JHA/S/HAZ		Mines/quarries	Annual	186.26	Entire PA	Forest	Degradation, Changes in habitat/ vegetation/ forest types
83	JHA/S/PAR	50.81	Landslide, Erosion, Fire (Burning)					Due to a huge landslide in 1995, the G.T.Road, situated at the foot hill of the PA, was washed away (30 to 40 feet)
84	KAR/N/ANS	250.00	Dams	1997	4	Wildlife Range Anashi	Forest land	Habitat Degradation

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	KAR/N/ANS		Grazing	Since Long	0.1	Wildlife Range Anashi	Forest land	Habitat Degradation
	KAR/N/ANS		Pilgrimage	Since Long	0.18	Wildlife Range Anashi	Forest land	Habitat Degradation
85	KAR/N/BAND	880.02						No human activity in the PA. Ground fire occurs in patches every year. This will not cause any damage to the PA.
86	KAR/N/BANN	104.27	Habitation	1970	20	Harohally, Project	Dry deciduous forest	Felling, grazing, degradation
	KAR/N/BANN		Grazing	Persists	20	All along boundary of the PA	Dry deciduous forest	Degradation in the fringes
	KAR/N/BANN		Fire	Accidental	5	Patches		Ground fire, poor regeneration
	KAR/N/BANN		Tree felling	Common		Along the boundary		Population decline
	KAR/N/BANN		Mines	1980	10	Bannerghatta and Kalkere S.F.	Dry deciduous forest	Degradation, totally stopped.
87	KAR/N/KUD	600.32	Grazing, Fire					Since the enclosures are there in the National Park, the cattle grazing is an usual practice. During the period of dry summer in March, April and May Fires are occurring sporadically; and are being extinguished by the staff then and there.
88	KAR/S/ADI	0.89	Grazing	Every year	0.2	Adichunchangiri	Forest land	Decrease in Regeneration.
	KAR/S/ADI		Fire	Every year	0.05	Adichunchangirei	Forest land	Regeneration gets burnt.
	KAR/S/ADI		Pilgrimage	Every year	0.02	Adichunchangiri	Forest land	Decrease in Regeneration. Regeneration gets burnt. Small aggregate accidental fire.
89	KAR/S/ARA	13.50	Grazing, Tree felling, Fire	Every year	4 to 5	Arabititu Sanctuary Fringes of the Sanctuary	Forest	Degradation, Proliferation of hardy species/weeds
90	KAR/S/ATT	2.226						
91	KAR/S/BIL	540	Erosion	Every year	Fringe	All ranges	Dry deciduous fringe	Infertility
	KAR/S/BIL		Dam	1980's	Fringe		Fringe	Backwater
	KAR/S/BIL		Fire	Every year	Whole	All ranges	Shola grasses	Regeneration depressed.
	KAR/S/BIL		Grazing	Every year	Fringe	All ranges	Fringe grassland	Regeneration depressed

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	KAR/S/BIL		Habitation	Every year	Whole		Sparse	Area diverted
	KAR/S/BIL		Mines	Every year	Fringe		Fringe	Area diverted
	KAR/S/BIL		NTFP collection	Every year	Whole		Whole area	Yield declines
	KAR/S/BIL		Cultivation	Every year	Sparse		Sparse	Area diverted
	KAR/S/BIL		Tourism	Every year	Two places		K. Gudi, BRT	Polythene
	KAR/S/BIL		Pilgrimage	Every year	One place		BRT	Polythene
92	KAR/S/DAN	475.02	Development project	1980	4	Wildlife Range Kulgi	Forest	Biotic pressure
	KAR/S/DAN		Habitation	Since long back		Wildlife range Kulgi	Forest	Illegal activities like encroachments, Grazing, illicit felling, forest fire etc
	KAR/S/DAN		Mining	Since long back	2	Wildlife Range Kulgi&Phansoli	Forest	Illegal activities like encroachments, grazing, illicit felling, forest fire etc.
	KAR/S/DAN		Dams	1973	0.1	WLR Kulgi & Kumbarwada	Forest	Habitat degradation
	KAR/S/DAN		PAM	1998	9.5	Wildlife Range Gund	Forest	Submersion of the habitat
93	KAR/S/DOR	55.87	Grazing	Since 1995	12.5	Kamalapur	Grassland	Meager impact on grass land the same is being avoided by providing boundary stone wall & C.P.T
94	KAR/S/GHA	29.79	Grazing	1979	29	Main island of the sanctuary	Grass land	To some extent only in summer season
95	KAR/S/GUD	0.74				Gudavi B.S	Forest land 43.68 ha, tank 30 ha	Deweeding of Antargance to keep the water clean and to develop the fish in the tank. Soil conservation measures and storing of water for birds.
96	KAR/S/KAV	526.95					. Hence, collection of dry firewood, MFP, grazing pose little problem. Fire damages occur and are controlled in time by staff.	There are few enclosures with heavy human population & cattle population inside the PA
97	KAR/S/MEL	49.82	Grazing, Tree felling, Fire	Occasional	10	Fringes of the Sanctuary	Forest is affected	Poor regeneration & degradation

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98	KAR/S/MOO	247.00	Habitation		125	Kundapur Wildlife Range	Forest and Grassland	Population decline, Degradation, Poor regeneration
99	KAR/S/NUG	30.32	Tree felling, Fire, Grazing	Occasional	2 sqkms (in the fringes)	Nugu Wildlife Sanctuary	Scrub Forest	Ground fire , occasional felling and grazing
100	KAR/S/RANE	119.00	Grazing	Since 1974	40 to 50	Alalgiri, Hunsikatti, Hullatti	Grass land	Greater impact.Necessary proposals have been submitted to higher authorities for providing alternate grazing facilities to the surrounding villages
101	KAR/S/SHA	431.23	Sharavathi Dams construction for Hydro Elec. Proj.	1963	123.63	Korgal, Kogar	Forest land, wet land, grassy patch	Degradation of soils
102	KAR/S/SHE	395.60	Mines/quarries	1970 onward	8	Shimoga, Hanagere	Forest	Degradation and Changes in habitat/vegetation/forest types
	KAR/S/SHE		Dams		8	Sacrebyle	Forest	Submersion of natural forest
	KAR/S/SHE		Cultivation	1970 onwards		Hanagere, Shimoga	Forest	Degradation
103	KAR/S/SOM	88.97	Grazing, Fire					GRA- Since the enclosures are there in the NP, the cattle grazing is an usual practice, FIR - During the period of dry summer is March, April and May fires are occurring sporadically; and are being extinguished by the staff then and there
104	KER/N/ERA	100.00	Fire (Burning)	1990	10	Eravikulam	Forests and Grasslands	Degradation
	KER/N/ERA		Grazing and Fuelwood collection according to MP					Population Decline, Proliferation of hardy species/ weeds
105	KER/S/ARA	55	Drought	1984 onwards	5	Aralam	Forest	Degradation, poor regeneration, changes in habitat/vegetation/forest types.
	KER/S/ARA		Erosion	1984 onwards	8	Aralam	Forest	Degradation, poor regeneration, changes in habitat/vegetation/forest types.

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	KER/S/ARA		Habitation	1984 onwards	3	Aralam	Forest	Degradation, poor regeneration, changes in habitat/vegetation/forest types.
	KER/S/ARA		Grazing		Lower reaches of PA	Aralam	Forest and grassland	
	KER/S/ARA		MFP collection	Every year	37.18	Aralam	Forest	
	KER/S/ARA		Firewood	Every year	Fringe area	Aralam	Forest	
106	KER/S/CHIN	90.44	Grazing	Annual	20	Chinnar	Dry thorn forest	Degradation, Population decline
107	KER/S/WAY	344.44	Drought	1989	344.44	All ranges	Forest	Population decline, Degradation
	KER/S/WAY		Fire (Burning)	1989-1990	344.44	All ranges	Forest	Degradation, Poor regeneration, proliferation of hardy species/weeds
	KER/S/WAY		Grazing	Annual	344.44	All ranges	Forest	Disease, Degradation, Poor regeneration, Proliferation of hardy species/weeds
	KER/S/WAY		Habitation	Annual	344.44	All ranges	Forest	Disease, Degradation, Changes in habitat/vegetation/forest types
	KER/S/WAY		NTPP Collection	Annual	344.44	All ranges	Forest	Changes in habitat/ vegetation/ forest types
	KER/S/WAY		Tourism	1986 onwards	35	Muthanga and Tholpetty	Forest	Disease, Degradation
108	MAH/N/AND	625.40	Fire (Burning)	Every year	290	Tadoba, Moharli, Kolsa	Forest, grassland	Poor regeneration & proliferation of handy species
	MAH/N/AND		Grazing	Every year	150	Tadoba, Moharli, Kolsa	Forest, grassland	Poor regeneration & proliferation of handy species
	MAH/N/AND		Tree felling		100	Tadoba, Moharli, Kolsa	Forest	Population decline & degradation
	MAH/N/AND		Minor forest produce collection		200	Tadoba, Moharli, Kolsa	Forest	Degradation
109	MAH/N/NAV	133.88	Tourism	Since declaration of the Park	133.88	All	Forest	Degradation
	MAH/N/NAV		Fire	Since declaration of the Park	133.88	All	Forest	Poor regeneration

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	MAH/N/NAV		Grazing	Since declaration of the Park	133.88	All	Forest	Poor regeneration
	MAH/N/NAV		Non Timber Forest Produce collection	Since declaration of the Park	133.88	All	Forest	Poor regeneration
	MAH/N/NAV		Felling		133.88	All	Forest	Poor regeneration
110	MAH/N/PEN	257.26	Human activity	From start	257.26	East Pench Reserve	Overall forest	On the wild life population trend
	MAH/N/PEN		Traffic	From start	257.26	East Pench Reserve	Overall forest	On the wild life population trend
	MAH/N/PEN		Grazing	From start				
	MAH/N/PEN		Illegal encroachment at totuladoh	From start				
	MAH/N/PEN		Illegal fishing	From start				
	MAH/N/PEN		Hydroelectrical project at totuladoh	From start				
111	MAH/N/SAN	103.09	Encroachments	1991 onwards	2	(Malad area)Sanjay Gandhi National Park, Yeur/Upwan	Forest	Slums,Bamboo degradation &encroachments long back
	MAH/N/SAN		Girdling	April/May every year		Nagla	Forest-illicit cutting	Nagla block
112	MAH/S/AMB	127.11	Fire	All throughout the year	2	Sonala	Forest	Poor regeneration &proliferation of hardy species/weeds
	MAH/S/AMB		Grazing	NA	NA	Sonala	Forest	Poor regeneration
113	MAH/S/ANE	82.94	Cultivation	Before 1986	82.94	Aner dam	Forest	Degradation& poor regeneration
	MAH/S/ANE		Habitation	Before 1986	82.94	Aner dam	Forest	Degradation &Poor regeneration
	MAH/S/ANE		Grazing	Before 1986	82.94	Aner dam	Forest	Degradation &Poor regeneration
	MAH/S/ANE		Fire(Burning)	Before 1986	82.94	Aner dam	Forest	Degradation &Poor regeneration
	MAH/S/ANE		Tree felling	Before 1986	82.94	Aner dam	Forest	Degradation &Poor regeneration

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
114	MAH/S/BHI	130.78	Development activities (Bombay Bhimashankar road)	1972	0.05	Bhimashankar-1	Forest	Gap in the canopy is created due to felling of trees.
	MAH/S/BHI		Development activities (Bhorgi Bhimashankar road)	1964-65 and 1972-73	0.02	Bhimashankar 1	Forest	Gap in the canopy is created due to felling of trees.
	MAH/S/BHI		Development activities (Nigdale Kondhwal Anupe road)	1976	0.04	Bhimashankar 1	Forest	Gap in the canopy is created due to felling of trees.
	MAH/S/BHI		Development activities (Jambhurde Sidhgad road)	1972-73	0.02	Bhimashankar -2	Forest	Gap in the canopy is created due to felling of trees.
	MAH/S/BHI		Dam (Jambhurde M.I.Tank)	1979-80 to 1983-84	0.32	Bhimashankar 2	Forest	Tree felled areas submerged under water.
	MAH/S/BHI		Landslides	1994	0.009	Bhimashankar 1 & 2	Forest	Tree growth destroyed.
	MAH/S/CHAN	308.97	Rehabilitation of villages out of sanctuary	1997-98	60%	To the north Nandoli to Chandel, all villages	Forest as well as Malki lands (cultivated lands)	Improvement in floral density, grass kurns development, Poaching minimised, human destruction minimised.
115	MAH/S/CHAP	133.23	Fire(Burning)	1999	4	Chaudampalli	Road side forest floor	Loss of humans
	MAH/S/CHAP	133.23	Grazing	1999	20.44	Chaudampalli	Forest	Loss of forage for herbivores
	MAH/S/CHAP		Non Timber Forest Produce Collection	1999	30	Chaudampalli	Forest	Destruction of habitat
	MAH/S/CHAP		Pilgrimage	1999	0.01	Chaudampalli	Forest	Excessive human presence in the PA
116	MAH/S/DEU	2.17	Habitat improvement work	Last 7-8 years		Rehekuri	Grassland	Improved productivity of area, increased population of black buck, overall improvement in micro climate.
117	MAH/S/GAU	260.00	Grazing	Long back		3 ranges	Thorny forest & grasses.	Degradation of forest

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	MAH/S/GAU	260.00	Fire	1999(March)	9	All three ranges	Thorny forest & grasses.	
118	MAH/S/GRE	8496.41						
119	MAH/S/GYA	203.56	Habitation					
	MAH/S/GYA		Fire(Burning)		152.67	Bhuldhana & Khamgaon	Grassland	
	MAH/S/GYA		Grazing		101.78	Buldhana & Khamgaon	Grassland & Forest	Trampling leading to grass degradation
	MAH/S/GYA		Dams					
120	MAH/S/JAI	341.05	Development projects	Since the construction of the dam(1976)		Whole waterbody	Wetland	Degradation of waterbody
	MAH/S/JAI		Cultivation	Since the construction of the dam(1976)		Whole waterbody	Wetland	Degraton of waterbody
	MAH/S/JAI		Fishing	Since the construction of the dam(1976)		Whole waterbody	Wetland	Degraton of waterbody
121	MAH/S/KAL	361.71	Grazing					
	MAH/S/KAL		Habitation					
	MAH/S/KAL		Non Timber Forest Produce collection					
	MAH/S/KAL		Developmant projects(Ghatghar dam on Panjra river)					
122	MAH/S/KAR	4.27	Tree felling	Every year	0.43		Forest	Loss of vegetation & Disturbance
	MAH/S/KAR		Tourism	Every year	1.7		Forest	Loss of vegetation & Disturbance

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
123	MAH/S/KAT	73.69	Grazing	Since establishment of the sanctuary	55.26	Akola	Forest & Grassland	Migration away from the site
	MAH/S/KAT		Fuel wood collection	Since establishment of the sanctuary	55.26	Akola	Forest & Grassland	Migration away from the site
	MAH/S/KAT		Non Timber Forest Produce Collection	Since establishment of the sanctuary	55.26	Akola	Forest & Grassland	Migration away from the site
124	MAH/S/MAY	5.145	Grazing			Supre	Forest	Disturbance to ecosystem
125	MAH/S/NAG	152.81	Tourism	Since declaration of the sanctuary.	152.81	All	Forest & Grassland	Degradation & Poor regeneration
	MAH/S/NAG		Fire(Burning)	Since declaration of the sanctuary.	152.81	All	Forest & Grassland	Degradation & Poor regeneration
	MAH/S/NAG		Grazing	Since declaration of the sanctuary.	152.81	All	Forest & Grassland	Degradation & Poor regeneration
	MAH/S/NAG		Non Timber Forest Produce	Since declaration of the sanctuary	152.81	All	Forest & Grassland	Degradation & Poor regeneration
	MAH/S/NAG		Felling	Since declaration of the sanctuary	152.81	All	Forest & Grassland	Degradation & Poor regeneration

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
126	MAH/S/NAI	29.90	Grazing, Non Timber Forest Produce	Since long	10	Beed	Forest, grassland	Degradation & poor regeneration
127	MAH/S/NAR	12.35	Fire (Burning)					
	MAH/S/NAR		Due to shortage of water during summer, Monkeys turn to adjoining villages.					
	MAH/S/NAR		Stray dogs (domestic) from adjoining villages go to the forest & chase/kill antelopes.					
128	MAH/S/PAI	324.64	Fire	Every year right from the beginning	324.64	Sonadabhi & Kharbi ranges	Forest	Growth restricted, trampling (Grass restricted) & erosion
	MAH/S/PAI		Grazing	Every year right from the beginning	162.32 to 227.25	Sonadabhi & Kharbi ranges	Forest	Growth restricted, trampling (Grass restricted) & erosion
129	MAH/S/RAD	351.16	Grazing					
	MAH/S/RAD		Habitation					
130	MAH/S/SAG	10.87	Drought	Every year	10.87	Whole protected area	Forest & Grassland	Degradation
	MAH/S/SAG		Fire (Burning)	Every year	0.5	Whole protected area	Forest & Grassland	Degradation
	MAH/S/SAG		Development projects	1984	0.1	Whole protected area	Forest & Grassland	Degradation
	MAH/S/SAG		Tourism	Every year	10.87	Whole protected area	Forest & Grassland	Degradation
	MAH/S/SAG		Pilgrimage	Every year	10.87	Whole protected area	Forest & Grassland	Degradation
	MAH/S/SAG		Grazing	Every year	10.87	Whole protected area	Forest & Grassland	Degradation
	MAH/S/SAG		Mines/Quarries	Every year	0	Whole protected area	Forest & Grassland	Degradation
131	MAH/S/TIP	140.29	Grazing	?		Tipeshwar	Forest & Grazing	Degradation
	MAH/S/TIP		Felling	?		Tipeshwar	Forest	Degradation

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	MAH/S/TIP		Fire(Burning)	?		Tipeshwar	Forest & Grassland	Degradation
132	MAH/S/WAN	205.86	Fire					
	MAH/S/WAN		Shortage of Water during summer causes Monkeys to turn to adjoining villages.					
	MAH/S/WAN		Stray dogs(domestic) from adjoining villages go to the forest & chase/kill antelopes.					
133	MAH/S/YED	22.37	Non Timber Forest Produce	Since long	9.1		Grassland and forest	Degradation and poor regeneration
	MAH/S/YED		Grazing	Since long	6.7		Grassland and forest	Degradation and poor regeneration
134	MAN/N/KEI	40.00	Dam	1983 onwards	26	Major part of the park is affected by this	Wetland	Poor regeneration, Change in habitat/vegetation/forest types.
	MAN/N/KEI		Human settlement	Since many years		Periphery of park	Outside the park - dry ground	The wild animals are not willing to come near the periphery of the park, thus their habitat is reduced
135	MEG/N/BAL	220.00	Fire	Annual	Not ascertained	All the ranges	Grassland	
	MEG/N/BAL		NTFP collection	Annual	Not ascertained	All ranges	Grassland	Degradation and poor regeneration
136	MEG/S/BAG	0.03	NTFP collection	Every year	Not ascertained		Forest	NTFP collection is very occasional and does not pose serious threat/impact
137	MEG/S/SIJ	5.18	Fire	Annual	Not ascertained	Siju Wildlife Range	Grassland	
	MEG/S/SIJ		Grazing	Every year	Not ascertained	Siju Wildlife Range	Forest	Adverse impact on flora and fauna
	MEG/S/SIJ		NTFP collection	Every year	Not ascertained	Siju Wildlife Range	Forest	Degradation and poor regeneration

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
138	MIZ/N/MUR	200.00	Habitation (Murlen village - 69 families, 468 persons)	1891 onwards	7	North Khawbung	Grassland, forest	
	MIZ/N/MUR		Fire, cultivation, felling, NTFP collection	Annual	150	North Khawbung	Forests	Degradation, Proliferation of hardy species/weeds
139	MIZ/N/PHA	50.00	Landslides	1995	1	Phawngpui	Forests and grasslands within the PA	Habitat destruction
	MIZ/N/PHA		Fire	Every 3 years (parallel to the jhum cycle)	1	Phawngpui	Forests and grasslands within the PA	Change in habitat
	MIZ/N/PHA		NTFP collection	Annual	17	Phawngpui	Forests	Negligible impact
140	MIZ/S/DAM	500.00	Fire	1990	300	Teirei and Phuldungsei	Bamboo forest	Population decline, degradation, Changes in habitat/Vegetation/Forest types
	MIZ/S/DAM		Fire	1995	0.25	Teirei	Bamboo forest	Degradation
	MIZ/S/DAM		Fire	1996	0.35	Phuldungsei	Bamboo forest	Population decline, degradation, changes in habitat/vegetation/forest types
	MIZ/S/DAM		Fire	1999	0.18	Phuldungsei	Bamboo forest	Population decline, degradation, Changes in habitat/vegetation/forest types
	MIZ/S/DAM		Jhuming	1990	300	Teirei & Phuldungsei	Bamboo forest	Population decline, degradation, changes in habitat
	MIZ/S/DAM		Jhuming	1996	0.35	Phuldungsei	Bamboo forest	Degradation, changes in habitat/vegetation/forest types
	MIZ/S/DAM		Jhuming	1999	0.18	Phuldungsei	Bamboo forest	Degradation, changes in habitat
	MIZ/S/DAM		Felling	1995	0	Phuldungsei	Forest	Negligible
	MIZ/S/DAM		Felling	1996	0	Phuldungsei	Forest	Negligible
	MIZ/S/DAM		Felling	1998	0	Teirei	Forest	Negligible
	MIZ/S/DAM		NTFP collection	1990	50	Teirei & Phuldungsei	Bamboo forest	Negligible
141	MIZ/S/KHA	41.00	Fire	Annual	0.7	Rawpui	Forest	Degradation, proliferation of hardy species/weeds

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	MIZ/S/KHA		Cultivation (Jhum)	Every 5 years (parallel to the jhum cycle)	0.35	Rawpui	Forest	Degradation, proliferation of hardy species/weeds
142	MIZ/S/LEN	120.00	Fire	Annual	36	Ranges not yet demarcated	Forest	Degradation
	MIZ/S/LEN		Cultivation	Annual	20	Ranges not yet demarcated	Forest	Degradation
	MIZ/S/LEN		Felling	Annual	5	Ranges not yet demarcated	Forest	Degradation
	MIZ/S/LEN		OTH (Hunting)	Annual	90	Ranges not yet demarcated	Forest	Degradation
143	MP/N/BAN	1161.47	NTFP (Tendu), Amla collection, Mahuwa collection	Every Year	600	Magadhi, Khitauli, Kallawah, Panpatha.	Forest	Felling and lopping of Tendu leaves, amla and chironji.
144	MP/N/PEN	292.86	Dam	1990 onwards	54.51	Karmajhiri and Gumtara	Forest	Change in habitat/vegetation/forest types.
	MP/N/PEN		Development projects.	1985 onwards	0.43	Karmajhiri	Forest	Change in habitat/vegetation/forest types.
	MP/N/SAN	#N/A	Fire (Burning)	Annual		Dubari, Bastua	Forest	Degradation, poor regeneration, change in habitat, proliferation of weeds.
	MP/N/SAN	#N/A	Grazing	Rotational	192.04	Dubari, Bastua	Forest	Degradation, poor regeneration, change in habitat, proliferation of weeds.
	MP/N/SAN	#N/A	Habitation	From 1975	59.98	Dubari, Bastua	Forest	Degradation, poor regeneration, change in habitat, proliferation of weeds.
	MP/N/SAN	#N/A	NTFP collection	From 1992	304.61	Dubari, Bastua	Forest	Degradation, poor regeneration, change in habitat, proliferation of weeds.
	MP/N/SAN	#N/A	Cultivation (encroachment)	From 1989	12.7	Dubari, Bastua	Forest	Degradation, poor regeneration, change in habitat, proliferation of weeds.
	MP/N/SAN	#N/A	Oth (Nistar)	Annual		Dubari, Bastua	Forest	Degradation, poor regeneration, change in habitat, proliferation of weeds.

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
145	MP/N/SAT	524.37	Erosion		400	Kamti and Pachmarhi.	Forestland, Wetland	Degradation, Poor regeneration and Changes in habitat/vegetation/Forest types.
	MP/N/SAT		Pilgrimage		35	Pachmarhi.	Forest	Degradation, Poor regeneration and Disease
146	MP/S/BAG	478.00	Erosion	Annual	15	Bagdara	Forest and Grassland	Degradation
	MP/S/BAG		Fire (Burning)	Annual	10	Bagdara	Grassland	Degradation
	MP/S/BAG		Grazing	Annual and rotational	20	Bagdara	Grassland	Poor regeneration
	MP/S/BAG		Habitation	Annual (since 1978)	50	Bagdara	Forest and Grassland	Changes in habitat
	MP/S/BAG		NTPF Collection	Annual (since 1978)	300	Bagdara	Forest	
	MP/S/BAG		OTH (Nistar)			Bagdara	Forest	
147	MP/S/GAN	368.62	Construction of gigantic Gandhi Sagar dam on Chambal river.	1954-60		Gandhisagar sanctuary.	Forest, grassland	Not known as the Dam was constructed in 1960 and the sanctuary was notified only in 1974
	MP/S/GAN		Establishment of two cattle camps at Dhanga and Bakchads.	1950		Adjacent to Rajasthan boundary in Gandhisagar sanctuary.	Forest, grassland	Not known, as the cattle camps were established a year ago before the formation of the sanctuary.
	MP/S/GAN		Inhabitation of Chambal colony no .8	From 1954 onwards		Near the Gandhi Sagar dam site.	Forest, grassland	Colony was settled and constructed before 1974, when the sanctuary was notified.
	MP/S/GAN		Grazing	Since long back.		Gandhisagar Sanctuary.	Grassland	Reduction in forest and grassland habitat . Fodder shortage for wildlife.
	MP/S/GAN		NTPF collection	Since long back.		In every nook and corner of the sanctuary.	Forest	Not known

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	MP/S/GAN		Tree felling	Heavy influx of persons after 1954.		Area adjacent to peripheral villages.	Forest	Not known
	MP/S/GAN		Tourism	For past two decades.		Area in and around the places of historical importance.	Forest	Not known
	MP/S/GAN		Pilgrimage	Since 1950.		Areas which have proximity to religious places.	Forest	Not known
148	MP/S/NAR	57.20	Fire (Burning)	Yearly	5	Andhiyar Khon, Chandi Khon, Jagon Kho, Dhunwale 'B'	Forest and Grassland	Degradation, Poor regeneration, Changes in habitat/Vegetation/Forest types, Proliferation of hardy species/weeds.
	MP/S/NAR		Cultivation	Before 24/10/80	1.56	Scattered in whole PA	Forest and Grassland	Disease, Degradation, Poor regeneration and changes in habitat/vegetation/forest types.
	MP/S/NAR		Habitation		10	Chainpara, Devgarh and Gandhigram	Forest and Grassland	Extinction, Degradation, Poor regeneration.
	MP/S/NAR		Grazing	Yearly	20	In whole PA.	Forest and Grassland	Extinction, degradation, poor regeneration, change in habitat/vegetation/forest types, proliferation of hardy species/weeds.
	MP/S/NAR		Tree felling	Yearly	5	Ladakhon, Dhuwali, Andhiyar Khon, Karcha khon.	Forest	Extinction, degradation, poor regeneration, change in habitat/vegetation/forest types, proliferation of hardy species/weeds.
	MP/S/NAR		Tourism	Yearly	3	Chidi khon, Andhiyar khon, Jamun khon.	Forest and Grassland	Population declining and Poor regeneration.
149	MP/S/NAT	460.00	Sand mining					
	MP/S/NAT		Human Pressure					
	MP/S/NAT		Cattle Pressure					
150	MP/S/NOR	1186.96	Fire (Burning)	Every year	1186.96	All ranges of the P.A.	Grassland	Degradation/Poor regeneration.
	MP/S/NOR		Grazing	Every day	1186.96	All ranges of the P.A.	Forest and Grassland	Population decline, degradation and poor regeneration.

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	MP/S/NOR		NTFP collection	Every day	1186.96	All ranges of the P.A.	Forest and Grassland	Population decline, degradation, Poor regeneration.
	MP/S/NOR		Oth (Movement of villages and vehicles)	Every day	1186.96	All ranges of the P.A.	Forest and Grassland	Population decline, degradation and Poor regeneration.
151	MP/S/ORC	44.9						
152	MP/S/SAN	364.59	Erosion	Annual		Dubari, Bastua	Forest	Degradation, poor regeneration, change in habitat, proliferation of weeds.
153	MP/S/SAR	348.12	Grazing, Habitation, Cultivation	Every year	340	Sardarpur	Revenue area, agricultural land/ private land	Degradation.
154	MP/S/SON	209.21						
155	NAG/N/INT	202.02	Village settlement	1993 onwards	15.54	Tourist zone	Forest	Degradation
	NAG/N/INT		Development project (play ground)	1993 onwards	15.54	Tourist zone	Forest	Changes in habitat/vegetation/forest types
	NAG/N/INT		Cultivation	1993 onwards	15.54	Tourist zone	Forest	Degradation, changes in habitat/vegetation/forest types
	NAG/N/INT		Tree felling	1993 onwards	15.54	Tourist zone	Forest	Degradation, changes in habitat/vegetation/forest types, poor regeneration
	NAG/N/INT		NTFP collection	1993 onwards	40.4	Intanki	Forest	Population decline, poor regeneration
156	NAG/S/PUL	9.23	Landslide	Every year	0.23	Towards northern side	Forest	Degradation and general management problems
	NAG/S/PUL		Habitation	Every year	0.1	Towards Kohima township	Forest	Degradation
	NAG/S/PUL		Grazing	Every year	0.2	Toward Kohima township	Grassland	Degradation
	NAG/S/PUL		NTFP collection	Every year	0.5	Towards Kohima township	Forest and grassland	Degradation

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	NAG/S/PUL		Tree felling	Every year	0.45	Towards Kohima township	Forest	Degradation
157	NAG/S/RAN	4.70	Village settlement	1992	2.35	Rangapahar	Forest	Destruction of wildlife habitat
158	ORI/N+S/BHI	145	Habitation, Grazing, Erosion, OTH (Fishing and illicit felling)	Annual		Kanika and Rajnagar	Forest, grassland and wetland	Population decline, degradation, poor regeneration, proliferation of hardy species/weeds
159	ORI/S/BAD	304.03	Fire	Every year	150	Badarma	Forest	Population decline and poor regeneration
	ORI/S/BAD		Grazing	Whole year	150	Badarama	Forest around the villages in the PA	Degradation and poor regeneration
	ORI/S/BAD		Drought	Current Year	304.03	Badarama	Forest around the villages in the PA	Population decline and poor regeneration
	ORI/S/BAD		Habitation	Every year	150	Badarama	Forest	Degradation
	ORI/S/BAD		NTFP Collection	Every year	304.03	Badarma	Forest	Degradation and poor regeneration
	ORI/S/BAD		Tree felling	Every year	304.03	Badarma	Forest	Population decline
160	ORI/S/BAI	168.35	Bamboo working	1995-96	41.36	Barigocha range	Forest	Disturbance to habitat and wild animals
	ORI/S/BAI		Bamboo working	1996-97	33.13	Barigocha range	Forest	Disturbance to habitat and wild animals
	ORI/S/BAI		Bamboo working	1997-98	36.31	Barigocha range	Forest	Disturbance to habitat and wild animals
	ORI/S/BAI		Fire			All the ranges	Forest	Damage to regeneration and eggs of birds and reptiles, invertebrates and insects
	ORI/S/BAI		Grazing			All the ranges	Forest	Disturbance to wild animals and chances of Contamination
	ORI/S/BAI		Drought			All the ranges		During 2000 streams and nallahas dried up
161	ORI/S/BAL	71.72	Cyclone in 1999	1999	36	Balukhand and Konark	Forest	Degradation and changes in habitat/vegetation/forest types
	ORI/S/BAL		Tourism	Annually	36	Balukhand and Konark	Forest	Degradation and changes in habitat/vegetation/forest types
	ORI/S/BAL		NTFP collection (collection of cashewnut)	Annually	36	Balukhand and Konark	Forest	Degradation and changes in habitat/vegetation/forest types
162	ORI/S/CHA	193.39	Fire	Every year	90	All four ranges	Forest	Population decline and degradation

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	ORI/S/CHA		Tree felling	Every year	35	All four ranges	Forest	Population decline and degradation
	ORI/S/CHA		Cyclone	1999	193	All four ranges	Forest	Population decline and degradation
163	ORI/S/DEB	346.90	Fire	1997-98	1.6	Lakhanpur and Kamgaon Range	Ground flora affected	Poor regeneration, young saplings affected.
164	ORI/S/HAD	191.60	Hadgarh Dam, Salandi Project, Hadgarh reservoir	1964-72	31.83	Shown on map	Forest	Forest, villages and cultivated land submerged
	ORI/S/HAD		Fire	Prior to declaration of sanctuary	20	Compartment: 5,11,13,15,16 Palabani	Forest	Degradation of forest, loss of wildlife habitat
	ORI/S/HAD		Grazing	Prior to declaration of sanctuary	191.6	Compartment: 4,5,6,7,11,13,16	Forest	Degradation of forest, loss of wildlife habitat
	ORI/S/HAD		Habitation/encroachments	1965	15	Compartment: 1,2,6,13,14,15	Forest	Degradation of forest, loss of wildlife habitat
	ORI/S/HAD		Mines/quarries	1965	4	Compartment: 15,16	Forest	Degradation of forest, loss of wildlife habitat
	ORI/S/HAD		Tree felling	Many years back, prior to first working plan	191.6	All ranges	Forest	Degradation of forest, loss of wildlife habitat
165	ORI/S/KAR	147.66	Fire (burning)	Annual	75	Entire PA		Degradation, poor regeneration
	ORI/S/KAR		Habitation	1985 onwards	0.05	Karlapat	Forest	Extinction
166	ORI/S/KHA	116.00	Fire	Every year	116	Girishchandrapur	Forest, grassland	Degradation, poor regeneration and proliferation of hardy species/weeds.
	ORI/S/KHA		Grazing	Every year		Girishchandrapur	Forest, grassland	Degradation and poor regeneration
	ORI/S/KHA		Habitation	Every year	2	Girishchandrapur	Forest, grassland, wetland	Population decline, degradation, poor regeneration
	ORI/S/KHA		NTPF Collection	Every year	116	Girishchandrapur	Forest	Degradation
	ORI/S/KHA		Cultivation	Every year	2	Girishchandrapur	Forest, grassland, wetland	Population decline, degradation, poor regeneration and changes in habitat/vegetation/forest types

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	ORI/S/KHA		Tree felling	Every year	116	Girishchandrapur	Forest	Population decline, degradation, poor regeneration and changes in habitat/vegetation/forest types
	ORI/S/KHA		Sometime shifting cultivation is done.					
167	ORI/S/KOT	399.50	Cultivation, Tree felling, Fire	Every year	399.5	All two ranges	Forest	Degradation, poor regeneration and changes in habitat/vegetation/forest types
	ORI/S/KOT		Grazing, NTFP Collection	Every year	399.5			
	ORI/S/KOT		Mining	Prior to 1980.	0.13			
168	ORI/S/KUL	272.75	Dam	1983	17	Nilgiri		
	ORI/S/KUL		Grazing	Every year	100	Nilgiri	Forest	Not assessed
	ORI/S/KUL		NTFP collection	Every year	150	Nilgiri	Forest	Not assessed
	ORI/S/KUL		Fire	Every year	150	Nilgiri	Forest	Not assessed
	ORI/S/KUL		Tree felling	Occasional	50	Nilgiri	Forest	Not assessed
169	ORI/S/LAK	174.96	Cyclone	1995		Chandragiri	Forest	Uprooting of trees
	ORI/S/LAK		Cultivation, Tree felling, Habitation					
170	ORI/S/SATN	795.52	Floods	1982		Tikarpara	Forest and gharial research project	Gharial and muggar
	ORI/S/SATN		Floods	1986		Tikarpara	Forest and gharial research project	
	ORI/S/SATN		Cyclone	1999		Raigoda, Tulka	Forest	
	ORI/S/SATN		Drought	1988, 1998, 2000, 2001		All ranges	Forest, grassland	Regeneration died. Forest fire habitat degraded, wildlife affected.
	ORI/S/SATN		Erosion	1982, 1986		River stretch of Mahanadi	Wetland	Siltation in Mahanadi
	ORI/S/SATN		Tree felling	Last 10 years		Tulka, Labangi, Katranga, Atharmile Baghmunda, Tainsi	Forest	Illicit felling for smuggling.

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	ORI/S/SATN		Fire	Every year, 1998, 2001		Throughout	Forest, grassland	Appearance of fire hardy species, loss of food, fodder to wildlife habitat quality degradation.
	ORI/S/SATN		Fishing	Every year		Mahanadi	Wetland	By use of gill net/ nylon nets- gharial died.
	ORI/S/SATN		Grazing	Every year	Entire forest and village fringes	All ranges	Forest	Retrogression failure or regeneration of palatable species.
171	ORI/S/SATS	268.94						
172	ORI/S/SIM	2200	Cultivation, grazing, collection of timber, firewood, small timber and NTFP, man made fires, growing human population.					Degradation of the habitat.
173	ORI/S/SUN	600.00	Fire	Every year	420	Nawa Para and Komne Range	Forest and Grassland	Population decline, degradation, poor regeneration and proliferation of hardy species/weeds
	ORI/S/SUN		Cultivation	Every year	60	Nawa Para and Komne Range	Forest and Grassland	Population decline, degradation, poor regeneration and proliferation of hardy species/weeds
	ORI/S/SUN		Habitation	Every year	160	Nawa Para and Komne Range	Forest	Population decline, degradation, poor regeneration and proliferation of hardy species/weeds
	ORI/S/SUN		Grazing		12			
	ORI/S/SUN		Tree felling					
	ORI/S/SUN		Other (Encroachment)					
174	PUN/S/ABO	186.05	Cultivation, grazing, fuelwood collection and fodder collection					

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
175	PUN/S/HAR	86.00	Illegal Fishing	Annual	28	Harike	Wetland	Population decline
	PUN/S/HAR		Illegal Poaching	Annual	86	Harike	Wetland and adjoining grasslands	Impact on populations of water birds, wild boar, common hare and hog deer
	PUN/S/HAR		Encroachment	Annual	2.5	Harike	Cultivable land in the PA	Impact on population of hog deer
	PUN/S/HAR		Grazing	Annual	50	Harike	Grasslands in the PA	Impact on population of hog deer
	PUN/S/HAR		Illegal removal of grasses	Annual	50	Harike	Grasslands in the PA	Impact on population of hog deer
	PUN/S/HAR		Deliberate burning of grasses	Annual	5	Harike	Grasslands in the PA	Impact on population of hog deer
	PUN/S/HAR							
176	RAJ/N/KEO	28.73	Drought	2000-2001	11	Keoladeo	Wetland, grassland	Disease, degradation, changes in habitat
177	RAJ/S/BAS	138.69	Dam, grazing, NTFP collection, tree felling, tourism, pilgrimages					
178	RAJ/S/BHA	195.015	Drought, erosion, dam, grazing, cultivation					
179	RAJ/S/JAI	52.00	Grazing	Few occasion		Jaisamand	Forest	Extinction
180	RAJ/S/JAM	300.00	Dam.		4.5	Jamwa Ramgarh.	Forest and Grassland	Changes in habitat/vegetation/forest types.
	RAJ/S/JAM		Fire.	1998	0.16	Jamwa Ramgarh.	Forest.	Degradation, poor regeneration.
	RAJ/S/JAM		Grazing.	Every year	120	Jamwa Ramgarh.	Forest.	Degradation, poor regeneration.
	RAJ/S/JAM		Habitation.		4	Jamwa Ramgarh.	Forest.	Degradation, poor regeneration.
	RAJ/S/JAM		Mines.		4.37	Jamwa Ramgarh.	Forest.	Degradation, poor regeneration.
	RAJ/S/JAM		Encroachment.		0.17	Jamwa Ramgarh.	Forest.	Degradation, poor regeneration.
	RAJ/S/JAM		Erosion.		Not recorded.	Jamwa Ramgarh.	Forest.	Degradation, poor regeneration.
181	RAJ/S/KELA	672	Grazing	Prior to notification of the sanctuary in 1983.	600	All ranges	Grasslands, open forests	Poor regeneration

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	RAJ/S/KELA		Felling (lopping)	Prior to notification of the sanctuary in 1983.	300	All ranges	Forest	Degradation of habitat
	RAJ/S/KELA		Habitation	Prior to notification of the sanctuary in 1983.	50	All ranges	Open forest areas and tracks	Degradation of habitat
	RAJ/S/KELA		Mining (in nearby areas)	1970	25	Kela Devi, Mandrayal	Adjoining forest areas	Disturbance to wildlife.
	RAJ/S/KELA		Drought	1999-2000-2001	Entire area	Entire PA	All habitats	Degradation, increased biotic pressure on PA resources
182	RAJ/S/KUM	608.56	Drought	1987, 1988, 1998, 1999, 2000	609	Whole sanctuary (Sandri, Desuri, Kumbhalgarh, Bokhara)	Main problem was shortage of drinking water and fodder.	Poor regeneration
183	RAJ/S/NAH	52.40	Encroachment.	1980	0.55	Nahargarh.	Forest.	Degradation, poor regeneration.
	RAJ/S/NAH		Mines.	1980	0.2	Nahargarh.	Forest.	Degradation, poor regeneration.
	RAJ/S/NAH		Fire.	1980	10	Nahargarh.	Grassland.	Degradation, poor regeneration.
	RAJ/S/NAH		Tree felling.	1980	20	Nahargarh.	Forest.	Deforestation and degradation, poor regeneration.
184	RAJ/S/PHU	511.41	Fire	1992, 1993, 1994, 1995	13.24	Kotra, Mamer, Panarwa	Forest	Degradation
	RAJ/S/PHU		Grazing	Regular event		Kotra, Mamer, Panarwa	Forest	Degradation
	RAJ/S/PHU		Habitation	Regular event		Kotra, Mamer, Panarwa	Forest	Degradation
	RAJ/S/PHU		NTFP collection	Regular event		Kotra, Mamer, Panarwa	Forest	Poor regeneration
	RAJ/S/PHU		Cultivation	Regular event		Kotra, Mamer, Panarwa	Forest	Degradation
	RAJ/S/PHU		Tree felling	Regular event		Kotra, Mamer, Panarwa	Forest	Degradation

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
185	RAJ/S/SAJJ	5.19	Development activities	1987	5.19			Changes in vegetation
	RAJ/S/SAJJ		Tourism	1999				
	RAJ/S/SAJJ		Grazing					
186	RAJ/S/SIT	422.94	Dam	1964	10	Jakham, Badi-Sadari	Forest	Degradation and poor regeneration
	RAJ/S/SIT		Habitation	1970 onwards	2	All ranges	Forest	Degradation and poor regeneration
187	RAJ/S/TAL	7.19	Drought.	1999	7.19	Tal Chapper sanctuary range, Dungargarh.	Grass land.	Poor regeneration.
	RAJ/S/TAL		Drought.	2000	7.19	Tal Chapper sanctuary range, Dungargarh.	Grassland.	Poor regeneration.
188	RAJ/S/TOD	495.27	Fire	Annual		Raoli	Forest	Degradation
	RAJ/S/TOD		Grazing	Annual		All ranges	Forest	Degradation
	RAJ/S/TOD		Cultivation	Annual		All ranges	Forest	Degradation
	RAJ/S/TOD		Tree felling	Annual		All ranges	Forest	Degradation
	RAJ/S/TOD		Habitation	Annual		All ranges	Forest	Degradation
189	RAJ/S/VAN	25.6	Grazing	Since creation of the PA.	Throughout the PA	Entire PA	Forest, grassland and wetlands in the PA.	Gradual decline in floral population, degradation, poor regeneration, changes in habitat.
	RAJ/S/VAN		Mining	Since last 15 to 20 years.	5% of the total area of the PA	In the peripheral regions of PA near villages Kuakhara, Virpur and Nibhi.	Forest and grassland.	Degradation
190	SIK/N/KHA	1784.00	Landslides				Forest	Degradation, poor regeneration
	SIK/N/KHA		Grazing	1970 onwards	500	Dzongri	Grassland	Population decline, degradation, changes in habitat/vegetation/forest types, proliferation of hardy species/weeds
	SIK/N/KHA		Habitation	1968 onwards	0.13	Isoka	Forest	Degradation, changes in habitat/vegetation/forest types
	SIK/N/KHA		NTFP collection			Dzongri	Forest, Grassland	Population decline, poor regeneration
	SIK/N/KHA		Cultivation			Around Isoka	Forest	Changes in habitat/vegetation/forest types

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	SIK/N/KHA		Felling	Not known			Forest	Population decline, degradation
	SIK/N/KHA		Fire	1975			Forest	
	SIK/N/KHA		Tourism			Dzongri, Goechacla	Forest, grassland, glaciers	Degradation, pollution of the
191	SIK/S/BAR	104.00	Grazing	Throughout the year		Barsey	Forest	Population decline, Degradation, Poor regeneration
	SIK/S/BAR		NTFP collection	Throughout the year		Barsey	Forest	Population decline, Degradation, Poor regeneration, Changes in habitat/vegetation/forest types
192	SIK/S/FAM	51.76	Grazing	Customary right	Approximately 4	Fambong Lho	Forest	Degradation, poor regeneration.
	SIK/S/FAM		NTFP collection (collection of Sirsoo grass)		Less than 1	Fambong Lho	Forest	Degradation
	SIK/S/FAM		Collection of fuelwood			Fambong Lho	Forest	Degradation, poor regeneration.
193	SIK/S/KYON	31.00	Grazing		8	Kyongnosla	Forest	Population decline, Degradation, Poor regeneration
	SIK/S/KYON		Habitation			Kyongnosla	Forest	Population decline, Degradation, Poor regeneration
	SIK/S/KYON		Tree felling			Kyongnosla	Forest	Population decline, Degradation, Poor regeneration
194	SIK/S/KYON	31.00	Other (Road bordering the sanctuary)			Kyongnosla	Forest	Others (air and noise pollution)
195	SIK/S/MAE	35.34	Grazing			Maenam	Forest	Degradation
	SIK/S/MAE		NTFP collection			Maenam	Forest	Degradation, poor regeneration.
	SIK/S/MAE		Tree felling			Maenam	Forest	Population decline, degradation.
196	SIK/S/SHIN	43.00	Landslide	Annual	11	Shingba	Forest	Population decline, degradation
	SIK/S/SHIN		Erosion		15	Shingba	Forest	Population decline, Degradation, Poor regeneration

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	SIK/S/SHIN		Grazing		11	Shingba	Forest	Population decline, Degradation, Poor regeneration
	SIK/S/SHIN		NTFP collection		11	Shingba	Forest	Degradation
	SIK/S/SHIN		Tourism		4.5	Shingba	Forest	Pollution
	SIK/S/SHIN		Development projects (Road)		4.5	Shingba	Forest	Pollution - noise and air
	SIK/S/SHIN		Oth (Snow, avalanches)	Annual	11	Shingba	Forest	Degradation, Poor regeneration
197	TN/N/GUI	2.8194						
198	TN/N/GUL	6.23	OTH-Fishing	Many years	6.23	Islands, 'All except Ramnad	Islands	Degradation, Population decline
	TN/N/GUL		OTH- Collection of corals illegally	Not known	6.23	Islands, 'All except Ramnad	Degradation, Population decline	Degradation, Population decline
199	TN/N/IND	958.57	Tea, Coffee, Cardamom in higher and coconut and mango in lower area	1929-1961	191	Pollachi, Udamalpet, Amarathi	Forest was earlier not now.	Corridor outside RF broken and forest fragmented buffer area reduced increase in man W/L conflict
	TN/N/IND		Highways within PA			Valparai, Man'bolly, Amaravathi, Udamalpet		Soil erosion
	TN/N/IND		Inside the PA and their activities			Valparai and m'anbolly		Changes in drainage pattern reduction in water table suppressed natural regeneration, species diversity loss, ecological disturbances.
	TN/N/IND		Tribal activities			Valparai and M'bolly		Ecological disturbances
200	TN/N/MUD	321.00	Fire		20	Mas, Tep, Nel	No	Degradation, animals are disturbed
	TN/N/MUD		Grazing		27	Mas	Scrub Jungle	Degradation, animals are disturbed
	TN/N/MUD		Habitation		3	Mudu, Nel		Degradation, animals are disturbed
	TN/N/MUD		Tourism		5	Tep, Mas, Kar		Degradation, animals are disturbed
	TN/N/MUD		Pilgrimage			Mas, Tep, Kar		Degradation, animals are disturbed
	TN/N/MUD		NTFP collection					Degradation, animals are disturbed
	TN/N/MUD		Dam	80s	2.4	Mas	Scrub Jungle	Degradation, animals are disturbed

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	TN/N/MUD		Plume channel	95	8	Mas.	Coridor obstruction	Degradation, animals are dusturbed
	TN/N/MUD		Vehicle movement		34	Kar, Tep, Mas		Degradation, animals are dusturbed
	TN/N/MUD		Felling			Mas	Scrub Jungle	Degradation, animals are dusturbed
201	TN/S/CHI	0.48	OTH- Water from tank is used for irrigation of fields nearby	Every year	0.48	Chitrangudi	Wetland	Degradation
202	TN/S/GRI	477.83	Floods	Yearly	10	Rajapalayan	Forest	Vegetation 1000
	TN/S/GRI		Drought	Frequently	496.38	Srivilliputhur. Saptur, All ra	Forest, Grassland	Degradation
	TN/S/GRI		Erosion	At the time of flood	49.64	All ranges	Forest Grassland	Degradation
	TN/S/GRI		Fire	Yearly	24.82	All ranges		Degradation
203	TN/S/KAN	1.04	OTH- Water from tank used for irrigation of surrounding paddy fields	Every year	1.04	All	Wetaland	Degradation, Poor regeneration
204	TN/S/KARA	4.53	Nil					
205	TN/S/KARI	0.65	TOU			Near edge of lake	Wetland	Disturbance to birds
	TN/S/KARI		CUL		0.04		10acres	No water unit
206	TN/S/POIN	25.00	Grazing		5.6		Grass land	Not known
	TN/S/POIN		Tourism	2%	0.5		Grass land	
	TN/S/POIN		Pilgrimage	1%	0.25		Forest	
	TN/S/POIN		Fishing					
207	TN/S/PUL	61.47	Fishing		80		Wet lands/water Bed	Depletion of food to the birds
208	TN/S/UDA	0.44	Nil					
209	TN/S/VAD	1.28	Nil					
210	TN/S/VALL	16.41					By grazing	Poor regeneration
211	TN/S/VED	0.27	TOU (Heavy tourism)			Near edge of lake	Wetlands'Disturbance to birds	Disturbance to birds

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
212	TN/S/VELL	0.77	No activities inside protected area					
213	TN/S/VET	0.38	OTH- water from tanks used for irrigation of surrounding paddy fields	Every year	0.38	Wetlands	Degradation	
214	TRI/S/GUM	389.59	Oth	Since long		Tirthmukh	Forest, wetland, grassland	Erosion, Extinction, proliferation of hardy species/weeds, population decline
	TRI/S/GUM		Felling			Tirthmukh		
	TRI/S/GUM		Grazing			Tirthmukh		
	TRI/S/GUM		Habitation			Tirthmukh		
215	TRI/S/TRI	194.70	Drought	1999	30	Rajnagar	Grassland, wetland	Animals move to the buffer zone and close to agriculture fields for food and water.
	TRI/S/TRI		Grazing	Every year	50	Rajnagar, Abhoya Rangamura	Grassland, wetland	
	TRI/S/TRI		NTFP collection	Every year	50	Rajnagar, Abhoya, Rangamura	Bamboo forests	Disturbed habitat creates scarcity of food for Bison and other wildlife
216	UP/S/BAK	28.9421	Fishing and grass collection	Annual	Entire PA		Grassland and wetland	Breeding of birds, particularly migratory bird is adversely affected.
217	UP/S/CHA	96.00	Dam	1957 onwards		Chandraprabha	Forest, grassland and wetland	Extinction, degradation and nuisance
	UP/S/CHA		Grazing		30	Chandraprabha	Forest, grassland and wetland	Extinction, degradation and nuisance
	UP/S/CHA		Dam	1957	Outside	Chandra Prabha	Forest	Extinction
	UP/S/CHA		Grazing		30	Chandra Prabha	Grassland	Degradation
	UP/S/CHA		Mining		Outside	Chandra Prabha	Wetland	General nuisance
218	UP/S/KAI	501	Drought	More or less every year	Not known	All ranges	Forest	Degradation, poor regeneration.
	UP/S/KAI		Erosion	More or less every year	Not known	All ranges	Forest	Extinction, population decline, degradation, poor regeneration, changes in habitat/vegetation/forest types.

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Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	UP/S/KAI		Fire	Sporadic	Not known	All ranges	Forest	Extinction, population decline, degradation, poor regeneration, changes in habitat/vegetation/forest
	UP/S/KAI		Grazing	From the beginning of the PA	60% of the PA	All ranges	Forest	Population decline, degradation, poor regeneration, changes in habitat/vegetation/forest types.
	UP/S/KAI		Floods	More or less every year	Not known	All ranges	Forest	Changes in habitat/vegetation/forest types.
	UP/S/KAT	400.09	Girjapuri Dam	Around 1970	Not available	Katarniaghat	Forest	
	UP/S/KAT		Saryu canal	Around 1980	4	In some parts of the PA.	Forest	
219	UP/S/LAK	80.24	Grazing	Since time immorial		Lakh Bahosi	Wetland and grassland	Change in habitat type.
220	UP/S/MAH	5.42	Grazing	Since last 20 years	2.4	Lalitpur	Grassland	Poor regeneration, change in habitat
221	UP/S/NAT	635	Habitation	Before notification of PA	635	Bah, Etah	Forest	Changes in habitat, habitat disturbance
	UP/S/NAT		Grazing	Before notification of the PA.	635	Both ranges	Forest	Changes in habitat, habitat disturbance.
	UP/S/NAT		Development activities (bridges on the Chambal river and roads through the sanctuary).	Before notification of the PA	635	Both ranges	Forest	
	UP/S/NAT		Dam		635	Both ranges	Chambal river	The water in Chambal has greatly reduced due to the dam at Pinchat.
222	UP/S/NAW	2.246	Grazing	Before declaration of the sanctuary	1.5	Nawab Ganj	Wetland and grassland	Change in habitat type, growth of weeds.

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
223	UP/S/OKH	4	Dam	Before notification of PA.	3.5	Okhla Bird Sanctuary	Forest and wetland	Changes in habitat, others.
	UP/S/OKH		Floods	Before notification of PA.	3.75	Okhla Bird Sanctuary	Forest and wetland	Changes in habitat, others.
	UP/S/OKH		Tourism	Before notification of PA.	2.5	Okhla Bird Sanctuary	Forest and wetland	Changes in habitat, others.
	UP/S/OKH		Others	Before notification of PA.	1	Okhla Bird Sanctuary	Forest and wetland	Others
224	UP/S/PAR	10.8447						
225	UP/S/PAT	1.05						
226	UP/S/RAN	220.41	Grazing	Since last 20 years	60% of the PA area.	Manikpur (currently) and Markundi (in the past)	Grassland and forest	Competition for food with wild herbivores.
227	UP/S/SAMN	5.26	Habitation	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary	Forest	Poor regeneration, changes in habitat.
	UP/S/SAMN		Grazing	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary	Forest	
	UP/S/SAMN		Development Project	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary	Forest	
	UP/S/SAMN		Floods	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary	Forest	Forest cover is adversely affected.

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Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	UP/S/SAMN		Cultivation	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary	Forest	Disturbance to birds, particularly while nesting.
228	UP/S/SAMS	7.99	Grazing	Before notification of PA in 1987	3.75	Samaspur	Grassland and wetland	
229	UP/S/SAN	2.246						
230	UP/S/SOH	428.2	Floods			All ranges	Forest, grassland	Poor regeneration
	UP/S/SOH		Fires			All ranges	Forest, grassland	Degradation, poor regeneration
	UP/S/SOH		Grazing			All ranges	Forest, grassland	Degradation, poor regeneration
	UP/S/SOH		Habitation			All ranges	Forest	Degradation
	UP/S/SOH		NTFP collection			All ranges	Forest, wetland	Population decline
	UP/S/SOH		Cultivation			All ranges	Forest	Degradation
231	UP/S/SURS	7.13	Grazing	Before notification of the PA.	2	Sur Sarovar Bird Sanctuary	Forest and wetland	Changes in habitat, others.
	UP/S/SURS		Pilgrimage	Before notification of the PA.	0.3	Sur Sarovar Bird Sanctuary	Forest	Others.
	UP/S/SURS		Tourism	Before notification of the PA.	0.5	Sur Sarovar Bird Sanctuary.	Forest	Changes in habitat, others.
232	UP/S/VIJ	2.62	Fishing	1992	0.25	Vijay Sagar Bird Sanctuary	Wetland	
233	UTT/N/COR	520.82	Dam, tourism	1962-74 onwards	42.2	Kalagarh range, Tourism range	Forest, grassland and wetland	Extinction of trees, grasslands have been submerged in the reservoir
234	UTT/N/GAN	2390.024	Tourism	Annual	4	Gangotri	Forest, grassland	Degradation, poor regeneration, pollution.

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	UTT/N/GAN		Pilgrimage	Annual	2	Gangotri	Forest, grassland	Degradation, poor regeneration, pollution.
	UTT/N/GAN		Development activities (roads)	Annual	60	Gangotri	Forest, grassland	Degradation, disturbance, poor regeneration
	UTT/N/GAN		Grazing	Annual	50	Gangotri	Forest, grassland	Degradation, poor regeneration
	UTT/N/GAN		Tree felling	Annual	5	Gangotri	Forest	Degradation, poor regeneration and changes in habitat types.
	UTT/N/GAN		Fire	Annual	Negligible	Gangotri	Forest	Negligible
	UTT/N/GAN		NTFP collection	Annual (every fifth year, the entire range is open)	350	Gangotri	Forest, grassland	Extinction, population decline and poor regeneration
	UTT/N/GAN		Others (hunting)	Annual	350	Gangotri	Forest, grassland	Changes in habitat types.
	UTT/N/GAN		Others (army camps)	Annual	30	Gangotri	Forest, grassland	Degradation, poor regeneration and pollution
	UTT/N/GAN		Others (avalanches)	Annual	30	Gangotri	Forest, grassland	Degradation, poor regeneration and changes in habitat types.
235	UTT/N+S/GOV	957.969	Grazing	Annual	250	All ranges, especially Sankari	Forest, grassland	Degradation, poor regeneration and changes in habitat types.
	UTT/N+S/GOV		NTFP collection	Annual	50	All ranges	Forest	Degradation and poor regeneration
	UTT/N+S/GOV		Tree felling	Annual	25	All ranges	Forest	Negligible
	UTT/N+S/GOV		Habitation	Annual	5	All ranges	Forest	Negligible
	UTT/N+S/GOV		Cultivation	Annual	34	All ranges	Forest	Degradation, changes in habitat types (shifting cultivation)
	UTT/N+S/GOV		Flood	2000	500	All ranges	Villages, forest	Degradation and loss of life and property
	UTT/N+S/GOV		Erosion	Annual	10	All ranges	Forest, scrub	Degradation
	UTT/N+S/GOV		Development activities (roads)	Annual	5	All ranges	Forest	Degradation
	UTT/N+S/GOV		Tourism	Annual	10	Sankari	Forest, grassland	None
236	UTT/S/ASK	599.93	Land slides	Annual	Approximate ly 30	Askot, Dharchula	Forest	Degradation and certain floral species are destroyed.
	UTT/S/ASK		Erosion	Annual	Unknown	Askot, Dharchula	Forest	Degradation and certain floral species are destroyed.

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	UTT/S/ASK		Dam	1995	1.862	Dharchula		Degradation, poor regeneration and changes in habitat types.
	UTT/S/ASK		Development activities (Micro hydel project)	1985	0.056966	Dharchula	Forest	Loss of forest area
	UTT/S/ASK		Fire	Annual	Approximately 200 ha.	Entire Askot range is at risk	Forest, particularly pine	Population decline, degradation, poor regeneration and changes in habitat types.
	UTT/S/ASK		Grazing	Annual	Between 318 sq. km. and 330 sq. km. (including area)	Askot, Dharchula	Forest, grassland	Degradation, poor regeneration and population decline.
	UTT/S/ASK		Habitation	Annual	Between 318 sq. km. and 330 sq. km. (including area)	Askot, Dharchula	Forest, grassland	Degradation, poor regeneration and changes in Habitat types.
	UTT/S/ASK		Mining	Since 1990	0.4	Askot, Dharchula	Forest, river bed	Poor regeneration, general disturbance and loss of top soil.
	UTT/S/ASK		NTFP collection	Annual	453	Askot and Dharchula	Forest	Population decline, degradation and poor regeneration.
	UTT/S/ASK		Tourism	Annual	Negligible	Askot, Dharchula	Unknown	Unknown
	UTT/S/ASK		Pilgrimage	Annual	2		Forest and snow bound areas	Degradation, poor regeneration and general disturbance.
	UTT/S/ASK		Cultivation	Annual	Between 318 sq. km. and 330 sq. km. (including area)	Askot, Dharchula	Forest	

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	UTT/S/ASK		Development activities (roads)	Annual	120	Askot, Dharchula	forest	Degradation, poor regeneration and proliferation of hardy species.
237	UTT/S/BIN	47.07	Check dam	1992-94, 96-98		Binsar-Pasdev, Okhli, Serod, Vamantilani Sunoli R.F, S. Binsar, Boual, Kathghara	Pine forest	Oth- Helps in soil conservation by checking soil washed away by rains. Protects trees growing in river beds. The chaks & estates inside the PA, though technically not on forest land, occupy 140.5 ha of land inside the sanctuary
	UTT/S/BIN		Fire	1999,98,97	6.38	Binsar	Pine forest	Poor regeneration, Changes in habitat/vegetation/forest types (habitat destruction), Soil erosion
	UTT/S/BIN		Grazing	Regular	4.7	Mainly south Binsar	Pine forest	Negligible
	UTT/S/BIN		Cultivation			A little in north Binsar		Soil erosion
	UTT/S/BIN		Tourism	Annual	14	South Binsar	Pine and Oak	Heavy disturbance, Poor regeneration
	UTT/S/BIN		Pilgrimage	Annual	0.5	South Binsar	Pine and Oak (Negligible impact)	Loosening of soil by cattle hooves
	UTT/S/BIN		Habitation, NTFP collection	Annual	15	Binsar	Transition between Pine & Oak	Poor regeneration
238	UTT/S/BINO	3.3874						
239	UTT/S/KED	975.20	Landslides	1998	1	Okhimath	Forest	Degradation
	UTT/S/KED		Development activities	1998	0.5	Okhimath	Forest, Grassland	Degradation
	UTT/S/KED		Grazing	Annual	20	Okhimath, Gopeshwer	Forest	Degradation, Poor regeneration
240	UTT/S/SON	301.1	Grazing	Annual		Adnala, Mandal, Palain, Maidavan	Forest, grassland, wetland	Population decline, degradation, poor regeneration, changes in habitat types, proliferation of hardy species/weeds.
	UTT/S/SON		Habitation (Gujjars)	Since 1950s		Sonanadi (Nalkatta, Pakhrau, Kalushahid)	Forest, grassland	Population decline, degradation, poor regeneration, changes in habitat types, proliferation of hardy species/weeds.
	UTT/S/SON		Cultivation	Annual				
	UTT/S/SON		Tourism	Annual				Negligible

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
	UTT/S/SON		Others (firewood collection)	Annual		All ranges		
	UTT/S/SON		Dam	1962 onwards				Submergence of grasslands.
241	WB/N/GOR	79.45	Nil					
242	WB/S/BAL	2.02	None					
243	WB/S/BET	0.67	Plantation within the PA with non-indigenous species like Teak	1950, 1951, 1952	0.67	Entire	Forest	Changes in habitat/vegetation/forest types.
	WB/S/BET		Introduction of Polyalthia suberosa with Chital from Orissa	1970	0.67	Entire	Forest	Changes in habitat/vegetation/forest types.
244	WB/S/CHA	9.492						
245	WB/S/HAL	5.95	Flood	Annual	1.25	Southern part of the PA facing towards sea	Forest crop(Mangrove)	Degradation/poor regeneration
	WB/S/HAL		Tidal Wave	Annual	1.25	Southern part of the PA facing towards sea	Forest crop(Mangrove)	Degradation/Poor regeneration
246	WB/S/LOT	38.00						
247	WB/S/RAI	1.30	FL	1987,1993,1996,1997,1998,1999	1.3	Wildlife Range	Forest	Degradation/Poor regeneration
	WB/S/RAI		ER	1997,1998,1999	0.01	Wildlife Range	Forest	Population declined & Soil erosion
248	WB/S/RAM	0.14	No discernable impact of tourism.					
249	WB/S/SEN	38.88	Illegal Fire wood collection	Before 1987	Not surveyed	Entire Range		Depletion is very rapid
	WB/S/SEN	38.88	Encroachment during and before GNLf movement	Before 1987	Not surveyed	Both the ranges		Depletion is very rapid

Table 1.17: Human Activities and Other Natural Phenomenon Having an Impact on the Habitat of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Habitat	Impact
250	WB/S/SUN	2585.00	FL	Every Year	2585	All ranges	Forest	Adversely affect the eco-system
	WB/S/SUN	2585.00	CY	Every year	2585	All ranges	Forest	Adversely affect the eco-system
	WB/S/SUN	2585.00	ER	Every year	2585	All ranges	Forest	Adversely affect the eco-system

*Table 1.18: Human Activities and Other Natural
Phenomenon Having an Impact on the Fauna in
PAs*

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
1	AP/N/MAH	14.59	Large scale urbanisation around the area	Last 20 years	14.59	Entire Park	Habitat degradation, fragmentation				
	AP/N/MAH		Locating the municipal garbage dumping ground adjacent to the park	Since 1980	14.59	Entire PA	Air, soil and water pollution effecting plant and animal health.	All species including birds			
2	AP/N/VEN	525.97	PIL	Common	10	Chamala around Kalyani Dam and Talakona	Migration away from the site	Spotted deers sambhars four horned antitopes panthers Langurs			
	AP/N/VEN		PIL	Common	25	Tirupati-Around Tirumala enclosure and foot path, Ghat roads to Tirumala	Migration away from the site	Spotted deers sambhars four horned antitopes panthers Langurs			
3	AP/S/COR	235.70	Cyclone	November 1996		Whole PA	Population decline	Birds - Egrets nesting	Not available		
	AP/S/COR		Fishing			Whole PA	Regeneration is affected population decreases				
4	AP/S/ETU	803.00	Fire (Ground fires)			Tadvai, Eturnagaram	Wild animals and Ground flora are affected	All			
	AP/S/ETU		Grazing	Regular	200	Tadvai, Eturnagaram	Wild animals are disturbed and results in competition for water and food-resource	All species, mostly ungulates			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
1	AP/N/MAH												
	AP/N/MAH										0		
2	AP/N/VEN												
	AP/N/VEN												
3	AP/S/COR												
	AP/S/COR												
4	AP/S/ETU												
	AP/S/ETU										0		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
1	AP/N/MAH					
	AP/N/MAH					
2	AP/N/VEN					
	AP/N/VEN					
3	AP/S/COR					
	AP/S/COR					
4	AP/S/ETU					
	AP/S/ETU					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	AP/S/ETU		NTPF collection beedi leaf collection in Buffer zone		350	Tadvai, Eturnagaram	Causes disturbance to wild animals during the collection	Ungulates			
5	AP/S/KAW	893.00	Hunters	1993-94		Indanpally		Four horned antelope		1	
	AP/S/KAW		Hunters	1994		Kawal village Indanpally		Chinkara		1	
	AP/S/KAW		Hunters	1998		Japalpur, Tadlapet		Four horned antelope		1	
	AP/S/KAW		Hunters	1998		Indanpally		Tiger		1	
	AP/S/KAW		Hunters	1999		Jannaram		Peafowl		2	
	AP/S/KAW		Hunters	1999		Indanpally		Panther		1	
6	AP/S/KOL	308.00	Cultivation	Full year		Eluru	Loss of breeding site	Effect on local birds & birds (migratory)			
	AP/S/KOL		Pesci culture	1976 on words		Eluru	Loss of breeding site				
7	AP/S/KOU	357.63	Drought	1995, 1997, 1999	357.63	Palamaner and Kuppam Range					
8	AP/S/KRI	194.21	Cyclone	1977			Extinction	All fauna			
9	AP/S/PAK	860.00	Fire			Kothaguda, Narsampet and Gudur	Extinction, Population decline, Migration away from the site, Loss of breeding site, Loss of food source, Increased threat from predators/hunters	All			
	AP/S/PAK		Grazing	Regular		Kothaguda, Narsampet and Gudur	Population decline, Loss of breeding site, Loss of food source, Increased threat from predators/hunters	All species mostly ungulate.			
	AP/S/PAK		NTPF collection		340	Kothaguda, Narsampet and Gudur	Migration away from the site, Loss of breeding site, increased threat from predators/ hunters.				
	AP/S/PAK		Cultivation			Kothaguda, Narsampet and Gudur	Extinction, Population decline, Migration away from the site, Loss of breeding site, Loss of food source, Loss of food source.	All			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	AP/S/ETU												
5	AP/S/KAW												
	AP/S/KAW												
	AP/S/KAW												
	AP/S/KAW												
	AP/S/KAW									0			
	AP/S/KAW												
6	AP/S/KOL												
	AP/S/KOL									0			
7	AP/S/KOU												
8	AP/S/KRI												
9	AP/S/PAK												
	AP/S/PAK												
	AP/S/PAK												
	AP/S/PAK												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	AP/S/ETU					
5	AP/S/KAW					
	AP/S/KAW					
	AP/S/KAW					
	AP/S/KAW					
	AP/S/KAW					
	AP/S/KAW					
6	AP/S/KOL					
	AP/S/KOL					
7	AP/S/KOU					
8	AP/S/KRI					
9	AP/S/PAK					
	AP/S/PAK					
	AP/S/PAK					
	AP/S/PAK					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	AP/S/PAK		Habitation			Kothaguda, Gudur and Narsampet	Population decline, Migration away from the site, Loss of water source, Increased threat from predators/hunters	All			
10	AP/S/PAP	590.68	Foot and mouth disease	1996		All ranges	Population decline	Bison	20		
	AP/S/PAP		Flood	1996				Bison	Few nos.	Sambar	Few nos.
	AP/S/PAP		Shooting Dhiorl	1984		All ranges	Disease	Bisons	Abundant		
11	AP/S/POC	130.00	Fire		18	Pocharam	Population decline, Migration away from the site and Increased threat from predators/hunters	Nilgai	100	Sambar	50
	AP/S/POC		Cultivation		12	Pocharam	Population decline, Migration away from the site and Increased threat from predators/hunters	Nilgai	100	Sambar	50
	AP/S/POC		Tree felling		35	Pocharam	Population decline, Migration away from the site and Increased threat from predators/hunters	Nilgai	100	Sambar	50
	AP/S/POC		Grazing		32	Pocharam	Population decline, Migration away from the site and Increased threat from predators/hunters	Nilgai	100	Sambar	50
	AP/S/POC		NTPF collection		30	Pocharam	Population decline, Migration away from the site and Increased threat from predators/hunters	Nilgai	100	Sambar	50
12	AP/S/PRA	136.00	Hunters	1994		Chennur		Tiger	1		
	AP/S/PRA		Hunters	1995		Chennur		Black buck	1		
13	AP/S/PUL	600.00	Development project	1970 onwards	461	Pulicat Bird Sanctuary	Reduced water flow				
14	ARU/N/NAM	1985.25	Miao-Vijoyanagar road project		4.5	Miao and Gandhigram wildlife ranges.	Population decline and habitat fragmentation.	Tiger	N.A	Deer	N.A
	ARU/N/NAM		Lisu migrants.	1996	4.45	All ranges	Population decline and habitat fragmentation.	Tiger	N.A	Deer	N.A

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	AP/S/PAK												
10	AP/S/PAP												
	AP/S/PAP	Barking Deer	Few nos.								0		
	AP/S/PAP												
11	AP/S/POC	Chital	800	Panther	10	Barred Monitor Lizard	80	Python	20				
	AP/S/POC	Chital	800	Panther	10	Barred Monitor Lizard	80	Python	20				
	AP/S/POC	chital	800	Panther	10	Barred Monitor Lizard	80	Python	20				
	AP/S/POC	Chital	800	Panther	10	Barred Monitor Lizard	80	Python	20				
	AP/S/POC	Chital	800	Panther	10	Barred Monitor Lizard	80	Python	20				
12	AP/S/PRA												
	AP/S/PRA												
13	AP/S/PUL												
14	ARU/N/NAM	Birds	N.A	Fishes	N.A								
	ARU/N/NAM	Birds	N.A	Fishes	N.A								

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	AP/S/PAK					
10	AP/S/PAP					
	AP/S/PAP					
	AP/S/PAP					
11	AP/S/POC					
	AP/S/POC					
	AP/S/POC					
	AP/S/POC					
	AP/S/POC					
12	AP/S/PRA					
	AP/S/PRA					
13	AP/S/PUL					
14	ARU/N/NAM					
	ARU/N/NAM					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
15	ARU/S/DER	190.00	Others(Hunting)	Regular during dry season	190	All ranges	Population decline	Wild buffalo	Not known but there is definite trend of decline in numbers of buffalo.	Hog deer (Axis pochisuts)	Not known but there is definite trend of decline in number of Hog deer
16	ARU/S/MEH	281.50	Floods	Every Year	0.01	Mehao					
	ARU/S/MEH		Habitation	Time Immemorial	9.8	Mehao	Loss of breeding site	Sambar	10		
	ARU/S/MEH		NTPF collection	Time Immemorial	98	Mehao	Increased threat from Predators	Bee (Apis Floea)			
	ARU/S/MEH		Cultivation	Time Immemorial	30	Mehao	Population decline	Slow Loris (N. Coucang)	12		
	ARU/S/MEH		Tree felling	1964	0.2	Mehao	Loss of Breeding site	Hornbill (A. Rnyticeros)	6		
	ARU/S/MEH		Tourism	1980	0.3	Mehao					
	ARU/S/MEH		Pilgrimage	1996	0	Mehao					
	ARU/S/MEH		Development project	1980	0.98	Mehao					
	ARU/S/MEH		Grazing	Every Year	20	Mehao	Loss of Breeding site	Wild Cat (Felis chans)	8		
	ARU/S/MEH		Fire (Burning)	1999	2	Mehao	Migration away from the site	Hoolock Gibbon (Hylobates hoolock)	24		
	ARU/S/MEH		Landslides	Every Year	0.01	Mehao					
	ARU/S/MEH		Erosion	Every Year	0.01	Mehao					
17	ASS/N/DIB	340.00	Flood	Annual	340	Guijan and Saikhowa	Loss of food source, Malnutrition, Increased threat from predators/hunters	Terrestrial Mammals			
	ASS/N/DIB		Tree felling	Every year		Guijan and Saikhowa	Loss of food source, Loss of breeding site	Prinetes birds			
	ASS/N/DIB		NTPF collection	Every year	Unknown	Guijan and Saikhowa	Loss of food source	Birds			
	ASS/N/DIB		Habitation	Since 1956-57	1	Guijan	Fishing and trapping of turtles				
	ASS/N/DIB		Cultivation	Every year	1	Guijan and Saikhowa					
	ASS/N/DIB		Erosion	Annual		Guijan and Saikhowa					
	ASS/N/DIB		Grazing	Annual	32.5	Guijan and Saikhowa	Loss of food source	Herbivores			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
15	ARU/S/DER	Barking deer (Muntiacus muntjak)	Not known but there is definite trend of decline in number of Barking deer	Wild boar (Sur scrofa)	Not known but there is definite trend of decline in number of Wild boar.	Sambar (cervus unicolor)	Not known but there is definite trend of decline in number of Sambar						
16	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
	ARU/S/MEH												
17	ASS/N/DIB								0				
	ASS/N/DIB												
	ASS/N/DIB												
	ASS/N/DIB												
	ASS/N/DIB												
	ASS/N/DIB										0		
	ASS/N/DIB												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
15	ARU/S/DER					
16	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
	ARU/S/MEH					
17	ASS/N/DIB					
	ASS/N/DIB					
	ASS/N/DIB					
	ASS/N/DIB					
	ASS/N/DIB					
	ASS/N/DIB					
	ASS/N/DIB					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
18	ASS/N/KAZ	407.90	Flood	Every year	280	All the ranges	Migration away from the site, Loss of breeding site, Loss of food source, Increased threat from predators/hunters.	Rhino	1200-1500	Wild buffalo/Moh(Bubalus bubal	800-1100
	ASS/N/KAZ		Tourism	Every year	15	All the ranges	Negligible disturbance	Rhino	Small number	Wild buffalo/Moh(Bubalus bubal	Small number
	ASS/N/KAZ		Erosion	Every year	Brahmaputra Banks only	All the ranges	Loss of habitat	Rhino	Small number	Wild buffalo/Moh(Bubalus bubal	Small number
	ASS/N/KAZ		Fire (Controlled burning)	Every year	262	All the ranges	Temporary loss of hiding space, food source	Rhino/Garh(Rhinoceros unicornis)	Small number	Wild buffalo/Moh(Bubalus bubal	Small number
19	ASS/N/MAN	519.77	Grazing, Cultivation, Tree felling	1989	10	Bhuiyanpara	Population decline, loss of breeding site, loss of food source, Increased threat from predators/hunters	Pigmy Hog, Hispid Hare, Rhino, Swamp Deer			
	ASS/N/MAN		Grazing, Cultivation, Tree felling	1989	8	Panbari	Population decline, Migration away from the site, Loss of breeding site, Loss of food source, increased threat from predators/hunters	Elephant, Tiger, Swamp Deer, Golden Langur			
	ASS/N/MAN		Grazing, Tree felling		15	Bansbari	Migration away from the site, Loss of food source	Tiger, Elephant, Pigmy Hog, Deer, Primates			
20	ASS/N/ORI	78.80	Poaching		78.8						
21	ASS/S/BAR	26.21	Drought (Dry season)	Every year	8	Plain areas	Loss of food sources and Loss of water sources	Elephant	15	Bison (Bos gaurus)	26
	ASS/S/BAR		Poaching		20		Population decline	Hog deer		Wild Pig	

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
18	ASS/N/KAZ	Elephant/Hati (Elephas maximus)	800-1000	Swamp deer/Dol harina (Cerus duvouceli)	200-500	Tiger/Bagh(Pa nthera tigris)	30-85	Sambar (Cervus unicolor)	40-100	Hog deer/Khotia pahu(Axis percinus)	3000-6000		
	ASS/N/KAZ	Elephant/Hati (Elephas maximus)	Small number	Swamp deer/Dol harina (Cerus duvouceli)	Small number	Tiger/Bagh(Pa nthera tigris)	Small number	Sambar (Cervus unicolor)	Small number	Hog deer/Khotia pahu(Axis percinus)	Small number		
	ASS/N/KAZ	Elephant/Hati (Elephas maximus)	Small number	Swamp deer/Dol harina (Cerus duvouceli)	Small number	Tiger/Bagh(Pa nthera tigris)	Small number	Sambar (Cervus unicolor)	Small number	Hog deer/Khotia pahu(Axis percinus)	Small number		
	ASS/N/KAZ	Elephant/Hati (Elephas maximus)	Small number	Swamp deer/Dol harina (Cerus duvouceli)	Small number	Tiger/Bagh(Pa nthera tigris)	Small number	Sambar (Cervus unicolor)	Small number	Hog deer/Khotia pahu(Axis percinus)	Small number		
19	ASS/N/MAN												
	ASS/N/MAN												
	ASS/N/MAN												
20	ASS/N/ORI								0				
21	ASS/S/BAR	Hornbill (Aceros nipalensis)	16	Pea fowl (Pavo cristatus)	14	Wild pig (Sus scrofa)	13	Hog deer (Axis percinus)	15				
	ASS/S/BAR												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
18	ASS/N/KAZ					All most all the animals are affected by Flood, Erosion, Fire. During high floods (as in 1988 and 1998) a majority of the animal population was affected
	ASS/N/KAZ					
	ASS/N/KAZ					
	ASS/N/KAZ					
19	ASS/N/MAN					
	ASS/N/MAN					
	ASS/N/MAN					
20	ASS/N/ORA					
21	ASS/S/BAR					
	ASS/S/BAR					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	ASS/S/BAR		NTFP collection				General disturbance				
	ASS/S/BAR		Tree felling	1989	9	Hills and plain areas	Migration away from the site	Elephant	15	Bison (Bos gaurus)	26
	ASS/S/BAR		Grazing	Every year	10	Plain areas	Loss of food sources and Loss of water sources	Elephant	26		
22	ASS/S/BUR	44.00	Floods, grazing, cultivation	1998	44.06	Burachapori Wildlife Range	Population decline	Hog deer	150		
	ASS/S/BUR		Others (poaching)	1983	44.06	Burachapori Wildlife Range	Extinction	Rhino	85		
23	ASS/S/EKAR	221.81	Grazing, cultivation, habitation and tree felling				Detailed surveys will have to be carried out to indicate the nature of impact, species effected etc.				
24	ASS/S/GAR	6.00	Grazing								
	ASS/S/GAR		Development activity (approach road to bridge over Nambor river on NH-39.								
25	ASS/S/LAO	70.10	Others (Hunting)	1983	70.13	Throughout the PA	Migration away from the site, Increased threat from predators/hunters	Rhino	110		
	ASS/S/LAO		Cultivation	Every year	20	Southern part	Migration away from the site, Loss of breeding site, Loss of food source, Increased threat from predators/hunters	Barking deer			
	ASS/S/LAO		Development Project (Dyke)	60-70	50	Northern part of PA	Migration away from the site, Loss of breeding sites, Loss of food sources, Increase threat from predator/hunters.				
	ASS/S/LAO		Tree felling	Since 1983	70.13						

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	ASS/S/BAR												
	ASS/S/BAR	Hornbill (Aceros nipalensis)	16	Pea fowl (Pavo cristatus)	14	Wild pig (Sus scrofa)	13	Hog deer (Axis percinus)	15		0		
	ASS/S/BAR												
22	ASS/S/BUR												
	ASS/S/BUR												
23	ASS/S/EKAR												
24	ASS/S/GAR												
	ASS/S/GAR												
25	ASS/S/LAO												
	ASS/S/LAO												
	ASS/S/LAO												
	ASS/S/LAO												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	ASS/S/BAR					
	ASS/S/BAR					
	ASS/S/BAR					
22	ASS/S/BUR					
	ASS/S/BUR					
23	ASS/S/EKAR					
24	ASS/S/GAR					
	ASS/S/GAR					
25	ASS/S/LAO					
	ASS/S/LAO					
	ASS/S/LAO					
	ASS/S/LAO					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	ASS/S/LAO		Floods	Every year	50	Northern part	Population decline, Disease, Migration away from the site, Loss of breeding site, Loss of food source, Increased threat from predators/hunters	Wild buffalo, elephant, hog deer			
	ASS/S/LAO		Grazing	Every year	20	Southern part	Disease, Loss of food source, Malnutrition, Increased threat from predators/hunters	Barking deer			
26	ASS/S/NAMB	37.00	Grazing				Detailed surveyes which are yet to be done would only indicate the nature of impact, species affected etc.				
27	ASS/S/PAN	33.93	Flood		33.93		Loss of breeding site and loss of food source				
	ASS/S/PAN		Grazing		33.93		Loss of breeding site and loss of food source				
28	ASS/S/POB	16.00	Floods	Every year	16	Entire	Migration away from the site, Loss of food source, Malnutrition, Increased threat from predators/hunters	Rhino	Entire population		
	ASS/S/POB		Siltation	Every year		Tamulidova, Jugdol Tuplung jan	Loss of water source	Rhino	30		
	ASS/S/POB		Grazing	Every year	6.8	Pagladova, Noltoli, Tamulidova	Migration away from the site, Loss of food source, Increased threat from predators/hunters	Rhino	Whole		
	ASS/S/POB		Grazing	Every year	6.8	Pagladova, Noltol, Tamulidova	Extinction, Population decline, Loss of breeding site, Loss of food source	Avi fauna	40		
29	ASS/S/SON	220.00	Habitation	1996	1.97	Central range	Pollution decline, Migration away from the site, Increased threat from predators/hunters	Barking deer (Muntiacus muntjack)	Not assessed		
	ASS/S/SON		Tree felling	1996	1.97	Dhekiajuli range	Pollution decline, Migration away from the site, Increased threat from predators/hunters	Hog Deer (Axis parcinus)	Not assessed		
	ASS/S/SON		Cultivation	1997	1.97		Pollution decline, Migration away from the site, Increased threat from predators/hunters		Not assessed		
30	BIH/S/RAJ	35.84	Grazing		30	Rajgir	Population decline, disease and migration away from the site.	Deer			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	ASS/S/LAO										0		
	ASS/S/LAO												
26	ASS/S/NAMB												
27	ASS/S/PAN												
	ASS/S/PAN												
28	ASS/S/POB								0				
	ASS/S/POB												
	ASS/S/POB										0		
	ASS/S/POB												
29	ASS/S/SON								0				
	ASS/S/SON										0		
	ASS/S/SON												
30	BIH/S/RAJ												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	ASS/S/LAO					
	ASS/S/LAO					
26	ASS/S/NAMB					
27	ASS/S/PAN					
	ASS/S/PAN					
28	ASS/S/POB					
	ASS/S/POB					
	ASS/S/POB					
	ASS/S/POB					
29	ASS/S/SON					
	ASS/S/SON					
	ASS/S/SON					
30	BIH/S/RAJ					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	BIH/S/RAJ		Fire		12	Rajgir	Migration away from the site.	Rabbit, Ant eater			
	BIH/S/RAJ		Tourism		2	Rajgir	Loss of breeding site.	Neelgai, Wild boar			
31	CHT/N/IND	2799.09	Grazing	Annually	559.82	In the pheriphery of villages	Population decline	Wild buffalo			
	CHT/N/IND		"Parad" (Hunting festival)	In the month of April each year	559.82	Entire PA	Population decline	All wild animals, especially herbivores	20% approximately		
32	CHT/N/KAN	200.00	Cultivation	Since 1987	3	Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			
	CHT/N/KAN		Habitation	Since 1987	0.7	Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			
	CHT/N/KAN		NTFP Collection	Since a long time	40	Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	BIH/S/RAJ										0		
	BIH/S/RAJ												
31	CHT/N/IND												
	CHT/N/IND												
32	CHT/N/KAN												
	CHT/N/KAN												
	CHT/N/KAN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	BIH/S/RAJ					
	BIH/S/RAJ					
31	CHT/N/IND					
	CHT/N/IND					
32	CHT/N/KAN					
	CHT/N/KAN					
	CHT/N/KAN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	CHT/N/KAN		Fire (Burning)	Since a long time	60	Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			
	CHT/N/KAN		Tree felling	Since a long time		Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			
	CHT/N/KAN		Bamboo and bamboo shoots cutting	Since a long time	20	Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			
	CHT/N/KAN		Grazing	Since a long time	10	Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	CHT/N/KAN												
	CHT/N/KAN												
	CHT/N/KAN												
	CHT/N/KAN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	CHT/N/KAN					
	CHT/N/KAN					
	CHT/N/KAN					
	CHT/N/KAN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	CHT/N/KAN		Tourism	Since 1984		Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			
	CHT/N/KAN		Fishing by tribals	Since a long time		Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			
	CHT/N/KAN		OTH (Fuelwood extraction)	Since a long time	30	Both the ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/ hunters	All faunal census show a downward trend especially the Tiger and herbivores			
33	CHT/S/ACH	551.55	Development (PWD Road)	Since 1978	80	All the three ranges	OTHERS (Noise Pollution)	All faunal species			
	CHT/S/ACH		Habitation (22 Forest villages)	Since before creation of the PA	300	All the three ranges	OTHERS (Disturbance to animals)	All faunal species			
34	CHT/S/BAD	104.45	HAB	Since before creation of the PA			Number of Listed species affected slightly	Rabbit		Jangali Murgi	
	CHT/S/BAD		CUL	Since before creation of the PA							
	CHT/S/BAD		FEL	Since before creation of the PA			Not known	Honey bee		Parrot	

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	CHT/N/KAN												
	CHT/N/KAN										0		
	CHT/N/KAN												
33	CHT/S/ACH												
	CHT/S/ACH												
34	CHT/S/BAD	Wild pig		Titar		Bater		Parrot					
	CHT/S/BAD												
	CHT/S/BAD												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	CHT/N/KAN					
	CHT/N/KAN					
	CHT/N/KAN					
33	CHT/S/ACH					
	CHT/S/ACH					
34	CHT/S/BAD					
	CHT/S/BAD					
	CHT/S/BAD					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
35	CHT/S/BHA	138.95	Encroachment	1995	18.5	Bhairamgarh		Wild buffalo			
36	CHT/S/SIT	558.55	Fire (Burning)	Annual	0.35	Risgaon and Sitanadi Range	(I) Loss of food source (ii) Migration away from the site	All faunal species			
	CHT/S/SIT		Tree Felling	Annual	55.8	Risgaon and Sitanadi Range	(I) Loss of food source (ii) Migration away from the site	All faunal species			
	CHT/S/SIT		Grazing	Annual	140	Risgaon and Sitanadi Range	(I) Loss of food source (ii) Migration away from the site	Herbivores			
	CHT/S/SIT		NTPF Collection	Annual	140	Risgaon and Sitanadi Range	(I) Loss of food source (ii) Migration away from the site	Herbivores			
37	CHT/S/TAM	608.53	Fire (Burning)	Before the formation of PA	210	Game Range Tamor Pingla	(I) Population decline (ii) Loss of food source (iii) Migration away from the site	Tiger (Panthera tigris)		Leopard (Panthera pardus)	
	CHT/S/TAM		Grazing	Before the formation of PA	32	Game Range Tamor Pingla	(I) Population decline (ii) Loss of food source (iii) Migration away from the site	Common Peafowl			
	CHT/S/TAM	608.53	NTPF Collection	1990	593	Game Range Tamor Pingla	(I) Population decline (ii) Loss of food source (iii) Migration away from the site	Fishes			
38	DEL/S/ASO	27.81	Grazing	1986	10	Asola	Migration away from the site, Loss of food source, Loss of water source.	Nilgai		Jackal	
	DEL/S/ASO		Mines	1986	4	Asola	Migration away from the site, Loss of food source, Loss of water source.	Nilgai		Jackal	
	DEL/S/ASO		NTPF collection	1986	10	Asola		Nilgai		Jackal	
39	GOA/S/BON	7.95	Erosion	During monsoons		Slopes, throughout the PA	Loss of breeding site, loss of food source	Mouse deer (Tragulus menrinal)	NA		
	GOA/S/BON		Grazing	NA		Peripheral areas of the PA	Migration away from the site	Gaur (Bos gaurus)	NA		
	GOA/S/BON		Habitation	1978 onwards	1	Bondla zoo		NA			
	GOA/S/BON		Tourism	1978 onwards	1	Eco tourism zone		NA			
	GOA/S/BON		Pilgrimage	Annual (one day every year)	2	Siddha shrine		NA			
40	GUJ/S/RAT	55.65	Fire	Every year	Part of the area	Kanjeta range	Poor regeneration and degradation of soil				

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
35	CHT/S/BHA												
36	CHT/S/SIT												
	CHT/S/SIT												
	CHT/S/SIT												
	CHT/S/SIT												
37	CHT/S/TAM												
	CHT/S/TAM												
	CHT/S/TAM												
38	DEL/S/ASO												
	DEL/S/ASO										0		
	DEL/S/ASO												
39	GOA/S/BON												
	GOA/S/BON												
	GOA/S/BON												
	GOA/S/BON												
	GOA/S/BON												
40	GUJ/S/RAT												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
35	CHT/S/BHA					
36	CHT/S/SIT					
	CHT/S/SIT					
	CHT/S/SIT					
	CHT/S/SIT					
37	CHT/S/TAM					
	CHT/S/TAM					
	CHT/S/TAM					
38	DEL/S/ASO					
	DEL/S/ASO					
	DEL/S/ASO					
39	GOA/S/BON					
	GOA/S/BON					
	GOA/S/BON					
	GOA/S/BON					
	GOA/S/BON					
40	GUJ/S/RAT					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	GUJ/S/RAT		Drought	1986 to 1988, 2000-01	Whole area	Kanjeta range	Poor regeneration and degradation of soil.				
	GUJ/S/RAT		NTPF collection	Every year	Part of the area	Kanjeta range	Poor regeneration and degradation of soil.				
	GUJ/S/RAT		Habitation	Every year	Part of the area	Kanjeta range	Poor regeneration and degradation of soil				
41	GUJ/S/WIL	4953.71	Salt production	Continuously since 1873	297.21	Dhrangadhra, Bajana, Adesar	Migration away from the site, Loss of habitat, Increased threat from hunters.	Wild Ass	200 plus	Chinkara	
42	HAR/S/BIRB	4.14	Fel	1999	6	Bir Bara Ban Jind					
43	HAR/S/CHIL	0.28	Cultivation around wetland				Population decline, migration away from the site, loss of breeding site, loss of food source & loss of water source	All migratory avifauna species			
44	HAR/S/SAR	44.02	Grazing and Cultivation				Loss of breeding site and Loss of food source	Hog Deer			
45	HP/N/GRE	905.40	Grazing	From Posterity	905.4	Sainj, Tirthan and Jiwanal	Ecology and biodiversity of the area has been effected badly	Sesous(Capri cornis sumatraeensis)	Quite and good number of all those species	Himalayan Jhear(Hamits agus fem	
46	HP/S/DAR	46.59	Fire (Burning)	Annual	2	Dofda	Loss of breeding site, Loss of food source	All pheasants, Musk deer, Ghoral, Black bear			
	HP/S/DAR		Grazing	Annual	3	Dofda	Loss of breeding site, Loss of food source	All pheasants, Musk deer, Ghoral, Black bear			
47	HP/S/DHA	943.98	Fire (burning)	Annual	1	Bir and Keori beats	Population decline, migration away from the site, loss of breeding site, loss of food source	Pheasants	No estimate		
48	HP/S/GAM	109.00	Tree felling (timber demand)	Annual	2	Bhandal	General Disturbance				
	HP/S/GAM		Grazing	Annual	30	Bhandal	General Disturbance				

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	GUJ/S/RAT												
	GUJ/S/RAT												
	GUJ/S/RAT												
41	GUJ/S/WIL												
42	HAR/S/BIRB												
43	HAR/S/CHIL												
44	HAR/S/SAR												
45	HP/N/GRE	Goral(Nemorha dus goral)		Blue sheep(Pseudo nayaur)		Himalayan brown bear(Ursus arc		Musk Deer(Moschife rus)		Western tragopar(Melano cephalu		Chir(Catreus wallichii)	
46	HP/S/DAR												
	HP/S/DAR												
47	HP/S/DHA												
48	HP/S/GAM												
	HP/S/GAM									0			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	GUJ/S/RAT					No scientific survey has been done.
	GUJ/S/RAT					
	GUJ/S/RAT					
41	GUJ/S/WIL					
42	HAR/S/BIRB					
43	HAR/S/CHIL					
44	HAR/S/SAR					
45	HP/N/GRE	Monal(Lophophorus umpegenus)		Kaleej(Lophusa leucomdang)	Quite and good number of all those species	
46	HP/S/DAR					
	HP/S/DAR					
47	HP/S/DHA					
48	HP/S/GAM					
	HP/S/GAM					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
49	HP/S/KAL	69.47	Grazing	Annual	2	Kalatop-Khajjiar	Loss of breeding site, loss of food source	Herbivores			
	HP/S/KAL		Tourism and pilgrimage	Annual	0.2	Kalatop-Khajjiar	General disturbance	All animals			
	HP/S/KAL		Development (PWD Road)	Annual	1	Kalatop-Khajjiar	General disturbance	All animals			
50	HP/S/KUG	378.87	Grazing	Annual	340.98	Entire PA	Migration away from the site, Disease		Herbivores	No estimate	
	HP/S/KUG		OTH (Glacier)	Annual	37.89	South & South east of PA.	Population decline, Loss of breeding site, Loss of food source		All Mammals	No estimate	
51	HP/S/LIP	30.89	Grazing	Annual			Loss of food source	Herbivores & Pheasants			
	HP/S/LIP		NTFP Collection	Annual			Loss of breeding sites	Pheasants			
52	HP/S/PON	307.70	OTH (Fishing)	Annual	307.7	Entire PA	Population decline (Diving Birds get caught in fishing nets), general disturbance				
	HP/S/PON		OTH (Water sports)	Annual	2		General disturbance				
	HP/S/PON		Cultivation on the edge of the lake	Annual			Nesting or feeding of some birds gets disturbed.				
53	HP/S/RUP	269.15	NTFP Collection	Annual	90	Rupi+Bhaba	Loss of breeding site	Monal		Musk Deer	
	HP/S/RUP		Fire	Annual	10	Rupi+Bhaba	Loss of breeding site	Ghoral		Monal	
	HP/S/RUP		Grazing	Annual	100	Rupi+Bhaba	Loss of food source, Changes in habitat	Ibex		Blue sheep	
54	HP/S/SAN	650.00	Grazing	Annual	650	Sangla	Loss of food source for herbivores and population decline for pheasants				
	HP/S/SAN		NTFP Collection	Annual	487.5	Sangla	Loss of food source for herbivores and population decline for pheasants				
	HP/S/SAN		OTH (Fuel and fodder extraction)	Annual	325	Sangla	Loss of food source for herbivores and population decline for pheasants				

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
49	HP/S/KAL												
	HP/S/KAL										0		
	HP/S/KAL												
50	HP/S/KUG												
	HP/S/KUG										0		
51	HP/S/LIP												
	HP/S/LIP												
52	HP/S/PON												
	HP/S/PON												
	HP/S/PON												
53	HP/S/RUP	Western Tragopan											
	HP/S/RUP	Musk Deer		Western Tragopan									
	HP/S/RUP	Himalayan Tahr		Ghoral		Western Tragopan		Monal		Musk deer			
54	HP/S/SAN												
	HP/S/SAN												
	HP/S/SAN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
49	HP/S/KAL					
	HP/S/KAL					
	HP/S/KAL					
50	HP/S/KUG					
	HP/S/KUG					
51	HP/S/LIP					
	HP/S/LIP					
52	HP/S/PON					
	HP/S/PON					
	HP/S/PON					
53	HP/S/RUP					
	HP/S/RUP					
	HP/S/RUP					
54	HP/S/SAN					
	HP/S/SAN					
	HP/S/SAN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
55	HP/S/TUN	64.00	Grazing	Annual	57.6	Entire PA	Migration away from the site, disease	Herbivores			
	HP/S/TUN		OTH(Glacier)	Annual	5	South & South-East of the PA	Population decline, loss of breeding site, loss of food source	All mammals			
56	J&K/N/HEM	3350.00	Development activities	Annual	7	Markha, Rumbak, Chilling, Kaya	Migration away from site, loss of breeding site, loss of food source.	All animals	Not known		
	J&K/N/HEM		Habitation and cultivation	Annual	536	Markha, Rumbak, Chilling, Kaya	Loss of breeding site, loss of food source.	All animals	Not known		
	J&K/N/HEM		Grazing	Annual	50	Markha, Rumbak, Chilling, Kaya	Loss of food source	All herbivores	Not known		
	J&K/N/HEM		Tourism	Annual	20	Markha, Rumbak, Chilling, Kaya	Migration away from site, loss of food source.	All animals	Not known		
57	J&K/S/CHA	4000.00	Development projects (roads)	Annual		Nyoma and Chushul	Migration away from the site and increased threat from predators/hunters	All animals			
	J&K/S/CHA		Erosion and floods	Annual	10	Nyoma & Chushul	Migration away from the site, loss of breeding site, loss of food source	Black Necked Crane (Grus nigricollis), Bar Headed Geese (Anser indicus)			
	J&K/S/CHA		Grazing	Annual		Nyoma and Chushul	Disease, loss of food source, migration away from the site and loss of breeding site.	All herbivores			
	J&K/S/CHA		Tourism	Annual		Nyoma and Chushul	Migration away from the site, loss of food source, disturbance, pollution	All animals			
	J&K/S/CHA		Others (Army)	Annual		Nyoma & Chushal	Migration away from the site, loss of breeding site.	All animals			
58	J&K/S/KAR	5000.00	Development projects (roads)	Annual	335 km.	Nubra	Disturbance	All Animals	Not known		
	J&K/S/KAR		Erosion	Annual	5	Nubra	Loss of food source	All animals	Not known		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
55	HP/S/TUN												
	HP/S/TUN										0		
56	J&K/N/HEM												
	J&K/N/HEM												
	J&K/N/HEM												
	J&K/N/HEM												
57	J&K/S/CHA												
	J&K/S/CHA												
	J&K/S/CHA												
	J&K/S/CHA												
	J&K/S/CHA												
58	J&K/S/KAR												
	J&K/S/KAR												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
55	HP/S/TUN					
	HP/S/TUN					
56	J&K/N/HEM					
	J&K/N/HEM					
	J&K/N/HEM					
	J&K/N/HEM					
57	J&K/S/CHA					
	J&K/S/CHA					
	J&K/S/CHA					
	J&K/S/CHA					
	J&K/S/CHA					
58	J&K/S/KAR					
	J&K/S/KAR					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	J&K/S/KAR		Habitation and cultivation.	Annual	750 .	Nubra	Migration away from the site, loss of food source	All animals	Not known		
	J&K/S/KAR		Others (army and para military)	Annual	1000 .	Nubra	Disturbance	All animals	Not known		
	J&K/S/KAR		Grazing	Annual	2000-3000 .	Nubra	Loss of food source	Herbivores	Not known		
	J&K/S/KAR		Air port		50 .	Nubra	Noise pollution				
59	JHA/S/HAZ	186.26	OTH (Poaching)	Annual	186.26	Entire PA	Extinction, Population decline	All mammals			
	JHA/S/HAZ		Fire (Burning), Tree felling	Annual	186.26	Entire PA	Migration away from the site, Loss of breeding site, Loss of food source	All mammals			
	JHA/S/HAZ		Cultivation	Annual	186.26	Entire PA	Migration away from the site, Loss of breeding site	All mammals			
	JHA/S/HAZ		Grazing	Annual	186.26	Entire PA	Disease, Migration away from the site, Loss of breeding site, Loss of food source	All mammals			
	JHA/S/HAZ		Habitation	Annual	186.26	Entire PA	Migration away from the site, Extinction, Population decline	All mammals			
	JHA/S/HAZ		NTPF Collection	Annual	186.26	Entire PA	Migration away from the site, Loss of breeding site, Loss of food source, Increased threat from predators/ hunters	All mammals			
60	JHA/S/UDH	1.27	Habitation	1992	1.27	Rajmahal Damin	Population decline, Migration away from the site, Loss of food source				
61	KAR/N/BAN	880.02	Fire				Ground fire occurs in patches. It causes damage to the snakes and other small animals				
62	KAR/N/BANN	104.27	Fire	Stray	5 .	Sporadic	Not noticed	Ground fire			
	KAR/N/BANN		Habitation	1970	20 .	Harohally, Project	Not noticed				
	KAR/N/BANN		Grazing	Persists	20 .	All along the boundary	Not noticed				
	KAR/N/BANN		Tree felling	Persists		All along the boundary	Not noticed				
	KAR/N/BANN		Mines	1980	10 .	In the northern portion	Disturbance to wild animals now stopped specially elephants.				
63	KAR/N/KUD	600.32	Not affected so far								

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	J&K/S/KAR												
	J&K/S/KAR												
	J&K/S/KAR												
	J&K/S/KAR												
59	JHA/S/HAZ												
	JHA/S/HAZ												
	JHA/S/HAZ												
	JHA/S/HAZ												
	JHA/S/HAZ												
	JHA/S/HAZ												
	JHA/S/HAZ												
60	JHA/S/UDH												
61	KAR/N/BAN												
62	KAR/N/BANN												
	KAR/N/BANN												
	KAR/N/BANN												
	KAR/N/BANN												
	KAR/N/BANN												
63	KAR/N/KUD												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	J&K/S/KAR					
	J&K/S/KAR					
	J&K/S/KAR					
	J&K/S/KAR					
59	JHA/S/HAZ					
	JHA/S/HAZ					
	JHA/S/HAZ					
	JHA/S/HAZ					
	JHA/S/HAZ					
	JHA/S/HAZ					
	JHA/S/HAZ					
60	JHA/S/UDH					
61	KAR/N/BAN					
62	KAR/N/BANN					
	KAR/N/BANN					
	KAR/N/BANN					
	KAR/N/BANN					
	KAR/N/BANN					
63	KAR/N/KUD					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
64	KAR/N/NAG	643.39	Habitation			Veeranahosahalli	Migration away from the site	Four horned antelope			
65	KAR/S/ADI	0.89	Grazing	Every year	0.02	Adichunchanagiri	Habitats gets effected	Peafowl	N.A	Quails	NA
	KAR/S/ADI		Fire	Every year	0.05	Adichunchanagiri		Peafowl	N.A	Quails	NA
	KAR/S/ADI		Pilgrimage	Every year	0.02	Adichunchanagiri		Peafowl	N.A	Quails	NA
66	KAR/S/ARA	13.50	Grazing, Tree felling, Fire	Every year	4 to 5	Arabitittu Sanctuary	Loss of food source, Loss of water source	Deer (Axis Axis)	Details not available		
67	KAR/S/BIL	540.00	NTPF collection	Every year	Whole	All ranges	Decline in regeneration.	Phyllanthus emblica	20%		
	KAR/S/BIL		Erosion	Every year	Fringe	All ranges		Shola species			
	KAR/S/BIL		Dam	1980's	Fringe	All ranges					
	KAR/S/BIL		Fire	Every year	Whole	All ranges		Shola spp.			
	KAR/S/BIL		Grazing	Every year	Fringe	All ranges					
	KAR/S/BIL		Mines	Every year	Fringe	All ranges					
	KAR/S/BIL		Pilgrimage								
68	KAR/S/KAV	526.95					Occasional threats are noticed to elephants, sambhars, & deers and are controlled by antipoaching watchers and staff.				
69	KAR/S/MEL	49.82	Grazing, Fire, Tree felling	Occasional	10	Fringes of the Sanctuary	Animals migrates away from the disturbed area	Spotted deer - Axis Axis	N.A	Black Buck	NA
70	KAR/S/MOO	247.00	Habitation		125	Kundapur Wildlife Sanctuary	Population decline, Loss of breeding site, Loss of food source, Loss of water source				
71	KAR/S/RANG	0.67	Tourism	as on today	0.5	Ranganathittu Bird Sanctuary	Slight disturbances to the breeding birds				
72	KAR/S/SHE	395.60	Dams		8	Sacrebyle	Breakup of corridors between Bhadra and Shettihalli WLS	Elephant - Elephas maximus			
	KAR/S/SHE		Cultivation	1970		Shimoga, Hanagere	Disturbance to wild animals and their habitat degradation	All wild animals			
	KAR/S/SHE		Grazing		295	Shimoga, Sacrebyle, Hanagere	Scarcity of fodder like grass and other fodder species	Spotted deer - Axis axis			
	KAR/S/SHE		Mines/quarries		8	Shimoga, Hanagere	Disturbance of wildlife	All type of wild animals			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
64	KAR/N/NAG												
65	KAR/S/ADI												
	KAR/S/ADI										0		
	KAR/S/ADI												
66	KAR/S/ARA												
67	KAR/S/BIL												
	KAR/S/BIL												
	KAR/S/BIL												
	KAR/S/BIL												
	KAR/S/BIL												
	KAR/S/BIL												
	KAR/S/BIL												
68	KAR/S/KAV												
69	KAR/S/MEL	Canis Lupus - Indian Wolf	N.A										
70	KAR/S/MOO												
71	KAR/S/RANG												
72	KAR/S/SHE												
	KAR/S/SHE												
	KAR/S/SHE										0		
	KAR/S/SHE												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
64	KAR/N/NAG					
65	KAR/S/ADI					
	KAR/S/ADI					
	KAR/S/ADI					
66	KAR/S/ARA					
67	KAR/S/BIL					
	KAR/S/BIL					
	KAR/S/BIL					
	KAR/S/BIL					
	KAR/S/BIL					
	KAR/S/BIL					
	KAR/S/BIL					
68	KAR/S/KAV					
69	KAR/S/MEL					
70	KAR/S/MOO					
71	KAR/S/RANG					
72	KAR/S/SHE					
	KAR/S/SHE					
	KAR/S/SHE					
	KAR/S/SHE					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
73	KER/N/ERA	100.00	Grazing according to MP				Population Decline, Proliferation of hardy species/ weeds	All herbivores			
74	KER/S/ARA	55.00	Drought, eroision, habitation	1984 onwards	16 .	Aralam	Population decline, migration away from the site, loss of breeding site, loss of food source, loss of water source, malnutrition.	Elephant (Elephas maximus)	Not assessed	Sambar deer (Cervus unicolor)	not assessed
75	KER/S/CHIN	90.44	Grazing	Annual	20	Chinnar	Population decline, Increased threat from predators/hunters	Sambhar	40	Gaur	8
76	KER/S/WAY	344.44	Drought	1989-90	344.44	Entire PA	Loss of food source, Migration away from the site, Loss of water source	Elephant	25	Gaur	
	KER/S/WAY		NTFP Collection	Annual	344.44	Entire PA	Loss of food source	Deer, Bear, Birds			
	KER/S/WAY		Tourism	Since 1986	35	Muthanga and Tholpetty	Disease, Migration away form the site, Malnutrition	Deer, Elephant macaque			
	KER/S/WAY		Fire (Burning)	1989-90	344.44	Entire PA	Loss of food source, Migration away form the site, Loss of water source	Elephant	25	Birds	
	KER/S/WAY		Grazing	Annual	344.44	Entire PA	Disease, Loss of food source, Loss of water source	Gaur, Herbivores			
77	MAH/N/AND	625.40	Not studied								
78	MAH/N/NAV	133.88	Tourism	Since declaration of the park	133.88	133.88		All			
	MAH/N/NAV		Non Timber Forest Produce collection	Since declaration of the park	133.88	133.88		All			
	MAH/N/NAV		Felling	Since declaration of the park	133.88	133.88		All			
	MAH/N/NAV		Fire	Since declaration of the park	133.88	133.88		All			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
73	KER/N/ERA												
74	KER/S/ARA	Gaur (Bos gaurus)	not assessed	Lion tailed macaque (Macaca silenus)	not assessed	Nilgiri langur (Presbytis johnii)	not assessed	Bonnet macaque (Macaca radiata)	not assessed	Common langur (Presbytis entellus)	not assessed	Slender loris (Loris tardigradus)	not assessed
75	KER/S/CHIN												
76	KER/S/WAY	Reptiles											
	KER/S/WAY												
	KER/S/WAY												
	KER/S/WAY	Small herbivores											
	KER/S/WAY												
77	MAH/N/AND												
78	MAH/N/NAV												
	MAH/N/NAV												
	MAH/N/NAV												
	MAH/N/NAV												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
73	KER/N/ERA					
74	KER/S/ARA					Drought area-5 sq.km.; erosion area- 8 sq.km.; habitation area- 3 sq.km.;
75	KER/S/CHIN					
76	KER/S/WAY					
	KER/S/WAY					
	KER/S/WAY					
	KER/S/WAY					
	KER/S/WAY					
77	MAH/N/AND					
78	MAH/N/NAV					
	MAH/N/NAV					
	MAH/N/NAV					
	MAH/N/NAV					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	MAH/N/NAV		Grazing	Since declaration of the park	133.88	133.88		All			
79	MAH/N/PEN	257.26	Human activity				All faunal species affected				
	MAH/N/PEN		Traffic				All faunal species affected				
	MAH/N/PEN		Grazing				All faunal species affected				
	MAH/N/PEN		Illegal encroachment at totuladoh				All faunal species affected				
	MAH/N/PEN		Illegal fishing				All faunal species affected				
	MAH/N/PEN		Hydroelectrical project at totuladoh				All faunal species affected				
80	MAH/N/SAN	103.09	Encroachment	1991 onwards		Sanjay Gandhi National Park, Yeur/Upwan	Leopard territory disturbance				
	MAH/N/SAN		Mines/Stone quarries			Ban	Patridge habitat disturbance				
	MAH/N/SAN		Tourism				Habitat loss of Jungle Fowl & Pea fowl	Small species			
	MAH/N/SAN		Fire(Burning)				Habitat loss(Lantana & Bulbul)				
	MAH/N/SAN		Grazing				Habitat loss(Lantana & Bulbul)				
81	MAH/S/AMB	127.11	Fire	All previous years	2	Sonala	Migration away from the site	Monkeys	NA	Antelopes	NA
82	MAH/S/ANE	82.94	Cultivation		82.94		Migration away from the site, 'Population decline, 'Loss of food source	Hare,Peafowl ,Chinkara,Sloth bear	Data not avb.		
	MAH/S/ANE		Tree felling		82.94		Migration away from the site, 'Population decline, 'Loss of food source	Hare,Peafowl ,Chinkara,Sloth bear	Data not avb.		
	MAH/S/ANE		Grazing		82.94		Migration away from the site, 'Population decline, 'Loss of food source	Hare,Peafowl ,Chinkara,Sloth bear	Data not avb.		
	MAH/S/ANE		Fire(Burning)		82.94		Migration away from the site, 'Population decline, 'Loss of food source	Hare,Peafowl ,Chinkara,Sloth bear	Data not avb		
	MAH/S/ANE		Habitation		82.94		Migration away from the site, 'Population decline, 'Loss of food source	Hare,Peafowl ,Chinkara,Sloth bear	Data not avb.		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	MAH/N/NAV												
79	MAH/N/PEN												
	MAH/N/PEN												
	MAH/N/PEN												
	MAH/N/PEN												
	MAH/N/PEN												
	MAH/N/PEN												
	MAH/N/PEN												
80	MAH/N/SAN												
	MAH/N/SAN												
	MAH/N/SAN												
	MAH/N/SAN												
	MAH/N/SAN												
81	MAH/S/AMB												
82	MAH/S/ANE												
	MAH/S/ANE												
	MAH/S/ANE												
	MAH/S/ANE										0		
	MAH/S/ANE												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	MAH/N/NAV					
79	MAH/N/PEN					
	MAH/N/PEN					
	MAH/N/PEN					
	MAH/N/PEN					
	MAH/N/PEN					
	MAH/N/PEN					
	MAH/N/PEN					
80	MAH/N/SAN					
	MAH/N/SAN					
	MAH/N/SAN					
	MAH/N/SAN					
	MAH/N/SAN					
81	MAH/S/AMB					
82	MAH/S/ANE					
	MAH/S/ANE					
	MAH/S/ANE					
	MAH/S/ANE					
	MAH/S/ANE					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
83	MAH/S/BHI	130.78	Development	1964-65 to 1977	0.13	Bhimashankar 1	Loss of habitat	Shekru (Ratufa indica) or Giant squirrel (elphinstoni)	Not known		
84	MAH/S/CHAN	308.97	Rehabilitation of villages out of sanctuary area	1997-98	60%	To the north of Nondoli to Chandel.	Grazing minimised for fauna by restricting free movement, poaching minimised therefore slow increase in the population.				
85	MAH/S/CHAP	133.23	Fire(Burning)	1999	4	Chaudampalli	Migration away from the site	N.A.	unknown		
	MAH/S/CHAP		Grazing	1999	20.44	Chaudampalli	Loss of food source	All herbivores listed	100		
	MAH/S/CHAP		Non Timber Forest Produce collection	1999	30	Chaudampalli	Migration away from the site	Unknown	unknown		
	MAH/S/CHAP		Pilgrimage	1999	0.01	Chaudampalli	Migration away from the site	Unknown	unknown		
86	MAH/S/GAU	260.00	Grazing			All three ranges	Food availability of fauna is reduced	Barking deer, Chinkara	All		
	MAH/S/GAU		Fire			All three ranges	Food availability of fauna is reduced	Barking deer, Chinkara	All		
87	MAH/S/GRE	8496.41	Canals			Nannaj	Affect areas of Great Indian bustard and black buck	Great Indian bustard	Not estimated	Black buck	Not estimated
	MAH/S/GRE		Roads			Nannaj	Affect areas of Great Indian bustard and black buck	Great Indian bustard	Not estimated	Black buck	Not estimated
88	MAH/S/GYA	203.56	Fire			Buldhana Khamgaon	Migration of sloth bear and food habitat of herbivores.	All herbivores			
	MAH/S/GYA		Garzing				Migration of sloth bear and food habitat of herbivores.	All herbivores			
89	MAH/S/JAI	341.05	Developmental projects	Since the construction of dam (1976)	341.05	Whole waterbody	Might affect the migration of the birds in the long run.	Avi fauna	Not yet esatimated		
	MAH/S/JAI		Cultivation	Since the construction of dam(1976)	341.05	Whole waterbody	Might affect the migration of the birds in the long run.	Avi fauna	Not yet esatimated		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
83	MAH/S/BHI												
84	MAH/S/CHAN												
85	MAH/S/CHAP												
	MAH/S/CHAP												
	MAH/S/CHAP										0		
	MAH/S/CHAP												
86	MAH/S/GAU												
	MAH/S/GAU										0		
87	MAH/S/GRE	Wolf	Not estimated	Indian fox	Not estimated	Civet cat	Not estimated						
	MAH/S/GRE	Wolf	Not estimated	Indian fox	Not estimated	Civet cat	Not estimated						
88	MAH/S/GYA												
	MAH/S/GYA										0		
89	MAH/S/JAI												
	MAH/S/JAI										0		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
83	MAH/S/BHI					
84	MAH/S/CHAN					
85	MAH/S/CHAP					
	MAH/S/CHAP					
	MAH/S/CHAP					
	MAH/S/CHAP					
86	MAH/S/GAU					
	MAH/S/GAU					
87	MAH/S/GRE					The impacts are possible in the future.
	MAH/S/GRE					
88	MAH/S/GYA					
	MAH/S/GYA					
89	MAH/S/JAI					
	MAH/S/JAI					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	MAH/S/JAI		Fishing	Since the construction of dam(1976)	341.05	Whole waterbody	Might affect the migration of the birds in the long run.	Avi fauna	Not yet esatimated		
90	MAH/S/KAL	361.71	GRZ,HAB,NTF P,DAM				Population decline of fauna				
91	MAH/S/KAR	4.27	Tree felling				Habitat destruction	Can't be ascertained			
	MAH/S/KAR		Tourism				Hiabitat destruction	Can't be ascertained			
92	MAH/S/KAT	73.69	Forest fire	Since establishment of the P.A.	18.42	Akola	Migration away from the site	All			
	MAH/S/KAT		Grazing	Since establishment of the P.A.	18.42	Akola	Migration away from the site	All			
93	MAH/S/MAY	5.15	Future canal	2000	All PA	All		Chinkara		Wolf	
94	MAH/S/NAG	152.81	Tourism	Since the establishment of the P.A.	152.81	All(Nagzira)	Migration of fauna, loss of breeding site,loss of food source & increased threat from predator & hunters.	All			
	MAH/S/NAG		Fire	Since the establishment of the P.A.	152.81	All(Nagzira)	Migration of fauna, loss of breeding site ,loss of food source & increased threat from predator & hunters.	All			
	MAH/S/NAG		Grazing	Since the establishment of the P.A.	152.81	All(Nagzira)	Migration of fauna, loss of breeding site , loss of food source & increased threat from predator & hunters.	All			
	MAH/S/NAG		Non Timber Forest Produce collection	Since the establishment of the P.A.	152.81	All (Nagzira)	Migration of fauna, loss of breeding site ,loss of food source & increased threat from predator & hunters.	All			
	MAH/S/NAG		Felling	Since the establishment of the P.A.	152.81	All(Nagzira)	Migration of fauna, loss of breeding site , loss of food source & increased threat from predator & hunters.	All			
95	MAH/S/NAI	29.90	Grazing,NTFP	Since long	10	Beed	Loss of food source	Peafowl,Blac kbuck	Can't say		
96	MAH/S/PAI	324.64	Fire		324.64		Food species get burnt	Herbivores	All		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	MAH/S/JAI												
90	MAH/S/KAL												
91	MAH/S/KAR												
	MAH/S/KAR										0		
92	MAH/S/KAT												
	MAH/S/KAT										0		
93	MAH/S/MAY	Fox											
94	MAH/S/NAG												
	MAH/S/NAG												
	MAH/S/NAG												
	MAH/S/NAG										0		
	MAH/S/NAG												
95	MAH/S/NAI												
96	MAH/S/PAI												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	MAH/S/JAI					
90	MAH/S/KAL					
91	MAH/S/KAR					
	MAH/S/KAR					
92	MAH/S/KAT					
	MAH/S/KAT					
93	MAH/S/MAY					
94	MAH/S/NAG					
	MAH/S/NAG					
	MAH/S/NAG					
	MAH/S/NAG					
	MAH/S/NAG					
95	MAH/S/NAI					
96	MAH/S/PAI					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	MAH/S/PAI		Grazing		162.32 to 227.25			Herbivores	All		
97	MAH/S/SAG	10.87	Drought	Every year	10.87	Whole protected area	Population decline	Hyaena(Hyaena hyaena)	2		
	MAH/S/SAG		Fire(Burning)	Every year	10.87	Whole protected area	Extinction	Pangolin(Manis crassicaudata)	1		
	MAH/S/SAG		Developmental projects	Every year	10.87	Whole protected area	Population decline	Indian wolf(Canis lupus)	4		
	MAH/S/SAG		Tourism	Every year	10.87	Whole protected area	Migration away from the site	All species	400		
	MAH/S/SAG		Pilgrimage	Every year	10.87	Whole protected area	Migration away from the site	All species	400		
	MAH/S/SAG		Grazing	Every year	10.87	Whole protected area	Migration away from the site	All species	400		
	MAH/S/SAG		Mines/Stone quarries	Every year	10.87	Whole protected area	Migration away from the site & Loss of food source	All species	400		
98	MAH/S/TIP	140.29	Illegal poaching of Blue Bull	April 98		National Highway No.7 Nagpur Adilabad Road Near sunna.					
	MAH/S/TIP		Illegal Poaching of Black buck	May-99		Sunna Checkpost					
	MAH/S/TIP		Illegal poaching of Blue bull	Jun-99		Pilkhana					
	MAH/S/TIP		Illegal Poaching of Blue Bull	Aug-99		Susoni(Near Samartur war farm)					
99	MAH/S/WAN	205.86	Panther skin	1999		Wan and Somthana	Increased threat from hunters.	Panther	1		
	MAH/S/WAN		Tiger Skin	1999		Wan and Somthana	Increased threat from hunters.	Tiger	1		
	MAH/S/WAN		Chausinga Skin	1999		Wan and Somthana	Increased threat from hunters.	Chausinga	1		
100	MAH/S/YAW	177.52	Tree felling		177.52		2,4,6	Tiger, Wild Dog, Chinkara, Chausinga	Notknown	Population decline, migration away from the site, loss of food source.	

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	MAH/S/PAI										0		
97	MAH/S/SAG												
	MAH/S/SAG												
	MAH/S/SAG												
	MAH/S/SAG										0		
	MAH/S/SAG												
	MAH/S/SAG												
	MAH/S/SAG												
98	MAH/S/TIP												
	MAH/S/TIP												
	MAH/S/TIP										0		
	MAH/S/TIP												
99	MAH/S/WAN												
	MAH/S/WAN										0		
	MAH/S/WAN												
100	MAH/S/YAW												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	MAH/S/PAI					
97	MAH/S/SAG					
	MAH/S/SAG					
	MAH/S/SAG					
	MAH/S/SAG					
	MAH/S/SAG					
	MAH/S/SAG					
	MAH/S/SAG					
98	MAH/S/TIP					
	MAH/S/TIP					
	MAH/S/TIP					
	MAH/S/TIP					
99	MAH/S/WAN					
	MAH/S/WAN					
	MAH/S/WAN					
100	MAH/S/YAW					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	MAH/S/YAW		Fire(Burning)		177.52		2,4,6	Tiger, Wild Dog, Chinkara, Chausinga	Notknown	Population decline, migration away from the site, loss of food source.	
	MAH/S/YAW		Grazing		177.52			Tiger, Wild Dog, Chinkara, Chausinga	Notknown	Population decline, migration away from the site, loss of food source.	
	MAH/S/YAW		Habitation		177.52		2,4,6	Tiger, Wild Dog, Chinkara, Chausinga	Notknown	Population decline, migration away from the site, loss of food source.	
	MAH/S/YAW		Non Timber Forest Produce collection		177.52		2,4,6	Tiger, Wild Dog, Chinkara, Chausinga	Notknown	Population decline, migration away from the site, loss of food source.	
101	MAH/S/YED	22.37	Non Timber Forest Produce collection	Since long	10	Yedshi	Loss of food source	Peafowl, Black buck	Not known		
	MAH/S/YED		Grazing	Since long	7	Yedshi	Loss of food source	Black buck-Peafowl	Not known		
102	MAN/N/KEI	40.00	Dam	1983 onwards	26	Major part of park	Loss of breeding site, Loss of food source, Increased threat from predators/hunters	Sangai (Cervus eldi eldi)		Hog Deer (Axis porcinus)	

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	MAH/S/YAW												
	MAH/S/YAW												
	MAH/S/YAW										0		
	MAH/S/YAW												
101	MAH/S/YED												
	MAH/S/YED										0		
102	MAN/N/KEI	Wild boar (Sus scrofa)											

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	MAH/S/YAW					
	MAH/S/YAW					
	MAH/S/YAW					
	MAH/S/YAW					
101	MAH/S/YED					
	MAH/S/YED					
102	MAN/N/KEI					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
103	MEG/N/BAL	220.00	Fire	Every year	Not known	All the ranges	Population decline, migration away from the site, loss of breeding site, food source and water source, malnutrition, increased threat from predators/hunters	(1)All wildlife (terrestrial & arboreal) (2)All avifauna	Not ascertained		
104	MEG/S/SIJ	5.18	Fire	Every year	Not known	Siju Range	Population decline, migration away from the site, loss of breeding site, food source and water source, malnutrition, increased threat from predators/hunters	(1)All wildlife (terrestrial & arboreal) (2)All avifauna	Not ascertained	All avifauna	Not ascertained
105	MIZ/N/MUR	200.00	Habitation, fire, cultivation felling, hunting	Annual	150	North Khawbung	Increased threat from predators/hunters, Population decline, Loss of breeding site, Migration away from site	Barking deer		Sambar	
106	MIZ/N/PHA	50.00	No impacts of any human activities on fauna at present.								
107	MIZ/S/DAM	500.00	Insurgency	1997		Teirei	Population decline, but negligible		Not known (only assumption)		
	MIZ/S/DAM		Hunting	1997		Outside P.A.		Barking deer	1		
	MIZ/S/DAM		Hunting	1996		Teirei		Rhesus macaque	1	Fish	
	MIZ/S/DAM		Hunting	1999		Outside P.A.		Rhesus macaque	1	Barking deer	1
	MIZ/S/DAM		Hunting	1998		Both ranges		Barking deer	1	Fish	1
108	MIZ/S/KHA	41.00	Fire	Annual	0.7	Rawpui	Loss of breeding site	Birds, herbivores and primates			
	MIZ/S/KHA		Cultivation (Jhum)	Every 5 years(parallel to jhum cycle)	35	Rawpui	Loss of breeding site, loss of food source	Birds, herbivores and primates			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
103	MEG/N/BAL												
104	MEG/S/SIJ												
105	MIZ/N/MUR	Wild boar		Primates		Birds		Tiger					
106	MIZ/N/PHA												
107	MIZ/S/DAM												
	MIZ/S/DAM												
	MIZ/S/DAM												
	MIZ/S/DAM	Wild boar	1	Fish	1						0		
	MIZ/S/DAM	Wild boar	1										
108	MIZ/S/KHA												
	MIZ/S/KHA										0		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
103	MEG/N/BAL					
104	MEG/S/SIJ					
105	MIZ/N/MUR					
106	MIZ/N/PHA					
107	MIZ/S/DAM					
	MIZ/S/DAM					
	MIZ/S/DAM					
	MIZ/S/DAM					
	MIZ/S/DAM					
108	MIZ/S/KHA					
	MIZ/S/KHA					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
109	MIZ/S/LEN	120.00	Fire	Annual	36	Ranges not yet demarcated	Increased threat from predators/hunters, loss of food source	Birds			
	MIZ/S/LEN		OTH (Hunting)	Annual	90	Ranges not yet demarcated	Increased threat from predators/hunters & loss of food source	Carnivores			
	MIZ/S/LEN		Cultivation	Annual	20	Ranges not yet demarcated	Increased threat from predators/hunters & loss of food source	Herbivores			
	MIZ/S/LEN		Felling	Annual	5	Ranges not yet demarcated	Increased threat from predators/hunters & loss of food source	Primates			
110	MP/N/PEN	292.86	Dam	1990	54.51	Karmajhiri and Gumtara.	Migration away from the site.				
111	MP/N/SAT	524.37	Fishing in the Tawa dam by local fisheries sangh (federation).		44	Kamti	Extinction, migration away from the site and loss of water source.	Fishes - Rohu, Katla, Bom, Mahaseer.	Not estimated		
	MP/N/SAT		Pachmarhi Town (sewage and garbage).		45	Pachmarhi	Population decline, migration away from the site, loss of water source.	All wildlife		Not estimated	
	MP/N/SAT		Tourism (near and around Pachmarhi).		35	Pachmarhi	Migration away from the site.	All wildlife		Not estimate	
	MP/N/SAT		Pilgrimage (near and around Pachmarhi).		35	Pachmarhi	Migration away from the site.	All wildlife		Not estimated	
	MP/N/SAT		Erosion		400	Pachmarhi and Kamti	Population decline and migration away from the site.	Porcupine, Giant Squiarrell.		Not estimated	
	MP/N/SAT		Grazing (by local villagers)		30	Pachmarhi and Kamti	Disease and migration away from the site.	All wildlife specially Chital and Bison		Not estimated	
112	MP/S/BAG	478.00	Erosion	Annual	15	Bagdara	Migration away from the site	Panther (Panthera pardus)	6		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
109	MIZ/S/LEN												
	MIZ/S/LEN												
	MIZ/S/LEN										0		
	MIZ/S/LEN												
110	MP/N/PEN												
111	MP/N/SAT												
	MP/N/SAT												
	MP/N/SAT												
	MP/N/SAT												
	MP/N/SAT												
	MP/N/SAT												
112	MP/S/BAG												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
109	MIZ/S/LEN					
	MIZ/S/LEN					
	MIZ/S/LEN					
	MIZ/S/LEN					
110	MP/N/PEN					
111	MP/N/SAT					
	MP/N/SAT					
	MP/N/SAT					
	MP/N/SAT					
	MP/N/SAT					
	MP/N/SAT					
112	MP/S/BAG					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	MP/S/BAG		Habitation	Annual since 1978	50	Bagdara	Infection	Blue bull (Bosellaphus trapocamellus)	75		
	MP/S/BAG		OTH (Nistar)	Annual		Bagdara	Site Degradation	Black buck	90	Blue bull	40
	MP/S/BAG		NTPF Collection	Annual since 1978	300	Bagdara	Site Degradation	Black buck		Chinkara (Gazella gazella)	25
	MP/S/BAG		Fire (Burning)	Annual	10	Bagdara	Migration away from the site	Black buck	200	Blue bull (Boselaphus trapocamellus)	100
	MP/S/BAG		Grazing	Annual but rotational	20	Bagdara	Infection	Black buck	225		
113	MP/S/GAN	368.62	Grazing (domestic cattle and sheep from Rajasthan).	Before independence	250	Gandhisagar range adjoining with Bhanpura and Rampura ranges.	Habitat destruction resulted in loss of food to animals.	Chital, Nilgai and all other faunal species	Unknown		
	MP/S/GAN		Oth - PWD roads	Before independence	33	Gandhisagar range adjoining with Bhanpura and Rampura ranges.	Causes disturbance in movement of wild animals and habitat disturbance.	All wild animals	Unknown		
	MP/S/GAN		Pilgrimage	Before independence	25	Gandhisagar range adjoining with Bhanpura and Rampura ranges.	Causes disturbance to habitat.	All wild animals	Unknown		
	MP/S/GAN		Tourism	Before independence	10	Gandhisagar range adjoining with Bhanpura and Rampura ranges.	Causes disturbance to habitat.	All wild animals	Unknown		
114	MP/S/KAR	202.21	Grazing and Cultivation	1994	202.21	Game Range Karera.	Migration away from the site.	Sonchirya (Great Indian bustard).	40		
115	MP/S/KUN	344.69	Grazing	Since formation of the sanctuary	115	Sesaipura	Migration, loss of breeding ground and loss of food source.	All herbivores found in PA.			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	MP/S/BAG												
	MP/S/BAG												
	MP/S/BAG												
	MP/S/BAG												
	MP/S/BAG												
113	MP/S/GAN												
	MP/S/GAN												
	MP/S/GAN												
	MP/S/GAN												
114	MP/S/KAR												
115	MP/S/KUN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	MP/S/BAG					
	MP/S/BAG					
	MP/S/BAG					
	MP/S/BAG					
	MP/S/BAG					
113	MP/S/GAN					
	MP/S/GAN					
	MP/S/GAN					
	MP/S/GAN					
114	MP/S/KAR					
115	MP/S/KUN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
116	MP/S/NAR	57.20	Fire (Burning)	Yearly	5	Andhiyar khon, Chande khon, Jagan khon Dherale 'B'	Extinction, degradation, poor regeneration, changes in habitat/vegetation/forest types, proliferation of hardy species/weeds.	All animals			
	MP/S/NAR		Tourism	Yearly	3	Chidikho, Andhiyar Khon, Hamun.	Degradation, poor regeneration.	All animals			
	MP/S/NAR		Tree felling	Yearly	5	Ladha khon, Dhuwali, Kharcha khon.	Extinction, degradation, poor regeneration, proliferation of hardy species/weeds.	All animals			
	MP/S/NAR		Habitation		10	Chainpura, Deugarh, Gandhigram and around villages.	Extinction, disease, degradation, poor regeneration.	All animals			
	MP/S/NAR		Cultivation	Before 24/10/80	1.56	Scattered in the whole PA.	Extinction, degradation, poor regeneration, changes habitat/vegetation/forest types.	All animals			
	MP/S/NAR		Grazing	Yearly	20	In the whole PA.	Extinction, disease, degradation, poor regeneration, change in habitat/vegetation/forest types.	All animals			
117	MP/S/NAT	460.00	Sand mining								
118	MP/S/NOR	1186.96	Fire (Burning)	Every Year	1186.96	All ranges of the P.A.	Migration away from the site, loss of breeding site, loss of food source and loss of water source.	All species found in the P.A. are effected			
	MP/S/NOR		Grazing	Every year	1186.96	All ranges of the P.A.	Migration away from the site, loss of breeding site, loss of food source and loss of water source.	All species found in the P.A. are affected			
	MP/S/NOR		Habitation	Every year	1186.96	All ranges of the P.A.	Migration away from the site, loss of breeding site, loss of food source and loss of water source.	All species found in the P.A. are affected			
	MP/S/NOR		NTPP collection	Every year	1186.96	All ranges of the P.A.	Migration away from the site, loss of breeding site, loss of food source and loss of water source.	All species found in the P.A. are affected			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
116	MP/S/NAR												
	MP/S/NAR												
	MP/S/NAR												
	MP/S/NAR												
	MP/S/NAR												
	MP/S/NAR												
117	MP/S/NAT												
118	MP/S/NOR												
	MP/S/NOR												
	MP/S/NOR												
	MP/S/NOR												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
116	MP/S/NAR					
	MP/S/NAR					
	MP/S/NAR					
	MP/S/NAR					
	MP/S/NAR					
	MP/S/NAR					
117	MP/S/NAT					
118	MP/S/NOR					
	MP/S/NOR					
	MP/S/NOR					
	MP/S/NOR					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	MP/S/NOR		Cultivation	Every year	1186.96	All ranges of the P.A.	Migration away from the site, loss of breeding site, loss of food source and loss of water source.	All species found in the P.A. are affected			
	MP/S/NOR		Tree felling	Every year	1186.96	All ranges of the P.A.	Migration away from the site, loss of breeding site, loss of food source and loss of water source.	All species found in the P.A. are affected			
119	MP/S/SAN	364.59	Erosion	Annual		Dubari, Bastua	Population decline.	Tiger (Panthera tigris)	5		
	MP/S/SAN		Encroachment	From 1989	12.7	Dubari, Bastua	Not known	Chinkara (Gazella gazella)	175		
	MP/S/SAN		Habitation	From 1975	59.98	Dubari, Bastua	Loss of water source.	Chital (Axis axis)	200		
	MP/S/SAN		NTPF collection	From 1992	304.61	Dubari, Bastua	Not known	Blue bull (Boselaphus tragocamelus)	150		
	MP/S/SAN		Fire (Burning)	Annual		Dubari, Bastua	Migration away from site.	Leopard (Panthera pardus)	10		
	MP/S/SAN		Grazing	Rotational	192.04	Dubari, Bastua	Loss of food sources.	Sambar (Servus unicolor)	9		
	MP/S/SAN		Other (Nistar)	Annual		Dubari, Bastua	Not known	Barking Deer (Muntiacus muntjak)	15		
120	MP/S/SAR	348.12	Grazing, Habitation, Cultivation	Every Year	340	Sardarpur	Loss of breeding sites.	Kharmore (Lesser Floricon)			
121	NAG/N/INT	202.02	Human settlements	1993 onwards	15.54	Tourist zone	Loss of habitat	Not assessed			
122	NAG/S/PUL	9.23	Landslide	Every year	0.23	Towards northern side of the park	Migration away from the site, loss of breeding site	Herbivores, mostly deer are affected	Not assessed		
	NAG/S/PUL		NTPF collection	Every year	0.5	Towards Kohima town					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	MP/S/NOR												
	MP/S/NOR												
119	MP/S/SAN												
	MP/S/SAN												
	MP/S/SAN												
	MP/S/SAN												
	MP/S/SAN												
	MP/S/SAN										0		
	MP/S/SAN												
	MP/S/SAN												
120	MP/S/SAR												
121	NAG/N/INT												
122	NAG/S/PUL												
	NAG/S/PUL												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	MP/S/NOR					
	MP/S/NOR					
119	MP/S/SAN					
	MP/S/SAN					
	MP/S/SAN					
	MP/S/SAN					
	MP/S/SAN					
	MP/S/SAN					
	MP/S/SAN					
120	MP/S/SAR					
121	NAG/N/INT					
122	NAG/S/PUL					
	NAG/S/PUL					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	NAG/S/PUL		Tree felling	Every year	0.45	Towards Kohima town					
	NAG/S/PUL		Habitation	Every year	0.1	Towards Kohima town	Concentration of fauna towards undisturbed hideouts				
	NAG/S/PUL		Grazing	Every year	0.2	Towards Kohima town					
123	NAG/S/RAN	4.70	Village settlement	1992 onwards	2.35	Rangapahar	Wild animal populations have dwindled due to human disturbance	Barking deer	6	Wild pig	4
124	ORI/N+S/BHI	145.00	Habitation, Grazing, Erosion, OTH (Fishing and illicit felling)	Not known		Kanika, Rajnagar	Disease, loss of breeding site, loss of food source, increased threat from predators/hunters	Estuarine crocodile and spotted deer	Not estimated		
125	ORI/S/BAD	304.03	Drought	Current year	304.03	Badarma	Population decline, loss of food source, loss of water source, increased threat from predators/hunters	Sambar			
	ORI/S/BAD		Drought	Current year	304.03	Badarma	Extinction, loss of food source, loss of water source	Bison			
	ORI/S/BAD		Drought	Current year	304.03	Badarma	Migration away from the site, loss of water source, loss of food source	Elephant			
	ORI/S/BAD		Drought	Current year	304.03	Badarma	Population decline, loss of food source, loss of water source, increased threat from predators/hunters	Deer			
	ORI/S/BAD		Drought	Current year	304.03	Badarma	Population decline, loss of food source	Rabbit			
	ORI/S/BAD		Drought	Current year	304.03	Badarma	Population decline	Snakes			
	ORI/S/BAD		Drought	Current year	304.03	Badarma	Population decline	Common Bustard			
	ORI/S/BAD		Drought	Current year	304.03	Badarma	Population decline, loss of food source, loss of water source, increased threat from predators/hunters	Barking deer			
	ORI/S/BAD		Fire	Every year	150	Badarma	Population decline, loss of food source, loss of water source, increased threat from predators/hunters	Sambar			
	ORI/S/BAD		Fire	Every year	150	Badarma	Extinction, loss of food source	Bison			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	NAG/S/PUL												
	NAG/S/PUL										0		
	NAG/S/PUL												
123	NAG/S/RAN	Sambar	4	Monitor lizard		Porcupine, turtles		Water birds		Khaleej pheasant			
124	ORI/N+S/BHI												
125	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	NAG/S/PUL					
	NAG/S/PUL					
	NAG/S/PUL					
123	NAG/S/RAN					
124	ORI/N+S/BHI					
125	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	ORI/S/BAD		Fire	Every year	150	Badarma	Migration away from the site, loss of food source	Elephant			
	ORI/S/BAD		Fire	Every year	150	Badarma	Population decline, loss of food source, increased threat from predators/hunters	Deer			
	ORI/S/BAD		Fire	Every year	150	Badarma	Population decline, loss of food source	Rabbit			
	ORI/S/BAD		Fire	Every year	150	Badarma	Population decline	Snakes			
	ORI/S/BAD		Fire	Every year	150	Badarma	Population decline	Common Bustard			
	ORI/S/BAD		Fire	Every year	150	Badarma	Population decline, loss of food source, increased threat from predators/hunters	Barking deer			
126	ORI/S/BAL	71.72	Cyclone-1999	1999	36	Blukhand and Konark					
	ORI/S/BAL		Tourism	Annually	Very small. Fluctuates from year to year	Balukhand and Konark					
	ORI/S/BAL		NFTP collection	Annually	Entire PA	Balukhand and Knorak					
127	ORI/S/CHA	193.39	Fire	Every year	90	All four ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, increased threat from predators/hunters	All species inside the PA			
	ORI/S/CHA		Tree felling	Every year	35	All four ranges	Migration away from the site, loss of breeding site, loss of food source, Increased threat from predators/hunters	Elephant(Elephas maximus)	50	Common langoor (Presbytus entellus)	100
	ORI/S/CHA		Cyclone	1999	193	All four ranges	Population decline, migration away from the site, loss of breeding site, loss of food source, increased threat from predators/hunters	All species inside the PA			
128	ORI/S/DEB	346.90	Fire	1997-98	1.6	Kamgaon and Lakhanpur Range					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD										0		
	ORI/S/BAD												
	ORI/S/BAD												
	ORI/S/BAD												
126	ORI/S/BAL												
	ORI/S/BAL										0		
	ORI/S/BAL												
127	ORI/S/CHA												
	ORI/S/CHA	Rhesus macaque(Maca mulata)	70	Squirrel(Funambus palnium)	200						0		
	ORI/S/CHA												
128	ORI/S/DEB												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
	ORI/S/BAD					
126	ORI/S/BAL					
	ORI/S/BAL					
	ORI/S/BAL					
127	ORI/S/CHA					
	ORI/S/CHA					
	ORI/S/CHA					
128	ORI/S/DEB					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
129	ORI/S/HAD	191.60	Hadgarh Dam:Salandi Project,Hadgarh reservoir constructed	1964-72	31.83		General disturbance				
	ORI/S/HAD		Fire	Prior to declaration of sanctuary	20	Compartment: 5,11,13,15,16 Palabani	General disturbance				
	ORI/S/HAD		Grazing	Prior to declaration of sanctuary	191.6	Compartment: 4,5,6,7,11,13,16	General disturbance				
	ORI/S/HAD		Habitation/encroachments	1965	15	Compartment: 1,2,6,13,14,15	General disturbance				
	ORI/S/HAD	191.6	Mines/quarries	1965	4	Compartment: 15,16	General disturbance				
130	ORI/S/KHA	116.00	Fire	Every year	116	Girishchandrapur	Population decline, disease, migration away from the site, loss of breeding site, loss of food source, increased threat from predators/hunters.	All species			
	ORI/S/KHA		Grazing	Every year	116	Girishchandrapur	Disease, loss of food source, loss of water source, malnutrition, increased treat from predators/hunters	Ungulates			
	ORI/S/KHA		Habitation	Every year	2	Girishchandrapur	Extinction, population decline, disease, migration away from the site, loss of breeding site, loss of food source, loss of water source, malnutrition, increased threat from predators/hunters.	Herbivores			
	ORI/S/KHA		NTFP collection	Every year	116	Girishchandrapur	Population decline, loss of food source, malnutrition, increased threat from predators/hunters	Herbivores			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
129	ORI/S/HAD												
	ORI/S/HAD												
	ORI/S/HAD												
	ORI/S/HAD												
	ORI/S/HAD												
130	ORI/S/KHA												
	ORI/S/KHA												
	ORI/S/KHA												
	ORI/S/KHA												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
129	ORI/S/HAD					
	ORI/S/HAD					
	ORI/S/HAD					
	ORI/S/HAD					
	ORI/S/HAD					
130	ORI/S/KHA					
	ORI/S/KHA					
	ORI/S/KHA					
	ORI/S/KHA					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	ORI/S/KHA		Cultivation	Every year	2	Girishchandrapur	Population decline, disease, migration away from the site, loss of breeding site, loss of food source, loss of water source, malnutrition, increased threat from predators/hunters.	Herbivores			
	ORI/S/KHA		Tree felling	Every year	116	Girishchandrapur	Population decline, migration away from the site, loss of breeding site, loss of food source, loss of water source, malnutrition, increased threat from predators/hunters.	Herbivores			
131	ORI/S/KOT	399.50	Shifting cultivation and semi-permanent Cultivation on streams	Not known		Kotagarh	Habitat loss in going to be severe. loss of water source, migration away from the site, increased threat from predators/hunters.	Elephant(Elp hus maximus)	Not known		
132	ORI/S/KUL	272.75	Growing of human population, collection of timber, firewood, small timber, NTFP forest fire, grazing, cultivation, poaching.			Almost the entire PA		Tiger (Panthera tigris)		Leopard (Panthera pardus)	
133	ORI/S/SATN	795.52	Disease (skin)	1988	1	Gharial Research & Conservation Unit, Tikarpara	Died between the period of 16-07-1988 to 28-07-1988	Gharial/Than tia (Gavialis gangeticus)	30		
	ORI/S/SATN		Grazing, foot and mouth disease	1979-80, 1995	50-70%	All ranges	Loss of food, shelter	All fauna (ruminant)			
	ORI/S/SATN		Fire	Every year	50-70%	All ranges	Migration taken place suceptibles.	All fauna			
	ORI/S/SATN		NTFP collection	Every year		All ranges	for Mahua, tenduleaf set fire	All fauna			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	ORI/S/KHA												
	ORI/S/KHA										0		
131	ORI/S/KOT												
132	ORI/S/KUL	Elephant (Elephas maximus)		Bison (Bos gaurus)		Barking deer (Muntiacus muntjak)		Mouse deer (Tragulus meminna)		Spotted deer (Axis axis)		Sambar (Cervus unicolor)	
133	ORI/S/SATN												
	ORI/S/SATN												
	ORI/S/SATN												
	ORI/S/SATN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	ORI/S/KHA					
	ORI/S/KHA					
131	ORI/S/KOT					
132	ORI/S/KUL					
133	ORI/S/SATN					
	ORI/S/SATN					
	ORI/S/SATN					
	ORI/S/SATN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	ORI/S/SATN		Tree felling	Every year		All ranges	Loss of habitat	All fauna			
	ORI/S/SATN		Poaching	Every year		All ranges	Declining in number	Elephant		Sambar	
	ORI/S/SATN		Fishing	Every year	30.10	Mahanadi river	Gharial population dwindled due to use of nylon nets for fishing.	Gharial, mugger (Gavialis gangeticus)			
134	ORI/S/SIM	2200.00	Growing human population				Stagnation	Tiger (Panther tigris)			
135	ORI/S/SUN	600.00	Fire	Every year		Nawa Para and Komna Range	Population decline, migration away from the site, loss of breeding site	Sambar, Chital			
	ORI/S/SUN		Cultivation	Every year		Nawa Para and Komna Range	Loss of food source, increased threat from predators/hunters	Wild boar and Barasingha			
	ORI/S/SUN		Habitation	Every year		Nawa Para and Komna Range		Barasingha			
136	PUN/S/HAR	86.00	Illegal fishing	Annual	28	Harike		Various fish			
	PUN/S/HAR		Illegal poaching	Annual	86	Harike		Wild boar		Water birds	
	PUN/S/HAR		Grazing	Annual	50	Harike		Hog deer			
	PUN/S/HAR		Illegal removal of grass	Annual	50	Harike		Hog deer			
	PUN/S/HAR		Deliberate burning of grass		5	Harike		Hog deer			
137	RAJ/N/KEO	28.73	Drought	2000-2001	11	Keoladeo	Migration away from the site, population decline, loss of food source	More than 30 species of migratory waterfowl			
	RAJ/N/KEO		Drought	2000-2001	11	Keoladeo	Loss of breeding site, loss of food source	Species that breed in heronaries (Egrets, storks, cormorants, herons)	Thousands		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	ORI/S/SATN												
	ORI/S/SATN	Spotted deer		Indian bison		Muntique							
	ORI/S/SATN												
134	ORI/S/SIM												
135	ORI/S/SUN												
	ORI/S/SUN										0		
	ORI/S/SUN												
136	PUN/S/HAR												
	PUN/S/HAR	Common Hare		Hog deer									
	PUN/S/HAR												
	PUN/S/HAR												
	PUN/S/HAR												
137	RAJ/N/KEO												
	RAJ/N/KEO												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	ORI/S/SATN					
	ORI/S/SATN					
	ORI/S/SATN					
134	ORI/S/SIM					
135	ORI/S/SUN					
	ORI/S/SUN					
	ORI/S/SUN					
136	PUN/S/HAR					
	PUN/S/HAR					
	PUN/S/HAR					
	PUN/S/HAR					
	PUN/S/HAR					
137	RAJ/N/KEO					
	RAJ/N/KEO					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
138	RAJ/S/BAS	138.69	Dam, grazing, NTFP collection, tree felling, tourism, pilgrimages								
139	RAJ/S/BHA	195.02	Drought, erosion, dam, grazing, cultivation								
140	RAJ/S/JAI	52.00	Grazing	Occasional	52.00	Jaisamand	Extinction	Chinkara (Gazilla-Gazilla)	5		
141	RAJ/S/JAM	300.00	Mines.		4.37	Jamwa Ramgarh.	Increased threat form predators/hunters, population decline, migration away form the site, loss of breeding site.	Bagh(Panthera tigris).	Not recorded		
	RAJ/S/JAM		Habitation.		4	Jamwa Ramgarh.	Population decline, migration away form the site, loss of breeding site, loss of water source, increased threat from predators/hunters.	All species.	Not recorded		
	RAJ/S/JAM		Encroachment		0.17	Jamwa Ramgarh.	Population decline, migration away form the site, loss of breeding site, loss of water source, increased threat from predators/hunters.	Bagh(Panthera tigris).	Not recorded	Leopard(Panthera pardus).	
	RAJ/S/JAM		Fire.	1998	0.16	Jamwa Ramgarh.	Migration away form the site, loss of breeding site.	Ground nesting birds.	Not recorded	Insects.	
	RAJ/S/JAM		Grazing.		120	Jamwa Ramgarh.	Population decline, disease, migration away form the site, loss of breeding site, loss of food source, loss of water source.	Chital(Axis axis).	Not recorded	Blue bull(Bos taurus)	
142	RAJ/S/KELA	672.00	Grazing	Prior to notification of the sanctuary in 1983.	600	All ranges	Loss of food source and loss of water source	Chinkara (Gazella gazella)	NA	Neelgai	NA

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
138	RAJ/S/BAS												
139	RAJ/S/BHA												
140	RAJ/S/JAI												
141	RAJ/S/JAM												
	RAJ/S/JAM												
	RAJ/S/JAM	Blue bull(Bosepbus treccomalus).											
	RAJ/S/JAM	Reptiles.									0		
	RAJ/S/JAM	Wild boar (Sus scrofa).											
142	RAJ/S/KELA	Sambar	NA	Cheetal (Axis axis)	NA								

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
138	RAJ/S/BAS					
139	RAJ/S/BHA					
140	RAJ/S/JAI					
141	RAJ/S/JAM					
	RAJ/S/JAM					
	RAJ/S/JAM					
	RAJ/S/JAM					
	RAJ/S/JAM					
142	RAJ/S/KELA					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	RAJ/S/KELA		Mining (in adjoining areas)	1970	25	Kela Devi, Mandrayal	Migration away from the site.	All species	NA		
	RAJ/S/KELA		Drought	1999-2000-2001	Entire area	All ranges	Migration away from the site, loss of breeding site, loss of food source and loss of water source.	All species	NA		
143	RAJ/S/KUM	608.56	Drought	1987, 1988, 1998, 1999, 2000	609	Whole sanctuary (Sadari, Desuri, Bokhara, Kumbhalgarh)	Migration away from the site	Wild boar	Not known		
144	RAJ/S/NAH	52.40	Fire.	1990	0.07	Nahargarh.	Migrate from previous site, migration away from the site, loss of breeding site.	Ground nesting birds.		Insects.	
	RAJ/S/NAH		Encroachment	1980	0.55	Nahargarh.	Migration from previous site to other site and sometimes to village sites and agricultural lands. population decline, migration away from the site, loss of breeding sight, loss of water source, increased threat from predators/hunters.	Baghera (Panthera pardus).	1	Neelgai (Bosolaphus tregocamalus).	40
145	RAJ/S/PHU	511.41	Tree felling	Regular event		Kotra, Mamer, Panarwa					
	RAJ/S/PHU		Fire	1992, 1993, 1994, 1995	13.24	Kotra, Mamer, Panarwa	Population decline, migration away from the site	Wild hear (Khargosh)	200		
	RAJ/S/PHU		Grazing	Regular event		Kotra, Mamer, Panarwa	Population decline	Four Horned Antelope	25-30		
	RAJ/S/PHU		Habitation	Regular event		Panarwa	Population decline, increased threat from predators/hunters.	Sloth bear (Melursus ursinus)	20-30		
	RAJ/S/PHU		NFTP collection	Regular event		Kotra, Mamer, Panarwa					
	RAJ/S/PHU		Cultivation	Regular event		Kotra, Mamer, Panarwa					
146	RAJ/S/SAJJ	5.19	Development activities								
	RAJ/S/SAJJ		Tourism								
	RAJ/S/SAJJ		Grazing								

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	RAJ/S/KELA												
	RAJ/S/KELA												
143	RAJ/S/KUM												
144	RAJ/S/NAH	Reptiles.							0				
	RAJ/S/NAH	Siyar (Jackal).	5								0		
145	RAJ/S/PHU												
	RAJ/S/PHU												
	RAJ/S/PHU												
	RAJ/S/PHU												
	RAJ/S/PHU												
	RAJ/S/PHU												
146	RAJ/S/SAJJ												
	RAJ/S/SAJJ												
	RAJ/S/SAJJ												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	RAJ/S/KELA					
	RAJ/S/KELA					
143	RAJ/S/KUM					
144	RAJ/S/NAH					
	RAJ/S/NAH					
145	RAJ/S/PHU					
	RAJ/S/PHU					
	RAJ/S/PHU					
	RAJ/S/PHU					
	RAJ/S/PHU					
	RAJ/S/PHU					
146	RAJ/S/SAJJ					
	RAJ/S/SAJJ					
	RAJ/S/SAJJ					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
147	RAJ/S/SIT	422.94	Dam	1964	10 .	Jakham, Badi-Sadari	Population decline, migration away from the site	Chinkara (Gazella gazella benentti)	Not known	Cheetal (Axis axis)	Not known
	RAJ/S/SIT		Habitation	1970 onwards	2 .	All ranges	Population decline, migration away from the site.	All animals			
148	RAJ/S/TAL	7.19	Drought.	1999	7.19	Whole sanctuary.	Animals migrate away from the site.	Black buck (Antelope cervicapra).	500		
	RAJ/S/TAL		Drought.	2000	7.19	Whole sanctuary.	Animals migrate away from the site.	Black buck (Antelope cervicapra).	500		
149	RAJ/S/TOD	495.27	Drought	1998-99, 1999-2000, 2000-2001	495.27 .	Bijaji ka Guda, Jojawar, Bheem, Raoli	Population decline, loss of water source	Sambar (Cervus unicolor)	5-6		
	RAJ/S/TOD		Drought	1998-99, 1999-2000, 2000-2001	495.27 .	Bijaji ka Guda, Jojawar, Bheem, Raoli	Migration away from the site	Wild hare, Wolf	20-25		
	RAJ/S/TOD		Grazing	Annual	2.50 .	Bijaji ka Guda, Jojawar	Migration away from the site	Leopard, Sloth bear	8-10		
150	RAJ/S/VAN	25.60	Mining	Since lase 15 to 20 years	5% of the PA.	Entire PA	Population decline, migration away from the site, loss of breeding site, loss of food source.	Cheetal (Axis axis)	200	Sambar (Cervus unicolor)	100
	RAJ/S/VAN		Grazing	Since creation of PA	Throughout the PA	Entire PA	Population decline, loss of breeding site, loss of food source.	Cheetal (Axis axis)	200	Sambar (Cervus unicolor)	100
151	SIK/N/KHA	1784.00	Fire	1975/1999	2	Dzongri	Migration way form the site, Loss of breeding site, Loss of food source,				
	SIK/N/KHA		Tourism			Dzogri- Goechala	Disease, Migration away form the site				
	SIK/N/KHA		Cultivation			Isoka	Loss of breeding site, Loss of food source				
	SIK/N/KHA		Felling			Isoka, Dzongri	Population decline, Migration away form the site, Loss of breeding site, Loss of food source, Increased threat form predators/hunters	Blood pheasant, Red panda			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
147	RAJ/S/SIT	Sambar (Cervus unicolor)	Not known	Otters	Not known								
	RAJ/S/SIT												
148	RAJ/S/TAL												
	RAJ/S/TAL										0		
149	RAJ/S/TOD												
	RAJ/S/TOD												
	RAJ/S/TOD												
150	RAJ/S/VAN												
	RAJ/S/VAN												
151	SIK/N/KHA												
	SIK/N/KHA												
	SIK/N/KHA												
	SIK/N/KHA												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
147	RAJ/S/SIT					
	RAJ/S/SIT					
148	RAJ/S/TAL					
	RAJ/S/TAL					
149	RAJ/S/TOD					
	RAJ/S/TOD					
	RAJ/S/TOD					
150	RAJ/S/VAN					
	RAJ/S/VAN					
151	SIK/N/KHA					
	SIK/N/KHA					
	SIK/N/KHA					
	SIK/N/KHA					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	SIK/N/KHA		Grazing	1970 onwards	500	Dzongri	Population decline, Increased threat from predators/hunters	Satyr Tragopan			
	SIK/N/KHA		Habitation	1968 onwards	0.13	Isoka	Migration away from the site				
152	SIK/S/BAR	104.00	Grazing			Barsey	Loss of food source	Goral		Barking deer	
153	SIK/S/FAM	51.76	Grazing	Customary right	Approximately 4	Fambong Lho	Loss of food source, increased threat from predators/hunters.				
	SIK/S/FAM		NTPF collection (collection of fuelwood)			Fambong Lho	Loss of food source.				
154	SIK/S/KYON	31.00	Grazing		8	Kyongnosla	Population decline, loss of food source, migration away from the site				
	SIK/S/KYON		O (Road)			Kyongnosla	Population decline, Migration away from the site				
	SIK/S/KYON		Habitation			Kyongnosla	Population decline				
	SIK/S/KYON		Felling			Kyongnosla	Population Loss of food source Migration away from the site				
155	SIK/S/MAE	35.34	Grazing			Maenam	Migration away from the site, loss of food source	Ghoral			
	SIK/S/MAE		NTPF collection			Maenam	Loss of food source				
	SIK/S/MAE		Tree felling			Maenam	Loss of breeding site, loss of food source.	Red Panda			
156	SIK/S/SHIN	43.00	Landslides	Annual	11		Population decline				
	SIK/S/SHIN		Development projects (Road)		4 to 5km		Migration away from the site				
	SIK/S/SHIN		Others (Snow, avalanches)	Annual	11						
	SIK/S/SHIN		Grazing		11		Loss of food source, migration away from the site				
	SIK/S/SHIN		Tourism		4 to 5 km		Migration away from site, loss of breeding site.				
157	TN/N/GUL	6.23	OTH-Fishing	Many year	6.23	Islands, All except Ramnad	Degradation, Population decline				
	TN/N/GUL		OTH-Collection of corals illegally	Not known	6.23	Islands, All except Ramnad	Degradation, Population decline				

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	SIK/N/KHA										0		
	SIK/N/KHA												
152	SIK/S/BAR												
153	SIK/S/FAM												
	SIK/S/FAM										0		
154	SIK/S/KYON												
	SIK/S/KYON												
	SIK/S/KYON										0		
	SIK/S/KYON												
155	SIK/S/MAE												
	SIK/S/MAE										0		
	SIK/S/MAE												
156	SIK/S/SHIN												
	SIK/S/SHIN												
	SIK/S/SHIN												
	SIK/S/SHIN										0		
	SIK/S/SHIN												
157	TN/N/GUL												
	TN/N/GUL										0		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	SIK/N/KHA					
	SIK/N/KHA					
152	SIK/S/BAR					
153	SIK/S/FAM					
	SIK/S/FAM					
154	SIK/S/KYON					
	SIK/S/KYON					
	SIK/S/KYON					
	SIK/S/KYON					
155	SIK/S/MAE					
	SIK/S/MAE					
	SIK/S/MAE					
156	SIK/S/SHIN					
	SIK/S/SHIN					
	SIK/S/SHIN					
	SIK/S/SHIN					
157	TN/N/GUL					
	TN/N/GUL					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
158	TN/N/IND	958.57	Tribal activities (cultivation) inside the PA.	During 1990 s	10	Manompolly, valparai	Corridor disturbance resulting in man elephant conflict in surrounding area. Change of behavior of W/L and their migratory pattern.	Elephants			
159	TN/N/MUD	321.00	HAB								
	TN/N/MUD		Grazing		321			Deer,Gaur			
	TN/N/MUD		Road		Mas, Tep, Ker,			Monkey, Deer's, Porcupine, Amphibians, Snakes			
	TN/N/MUD		Development	1980s			FMD	All species			
	TN/N/MUD		Fire	Yearly			Population decline	Small animals	Little with mor		
160	TN/S/CHI	0.48	OTH- Water from tank is used for irrigation	Every year	0.48	Chitrangudi	Migration away from the site, Loss of breeding site, Loss of food source, Loss of water source	All birds	100%		
161	TN/S/GRI	477.83	Drought	Frequent	496.38	All ranges	Loss of water source	Elephant, Dear, Nilgri tehr, Indian Gaur			
	TN/S/GRI		Pilgrimage	20sq.km.		All ranges	Pollution	All			
	TN/S/GRI		Fir (Burning)	Frequent		All ranges	Disturabance of wildanimal	All			
	TN/S/GRI		Tourism	10sq.km.		All ranges	Disturbace of pollution	All			
162	TN/S/KAN	1.04	OTH- Water from tank used for irrigation	Every year	1.04	All	Migration away from the site, Loss of breeding site, Loss of food source, Loss of water source.	All birds	100%		
163	TN/S/KARI	0.65	Nil								
164	TN/S/POIN	25.00	No								
165	TN/S/UDA	0.44	Nil								
166	TN/S/VAD	1.28	Nil								
167	TN/S/VALL	16.41	Grazing			Tirumdvveli/Vadlan					
168	TN/S/VED	0.27	Nil								
169	TN/S/VELL	0.77	Nil								

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
158	TN/N/IND												
159	TN/N/MUD												
	TN/N/MUD												
	TN/N/MUD												
	TN/N/MUD										0		
	TN/N/MUD												
160	TN/S/CHI												
161	TN/S/GRI												
	TN/S/GRI												
	TN/S/GRI										0		
	TN/S/GRI												
162	TN/S/KAN												
163	TN/S/KARI												
164	TN/S/POIN												
165	TN/S/UDA												
166	TN/S/VAD												
167	TN/S/VALL												
168	TN/S/VED												
169	TN/S/VELL												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
158	TN/N/IND					
159	TN/N/MUD					
	TN/N/MUD					
	TN/N/MUD					
	TN/N/MUD					
	TN/N/MUD					
160	TN/S/CHI					
161	TN/S/GRI					
	TN/S/GRI					
	TN/S/GRI					
	TN/S/GRI					
162	TN/S/KAN					
163	TN/S/KARI					
164	TN/S/POIN					
165	TN/S/UDA					
166	TN/S/VAD					
167	TN/S/VALL					
168	TN/S/VED					
169	TN/S/VELL					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
170	TN/S/VET	0.38	OTH- Water from tanks used for irrigation	Every year	0.38	All	Migration away from the site, Loss of breeding site, Loss of food source, Loss of water source.	All birds	100%		
171	TRI/S/GUM	389.59	Dam			Entire area	Extinction, Population decline, disease, loss of breeding site, loss of food source	Binturong		Capped langur	
	TRI/S/GUM		Fire		389.59	Tirthmukh		Chinese pangolin		Barking deer	
172	UP/S/BAK	28.94	Fishing and grass collection	Annual	Entire PA						
173	UP/S/CHA	96.00	Dam	1957 onwards		Chandraprabha	Population decline, Migration away from the site & loss of breeding site				
	UP/S/CHA		Grazing		30	Chandraprabha					
	UP/S/CHA		Mining			Chandraprabha					
	UP/S/CHA		Grazing		30	Chandra Prabha					
	UP/S/CHA		Dam	1957	Outside	Chandra Prabha	Population decline, migration away from the site, loss of breeding site.				
	UP/S/CHA		Mining		Outside	Chandra Prabha					
174	UP/S/KAI	501.00	Grazing	From the beginning of the PA	60% of the PA	All ranges	Competition for fodder with wild herbivores.	Black buck, Chinkara		Not known	
175	UP/S/KAT	400.09	Saryu canal	1981	4	Entire PA	Not available	All mammals	Not available		
	UP/S/KAT	400.09	Girjapuri Dam	Around 1970	Not available	Katarniaghat	Not available	Tiger, Leopard, Swamp deer	Not available		
176	UP/S/NAT	635.00	Grazing	Before notification of the PA.	635 .	Both ranges.					
	UP/S/NAT		Habitation	Before notification of the PA.	635 .	Both ranges.					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
170	TN/S/VET												
171	TRI/S/GUM	Phayre's leaf monkey		Hoolock gibbon		Slow loris		Pig tailed macaque		Stump tailed macaque			
	TRI/S/GUM	Leopard cat		Serow		Sloth bear (Melursus ursinus)		Himalayan black bear		Malayan giant squirrel	0		
172	UP/S/BAK												
173	UP/S/CHA												
	UP/S/CHA										0		
	UP/S/CHA												
	UP/S/CHA												
	UP/S/CHA												
	UP/S/CHA												
	UP/S/CHA												
174	UP/S/KAI												
175	UP/S/KAT												
	UP/S/KAT												
176	UP/S/NAT												
	UP/S/NAT												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
170	TN/S/VET					
171	TRI/S/GUM					
	TRI/S/GUM					
172	UP/S/BAK					
173	UP/S/CHA					
	UP/S/CHA					
	UP/S/CHA					
	UP/S/CHA					
	UP/S/CHA					
	UP/S/CHA					
	UP/S/CHA					
174	UP/S/KAI					
175	UP/S/KAT					
	UP/S/KAT					
176	UP/S/NAT					
	UP/S/NAT					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	UP/S/NAT		Development activities (bridges on the Chambal river and roads running through the sanctuary)	Before notification of the PA.		Both ranges					
	UP/S/NAT		Dam			Both ranges					
177	UP/S/OKH	4.00	Flood	Before notification of PA.	3.75	Okhla Bird Sanctuary					
	UP/S/OKH		Dam	Before notification of PA.	3.5	Okhla Bird Sanctuary					
	UP/S/OKH		Tourism	Before notification of PA.	2.5	Okhla Bird Sanctuary					
	UP/S/OKH		Others	Before notification of PA.	1	Okhla Bird Sanctuary					
178	UP/S/RAN	220.41	Grazing	For the last 20 years.	60% of the PA area.	Manikpur (currently) and Markundi (in the past)	Competition for food with wild herbivores	Chinkara		Black buck	
179	UP/S/SAMN	5.26	Habitation	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary					
	UP/S/SAMN	5.26	Grazing	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary					
	UP/S/SAMN	5.26	Development Project	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary					
	UP/S/SAMN	5.26	Floods	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	UP/S/NAT												
	UP/S/NAT												
177	UP/S/OKH												
	UP/S/OKH												
	UP/S/OKH												
	UP/S/OKH												
178	UP/S/RAN												
179	UP/S/SAMN												
	UP/S/SAMN												
	UP/S/SAMN												
	UP/S/SAMN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	UP/S/NAT					
	UP/S/NAT					
177	UP/S/OKH					
	UP/S/OKH					
	UP/S/OKH					
	UP/S/OKH					
178	UP/S/RAN					
179	UP/S/SAMN					
	UP/S/SAMN					
	UP/S/SAMN					
	UP/S/SAMN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	UP/S/SAMN	5.26	Cultivation	Before notification of the PA in 1990.	5.2	Saman Bird Sanctuary					
180	UP/S/SUH	452.47	Fire	1996-97	15.055	Tulsipur, Bankatawa.	Temporary migration away from site.				
	UP/S/SUH		Fires	1995-96	6.0255	Tulsipur, Novalgarh, Navanagarh	Temporary migration away from site.				
	UP/S/SUH		Fire	1997-98	1.37	Barahawa, Tulsipur.	Temporary migration away from site.				
	UP/S/SUH		Fire	1998-99	0.15	Barahawa	Temporary migration away from site.				
	UP/S/SUH		Fire	1999-2000	0.93	All ranges	Temporary migration away from site.				
181	UP/S/SURS	7.13	Grazing	Before notification of the PA.	2.00	Sur Sarovar Bird Sanctuary					
	UP/S/SURS	7.13	Pilgrimage.	Before notification of the PA.	0.30	Sur Sarovar Bird Sanctuary					
	UP/S/SURS		Tourism	Before notification of the PA.	0.50	Sur Sarovar Bird Sanctuary					
182	UP/S/VIJ	2.62	Fishing	1995	0.25	Vijay Sagar Bird Sanctuary		Water birds			
183	UTT/N/COR	520.82	Dam	1962-74 onwards	42.2	Dhikala and Kalagarh	Population decline, migration away from the site, loss of food source	Hog deer		Elephant	
184	UTT/N/GAN	2390.02	Tourism	Annual	4	Gangotri	Migration away from the site, loss of breeding site and loss of food source	All herbivores			
	UTT/N/GAN		Pilgrimage	Annual	2	Gangotri	Migration away from the site, loss of breeding site and loss of food source	All herbivores			
	UTT/N/GAN		Development activities (roads)	Annual	60	Gangotri	Migration away from the site, increased threat from predators/hunters, disturbance	All fauna			
	UTT/N/GAN		Grazing	Annual	50	Gangotri	Loss of food source, loss of water source, disease	All herbivores			
	UTT/N/GAN		Tree felling	Annual	5	Gangotri	Loss of breeding site	Birds	0		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	UP/S/SAMN												
180	UP/S/SUH												
	UP/S/SUH												
	UP/S/SUH												
	UP/S/SUH												
	UP/S/SUH												
	UP/S/SUH												
181	UP/S/SURS												
	UP/S/SURS												
	UP/S/SURS												
182	UP/S/VIJ												
183	UTT/N/COR												
184	UTT/N/GAN												
	UTT/N/GAN										0		
	UTT/N/GAN												
	UTT/N/GAN												
	UTT/N/GAN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	UP/S/SAMN					
180	UP/S/SUH					
	UP/S/SUH					
	UP/S/SUH					
	UP/S/SUH					
	UP/S/SUH					
181	UP/S/SURS					
	UP/S/SURS					
	UP/S/SURS					
182	UP/S/VIJ					
183	UTT/N/COR					
184	UTT/N/GAN					
	UTT/N/GAN					
	UTT/N/GAN					
	UTT/N/GAN					
	UTT/N/GAN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	UTT/N/GAN		Fire	Annual	Negligible	Gangotri	Negligible	None			
	UTT/N/GAN		NTPF collection	Annual	350 .	All fauna	Migration away from site, increased threat from predators/hunters.				
	UTT/N/GAN		Others (hunting)	Annual	350 .	Gangotri	Population decline	All fauna			
	UTT/N/GAN		Others (army camps)	Annual	30 .	Gangotri	Migration away from the site, loss of breeding site and food source, increased threat from predators/hunters.	All fauna			
	UTT/N/GAN		Others (Avalanches)	Annual	30 .	Gangotri	Migration away from the site, loss of breeding site, food source and water source.	All fauna			
185	UTT/N+S/GOV	957.97	Grazing	Annual	250 .	All ranges, especially Sankari	Migration away from the site, loss of food source and increased threat from predators/hunters.	Wild herbivores, snow leopard, brown bear	Not known		
	UTT/N+S/GOV		NTPF collection	Annual	50 .	All ranges	NA	None	NA		
	UTT/N+S/GOV		Tree felling	Annual	25 .	All ranges	NA	None			
	UTT/N+S/GOV		Habitation	Annual	5 .	All ranges	NA	None			
	UTT/N+S/GOV		Cultivation	Annual	34 .	All ranges	Beneficial to these animals, as more food becomes available for them.	Monkeys, pigs, porcupine	0		
	UTT/N+S/GOV		Floods	2000	500 .	All ranges	NA	None			
	UTT/N+S/GOV		Tourism	Annual	10 .	Sankari	NA	None			
	UTT/N+S/GOV		Development activiti	Annual	5 .	All ranges	NA	None			
	UTT/N+S/GOV		Erosion	Annual	10 .	All ranges	NA	None			
186	UTT/S/ASK	599.93	Land slides	Annual	30 .	Askot, Dharchula	Migration away from the site and loss of food source.	Herbivores			
	UTT/S/ASK		Erosion	Annual	Unknown	Askot, Dharchula	Loss of food source.	Herbivores			
	UTT/S/ASK		Dam	1995 onward	1.862 .	Dharchula	Migration away from the site, loss of breeding site, loss of food source, increased threat from predators and general disturbance.	All species			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	UTT/N/GAN												
	UTT/N/GAN												
	UTT/N/GAN												
	UTT/N/GAN												
	UTT/N/GAN												
185	UTT/N+S/GOV												
	UTT/N+S/GOV										0		
	UTT/N+S/GOV												
	UTT/N+S/GOV												
	UTT/N+S/GOV												
	UTT/N+S/GOV												
	UTT/N+S/GOV												
	UTT/N+S/GOV												
186	UTT/S/ASK												
	UTT/S/ASK										0		
	UTT/S/ASK												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	UTT/N/GAN					
	UTT/N/GAN					
	UTT/N/GAN					
	UTT/N/GAN					
	UTT/N/GAN					
185	UTT/N+S/GOV					
	UTT/N+S/GOV					
	UTT/N+S/GOV					
	UTT/N+S/GOV					
	UTT/N+S/GOV					
	UTT/N+S/GOV					
	UTT/N+S/GOV					
	UTT/N+S/GOV					
186	UTT/S/ASK					
	UTT/S/ASK					
	UTT/S/ASK					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	UTT/S/ASK		Development activities (micro hydel projects)	Annual	0.056966	Dharchula	Unknown	Unknown			
	UTT/S/ASK		Development activities (roads)	Annual	120	Askot, Dharchula	Migration away from the site and increased threat from predators and general disturbance.	All species	0		
	UTT/S/ASK		Grazing, habitation, cultivation	Annual	Between 318 to 330	Askot, Dharchula	Population decline, migration away from the site, loss of breeding site, loss of food source, loss of water source and increased threat from predators	All species			
	UTT/S/ASK		Fire	Annual	0.25	Askot (whole range is vulnerable)	Population decline, migration away from the site, loss of breeding site, loss of food source and increased threat from predators.	All species			
	UTT/S/ASK		Hunting	Annual	453	Askot, Dharchula.	Extinction, population decline and increased threat from predators.	All species			
	UTT/S/ASK		Mining	1990 onwards	0.4	Askot, Dharchula	Migration away from the site, loss of food source and increased threat from predators.	All species			
	UTT/S/ASK		NTFP collection	Annual	453	Askot, Dharchula	Migration away from the site, loss of breeding site, food source and increased threat from predators	All species			
	UTT/S/ASK		Tourism	Annual	Negligible	Askot, Dharchula	Unknown	Unknown			
	UTT/S/ASK		Pilgrimage	Annual			Migration away from the site, increased threat from predators and general disturbance.	Unknown			
	UTT/S/ASK		Pilgrimage	Annual			Migration away from the site, increased threat from predators and general disturbance.	Unknown			
187	UTT/S/BIN	47.07	Fire	1999	7	Binsar (Pine forests)	Population decline, migration away from the site, loss of breeding site (temporary impact)	Pheasants			
	UTT/S/BIN		Pilgrimage	Annual	0.5	Binsar	Negligible	All birds and animals			

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
	UTT/S/ASK												
187	UTT/S/BIN												
	UTT/S/BIN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	UTT/S/ASK					
	UTT/S/ASK					
	UTT/S/ASK					
	UTT/S/ASK					
	UTT/S/ASK					
	UTT/S/ASK					
	UTT/S/ASK					
	UTT/S/ASK					
	UTT/S/ASK					
187	UTT/S/BIN					
	UTT/S/BIN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	UTT/S/BIN		Tourism	Annual	14	Binsar	Increased threat from predators/hunters, migration away from the site, general disturbance	All birds and animals			
	UTT/S/BIN		NTFP collection	Annual	15	Binsar	Migration away from the site, loss of food source, increased threat from predators/hunters, general disturbance.	All birds and animals			
	UTT/S/BIN		Grazing	Throughout the year	4.71	Binsar					
	UTT/S/BIN		Cultivation, habitation	Annual		Binsar	Migration away from the site, loss of breeding site, food source, Increased threat from predators/hunters	All birds and animals			
188	UTT/S/KED	975.20	Landslides	1998	1	Okhimath	Migration away from the site, Loss of food source, Malnutrition	Barking deer		Sambar	
189	UTT/S/SON	301.10	Grazing	Annual		Adnala, Mandal, Palain, Maidavan	Disease, migration away from the site, loss of food source, increased threat from predators/hunters.				
	UTT/S/SON		Habitation (Gujjars)	Since 1950s		Sonanadi	Migration away from the site, loss of breeding site, food and water source, increased threat from predators/hunters.				
	UTT/S/SON		Cultivation								
	UTT/S/SON		Tourism				Negligible				
	UTT/S/SON		Dam	1962 onwards			Submergence of grasslands.		0		
190	WB/N/GOR	79.45	Nil								
191	WB/N/SUN	2585.00	CY	Every year	2585		Adversely affect the ecosystem.	Fishes, Turtles, Dolphins etc. (Ongania mydas)	No data available		
	WB/N/SUN		ER	Every year	2585		Adversely affect the ecosystem	Green Turtle (Eretmochelys)	No data available		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	UTT/S/BIN												
	UTT/S/BIN												
	UTT/S/BIN										0		
	UTT/S/BIN												
188	UTT/S/KED												
189	UTT/S/SON												
	UTT/S/SON										0		
	UTT/S/SON												
	UTT/S/SON												
	UTT/S/SON												
190	WB/N/GOR												
191	WB/N/SUN												
	WB/N/SUN										0		

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	UTT/S/BIN					
	UTT/S/BIN					
	UTT/S/BIN					
	UTT/S/BIN					
188	UTT/S/KED					
189	UTT/S/SON					
	UTT/S/SON					
	UTT/S/SON					
	UTT/S/SON					
190	WB/N/GOR					
191	WB/N/SUN					
	WB/N/SUN					

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area affected	Ranges	Impact	Species1	Numbers1	Species2	Numbers2
	WB/N/SUN		OTH	Fishing	2585	Buffer area	Adversly affect the ecosystem.	Olove ridley, River terrapin (Imbrigata), Birds(Migratory)	No data available		
192	WB/S/BAL	2.02	None								
193	WB/S/HAL	5.95	NA								
194	WB/S/RAI	1.30	FL,CY	1996	1.3	Wildlife Range	Population decline	Open bill stork (Anastomus ascitans)	6000	Egrets (Bubulcus spp)	4000
	WB/S/RAI	1.30	FL,CY	1999	1.3	Wildlife Range	Population decline	Open bill stork (Anastomus ascitans)	12000	Egrets (Bubulcus spp)	8000
	WB/S/RAM	0.14	No remarkable impact is noted.								
195	WB/S/SEN	38.88	Nothing								

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species3	Numbers3	Species4	Numbers4	Species5	Numbers5	Species6	Numbers6	Species7	Numbers7	Species8	Numbers8
	WB/N/SUN												
192	WB/S/BAL												
193	WB/S/HAL												
194	WB/S/RAI												
	WB/S/RAI												
	WB/S/RAM												
195	WB/S/SEN												

Table 1.18: Human Activities and Other Natural Phenomenon Having an Impact on the Fauna in PAs

Note: All values for area are in square kilometers

Sno	PA code	Species9	Numbers9	Species10	Numbers10	Remark
	WB/N/SUN					
192	WB/S/BAL					
193	WB/S/HAL					
194	WB/S/RAI					
	WB/S/RAI					
	WB/S/RAM					
195	WB/S/SEN					

*Table 1.19: Human Activities and Other Natural
Phenomenon Having an Impact on the Flora of
the PAs*

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
1	AP/N/MAH	14.59	Large scale urbanisation around the area	Last 20 years	14.59	Entire PA	Habitat degradation, fragmentation			
	AP/N/MAH		Locating the municipal garbage dumping ground adjacent to the park	Since 1980	14.59	Entire PA	Air, soil and water pollution effecting plant and animal health	All species including birds		
2	AP/N/VEN	525.97	FEL	common	approx 20	Tirupati: Tumburkona, Sukravaram Bandale, Golladeviuni Gundam	Degradation	Red Sanders	Ptegolarpus Sandalinus	
	AP/N/VEN		FEL	common	approx 20	Chamala: Karivepakula Kona, Pagada Gundala Kona, Bommadi Konda				
	AP/N/VEN		FEL	common	approx 50	Balapalli: Vepamano Chela, Valeti Kona, Indlasela Penta, Jeevimanu Gundam				
3	AP/S/COR	235.7	Cyclone	November 1996	235.70	WLM, Kakinada	Population decrease	Avicennia officinalis		
	AP/S/COR		Grazing				Due to trampling regeneration is decreased			
4	AP/S/GUN	1194					Less impact			
5	AP/S/KAW	893	Collection of NTFP			All the ranges of the division	Due to over exploitation their number is drastically minimised in this PA. NTFP is declining causing unemployment for local villagers.	Stercula urens tapsi		
6	AP/S/KOL	308	Infestation of weeds							
7	AP/S/KOU	357.63	Drought	1995, 1997, 1999	357.63	Palamaner and Kuppam Range	Poor regeneration, proliferation of hardy species/weeds			
8	AP/S/KRI	194.21	Cyclone	1977			Badly damaged, Poor regeneration	Mangrove forest		
9	AP/S/PAK	860	Cultivation	1961-1991						
	AP/S/PAK		Habitation, Fire							
	AP/S/PAK		Grazing	Regular						
10	AP/S/PAP	590.68	Podu cultivation, Illicit felling	Long back	About 1.50	Whole sanctuary	Population decline	Terminalia tomentosa - Maddi	Xylia xylocarpa - Thaugedu	Adina cordifolia

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
1	AP/N/MAH						
	AP/N/MAH						
2	AP/N/VEN						
	AP/N/VEN						
	AP/N/VEN						
3	AP/S/COR						
	AP/S/COR						
4	AP/S/GUN						
5	AP/S/KAW						
6	AP/S/KOL						
7	AP/S/KOU						
8	AP/S/KRI						
9	AP/S/PAK						
	AP/S/PAK						
	AP/S/PAK						
10	AP/S/PAP	Pterocarpus marsupium	Anogeissus latifolia	Chloroxylon swietinia	Sterculia urens	Grewia tacliacfolia	Tectona grandis, Dalbergia latifolia

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
11	AP/S/POC	130	Erosion		20.00	Pocharam	Popullation decline, Degradation, Poor regeneration and Changes in habitat/vegetation/forest types	Teak - Tectona grandis	Mohwa - Madhuca indica	Gumpene - Lannea coromandali ca
	AP/S/POC		Fire		18.00	Pocharam	Popullation decline, Degradation, Poor regeneration and Changes in habitat/vegetation/forest types	Teak - Tectona grandis	Mohwa - Madhvca indica	Gumpene- Lannea coromandali ca
	AP/S/POC		Grazing		32.00	Pocharam	Popullation decline, Degradation, Poor regeneration and Changes in habitat/vegetation/forest types	Teak - Tectona grandis	Mohwa - Madhvca indica	Gumpene - Lannea coromandali ca
	AP/S/POC		NTFP collection		30.00	Pocharam	Popullation decline, Degradation, Poor regeneration and Changes in habitat/vegetation/forest types	Teak	Mohwa	Gumpene
	AP/S/POC		Cultivation		12.00	Pocharam	Popullation decline, Degradation, Poor regeneration and Changes in habitat/vegetation/forest types	Teak	Mohwa	Gumpene
	AP/S/POC		Tree felling		35.00	Pocharam	Popullation decline, Degradation, Poor regeneration and Changes in habitat/vegetation/forest types	Teak	Mohwa	Gumpene
12	AP/S/PUL	600	Tree felling	Since long	12.10	Total	Restricted growth	Chigara - Albizzia amara		
13	ARU/N/MOU	483	None							
14	ARU/N/NAM	1985.245	'Miao - Vijaynagar Road Project.		4.50	Miao and Gandhigram Wildlife Ranges.	Decline in natural regeneration due to fragmentation.	Not surveyed but most forest types are effected		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
11	AP/S/POC	Anduk - boswellia serrata	Nalla maddi-Terminalia tomentosa	Soppera-	Chennangi	Moduga - Butea monosperma	Somi - Soymida febrifuga
	AP/S/POC	Anduk - Boswellia serrata	Nall maddi	Soppera - Darbergia paniculata	Chennangi, Modvga, Somi		
	AP/S/POC	Anduk	Nalla maddi	Soppera	Chennangi, Moduga, Somi		
	AP/S/POC	Anduk	Nalla maddi	Soppera	Chennangi, Moduga, Somi		
	AP/S/POC	Anduk	Nalla maddi	Soppera	Chennangi, Moduga, Somi		
	AP/S/POC	Anduk	Nalla maddi	Soppera	Chennangi, Moduga, Somi		
	AP/S/POC	Anduk	Nalla maddi	Soppera	Chennangi, Moduga, Somi		
12	AP/S/PUL						
13	ARU/N/MOU						
14	ARU/N/NAM						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	ARU/N/NAM		Lisu migrants.	1996	4.45	Gandhigram and Namdapha Wildlife Ranges.	Destruction of habitat for Jhum cultivation.	Not surveyed but most forest types are effected		
15	ARU/S/DER	190	Floods and Erosion	Regular	30.00	All the ranges	Degradation (Impacts are negligible with respect to particular species	All species		
	ARU/S/DER		Fire (Burning)	Regular	142.50	All the ranges	Poor regeneration (Impacts are negligible with respect to particular species	Grasslands		
16	ARU/S/MEH	281.5	Development projects	1980	0.98	Mehao Wildlife Range	Population decline	Simul Udai (Bombay ceiba sterculia vllsa)		
	ARU/S/MEH		Cultivation	Since time immemorial	30.00	Mehao Wildlife Range	Population decline	Holok Khakan (Trminalia myriorarpa, Duabanga grandi flora		
	ARU/S/MEH		Tree felling	1964	0.20	Mehao Wildlife Range		Bhola (Morus lavegata)		
17	ASS/N/DIB	340	Flood	Annual	340.00	Guijan and Saikhowa	Change in habitat/vegetation/forest types			
	ASS/N/DIB		Erosion	Annual		Guijan and Saikhowa	Loss of area and vegetation			
	ASS/N/DIB		Grazing	Annual	32.50	Guijan and Saikhowa	Degradation, Poor regeneration			
	ASS/N/DIB		Habitation	Since 1956-57	1.00	Guijan	Degradation			
	ASS/N/DIB		Tree felling	Every year		Guijan and Saikhowa	Degradation			
	ASS/N/DIB		Cultivation	Every year	1.00	Guijan and Saikhowa	Degradation, Poor regeneration, Changes in habitat/vegetation/forest types			
	ASS/N/DIB		NTFP collection	Every year		Guijan and Saikhowa	Negligible			

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	ARU/N/NAM						
15	ARU/S/DER						
	ARU/S/DER						
16	ARU/S/MEH						
	ARU/S/MEH						
	ARU/S/MEH						
17	ASS/N/DIB						
	ASS/N/DIB						
	ASS/N/DIB						
	ASS/N/DIB						
	ASS/N/DIB						
	ASS/N/DIB						
	ASS/N/DIB						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
18	ASS/N/KAZ	407.9	Floods	Every year	280.00	All the ranges	Poor regeneration, Changes in habitat/vegetation/forest type.	Flood affects most of the grasses in low lying areas.		
	ASS/N/KAZ		Erosion	Every year	Brahmputra banks only	All the ranges	Proliferation of hardy species/weeds			
	ASS/N/KAZ		Fire (Burning)	Every year	262.00	All the ranges	Poor regeneration, Changes in habitat/vegetation/forest type			
19	ASS/N/MAN	519.77	Grazing, cultivation, tree felling		10.00	Bhuiyanpara	Degradation, Poor Regeneration, Proliferation of hardy species/weeds	Delbergia sissoo	Gmelina arborea	Bombax ceiba
	ASS/N/MAN		Grazing, cultivation, tree felling		8.00	Panbari	Degradation, Poor Regeneration, Proliferation of hardy species/weeds	Delbergia sissoo	Gmelina arborea	Bombax ceiba
	ASS/N/MAN		Grazing , tree felling		15.00	Bansbari	Degradation, Poor Regeneration, Proliferation of hardy species/weeds	Delbergia sissoo	Gmelina arborea	Bombax ceiba
20	ASS/N/NAME	200								
21	ASS/N/ORA	78.8	Floods	Every year	50.00	Orang National Park	Change in habitat/vegetation/forest types			
	ASS/N/ORA		Erosion	Every year	2.50	Orang National Park	Extinction, Population decline			
	ASS/N/ORA		Grazing	Every year	5.00	Orang National Park	Extinction, Degradation, Poor regeneration			
	ASS/N/ORA		Tree felling		Negligible. Along the boundary of the park	Orang National Park	Negligible			
	ASS/N/ORA		NTFP collection	Every year		Orang National Park	Negligible			
22	ASS/S/BAR	26.21	Grazing and tree felling				Extinction, Population decline, Loss of water sources			
23	ASS/S/BUR	44	Floods	1998	40	Burachapori Wildlife Range	Poor regeneration, changes in h	Delbergia siss	Bombax seba	
	ASS/S/BUR		Erosion	2000	1.5	Burachapori Wildlife Range	Extinction, changes in habitat	Albeizzia proc		
	ASS/S/BUR		Felling	2000	2	Burachapori Wildlife Range	Degradation, changes in habitat	Albizzia proce		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
18	ASS/N/KAZ						
	ASS/N/KAZ						
	ASS/N/KAZ						
19	ASS/N/MAN	Cedrela toona	Lagenstroemia Parrylora	Terminalia Bellariaea	T.Chebala		
	ASS/N/MAN	Cedrela toona	Lagenstroemia Parrylora	Terminalia Bellariaea	T.Chebala		
	ASS/N/MAN	Cedrela toona	Lagenstroemia Parrylora	Terminalia Bellariaea	T.Chebala		
20	ASS/N/NAME						
21	ASS/N/ORA						
	ASS/N/ORA						
	ASS/N/ORA						
	ASS/N/ORA						
	ASS/N/ORA						
22	ASS/S/BAR						
23	ASS/S/BUR						
	ASS/S/BUR						
	ASS/S/BUR						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
24	ASS/S/EKAR	221.81	Grazing, cultivation, habitation a				Detailed surveys which are yet to			
25	ASS/S/GAR	6	Grazing, development activity (a				In 1994, a part of the sanctuary			
26	ASS/S/GIB	19.16	Tree felling	1970	10.00	N.S.E.W.	Degradation, Poor regeneration	Hollong (D.Mecrocarpus)	Sam (A.Chaplesa)	Tita chapa (M.Champac a)
27	ASS/S/KAR	96								
28	ASS/S/LAO	70.1	Tree felling	Every year	15.00	Throughout the PA	Poor regeneration, Others	Sisoo (Dalbugia sisoo)	Korai (Allegia procera)	Gasmari (Gmetira arlorea)
	ASS/S/LAO		Floods	Every year	50.00		Poor regeneration	Grasses		
	ASS/S/LAO		Grazing	Every year	20.00		Disease, Degradation, Poor regeneration			
	ASS/S/LAO		Cultivation	Every year	20.00		Degradation, Population decline, Poor regeneration, Changes in habitat/vegetation/forest types	Grassland degradation		
	ASS/S/LAO		Development projects (Dyke)	60-70	50.00	Northern part of the PA	Degradation, Poor regeneration, Changes in habitat/vegetation/forest type	Grassland degradation		
29	ASS/S/NAMB	37	Grazing				Detailed surveys which are yet to			
30	ASS/S/PAN	33.93	Floods		33.93		Extinction and changes in habitat/vegetation/forest types			
	ASS/S/PAN		Grazing		33.93		Extinction and changes in habitat/vegetation/forest types			
31	ASS/S/POB	16	Tree felling	Every year	16.00	Entire sanctuary	Degradation, Poor regeneration	Ekra	Phragmites kakra	
	ASS/S/POB		Grazing	Every year	6.80	Pagladova, Noltol Tamulidova	Growth stunted	All grass species		
	ASS/S/POB		Sangai Project		1.00	Jugdol	Propagation of hardy species	All grass species		
32	ASS/S/SON	220	Habitation	1996	5.90	Central range	Degradation	Bonsum (Phoebagod parensis)		
	ASS/S/SON		Tree felling	1996	5.90		Degradation	Amari (Amoorawalia hii)		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
24	ASS/S/EKAR						
25	ASS/S/GAR						
26	ASS/S/GIB	Holock (T.Myriocarpa)	Sassi (A.Agolocha)				
27	ASS/S/KAR						
28	ASS/S/LAO	Ajar (Lagerstomia)	Simul (Bombex ceila)				
	ASS/S/LAO						
	ASS/S/LAO						
	ASS/S/LAO						
	ASS/S/LAO						
29	ASS/S/NAMB						
30	ASS/S/PAN						
	ASS/S/PAN						
31	ASS/S/POB						
	ASS/S/POB						
	ASS/S/POB						
32	ASS/S/SON						
	ASS/S/SON						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	ASS/S/SON		Cultivation	1997	5.90	Dhekiajuli range	Degradation	Gamari (Gmelina arobrea)	Bogipoma (C hikrcassia tabulariu	Titasopa (Mic heligchamd as)
33	BIH/S/RAJ	35.84	Pilgrimage		2.00	Rajgir	Degradation	Bel (Aegle marmelos)		
	BIH/S/RAJ		Grazing		30.00	Rajgir	Poor regeneration	Russ grass (cymbo pogon)	Spear grass (Hetero pogon)	
	BIH/S/RAJ		Fire		12.00	Rajgir	Degradation	All types of flora found in PA.		
34	CHT/N/IND	2799.086	Grazing	Annually	559.82	In the periphery of villages	Degradation of grasslands	All palatable grass species		
35	CHT/N/KAN	200	Cultivation	Since 1987	3.00	Both the ranges	Population decline, Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types, Proliferation of hardy species/ weeds	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
	CHT/N/KAN		Habitation	Since 1987	0.70	Both the ranges	Population decline, Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types, Proliferation of hardy species/ weeds	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
	CHT/N/KAN		NTFP Collection	Since a long time	40.00	Both the ranges	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
	CHT/N/KAN		Fire (Burning)	Since a long time	60.00	Both the ranges	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types, Proliferation of hardy species/ weeds	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	ASS/S/SON	Bhelu(Tetrameles nudiflora)					
33	BIH/S/RAJ						
	BIH/S/RAJ						
	BIH/S/RAJ						
34	CHT/N/IND						
35	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	CHT/N/KAN		Tree felling	Since a long time		Both the ranges	Degradation, Poor regeneration, Proliferation of hardy species/ weeds	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
	CHT/N/KAN		Bamboo and bamboo shoots cutting	Since a long time	20.00	Both the ranges	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
	CHT/N/KAN		Grazing	Since a long time	10.00	Both the ranges	Degradation, Poor regeneration, Proliferation of hardy species/ weeds	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
	CHT/N/KAN		Tourism	Since 1984		Both the ranges	Cave structure in the PA is being broken, blackened and scratched	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
	CHT/N/KAN		Fishing by tribals	Since a long time		Both the ranges	Degradation	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
	CHT/N/KAN		OTH (Fuelwood extraction)	Since a long time	30.00	Both the ranges	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types	Teak (Tectona grandis)	Sal (Shorea robusta)	Climbers
36	CHT/S/ACH	551.552	Habitation (22 forest villages)	Since before creation of the PA	300.00	All the three ranges	Poor regeneration of flora due to grazing of domestic livestock of villages in the PA	All floral species		
37	CHT/S/BAD	104.45	Habitation	Since before creation of the PA			1.00 sq km area has been encroached	Sal (Shorea robusta)		
	CHT/S/BAD		Cultivation	Since before creation of the PA			Sometimes trees are felled around agricultural fields to increase the area under cultivation.	Sal (Shorea robusta)		
	CHT/S/BAD		Felling	Since before creation of the PA			For extracting honey and catching parrots, Sal trees are cut by forest dwellers.	Sal (Shorea robusta)		
38	CHT/S/GOM	277.82	Felling	1980	210	Gomarda	Extinction for Sal and degrdada	Sal	Bamboo	
39	CHT/S/PAM	442.23	Grazing	Annual	132.67	Pamed		Various grasses, herbs and shrubs		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
	CHT/N/KAN	Bamboo	Bija (Pterocarpus marsupium)	Medicinal plants	Tubers	Herbs	Shrubs
36	CHT/S/ACH						
37	CHT/S/BAD						
	CHT/S/BAD						
	CHT/S/BAD						
38	CHT/S/GOM						
39	CHT/S/PAM						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
40	CHT/S/SIT	558.55	Fire (Burning)	Annual	0.35	Risgaon and Sitanadi Range	Changes in habitat/vegetation/forest types	Fallen dry leaves and grasses		
	CHT/S/SIT		Grazing	Annual	140.00	Risgaon and Sitanadi Range	Degradation	Grasses		
	CHT/S/SIT		Tree Felling	Annual	55.80	Risgaon and Sitanadi Range	Degradation	Species that are used for fuelwood		
41	CHT/S/TAM	608.527	Fire (Burning)	Since before the creation of the PA	210.00	Game Range Tamor Pingla	(I) Degradation (ii) Poor regeneration	Bans (Dendro calamus strictus)	Mahula (Bohinia vanlii)	Char (Buchanania lanzan)
	CHT/S/TAM		Grazing	Since before the creation of the PA	32.00	Game Range Tamor Pingla	(I) Degradation (ii) Poor regeneration	Bans (Dendro calamus strictus)	Mahula (Bohinia vanlii)	Char (Buchanania lanzan)
	CHT/S/TAM		NTFP collection	1990	593.00	Game Range Tamor Pingla	(I) Degradation (ii) Poor regeneration	Bans (Dendro calamus strictus)	Mahula (Bohinia vanlii)	Char (Buchanania lanzan)
42	CHT/S/UDA	237.27	NTFP collection	Annual	150.00	Udanti	Population decline of fruit bearing trees	Tendu		
43	DEL/S/ASO	27.81	Grazing	1986	10.00	Asola	Degradation and poor regeneration.	Dhak (Butea monosperma)	Dhonk (Anogeissus pendula)	Ronz (Acacia leucophloea)
	DEL/S/ASO		Mines	1986	4.00	Asola	Degradation and poor regeneration.	Dhak (Butea monosperma)	Dhonk (Anogeissus pendula)	Ronz (Acacia leucophloea)
	DEL/S/ASO		NTFP collection	1986	10.00	Asola	Degradation and poor regeneration.	Dhak (Butea monosperma)	Dhonk (Anogeissus pendula)	Ronz (Acacia leucophloea)
44	GOA/S/BON	7.95								
45	GOA/S/CHO	1.8	Tree felling	1991-93	0.10	Wildlife Range for Campal	Negligible	Chipi (Sonneratia alba)	Ippal (Avicennia marina)	

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
40	CHT/S/SIT						
	CHT/S/SIT						
	CHT/S/SIT						
41	CHT/S/TAM	Awala (Embica officinalis)	Harra (Terminalia chebula)				
	CHT/S/TAM	Awala (Embica officinalis)	Harra (Terminalia chebula)				
	CHT/S/TAM	Awala (Embica officinalis)	Harra (Terminalia chebula)				
42	CHT/S/UDA						
43	DEL/S/ASO	Desi Kikar (Acacia nilotica)	Ber (Zizyphus nunularia)				
	DEL/S/ASO	Desi Kikar (Acacia nilotica)	Ber (Zizyphus nunularia)				
	DEL/S/ASO	Desi Kikar (Acacia nilotica)	Ber (Zizyphus nunularia)				
44	GOA/S/BON						
45	GOA/S/CHO						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
46	GUJ/S/RAT	55.65	Drought	1986 to 1988, 2000-01	Whole area	Kanjeta range	Poor regeneration and degradation			
	GUJ/S/RAT		Fire	Every year	Part of the area	Kanjeta range	Poor regeneration and degradation			
	GUJ/S/RAT		NTFP collection	Every year	Part of the area	Kanjeta range	Poor regeneration and degradation			
	GUJ/S/RAT		Habitation	Every year	Part of the area		Poor regeneration and degradation			
47	GUJ/S/WIL	4953.71	Grazing, Salt farming, Drought	Drought occasional. Grazing and salt farming annual			Degradation	All grasses	Salvadora spp.	
48	HAR/S/BIRB	4.144	FEL	1999	6.00	Bir Bara Ban Jind	Population decline and poor regeneration	Eucalyptus		
49	HAR/S/CHIL	0.28	Cultivation and Felling around the PA		0.28		Poor regeneration & Changes in habitat/vegetation/forest types			
50	HAR/S/SAR	44.02	Grazing, Cultivation and Felling	1970	44.02	Entire block of wildlife sanctuary	Degradation, Poor regeneration & Changes in habitat/vegetation/forest types	Acacia Nilitica	Dalbergia Sisoo	
51	HP/N/GRE	905.4	Grazing, Habitation, NTF Collection, Cultivation, Tree felling	From posterity	905.40	Tirthan, Sainj and Jiwanal	Ecology and biodiversity of the area has been effected	Sesous(Capri cornis sumatraenei)	Monal(Lophophonus umpegenus)	Kaleej(Lophusa leucomdang)
52	HP/S/DAR	46.5857	Fire (Burning)	Annual	2.00	Dofda	Poor regeneration	Chir	Deodar	Baan oak
	HP/S/DAR		Grazing	Annual	3.00	Dofda	OTH (trampling of pastures), Poor regeneration	Chir	Deodar	Kail
53	HP/S/DHA	943.98	Fire (burning)	Annual	1.00	Bir and Keori beats	Degeradation, poor regeneration	Chir		
	HP/S/DHA		Grazing	Annual	350.00	Whole range	Degeradation, poor regeneration	Alpine and other grasses		
	HP/S/DHA		NTFP collection	Annual	70.00	North and North East of the range	Population declining, Degradation, Poor regeneration	Medicinal Herbs		
	HP/S/DHA		Tree felling	Annual	350.00	Southern part of the PA	Very few trees are felled. Therefore there is negligible impact	Deodar, Rai, Tosh and Kail		
54	HP/S/GAM	109	Landslide and erosion	Annual	0.03	Beer and Sangani beats	Loss of vegetation and habitat			
	HP/S/GAM		Grazing	Annual	30.00	Bhandal	Poor regeneration			

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
46	GUJ/S/RAT						
	GUJ/S/RAT						
	GUJ/S/RAT						
	GUJ/S/RAT						
47	GUJ/S/WIL						
48	HAR/S/BIRB						
49	HAR/S/CHIL						
50	HAR/S/SAR						
51	HP/N/GRE						
52	HP/S/DAR	Fir	Spruce				
	HP/S/DAR	Fir	All broad leaf species	All grasses			
53	HP/S/DHA						
	HP/S/DHA						
	HP/S/DHA						
	HP/S/DHA						
54	HP/S/GAM						
	HP/S/GAM						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
55	HP/S/KAL	69.47	Grazing (Traditional right)	Annual	2.00	Kalatop-Khajjiar	Degradation, poor regeneration	Grasses and Ban oak (Leaf and dry branches)		
	HP/S/KAL		Tree felling (Timber demand, Traditional right)	Annual	4.70	Kalatop-Khajjiar	None	Deodar		
	HP/S/KAL		OTH (Charcoal, Traditional right)	Annual	4.70	Kalatop-Khajjiar	General disturbance	Dry branches of Fir and Spruce		
56	HP/S/KHO									
57	HP/S/KUG	378.87	Grazing	Annual	340.98	Entire PA	Poor regeneration, OTH (Soil degradation).	Grasses and Ban, & Young shoots of Kail, Robinia, Deodar, Goon, Walnut etc.		
	HP/S/KUG		NTFP Collection	Annual	189.44	Mostly Hal & Heg Dhar & around Kugti village.	Negligible	Ban, Robinia, Kail, Karu, Patish, Mushkbala, Saalam panja, Saalam mishri, Dhup etc.		
	HP/S/KUG		Tourism & Pilgrimage	Annual	18.94	Along trek routes in the PA	OTH (Noise, disturbance and accumulation of solid wastes)	Some edible ferns (lungru) and other plants		
	HP/S/KUG		Tree felling (Timber demand)	Annual	2.00	Around Kugti village	Population decline, OTH (Noise and disturbance)	Kail and Deodar		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
55	HP/S/KAL						
	HP/S/KAL						
	HP/S/KAL						
56	HP/S/KHO						
57	HP/S/KUG						
	HP/S/KUG						
	HP/S/KUG						
	HP/S/KUG						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	HP/S/KUG		Development project (Road from Hadsar to Kugti)	Annual	0.50	From Hadsar to Kugti	Changes in habitat/ Vegetation/ Forest types, OTH (Soil erosion)	Kail and Grasses		
	HP/S/KUG		OTH (Glacier)	Annual	37.89	South and South East of the PA	Population decline, OTH (Land slips)	Kail and Deodar		
58	HP/S/LIP	30.89	Grazing	Annual		Sangla	Poor regeneration	Grasses		
	HP/S/LIP		NTFP Collection	Annual		Sangla	Poor regeneration	Medicinal Herbs		
59	HP/S/RUP	269.15	Fire	Annual	10.00	Rupi+Bhaba	Poor regeneration	Chil, Kail, Deodar, Ban, Fir, Spruce		
	HP/S/RUP		Grazing	Annual	100.00	Ruph+Bhaba	Poor regeneration, Changes in habitat/ vegetation/ forest types	Grasses and saplings of chil, deodar, kail and broad leaf species		
	HP/S/RUP		NTFP collection	Annual	90.00	Rupi+Bhaba	Population decline, Poor regeneration	Dhup, Karu, Patish, Panja etc.		
60	HP/S/SAN	650	Grazing	Annual	650.00	Sangla		Grasses		
	HP/S/SAN		NTFP collection	Annual	487.50	Sangla	Poor regeneration	Dhoop and Karu		
	HP/S/SAN		OTH (Fuel and fodder extraction)	Annual	325.00	Sangla	Poor regeneration due to lopping	Badcheri leaves, Bhojpatra, Maple for fodder and Deodar, Kail, Fir, Spruce and Bhojpatra for fuel		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	HP/S/KUG						
	HP/S/KUG						
58	HP/S/LIP						
	HP/S/LIP						
59	HP/S/RUP						
	HP/S/RUP						
	HP/S/RUP						
60	HP/S/SAN						
	HP/S/SAN						
	HP/S/SAN						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
61	HP/S/TUN	64	Grazing	Annual	57.60	Entire PA	Poor regeneration, OTH (Soil degradation).	Grasses and Ban, & Young shoots of Kail, Robinia, Deodar, Goon, Walnut etc.		
	HP/S/TUN		NTFP Collection	Annual	48.00	Entire PA	Negligible	Ban, Robinia, Kail, Karu, Patish, Mushkbala, Saalam panja, Saalam mishri, Dhup etc.		
	HP/S/TUN		Tourism and pilgrimage	Annual	0.10	All four beats	OTH (Noise, disturbance and accumulation of solid wastes)	Some edible ferns (lungru) and other plants		
	HP/S/TUN		Tree felling (Timber demand)	Annual	10.00	Tundah and Badgran beat	Population decline, OTH (Noise and disturbance)	Kail and Deodar		
	HP/S/TUN		Development project (Road from Hadsar to Kugti)	Annual	0.20	Badgran beat	Changes in habitat/ Vegetation/ Forest types, OTH (Soil erosion)	Kail and Grasses		
	HP/S/TUN		OTH (Glacier)	Annual	5.00	Banni and Bhadra beats	Population decline, OTH (Land slips)	Kail and Deodar		
62	J&K/N/HEM	3350	Erosion	Annual	5	Throughout the PA	Negligible	Grasses		
	J&K/N/HEM		Development activities	Annual	7	Throughout the PA	Negligible	Grasses		
	J&K/N/HEM		Grazing	Annual	50	Throughout the PA	Degradation	Grasses		
	J&K/N/HEM		Habitation and cultivation	Annual	536	Throughout the PA	Degradation, poor regeneration	Grasses		
	J&K/N/HEM		Mining	Seasonal	Negligible	Throughout the PA	Negligible			
	J&K/N/HEM		Tourism	Seasonal	20	Throughout the PA	Negligible			

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Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
61	HP/S/TUN						
	HP/S/TUN						
	HP/S/TUN						
	HP/S/TUN						
	HP/S/TUN						
	HP/S/TUN						
62	J&K/N/HEM						
	J&K/N/HEM						
	J&K/N/HEM						
	J&K/N/HEM						
	J&K/N/HEM						
	J&K/N/HEM						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
63	J&K/N/KIS	425	Auscus Indica (H.Chestnut)				In lower belt of Kishtwar and Sirchi ranges, locals, who are residing within the area of park lop the broad leaved species for fodder for domestic animals during winter months.			
64	J&K/S/CHA	4000	Floods and landslides	Annual	100	Nyoma, Chushul	Degradation, poor regeneration	Caragana ver		
	J&K/S/CHA		Grazing	Annual	2000	Nyoma, Chushul	Degradation, poor regeneration	Myricaria spp.	Artemesia spp	Carex tibetina
65	J&K/S/KAR	5000	Erosion	Annual	5	Nubra	Degradation	Grasses		
	J&K/S/KAR		Development activities (roads)	Annual	335	Nubra	Degradation	Ephedra spp.		
	J&K/S/KAR		Habitation and cultivation	Annual	750	Nubra	Population decline, degradation	Grass species		
	J&K/S/KAR		Felling	Annual	50	Nubra	Degradation	Salix, poplars		
	J&K/S/KAR		Tourism	Annual	2000	Nubra	Not known			
	J&K/S/KAR		Grazing	Annual	3000	Nubra	Population decline, degradation			
	J&K/S/KAR		Others (army)	Annual	1000	Nubra	Population decline, degradation			
66	JHA/S/HAZ	186.255	Tree felling	Annual	186.26	Entire PA	Degradation, Poor regeneration, Changes in habitat/ vegetation/ forest types	All except weeds		
	JHA/S/HAZ		Cultivation, Grazing, Habitation, Mines/quarries, NTFP collection, Fire (Burning)	Annual	186.26	Entire PA	Degradation, Changes in habitat/ vegetation/ forest types, Proliferation of hardy species/weeds	All except weeds		
67	KAR/N/ANS	250	Pigirimage		0.18		Population decline	Adchari (Memecylon Edule)		
68	KAR/N/BAND	880.02					Ground fire is the only problem. This is helpful to get good grass in patches. No damage to the trees.			
69	KAR/N/BANN	104.27	Habitation	1970	20	Harohally, Project	Population decline	Termenalia to	Honne (Pt. Ma	Hunse
	KAR/N/BANN		Grazing	Persists	20	Along the fringes	Population decline	Bamboo (Den	Beru (Aza. inc	
	KAR/N/BANN		Fire	Accidental	5	In patches	Poor regeneration			
	KAR/N/BANN		Tree felling	Common		in the fringes	Population decline	Mathi	Honne	Dindiga
	KAR/N/BANN		Mines	1980	10	Banerghattat Kalkore RF	Population decline	All species		
70	KAR/N/KUD	600.324	Not affected so far							

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
63	J&K/N/KIS						
64	J&K/S/CHA						
	J&K/S/CHA						
65	J&K/S/KAR						
	J&K/S/KAR						
	J&K/S/KAR						
	J&K/S/KAR						
	J&K/S/KAR						
	J&K/S/KAR						
	J&K/S/KAR						
	J&K/S/KAR						
66	JHA/S/HAZ						
	JHA/S/HAZ						
67	KAR/N/ANS						
68	KAR/N/BAND						
69	KAR/N/BANN	Ta. Indica	Srigandha (S)	Other spp.			
	KAR/N/BANN						
	KAR/N/BANN						
	KAR/N/BANN	Abe	Jalan				
	KAR/N/BANN						
70	KAR/N/KUD						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
71	KAR/S/ARA	13.5	Grazing, Tree felling, Fire	Every year	4 to 5	Arabitittu Sanctuary	Degradation, Proliferation of hardy species/weeds	Honne (Pterocarpus Morsapian)	Mathi (Terminalia Tomentosa)	Sandal (Santalum Album)
72	KAR/S/ATT	2.226								
73	KAR/S/BIL	540	Erosion	Every year	Fringe	All ranges				
	KAR/S/BIL		Dam	1980's	Fringe	All ranges				
	KAR/S/BIL		Fire	Every year	Whole	All ranges				
	KAR/S/BIL		Grazing	Every year	Fringe	All ranges		Shola spp.		
	KAR/S/BIL		Mines	Every year	Fringe	All ranges				
	KAR/S/BIL		NTFP collection	Every year	Whole	All ranges	Decline in regeneration	Phyllanthus er		
	KAR/S/BIL		Pilgrimage	Every year	One place	All ranges				
74	KAR/S/GUD	0.7368	Human Activity	1997		Gudava Birds Sanctuary	Loss of breeding sites	Beete	1	
75	KAR/S/MEL	49.82	Grazing, Fire, Tree felling	Occasional	10.00	Fringes of the Sanctuary	Poor regeneration and degradation	Jalari - Shorea Talura	Honne - Pterocarpus Marsupium	Dindal - Anogeissus latifolia
76	KAR/S/MOO	247	Habitation		125.00	Kundapur wildlife Sanctuary	Population decline, Degradation, Poor regeneration			
77	KAR/S/NUG	30.32	Grazing, Tree felling, Fire	Occasional	2.00	Nugu Wildlife Sanctuary	Reduction in the tree population	Satinwood-Chloroxylon Switenia	Sandal - Santalum Album	Honne - Pterocarpus marsupium
78	KAR/S/SHA	431.23	Extraction of trees, Building of Sharavathi Reservoir and dam	1963	123.63	Kargal, Kogar	About 61500 Nos. affected	Extraction of	Nandi	Matti
	KAR/S/SHA		Sharavathi Hydro Project	1963	123.03	Kargal, kogar		Matti-Terminalia paniculata	Nandi - Lagerstomia lanceolata	Mavu-Mangifera indica
79	KAR/S/SHE	395.6	Dam		8.00	Sacrebyle	Extraction of timber before construction of Dam	Teak - Tactona grandis	Beete - Dalbergia latifolia	Nandi - Lagerstroemia lanceolata

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
71	KAR/S/ARA						
72	KAR/S/ATT						
73	KAR/S/BIL						
	KAR/S/BIL						
	KAR/S/BIL						
	KAR/S/BIL						
	KAR/S/BIL						
	KAR/S/BIL						
	KAR/S/BIL						
74	KAR/S/GUD						
75	KAR/S/MEL	Cycus	Hunal - Terminalia Paniculata	Neralu - Syzygium Cumini			
76	KAR/S/MOO						
77	KAR/S/NUG						
78	KAR/S/SHA	Yethiga	Beete	Hebbalasu	Nerale	Honne	Kavale, Kone, Jambe, Gurgi, Boorga
	KAR/S/SHA	Honne - Pterocarpus marsupium	Beete - Dalbergia latifolia	Dhuma - Dipterocarpus indica	Kiralbagi(Hop ea parviflora), Gulmavu (Machilus), Surhonne (Calophyllum tomentosum)		
79	KAR/S/SHE	Jambe - Xylia xylocarpa	Bamboo - Bambusa arundinacea				

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
80	KER/N/ERA	100	Fire (Burning) according to the WII Study	Annual			Changes in habitat/vegetation/forest types			
	KER/N/ERA		NTFP Collection according to the WII Study	Annual			Population decline	Medicinal Herbs		
81	KER/S/ARA	55	Drought, erosion, habitation	1984 onwards	16	Aralam	Population decline, degradation	Ficus (Ficus re	Litsea (Litsea	Mala elengi (
82	KER/S/CHIN	90.442	Pilgrims	Annual	30.00	Chinnar	Degradation	All species		
83	KER/S/WAY	344.44	Drought	1989	344.44	Entire PA	Poor regeneration, Proliferation of hardy species/ weeds, Degradation	Legoerstroe mia spp., grevia tilaefolia, Terminalia tomentosa		
	KER/S/WAY		Grazing	All years	344.44	Entire PA	Poor regeneration, Proliferation of hardy species/ weeds, Changes in habitat/ vegetation/ forest types	All flora		
	KER/S/WAY		NTFP Collection	All years	344.44	Entire PA	Population decline, Degradation, Poor regeneration	Sida cordifolia, Solanum spp., Emblica officialis		
84	MAH/N/AND	625.4	Fire(Burning)	Every year	290.00	Kolsa,Moharli,Tadoba	Population decline & changes in habitat	Common floral species		
	MAH/N/AND		Tree felling	Every year	100.00	Kolsa,Moharli,Tadoba	Population decline& change in habitat	Teak(Tecton a grandis)	Bamboo(Den drocalamus strictus)	
85	MAH/N/NAV	133.884	Tourism	Since establishment of the P.A.	133.88	All area	Degradation & poor regeneration	All species		
	MAH/N/NAV		Fire	Since establishment of the P.A.	133.88	All area	Degradation & poor regeneration	All species		
	MAH/N/NAV		Grazing	Since establishment of the P.A.	133.88	All area	Degradation & poor regeneration	All species		
	MAH/N/NAV		Non Timber Forest Produce collection	Since establishment of the P.A.	133.88	All area	Degradation & poor regeneration	All species		
	MAH/N/NAV		Felling	Since establishment of the P.A.	133.88	All area	Degradation & poor regeneration	All species		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
80	KER/N/ERA						
	KER/N/ERA						
81	KER/S/ARA	Thanni (Terminalia)	Poovam (Schleichera	Ficus (Ficus badam)	Njaval (Zyzipium)	Nank (Mesua)	Chorapine (Myrsine)
82	KER/S/CHIN						
83	KER/S/WAY						
	KER/S/WAY						
	KER/S/WAY						
84	MAH/N/AND						
	MAH/N/AND						
85	MAH/N/NAV						
	MAH/N/NAV						
	MAH/N/NAV						
	MAH/N/NAV						
	MAH/N/NAV						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
86	MAH/N/PEN	257.26	Human activity				All floral species affected			
	MAH/N/PEN		Traffic				All floral species affected			
	MAH/N/PEN		Grazing				All floral species affected			
	MAH/N/PEN		Illegal encroachment at totuladoh				All floral species affected			
	MAH/N/PEN		Illegal fishing				All floral species affected			
	MAH/N/PEN		Hydroelectrical project at totuladoh				All floral species affected			
87	MAH/N/SAN	103.09	Encroachments							
	MAH/N/SAN		Tourism							
	MAH/N/SAN		Grazing							
	MAH/N/SAN		Mines/Quarries							
88	MAH/S/AMB	127.11	Fire	All previous years	2.00	Sonala	Poor regeneration & proliferation of hardy species/weeds	Teak	Dhawda	Bamboo
	MAH/S/AMB		Grazing	All previous year	N.A.	Sonala				
	MAH/S/AMB		Cultivation	1998	0.32	Sonala	Changes in habitat/vegetation/forest types	Open land		
89	MAH/S/ANE	82.94	Grazing		82.94		Degradation, Poor regeneration, Proliferation of hardy species/weeds	Anjan(Hardwicia binnta)		
	MAH/S/ANE		Fire (Burning)		82.94		Degradation, Poor regeneration, Proliferation of hardy species/weeds	Salai(Boswellia seratta)		
	MAH/S/ANE		Tree felling		82.94		Degradation, Poor regeneration, Proliferation of hardy species/weeds	Sag(Tectona grandis)		
	MAH/S/ANE		Habitation		82.94		Degradation, Poor regeneration, Proliferation of hardy species/weeds	Dhawda		
	MAH/S/ANE		Cultivation		82.94		Degradation, Poor regeneration, Proliferation of hardy species/weeds			
90	MAH/S/BHI	130.78	Development	1964-65 to 1977	0.13	Bhimashankar 1	Proliferation of hardy species/we	Information no		
	MAH/S/BHI		Landslides	1994	0.09	Bhimashankar 1 and 2	Proliferation of hardy species/we	Information no		
	MAH/S/BHI		Dam	1979 to 1984	0.32	Bhimashankar 2	Change in habitat.	Information no		
91	MAH/S/CHAN	308.97	Rehabilitation of villages out side	1997-98	60%	North of Nandoli to Chandel vill	Floral population increased. Re			

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
86	MAH/N/PEN						
	MAH/N/PEN						
	MAH/N/PEN						
	MAH/N/PEN						
	MAH/N/PEN						
	MAH/N/PEN						
87	MAH/N/SAN						
	MAH/N/SAN						
	MAH/N/SAN						
	MAH/N/SAN						
88	MAH/S/AMB						
	MAH/S/AMB						
	MAH/S/AMB						
89	MAH/S/ANE						
	MAH/S/ANE						
	MAH/S/ANE						
	MAH/S/ANE						
	MAH/S/ANE						
90	MAH/S/BHI						
	MAH/S/BHI						
	MAH/S/BHI						
91	MAH/S/CHAN						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
92	MAH/S/CHAP	133.23	Fire(Burning)	1999	4.00	Chaudampalli	Degradation	Unknown		
	MAH/S/CHAP		Grazing	1999	20.44	Chaudampalli	Degradation	Unknown		
	MAH/S/CHAP		Non Timber Forest Produce collection	1999	30.00	Chaudampalli	Poor regeneration	Unknown		
	MAH/S/CHAP		Pilgrimage	1999	0.01	Chaudampalli	Unknown	Unknown		
93	MAH/S/DEU	2.17								
94	MAH/S/GAU	260	Grazing	1999	9.00	All three ranges	Degradation	Teak		Chandan
	MAH/S/GAU		Fire	1999	9.00	All three ranges	Degradation	Teak		Chandan
95	MAH/S/GRE	8496.41								
96	MAH/S/GYA	203.56	Fire	Every year	1.00	Buldhana & Khamgaon	Degradation of grass species.	Grass species		
97	MAH/S/JAI	341.05	Not known but might affect aquatic flora							
98	MAH/S/KAL	361.71	GRZ,HAB,NTFP,DAM				Degradation, Poor regeneration & proliferation of hardy species			
99	MAH/S/KAR	4.27	Tree felling	Every year			Natural regeneration is affected			
	MAH/S/KAR		Tourism	Every year			Natural regeneration is affected			
100	MAH/S/KAT	73.69	Grazing	Since establishment of the P.A.	51.58	Akola	Population decline & Poor regeneration	All		
	MAH/S/KAT		Fire wood Collection	Since establishment of the P.A.	58.95	Akola	Population decline & poor regeneration	All		
	MAH/S/KAT		Non Timber Forest Produce collection	Since establishment of the P.A.	55.26	Akola	Population decline and poor regeneration	All		
	MAH/S/KAT		Forest fire	Since establishment of the P.A.	14.73	Akola	Population decline & Poor regeneration	All		
101	MAH/S/MAY	5.145								
102	MAH/S/NAG	152.81	Tourism	Since establishment of the P.A.	152.81	Nagzira(All)	Degradation and poor regeneration			
	MAH/S/NAG		Fire	Since establishment of the P.A.	152.81	Nagzira(All)	Degradation and poor regeneration			
	MAH/S/NAG		Grazing	Since establishment of the P.A.	152.81	Nagzira(All)	Degradation and poor regeneration			
	MAH/S/NAG		Non Timber Forest Produce collection	Since establishment of the P.A.	152.81	Nagzira(All)	Degradation and poor regeneration			

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
92	MAH/S/CHAP						
	MAH/S/CHAP						
	MAH/S/CHAP						
	MAH/S/CHAP						
93	MAH/S/DEU						
94	MAH/S/GAU		Dhauda				
	MAH/S/GAU		Dhauda				
95	MAH/S/GRE						
96	MAH/S/GYA						
97	MAH/S/JAI						
98	MAH/S/KAL						
99	MAH/S/KAR						
	MAH/S/KAR						
100	MAH/S/KAT						
	MAH/S/KAT						
	MAH/S/KAT						
	MAH/S/KAT						
101	MAH/S/MAY						
102	MAH/S/NAG						
	MAH/S/NAG						
	MAH/S/NAG						
	MAH/S/NAG						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	MAH/S/NAG		Felling	Since establishment of the P.A.	152.81	Nagzira(All)	Degradation and poor regeneration			
103	MAH/S/NAI	29.9	Grazing,NTFP	Since long	10.00	Beed	Degradation& poor regeneration			
104	MAH/S/PAI	324.64	Fire		324.64	All	Grass regeneration is restricted &Teak gets burnt.	Teak	Grass	
105	MAH/S/SAG	10.87	Drought	Every year	10.87	Whole protected area	Degradation & Poor regeneration	All species		
	MAH/S/SAG		Fire(Burning)	Every year	10.87	Whole protected area	Degradation	All species		
	MAH/S/SAG		Development projects	1984	10.87	Whole protected area	Degradation	All species		
	MAH/S/SAG		Tourism	Every year	10.87	Whole protected area	Degradation	All species		
	MAH/S/SAG		Pilgrimage	Every year	10.87	Whole protected area	Degradation	All species		
	MAH/S/SAG		Grazing	Every year	10.87	Whole protected area	Degradation	All species		
	MAH/S/SAG		Mines/Quarries	Every year	10.87	Whole protected area	Degradation	All species		
106	MAH/S/TIP	140.29	Fire(Burning)			Tipeshwar	Degradation	Grass sp.		
	MAH/S/TIP		Grazing			Tipeshwar	Degradation			
	MAH/S/TIP		Tree felling			Tipeshwar	Degradation			
107	MAH/S/YAW	177.52	Tree felling		177.52		Degradation	Sag(Tectona grandis)		
	MAH/S/YAW		Fire(Burning)		177.52		Poor regeneration	Anjan(Hardwicia binata)		
	MAH/S/YAW		Habitation		Few hectors		Population decline			
	MAH/S/YAW		Non Timber Forest Produce collection		177.52		Proliferation of hardy species/weeds			
108	MAH/S/YED	22.37	Grazing	Since long	10.00	Yedshi	Degradation & Poor regeneration			
	MAH/S/YED		Non Timber Forest Produce collection	Since long	7.00	Yedshi	Degradation & poor regeneration			
109	MAN/N/KEI	40	Dam	1983 onwards	26.00	Major area of park	Poor regeneration, changes in habitat/vegetation/forest types	Ishing kambong (Zizania latifolia)	Khoimum (Saccharum munja)	Singnang (Eiranthus procerus)
110	MAN/S/YAN	184.4								
111	MIZ/N/MUR	200	Habitation, fire, cultivation, felling, NTFP collection	Annual	150.00	North Khawbung	Degradation & Proliferation of hardy species/weeds	Cane	Orchids	Oaks
112	MIZ/N/PHA	50	Landslides	1995	1.00	Phawngpui	Negligible impact	Quercus		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	MAH/S/NAG						
103	MAH/S/NAI						
104	MAH/S/PAI						
105	MAH/S/SAG						
	MAH/S/SAG						
	MAH/S/SAG						
	MAH/S/SAG						
	MAH/S/SAG						
	MAH/S/SAG						
	MAH/S/SAG						
106	MAH/S/TIP						
	MAH/S/TIP						
	MAH/S/TIP						
107	MAH/S/YAW						
	MAH/S/YAW						
	MAH/S/YAW						
	MAH/S/YAW						
108	MAH/S/YED						
	MAH/S/YED						
109	MAN/N/KEI	Tou (Phragmites karka)	Tingthou (Cyn	Thambal (Nelumbo mucifera)			
110	MAN/S/YAN						
111	MIZ/N/MUR	Betula	Terminalia	Micalia	Toona		
112	MIZ/N/PHA						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	MIZ/N/PHA		Fire	Every 3 years (parallel to t	1.00	Phawngpui	Poor regeneration	Quercus	Rhododendr on	Grasses
	MIZ/N/PHA		NTFP collection	Annual	17.00	Phawngpui	Poor regeneration	Blue vanda	Pitcher plant	Lady's slipper orchid
	MIZ/S/DAM	500	Fire	1990	300.00	Both ranges		Bamboo (Mellocana bambusidea)		
	MIZ/S/KHA	41	Fire	Annual	70.00	Rawpui	Poor regeneration, changes in habitat/Vegetation/Forest types & Proliferation of hardy	Bamboo	Calicarpa spp.	Shima wallichii
113	MIZ/S/KHA		Cultivation (Jhum)	Every 5 years (parallel to t	0.35	Rawpui	Poor regeneration, changes in habitat/Vegetation/Forest types & Proliferation of hardy	Bamboo	Calicarpa spp.	Shima wallichii
114	MIZ/S/LEN	120	Fire	Annual	36.00	Ranges not yet demarcated	Not known			
	MIZ/S/LEN		Cultivation	Annual	20.00	Ranges not yet demarcated	Not known			
	MIZ/S/LEN		Felling	Annual	5.00	Ranges not yet demarcated	Not known			
	MIZ/S/NGE	110	None							
115	MP/N/BAN		NTFP collection, collection of	Every year	500.00	Magadhi, Kallawah, Khitauli,	Lopping and felling of trees.	Tendu (Diospyres melanoxyton)		
		1161.471	Tendu leaves			Panpatha				
116	MP/N/PEN		Dam	1990	54.51	Karmajhiri and Gumtara.	Change in habitat/vegetation/forest types, proliferation of hardly species/weeds.	Teak (Tectona grandis)	Garari (Clistenthus collinus)	Saja (Terminalia tomentosa)
		292.857								
	MP/N/PEN		Relocation of villages.	1992 and 1994		Karmajhiri and Gumtara.	Proliferation of hardy species/weeds. Meadows coming up in areas from where the villages have been relocated.			
117	MP/N/SAT		Erosion	1981	400.00	Kamti and Pachmarhi.	Degradation and poor regeneration.	All floral species found in the PA		
		524.37								

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	MIZ/N/PHA						
	MIZ/N/PHA						
	MIZ/S/DAM						
	MIZ/S/KHA	Aporvsa spp					
113	MIZ/S/KHA	Aporvsa spp					
114	MIZ/S/LEN						
	MIZ/S/LEN						
	MIZ/S/LEN						
	MIZ/S/NGE						
115	MP/N/BAN						
116	MP/N/PEN	Koha (Terminalia arjuna)					
	MP/N/PEN						
117	MP/N/SAT						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	MP/N/SAT		Grazing	Every year	30.00	Kamti and Pachmarhi.	Poor regeneration.	All floral species found in the PA		
	MP/N/SAT		Tourism	Every year	35.00	Pachmarhi	Degradation, poor regeneration and Air pollution.	All floral species found in the PA		
	MP/N/SAT		Pilgrimage	Every year	35.00	Pachmarhi	Degradation, poor regeneration and water pollution.	All floral species found in the PA		
118	MP/S/GAN	368.62	Grazing	Before formation of sanctuary	250.00	Gandhi Sagar	Species decline in numbers. Density of forest decline.	Khair (Acacia catechu)		
	MP/S/GAN		NTFP collection	Before formation of sanctuary	100.00	Gandhi Sagar	Forest density has decreased and species number reduced.	Amla (Embalica officinilis)	Dhawra gum	
	MP/S/GAN		Tree felling	Before formation of sanctuary	50.00	Gandhi Sagar	Forest density adjoining villages has decreased.	Fuelwood species		
119	MP/S/NAR	57.197	Fire (Burning)	Yearly	5.00	Andhiyar khon, Chande khon, Dherwale'B'	Extinction, degradation, poor regeneration, changes in habitat/vegetation/forest types, proliferation of hardy species/weeds.	All floral species found in the PA		
	MP/S/NAR		Cultivation	Before 24/10/80	1.56	Scattered in whole PA.	Extinction, degradation, poor regeneration, changes in habitat/vegetation/forest types.	All floral species found in the PA		
	MP/S/NAR		Habitation		10.00	Chainpura, Devgarh Gandhigram and surrounding villages.	Extinction, disease, degradation, poor regeneration.	All floral species found in the PA		
	MP/S/NAR		Tree felling	Yearly	5.00	Ladha khon, Dhawale, Kharcha khon.	Extinction, degradation, poor regeneration, proliferation of hardy species/weeds.	All floral species found in the PA		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	MP/N/SAT						
	MP/N/SAT						
	MP/N/SAT						
118	MP/S/GAN						
	MP/S/GAN						
	MP/S/GAN						
119	MP/S/NAR						
	MP/S/NAR						
	MP/S/NAR						
	MP/S/NAR						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	MP/S/NAR		Tourism	Yearly	3.00	Chidi khon, Jamun khon, Andhiyar khon.	Degradation and poor regeneration.	All floral species found in the PA		
	MP/S/NAR		Grazing	Yearly	20.00	In whole PA.	Extinction, degradation, poor regeneration, changes in habitat/vegetation/forest types.	All floral species found in the PA		
120	MP/S/NOR	1186.961	Fire (Burning)	Every year	1186.96	All range of the P.A.	Poor regeneration and changes in habitat/vegetation /forest types.	All species found in the P.A, specially herbs and grasses.		
	MP/S/NOR		Grazing	Every year	1186.96	All ranges of the P.A.	Poor regeneration and changes in habitat/vegetation /forest types.	All species found in the P.A, specially herbs and grasses.		
	MP/S/NOR		NTFP collection	Every Year	1186.96	All ranges of the P.A.	Poor regeneration and changes in habitat/vegetation /forest types.	All species found in the P.A, specially herbs and grasses.		
	MP/S/NOR		Others (Biotic pressure)	Every day	1186.96	All ranges of the P.A.	Poor regeneration and changes in habitat/vegetation /forest types.	All species found in the P.A, specially herbs and grasses.		
121	MP/S/ORC	44.9								
122	MP/S/SON	209.21								
123	NAG/N/INT	202.02	Village settlement	1993	15.54	Tourist zone	Loss of forest cover	Not assessed as yet		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	MP/S/NAR						
	MP/S/NAR						
120	MP/S/NOR						
	MP/S/NOR						
	MP/S/NOR						
	MP/S/NOR						
121	MP/S/ORC						
122	MP/S/SON						
123	NAG/N/INT						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
124	NAG/S/PUL	9.23	Landslide	Every year	0.23	Towards northern side of the PA	Degradation	Not assessed		
	NAG/S/PUL		Habitation	Every year	0.10	Towards Kohima town	Degradation	Not assessed		
	NAG/S/PUL		Grazing	Every year	0.20	Towards Kohima town		Not assessed		
	NAG/S/PUL		NTFP collection	Every year	0.50	Towards Kohima town		Not assessed		
	NAG/S/PUL		Tree felling	Every year	0.45	Towards Kohima town		Not assessed		
125	NAG/S/RAN	4.7	Village settlement	1992 onwards	2.35	Eastern portion of the PA	Changes in vegetation/forest types	Sal (Shorea robusta)	Teak (Tectona grandis)	Ajhar (Lagerstroemia flos-regina)
126	ORI/N+S/BHI	145	Grazing, OTH (illicit felling)	Annual		Kanika, Rajnagar and Chandba	Population decline, disease, deg	Bani (Avicenn	Sisumar (Xylo	
127	ORI/S/BAD	304.03	Fire	Every year	150.00	Badarama	Extinction, poor regeneration	Bandhan	Bija	Sisoo
	ORI/S/BAD		Grazing	Every year	150.00	Badarama	Poor regeneration	Grasses	Shrubs	
	ORI/S/BAD		Drought	Current year	304.03	Badarama	Poor regeneration	All		
	ORI/S/BAD		Tree felling (Illicit)	Every year	304.03	Badarama	Population Decline	Bija	Sisoo	
	ORI/S/BAD		NTFP collection	Every year	304.03	Badarama	Poor regeneration	Sal seeds	Amla	Bahera
128	ORI/S/BAI	168.35	Fire, Drought, Habitation, Illicit felling, Grazing	Not known		Not Known	Not known	Not known		
129	ORI/S/BAL	71.72	Cyclone	1999	36.00	Balukhand and Konark	Degradation and changes in habitat/Vegetation/Forest types.	Jhaun (Casuarina equisetifolia)		
130	ORI/S/CHA	193.39	Fire	Not available	90.00	Chandaka, Dompadu and Haldia Wildlife Range	Population decline and Proliferation of hardy species/weeds	Sal (Shorea robusta)	Teak(Tectom grandis)	
	ORI/S/CHA		Tree felling	Not available	35.00	All four ranges	Population decline and Proliferation of hardy species/weeds	Mai (Lannea coromandica)	Kasi(Bridelia retusa)	
	ORI/S/CHA		Habitation	Not available		Chandaka, Dimpada, Bhubaneswar Wildlife Range	Population decline and Proliferation of hardy species/weeds	Sidha (Lagerstroemia parviflora)	Kanta Bamboo(BambusaAru	

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
124	NAG/S/PUL						
	NAG/S/PUL						
	NAG/S/PUL						
	NAG/S/PUL						
	NAG/S/PUL						
125	NAG/S/RAN	Gamari (Gmelina arborea)	Bagjsome(Chi	Owtanga (Dilleni	Uriun (Bischofia	Bhelu (Tetram	Bohera (Ternt
126	ORI/N+S/BHI						
127	ORI/S/BAD						
	ORI/S/BAD						
	ORI/S/BAD						
	ORI/S/BAD						
	ORI/S/BAD	Harida	Char seeds	Kendu	Mahua		
128	ORI/S/BAI						
129	ORI/S/BAL						
130	ORI/S/CHA						
	ORI/S/CHA						
	ORI/S/CHA	ndinace					

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	ORI/S/CHA		Cyclone	1999	193.00	All four ranges	Population decline and Proliferation of hardy species/weeds	Kumbhi (Careya arborea)	Kangra (Xylia xylocarpa)	Jamun (Syzygium cumini)
131	ORI/S/DEB	346.9	Fire	Every year	69.38	Kamgaon and Lakhanpur Range	On ocular estimation, about 20% area is partially damaged as only the forest floor is affected and after rains everything looks green.			
	ORI/S/DEB		Erosion	Every year	40.00	Kamgaon and Lakhanpur Range				
132	ORI/S/HAD	191.6	Hadgarh Dam, Salandi Project, Hadgarh reservoir	1964-72	31.83		General disturbance			
	ORI/S/HAD		Fire	Prior to declaration of sanctuary	20.00	Compartment: 5,11,13,15,16 Palabani	General disturbance			
	ORI/S/HAD		Grazing	Prior to declaration of sanctuary	191.60	Compartment: 4,5,6,7,11,13,16	General disturbance			
	ORI/S/HAD		Habitation/encroachments	1965	15.00	Compartment: 1,2,6,13,14,15	General disturbance			
	ORI/S/HAD		Mines/quarries	1965	4.00	Compartment: 15,16	General disturbance			
	ORI/S/HAD		Tree felling	Way back, prior to first working plan	191.60	Entire PA	General disturbance			
133	ORI/S/KAR	147.66								
134	ORI/S/KHA	116	Fire	Every year	116.00	Entire PA	Population decline, Degradation and poor regeneration	All species		
	ORI/S/KHA		Tree felling	Every year	116.00		Population decline, Degradation, Poor regeneration, Changes in habitat/vegetation/forest type	Sal, Bamboo, Sisoo, Bija		
	ORI/S/KHA		NTFP collection	Every year	116.00	Entire PA	Population decline, Poor regeneration	Mahua	Sal seeds	Hauda
	ORI/S/KHA		Grazing	Every year	Around fringes of villages		Poor regeneration	Grass and shrubs		
135	ORI/S/KOT	399.5	Fire, Tree felling, Cultivation (Podu cultivation)		30.75	Belgarh Range	Population decline, Degradation and poor regeneration	Sal and Ibassouales.		
136	ORI/S/KUL	272.75	Growing of human population, c				Number drastically reduced.	Piasal (Pteroc	Sal (Shorea r	Sisoo (Dalbe

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	ORI/S/CHA	Nimba (Melica azadirachta)	Amba (Mangifera indica)	Asana (Terminalia tomentosa)	Dhawda (Anogeissus latifolia)	Chhatina (Alstonia scholaris)	Anla (Emblica officinalis)
131	ORI/S/DEB						
	ORI/S/DEB						
132	ORI/S/HAD						
	ORI/S/HAD						
	ORI/S/HAD						
	ORI/S/HAD						
	ORI/S/HAD						
	ORI/S/HAD						
133	ORI/S/KAR						
134	ORI/S/KHA						
	ORI/S/KHA						
	ORI/S/KHA	Baheea	Amla	Chor	V-endu, Leaf+ fruit, Siyali		
	ORI/S/KHA						
135	ORI/S/KOT						
136	ORI/S/KUL	Rimili (Protium s	Teak (Tectona				

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
137	ORI/S/LAK	174.958	Habitation, tree felling, shifting cultivation and smuggling of timber.							
138	ORI/S/SATN	795.52	Fire	Every year	100-150	All ranges	Succession is hampered, degradation	All species	Affected	
	ORI/S/SATN		Illicit felling	Every year	10	All ranges	Drastic decline population, decline	Teak (Tectona	Sal (Shorea ro	Piasal (Ptero
	ORI/S/SATN		Grazing	Every year	10	All ranges	Degradation, poor regeneration	All browsable		
	ORI/S/SATN		Habitation	Every year		All ranges	Degradation	All species		
	ORI/S/SATN		NTFP collection	Every year		All ranges	Succession hampered	All species as		
139	ORI/S/SATS	268.94	Fire, drought, habitation, illicit felling	Every year	Not known		They are usually found in the sa			
140	ORI/S/SIM	2200	Cultivation, grazing, collection of				Number drastically reduced.	Piasal (Pteroc	Sissoo (Dalbe	Orchids
141	PUN/S/ABO	186.05	Cultivation, grazing, fuelwood collection and fodder collection							
142	PUN/S/HAR	86	Grazing	Annual	50.00	Harike		Various grasses		
	PUN/S/HAR		Removal of grasses	Annual	50.00	Harike		Various grasses		
	PUN/S/HAR		Burning of grasses	Annual	5.00	Harike		Various grasses		
143	RAJ/N/KEO	28.73	Drought	2000-2001		Keoladeo	Population decline, changes in	Khus (Veteve		
144	RAJ/S/BAS	138.69	Dam, grazing, NTFP collection, t							
145	RAJ/S/BHA	195.015	Drought, erosion, dam, grazing, c							
			Fire.			Jamwa Ramgarh.	Changes in habitat/vegetation/forest types, Population decline.	Lamp grass(A.Lam p).		
146	RAJ/S/JAM	300		1998	0.16					
	RAJ/S/JAM		Grazing.		120.00	Jamwa Ramgarh.	Population decline, Poor regeneration, Changes in habitat/vegetation/forest.	Grasses('Gra mneae).	Dhok(A.Pen dula).	Kheigari(P. senera).
	RAJ/S/JAM		Habitation.		4.00	Jamwa Ramgarh.	Population decline, Degradation, Poor regeneration, Changes in habitat/Vegetation/forest types.	Dhok(Anogei sus pendula).	Bamboo(Den drocalamus strictus).	Khair(.Acaci a catechu).
	RAJ/S/JAM		Mines.		4.37	Jamwa Ramgarh.	Population decline, Degradation, Poor regeneration, Change in habitat/Vegetation/Forest types.	All species.		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
137	ORI/S/LAK						
138	ORI/S/SATN						
	ORI/S/SATN	Sissoo (Dalberg	Kurum (Adina				
	ORI/S/SATN						
	ORI/S/SATN						
	ORI/S/SATN						
139	ORI/S/SATS						
140	ORI/S/SIM						
141	PUN/S/ABO						
142	PUN/S/HAR						
	PUN/S/HAR						
	PUN/S/HAR						
143	RAJ/N/KEO						
144	RAJ/S/BAS						
145	RAJ/S/BHA						
146	RAJ/S/JAM						
	RAJ/S/JAM	Babool(Acacia nilotica).	Beri(Zizyphu s numuleria).				
	RAJ/S/JAM	Grass(Gramne ae).					
	RAJ/S/JAM						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	RAJ/S/JAM		Cultivation.			Jamwa Ramgarh.	Population decline, Degradation, Poor regeneration, Changes in habitat/vegetation/forest types.	All species.		
147	RAJ/S/KELA	672	Grazing	Prior to notification of the	600	All ranges	Degradation, poor regeneration,	All flowering s		
	RAJ/S/KELA		Felling (lopping)	Prior to notification of the	300	All ranges	Degradation	Dhok (Anogeis	Dhak (Butea r	Khejri (Prosop
	RAJ/S/KELA		Drought	1999-2000-2001	Entire area	All ranges	Degradation, poor regeneration,	All species		
	RAJ/S/KUM	608.56								
148	RAJ/S/NAH	52.4	Fire.	1995	0.00	Nahargarh (Garh ganesh).	Poor regeneration, Change in habitat/vegetation/forest type, Population decline.	Dhaman (San carus ciliaris).	Laple grasses (Aristide).	
	RAJ/S/NAH		Fire.	1996	0.07	Nahargarh (Kishan Bag.).	Poor regeneration, Change in habitat/vegetation/forest type, Population decline.	Dhaman (San carus ciliaris).	Laple grasses (Aristide).	
	RAJ/S/NAH		Fire.	1999	0.07	Nahargarh (Mylabagh).	Poor regeneration, change in habitat/vegetation/forest type, population decline.	Safeda leaves (Eucalyptus leaves).		
	RAJ/S/NAH		Encroachment.	Prior to 1980	0.55	Nahargarh (Kagdiwada Gurjarghati and cheepiwada).	Degradation, Population decline, poor regeneration, change in habitat/vegetation/forest types.	Dhonk (Anogeisus pendula).	Khair (Acacia catechu)	Bamboo (Dendrocalamus strictus)
149	RAJ/S/PHU	511.41	Fire, grazing, NTFP collection, tree	Regular events		Panarwa, Kotra, Mamer	Degradation, poor regeneration,	Safed musli		
	RAJ/S/PHU		Felling, habitation, cultivation	Regular events		Panarwa, Kotra, Mamer	Population decline, degradation	Shisham (Dal		
	RAJ/S/PHU		Grazing, cultivation	Regular events		Panarwa, Kotra, Mamer	Population decline, degradation	Brahmi (Cenb		
	RAJ/S/PHU		Tree felling	Regular events		Panarwa, Kotra, Mamer	Population decline, degradation	Khair (Acacia		
150	RAJ/S/SAJJ	5.19	Development activities							
	RAJ/S/SAJJ		Grazing							
	RAJ/S/SAJJ		Tourism							
151	RAJ/S/SIT	422.94	Dam	1964	10	Jakham, Badi-Sadari	Degradation	Teak (Tectona	Bamboo (Den	
	RAJ/S/SIT		Habitation				Degradation			
152	RAJ/S/TOD	495.27	Drought, tree felling, grazing and	Annual	Entire PA	All ranges	Extinction	Karaiya (Sterc		
	RAJ/S/TOD		Drought, tree felling, grazing and	Annual	Entire PA	All ranges	Degradation, population decline	Gugal (Comm		
	RAJ/S/TOD		Drought, tree felling, grazing and	Annual	Entire PA	All ranges	Degradation, poor regeneration,	Timru (Diospyr		
153	RAJ/S/VAN	25.6	Grazing	Since creation of the PA	Throughout	Entire PA	Degradation, poor regeneration	Dhok (Anogeis		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	RAJ/S/JAM						
147	RAJ/S/KELA						
	RAJ/S/KELA	Raunj (Accacia	Babool (Acca	Kunta (Acacia senegal)			
	RAJ/S/KELA						
	RAJ/S/KUM						
148	RAJ/S/NAH						
	RAJ/S/NAH						
	RAJ/S/NAH						
	RAJ/S/NAH	All other species(Grami nae family)					
149	RAJ/S/PHU						
	RAJ/S/PHU						
	RAJ/S/PHU						
	RAJ/S/PHU						
150	RAJ/S/SAJJ						
	RAJ/S/SAJJ						
	RAJ/S/SAJJ						
151	RAJ/S/SIT						
	RAJ/S/SIT						
152	RAJ/S/TOD						
	RAJ/S/TOD						
	RAJ/S/TOD						
153	RAJ/S/VAN						

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Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
154	RAJ/S/VAN		Mining	Since last 15 to 20 years	5% of the P	Entire PA	Degradation, poor regeneration	Dhok (Anogeios)		
	SIK/N/KHA	1784	Fire			Dzongri	Degradation, Changes in habitat/vegetation/forest	Champ (Michelia excelsa)		
	SIK/N/KHA		Grazing			Dzongri	Poor regeneration, Proliferation of hardy species/weeds	Okhor (Quercus spp.)		
	SIK/N/KHA		Cultivation			Isoka	Changes in habitat/vegetation/forest types	Silver fir (Abies densa)		
	SIK/N/KHA		Felling			Dzongri	Degradation, Poor regeneration, Population decline			
155	SIK/N/KHA		Tourism			Dzongri	Degradation			
	SIK/S/BAR	104	Grazing	Throughout the year		Barsey	Degradation			
	SIK/S/BAR		NTPP collection	Throughout the year		Barsey	Poor regeneration, changes in habitat/forest types			
156	SIK/S/FAM	51.76	Grazing	Customary right	Approximate	Fambong Lho	Degradation, poor regeneration.			
	SIK/S/FAM		NTPP collection (collection of Sirs		Less than 1	Fambong Lho	Degradation			
	SIK/S/FAM		NTPP collection (collection of fue			Fambong Lho	Degradation, poor regeneration.			
157	SIK/S/KYON	31	Grazing		8.00	Kyongnosla	Population decline, degradation, poor regeneration			
	SIK/S/KYON		Habitation			Kyongnosla	Population decline, degradation, poor regeneration			
	SIK/S/KYON		Felling			Kyongnosla	Population decline, degradation, poor regeneration			
158	SIK/S/MAE	35.34	Grazing	Annual		Maenam	Population decline, degradation			
	SIK/S/MAE		NTPP collection	Annual		Maenam	Degradation, poor regeneration.			
159	SIK/S/SHIN	43	Landslide		11.00		Population decline, degradation			
	SIK/S/SHIN		Erosion		15.00		Population decline, degradation, poor regeneration			

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Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
154	RAJ/S/VAN						
	SIK/N/KHA						
	SIK/N/KHA						
	SIK/N/KHA						
	SIK/N/KHA						
	SIK/N/KHA						
	SIK/N/KHA						
155	SIK/S/BAR						
	SIK/S/BAR						
156	SIK/S/FAM						
	SIK/S/FAM						
	SIK/S/FAM						
157	SIK/S/KYON						
	SIK/S/KYON						
	SIK/S/KYON						
158	SIK/S/MAE						
	SIK/S/MAE						
159	SIK/S/SHIN						
	SIK/S/SHIN						

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Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	SIK/S/SHIN		Grazing		11.00		Population decline, degradation, poor regeneration			
	SIK/S/SHIN		NTFP collection		11.00			Juniper		
	SIK/S/SHIN		Tourism		5.00		Pollution			
	SIK/S/SHIN		Development projects (Road)		4.00		Pollution			
160	TN/N/GUI	2.8194								
161	TN/N/GUL	6.2312	OTH-Fishing	Many year	6.23	Islands, All except Ramnad	Degradation, Population decline	Islands		
	TN/N/GUL		OTH-Collection of corals illegally	Not known	6.23	Islands, All except Ramnad	Degradation, Population decline			
162	TN/N/IND	958.57	Land development and cultivation by tribals			All areas surrounding the settlement	Fragmentation & break in Wildlife corridor	All species under growth		
	TN/N/IND		Lemongrass cultivation				Law and order problem			
	TN/N/IND		Grazing and penning				Loss of under cover and depletion of wild genes			
	TN/N/IND		Man made fire				Loss of micro flora and fauna			
163	TN/N/MUD	321	FIR	Years				Ground cane		
164	TN/S/CHI	0.4763	OTH-Water from tank is used for irrigation of nearby fields	Every year	0.48	All trees	Degradation, Poor regeneration			
165	TN/S/KAN	1.0421	Water from tank used for surrounding paddy fields	Every year		All	Degradation, Poor regeneration	All trees		
166	TN/S/KARI	0.6512	Nil							
167	TN/S/POIN	25								
168	TN/S/UDA	0.44	Nil							
169	TN/S/VAD	1.28	Nil							
170	TN/S/VALL	16.4121	Grazing/Cutting of fuel wood				Poor regeneration			
171	TN/S/VED	0.27	Nil							
172	TN/S/VELL	0.77185	Nil							
173	TN/S/VET	0.37948	OTH- Water from tanks used for irrigation to surrounding paddy fields	Every year	0.38	All	Degradation, Poor regeneration	All trees		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	SIK/S/SHIN						
	SIK/S/SHIN						
	SIK/S/SHIN						
	SIK/S/SHIN						
160	TN/N/GUI						
161	TN/N/GUL						
	TN/N/GUL						
162	TN/N/IND						
	TN/N/IND						
	TN/N/IND						
	TN/N/IND						
163	TN/N/MUD						
164	TN/S/CHI						
165	TN/S/KAN						
166	TN/S/KARI						
167	TN/S/POIN						
168	TN/S/UDA						
169	TN/S/VAD						
170	TN/S/VALL						
171	TN/S/VED						
172	TN/S/VELL						
173	TN/S/VET						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
174	TRI/S/GUM	389.59	Landslide	Since inception of the PA	389.59	Tirthmukh	Changes in habitat/vegetation/forest types	Bamboo(Melocama bambusoides)	Bahera(Terminalia)	Avda (Phyllanthus)
	TRI/S/GUM		Erosion	Since inception of the PA	389.59	Tirthmukh	Changes in habitat/vegetation/forest types			
	TRI/S/GUM		Grazing	Since inception of the PA		Tirthmukh	Proliferation of hardy species/weeds			
	TRI/S/GUM		Grazing				Extinction, Population declining			
	TRI/S/GUM		Felling				Extinction, Population declining, Disease			
175	TRI/S/TRI	194.704	NTFP collection	Throughout the year	40.00	Rajnagar, Abhoya, Rahgamura	Collection of Bamboo canes creates shortage of food for herbivorous animals.	Muli	Kailai	
176	UP/S/BAK	28.9421	Fishing and grass collection	Annual	Entire PA					
177	UP/S/CHA	96	Dam	1957 onwards		Chandraprabha	Extinction			
	UP/S/CHA		Grazing		30.00	Chandraprabha	Population decline			
	UP/S/CHA		Mining				Poor regeneration			
	UP/S/CHA		Dam	1957	Outside	Chandra Prabha	Extinction			
	UP/S/CHA		Grazing		30	Chandra Prabha	Population decline			
	UP/S/CHA		Mining		Outside	Chandra Prabha	Poor regeneration			
178	UP/S/KAC	7								
179	UP/S/KAI	501	Grazing	From the beginning of the	60% of the	All ranges	Habitat disturbance	Kardhai (Anogeissus)		
180	UP/S/KAT	400.09								
181	UP/S/LAK	80.24								
182	UP/S/MAH	5.42	Grazing	For the last 20 years.	2.4	Lalitpur	Poor regeneration, change in ha			
183	UP/S/NAT	635	Habitation	Before notification of the	635	Both ranges				
	UP/S/NAT		Grazing	Before notification of the	635	Both ranges				
	UP/S/NAT		Development activities (bridges c	Before notification of the		Both ranges				
	UP/S/NAT		Dam			Both ranges				
184	UP/S/NAW	2.246								
	UP/S/OKH	4	Dam	Before notification of the	3.5	Okhla Bird Sanctuary				
	UP/S/OKH		Floods	Before notification of the	3.75	Okhla Bird Sanctuary				
	UP/S/OKH		Tourism	Before notification of the	2.5	Okhla Bird Sanctuary				
	UP/S/OKH		Others	Before notification of the	1	Okhla Bird Sanctuary				
185	UP/S/PAR	10.8447								
186	UP/S/PAT	1.05								

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
174							
	TRI/S/GUM	Harr (T.chebula)	Koroi (Albizzia	Chamal (Artocar	Teak (Tectona	Gamar (Gamelina arborea)	
	TRI/S/GUM						
	TRI/S/GUM						
	TRI/S/GUM						
	TRI/S/GUM						
175							
	TRI/S/TRI						
176	UP/S/BAK						
177	UP/S/CHA						
	UP/S/CHA						
	UP/S/CHA						
	UP/S/CHA						
	UP/S/CHA						
	UP/S/CHA						
178	UP/S/KAC						
179	UP/S/KAI						
180	UP/S/KAT						
181	UP/S/LAK						
182	UP/S/MAH						
183	UP/S/NAT						
	UP/S/NAT						
	UP/S/NAT						
	UP/S/NAT						
184	UP/S/NAW						
	UP/S/OKH						
	UP/S/OKH						
	UP/S/OKH						
	UP/S/OKH						
185	UP/S/PAR						
186	UP/S/PAT						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
187	UP/S/RAN	220.41	Grazing	For the last 20 years.	60% of the	Manikpur (currently) and Markur	Habitat disturbance	Anogeissus p	Grass species	
188	UP/S/SAMN	5.26	Habitation	Before notification of the	5.2	Saman Bird Sanctuary				
	UP/S/SAMN		Grazing	Before notification of the	5.2	Saman Bird Sanctuary				
	UP/S/SAMN		Development Project	Before notification of the	5.2	Saman Bird Sanctuary				
	UP/S/SAMN		Floods	Before notification of the	5.2	Saman Bird Sanctuary				
	UP/S/SAMN		Cultivation	Before notification of the	5.2	Saman Bird Sanctuary				
189	UP/S/SAMS	7.99								
190	UP/S/SAN	2.246								
191	UP/S/SOH	428.2								
192	UP/S/SUH	452.472								
193	UP/S/SURA	34.329								
194	UP/S/SURS	7.13	Grazing	Before notification of the	2	Sur Sarovar Bird Sanctuary				
	UP/S/SURS		Pilgrimage	Before notification of the	0.5	Sur Sarovar Bird Sanctuary				
	UP/S/SURS		Tourism	Before notification of the	0.5	Sur Sarovar Bird Sanctuary				
195	UP/S/VIJ	2.62								
196	UTT/N/COR	520.824	Kalagarh Dam	1962-74	42.20	Kalagarh and tourist range	Habitat of prey species has been reduced due to the reservoir	Sal-Shorea robusta	Sisam (Dalbergia sissoo)	Khair (Acacia catechu)
197	UTT/N/GAN	2390.024	Tourism	Annual	4	Gangotri	Population decline, degradation	Brahma Kame		
	UTT/N/GAN		Pilgrimage	Annual	2	Gangotri	Population decline, degradation	Padmaksha, K		
	UTT/N/GAN		Development activities (roads)	Annual	60	Gangotri	Population decline, degradation	All trees, shrub		
	UTT/N/GAN		Grazing	Annual	50	Gangotri	Population decline, poor regene	Grasses		
	UTT/N/GAN		Tree felling	Annual	5	Gangotri		Deodar, Kail		
	UTT/N/GAN		Fire	Annual	Negligible	Gangotri	None	None		
	UTT/N/GAN		NTPP collection	Annual	350	Gangotri	Extinction, population decline, p	All medicinal p		
	UTT/N/GAN		Others (hunting)	Annual	350	Gangotri	None	None		
	UTT/N/GAN		Others (army camps)	Annual	30	Gangotri	Population decline, degradation	Trees, Alpine		
	UTT/N/GAN		Others (Avalanches)	Annual	30	Gangotri	Degradation, poor regeneration,			
198	UTT/N+S/GOV	957.969	Grazing	Annual	250	All ranges	Degradation, poor regeneration	Grasses, Grer		
	UTT/N+S/GOV		NTPP collection	Annual	50	All ranges	Degradation and poor regenera	Oaks, grasses		
	UTT/N+S/GOV		Tree felling	Annual	25	All ranges	Degradation	Kail		
	UTT/N+S/GOV		Habitation	Annual	5	All ranges	Degradation			
	UTT/N+S/GOV		Cultivation	Annual	34	All ranges	Degradation, poor regeneration,			
	UTT/N+S/GOV		Floods	2000	500	All ranges				
	UTT/N+S/GOV		Erosion	Annual	10	All ranges	Population decline	Chir, Kail		
	UTT/N+S/GOV		Tourism	Annual	10	Sankari				
	UTT/N+S/GOV		Development activities (roads)	Annual	5	All ranges	Little or no impact.	Chir, Kail, Dec		
199	UTT/S/ASK	599.93	Land slides	Annual	30	Askot, Dharchula	Degradation, others (certain flora)			

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
187	UP/S/RAN						
188	UP/S/SAMN						
	UP/S/SAMN						
	UP/S/SAMN						
	UP/S/SAMN						
	UP/S/SAMN						
189	UP/S/SAMS						
190	UP/S/SAN						
191	UP/S/SOH						
192	UP/S/SUH						
193	UP/S/SURA						
194	UP/S/SURS						
	UP/S/SURS						
	UP/S/SURS						
195	UP/S/VIJ						
196		Sadan (Ougania ootuneusis)	Samal (Bomb	Tun (Toona cilia	Harar (Termina	Bahera (Termi	Siras-Alluzzia c
	UTT/N/COR						
197	UTT/N/GAN						
	UTT/N/GAN						
	UTT/N/GAN						
	UTT/N/GAN						
	UTT/N/GAN						
	UTT/N/GAN						
	UTT/N/GAN						
	UTT/N/GAN						
	UTT/N/GAN						
	UTT/N/GAN						
198	UTT/N+S/GOV						
	UTT/N+S/GOV						
	UTT/N+S/GOV						
	UTT/N+S/GOV						
	UTT/N+S/GOV						
	UTT/N+S/GOV						
	UTT/N+S/GOV						
	UTT/N+S/GOV						
	UTT/N+S/GOV						
199	UTT/S/ASK						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	UTT/S/ASK		Erosion	Annual	Unknown	Askot, Dharchula	Degradation, others (certain flora)			
	UTT/S/ASK		Dam	1995	1.862	Dharchula	Degradation, poor regeneration			
	UTT/S/ASK		Development activities (micro hydropower)	1985	0.056966	Dharchula	Others (loss of forest area)			
	UTT/S/ASK		Fire	Annual	Approximate	Entire Askot is at risk	Population decline, degradation	Pine		
	UTT/S/ASK		Grazing	Annual		Askot, Dharchula	Degradation, poor regeneration			
	UTT/S/ASK		Habitation	Annual		Askot, Dharchula	Degradation, poor regeneration	Grasses		
	UTT/S/ASK		Mining	Since 1990	0.4	Askot, Dharchula	Poor regeneration, others (genetic resources)			
	UTT/S/ASK		NTFP collection	Annual	453	Askot, Dharchula	Population decline, degradation			
	UTT/S/ASK		Tourism	Annual	Negligible	Askot, Dharchula	Unknown	Unknown		
	UTT/S/ASK		Pilgrimage	Annual	2		Degradation, poor regeneration			
	UTT/S/ASK		Cultivation	Annual		Askot, Dharchula				
	UTT/S/ASK		Development activities (roads)	Annual	120	Askot, Dharchula	Degradation, poor regeneration			
200	UTT/S/BIN	47.07	Fire	1999	7.00	Binsar (pine forest)	Degradation	Pine		
	UTT/S/BIN		Dam	1992-94, 1996-98		Binsar (streams and nallas)	Others-Growth of <i>Alvius nadida</i> in river beds and upstream of check dams.			
	UTT/S/BIN		Grazing		4.70	Binsar (Mix forest)	Others-Soil erosion, poor regeneration due to grazing	Pine, mainly		
	UTT/S/BIN		NTFP collection	Throughout the year	15.00	Binsar	Negligible, as only dead wood & some fruits are extracted.			
	UTT/S/BIN		Cultivation, habitation	Throughout the year		Binsar				
201	UTT/S/BINO	3.3874								
202	UTT/S/SON	301.1	Dam (Ramganga reservoir)	1962-74	4.23	Palain, Maidavan, Adnala	Local extinction	Sal	Sheesam	Khair
	UTT/S/SON		Grazing				Population decline and poor regeneration			
	UTT/S/SON		Habitation	Since 1950s		Sonanadi	Degradation, poor regeneration			
	UTT/S/SON		Cultivation							
	UTT/S/SON		NTFP collection							
203	WB/N/GOR	79.45	Nil							
204	WB/N/NEO	88								
205	WB/N/SUN	2585	Floods	Every year	2585.00	Mainly sea face	Ecosystem is damage	Keora (<i>Sonneratia apetala</i>)		
	WB/N/SUN		Cyclone	Every year	2585.00	Mainly sea face	Eco-system is damages	Sundari (<i>Heritiera fomes</i>)		
	WB/N/SUN		Erosion	Every year	2585.00	Mainly sea face		Bhola (<i>Hibiscus</i>)		

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
	UTT/S/ASK						
200	UTT/S/BIN						
	UTT/S/BIN						
	UTT/S/BIN						
	UTT/S/BIN						
	UTT/S/BIN						
201	UTT/S/BINO						
202	UTT/S/SON						
	UTT/S/SON						
	UTT/S/SON						
	UTT/S/SON						
	UTT/S/SON						
203	WB/N/GOR						
204	WB/N/NEO						
205	WB/N/SUN						
	WB/N/SUN						
	WB/N/SUN						

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Area of the PA	Activity	Years	Area Affected	Ranges	Impact	Species1	Species2	Species3
	WB/N/SUN		Others (Including Fish & Non Entry of sweet water)	Every year	2585.00	Mainly sea face		Gila (Enjada scandens)		
	WB/S/BAL	2.021	None							
206	WB/S/CHA	9.492								
207	WB/S/HAL	5.95	NA							
208	WB/S/LOT	38								
209	WB/S/RAI	1.3	Floods	1987,1993,1996,1997,1998,1999	1.30	Wildlife Range	Population decline,Disease	Sissoo(Dalbergia sissoo)		
210	WB/S/RAM	0.1431	No							
211	WB/S/SEN	38.88	Illegal collection of firewood	From time immemorial		Entire sanctuary				

Table 1.19: Human Activities and Other Natural Phenomenon Having an Impact on the Flora of the PAs

Note: All values for area are in square kilometers

Sno	PA code	Species4	Species5	Species6	Species7	Species8	Species9
	WB/N/SUN						
	WB/S/BAL						
206	WB/S/CHA						
207	WB/S/HAL						
208	WB/S/LOT						
209	WB/S/RAI						
210	WB/S/RAM						
211	WB/S/SEN						

Table 1.20: Forest Fires in PAs

Table 1.20: Forest Fires in PAs
Note: All values for area are in square kilometers

Note: All values for area are in square kilometers

					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
1	AP/N/MAH	14.59		No							External and internal fire lines maintained. Additional watch and ward during dry season.	
2	AP/N/MRU	2.8		No								No fires have occurred due to fire control operations and strict patrolling.
3	AP/N/VEN	525.97	NP	Yes							Fire control and fire tracing operations are being carried out with available forests	
4	AP/S/GUN	1194		Yes							Maintenance of existing fires lines	Yes - details not available
5	AP/S/KAW	893	NO	Yes	5 times		200	Jannaram, Indanpally, Tadlapet, Birsaipet, Kaddam, Pemb.	Mahua collectors cause the fire.	It is basically teak dominated dry deciduous forest. Home fires are caused commonly due to mahua collectors and cattle herders while grazing.	Fire control measures are being practised to prevent the fires along existing and new fire lines in the sanctuary.	
6	AP/S/KOU	357.63	NP	Yes	1994	9	1.2	Palamaner and Kuppam	Due to trespassers and sheperd men.	All are ground fire, no damage effected to the plant growth		
	AP/S/KOU				1995	6	0.2	Palamaner and Kuppam	Due to trespassers and sheperd men.	All are ground fire, no damage effected to the plant growth		
	AP/S/KOU				1996							
	AP/S/KOU				1997							
	AP/S/KOU				1998							
7	AP/S/NEL	4.58									Fire tracing is being done annually	
8	AP/S/PAP	590.68	NO	Yes				All ranges	Podu, biotic interference	Affects regeneration	Fire lines 200 kms with 3 mtrs width, No equipment used	
9	AP/S/POC	130		No								Fire Grid lines of 3m width have been formed from one end to the other end,by forming sectors of 20-25 ha each in the months of March
10	AP/S/PRA	136	NO	Yes		5	2	Chennur, Nilwai	Mahua collectors will come and fire while collecting the Mahua flowers.	Due to fire accidents regeneration is affected leaf fallen on the ground is burnt which is a source of fodder during the summer		
11	AP/S/SIW	29.81	NO	Yes		4	2	Mamthani and Neelwai	Mahua flower collectors will cause fires.Pedestrian and cattle graziers also cause fires	Due to repeated fires regeration is affected	Local methods like brush wood beatings are used to control the fires	query response for control measures
12	ARU/N/NAM	1985.245	NO	Yes	1998	2	10	Miao and Gandhigram Wildlife Ranges.	Slash and burning for cultivation which is done by encroachers and nearby hamlets.	Destruction of habitat with lasting gaps and negative effect on burrowing animals.	Increased patrolling in the park	
13	ARU/S/DER	190		Yes	Every year		142.5	All ranges	Human - either intentional/deliberate or unintentional	Habitat as well as animals are damaged (extent not recorded)	Fire line cutting in the fire prone areas	
14	ARU/S/MEH	281.5	YES	Yes	1995	3	1	Mehao	Man made	Loss of flora and fauna	No provision exists except watch and ward duty by daily wage labourers.	

Table 1.20: Forest Fires in PAs
Note: All values for area are in square kilometers

Note: All values for area are in square kilometers													
					New Data 1998-03								
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark	
	ARU/S/MEH				1996	7	0.5	Mehao	Man made	Loss of flora and fauna			
	ARU/S/MEH				1997	5	0.2	Mehao	Man made	Loss of flora and fauna			
	ARU/S/MEH				1998	2	0.75	Mehao	Man made	Loss of flora and fauna			
	ARU/S/MEH				1999	10	2	Mehao	Man made	Loss of flora and fauna			
15	ARU/S/YOR	445.975		No							No such steps taken so far, as the area is yet to be brought under scientific management		
16	ASS/N/NAME	200											
17	ASS/N/ORR	78.8		No								Controlled burning of grass lands is taken up every year as a part of grass land management for Rhino habitat	
18	ASS/S/BAR	26.21		Yes					Fire set by villages occasionally		For last two year no fire lines have been cut		
19	ASS/S/GIB	19.16	NP	Yes	1999	1	4.5	North and south ranges	Intentional fires set by graziers		Controlled by fire line cutting		
20	CHD/S/SUK	26.11	YES	Yes		2	0.02	Kansal and Nepli	The fires spread from adjoining areas in Punjab and Haryana.		During summer season i.e. April, May and June, fire watcher are engaged to check the incidence of fire. Fire lines are also prepared and maintained.		
21	CHT/N/KAN	200	YES	Yes	1995-96	100	60	Throughout the park	All deliberately lit by tribals as burning is their tradition	Habitat loss in the pinch period (Summer), herbivora population affected, ingress of weeds, regeneration of flora affected	The length of the fire line is 299 km. Fire watchers are engaged during the fire season and continuous patrolling is done.	The area given is an approximation	
	CHT/N/KAN				1996-97	100	60	Throughout the park	All deliberately lit by tribals as burning is their tradition	Habitat loss in the pinch period (Summer), herbivora population affected, ingress of weeds, regeneration of flora affected	The length of the fire line is 299 km. Fire watchers are engaged during the fire season and continuous patrolling is done.		
	CHT/N/KAN				1997-98	100	60	Throughout the park	All deliberately lit by tribals as burning is their tradition	Habitat loss in the pinch period (Summer), herbivora population affected, ingress of weeds, regeneration of flora affected	The length of the fire line is 299 km. Fire watchers are engaged during the fire season and continuous patrolling is done.		
	CHT/N/KAN				1998-99	100	60	Throughout the park	All deliberately lit by tribals as burning is their tradition	Habitat loss in the pinch period (Summer), herbivora population affected, ingress of weeds, regeneration of flora affected	The length of the fire line is 299 km. Fire watchers are engaged during the fire season and continuous patrolling is done.		

Table 1.20: Forest Fires in PAs
Note: All values for area are in square kilometers

Note: All values for area are in square kilometers												
					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	CHT/N/KAN				1999-2000	100		Throughout the park	All deliberately lit by tribals as burning is their tradition	Habitat loss in the pinch period (Summer), herbivora population affected, ingress of weeds, regeneration of flora affected	The length of the fire line is 299 km. Fire watchers are engaged during the fire season and continuous patrolling is done.	
22	CHT/S/ACH	551.552		Yes	Annually		1	Along the PWD road in all ranges	Biotic pressures and natural causes like friction in bamboos	Negligible	There are fire lines and fire watchers are employed. There are 22 EDCs and money for fire control is given to them to employ fire watchers.	Data filled in during the field visit. Original Q1 has not responded to this question
23	CHT/S/BAD	104.45		Yes	1998	1	0.01	Compartment No 366	Started by villagers for NTFP Collection and for getting a better flush of grasses etc	Only fallen dry leaves and twings are burnt	The total length of fire lines in the PA is 237.622 km. Other measures include clearing of fire lines, fire watching by FPCs of forest villages. No equipment is used for fire fighting.	
	CHT/S/BAD				1999	6	0.15	Compartment No 355, 358, 368, 369, 372, 373	Started by villagers for NTFP Collection and for getting a better flush of grasses etc	Only fallen dry leaves and twings are burnt.	The total length of fire lines in the PA is 237.622 km. Other measures include clearing of fire lines, fire watching by FPCs of forest villages. No equipment is used for fire fighting.	
24	CHT/S/SIT	558.55	YES	Yes	1996-97		1.14	Risgaon and Sitanadi Range	NTFP Collection by villagers	Only dry leaves and grasses were burnt	(1) Fire lines are cut and burnt (2) Labour engaged to watch and ward (3) All staff are alerted and ordered to carry out frequent patrolling	
	CHT/S/SIT				1997-98		0.13	Sitanadi Range	NTFP Collection by villagers	Only dry leaves and grasses were burnt	(1) Fire lines are cut and burnt (2) Labour engaged to watch and ward (3) All staff are alerted and ordered to carry out frequent patrolling	
	CHT/S/SIT				1998-99		0.24	Sitanadi Range	NTFP Collection by villagers	Only dry leaves and grasses were burnt	(1) Fire lines are cut and burnt (2) Labour engaged to watch and ward (3) All staff are alerted and ordered to carry out frequent patrolling	
	CHT/S/SIT				1999-2000		0.17	Risgaon and Sitanadi Range	NTFP Collection by villagers	Only dry leaves and grasses were burnt	(1) Fire lines are cut and burnt (2) Labour engaged to watch and ward (3) All staff are alerted and ordered to carry out frequent patrolling	
	CHT/S/SIT				2000-2001		0.04	Risgaon Range	NTFP Collection by villagers	Only dry leaves and grasses were burnt	(1) Fire lines are cut and burnt (2) Labour engaged to watch and ward (3) All staff are alerted and ordered to carry out frequent patrolling	
25	CHT/S/UDA	237.27		Yes	1996-97	6	0.23	Udanti				
	CHT/S/UDA				1998-99	1	0.02	Udanti				
	CHT/S/UDA				1999-2000	12	0.26	Udanti				
	CHT/S/UDA				2000-2001	40	3.02	Udanti				
26	GUJ/N/BAN	23.99	YES	Yes	1994/95	5	0.14	Bansda national park	Accidental	Only dry leaves, grass etc. were burnt	Fire line works were carried out. Fire guards round the clock were deployed	
	GUJ/N/BAN				1995/96	8	0.17	Bansda national park	Accidental	Only dry leaves, grass etc. were burnt	Fire line works were carried out. Fire guards round the clock were deployed	
	GUJ/N/BAN				1996/97	5	0.21	Bansda national park	Accidental	Only dry leaves, grass etc. were burnt	Fire line works were carried out. Fire guards round the clock were deployed	
	GUJ/N/BAN				1997/98	1	0.03	Bansda national park	Accidental	Only dry leaves, grass etc. were burnt	Fire line works were carried out. Fire guards round the clock were deployed	
	GUJ/N/BAN				1998/99	4	0.08	Bansda national park	Accidental	Only dry leaves, grass etc. were burnt	Fire line works were carried out. Fire guards round the clock were deployed	

Table 1.20: Forest Fires in PAs
Note: All values for area are in square kilometers

					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
27	GUJ/S/RAT	55.65		Yes	1996	36	0.64	Kanjeta	Accidental fire	Ground fire which burns leaf litter and dry grass.	Preparation of fire lines, Keeping fire watchmen, local people's co-operation.	
	GUJ/S/RAT				1997	62	0.58	Kanjeta	Accidental fire	Ground fire which burns leaf litter and dry grass.		
	GUJ/S/RAT				1998	32	1	Kanjeta	Accidental fire	Ground fire which burns leaf litter and dry grass.		
	GUJ/S/RAT				1999	68	1.5	Kanjeta	Accidental fire	Ground fire which burns leaf litter and dry grass.		
	GUJ/S/RAT				2000	27	0.38	Kanjeta	Accidental fire	Ground fire which burns leaf litter and dry grass.		
28	HAR/S/BIRS	7.584	NP	Yes		2	0.35	Pinjore	Unknown		By engaging labour	
29	HAR/S/KAL	100	NP	Yes	1995	1	20	Kalesar	Due to dry areas and grass in the summer		By engaging labour and asking for help from local villagers	
	HAR/S/KAL				1996	1	20	Kalesar	Due to dry areas and grass in the summer		By engaging labour and asking for help from local villagers	
	HAR/S/KAL				1997	1	20	Kalesar	Due to dry areas and grass in the summer		By engaging labour and asking for help from local villagers	
	HAR/S/KAL				1998	1	20	Kalesar	Due to dry areas and grass in the summer		By engaging labour and asking for help from local villagers	
	HAR/S/KAL				1999	1	20	Kalesar	Due to dry areas and grass in the summer		By engaging labour and asking for help from local villagers	
30	HAR/S/SAR	44.02	NP	Yes	1998-99	1	0.04		Natural	The artificial plantations of eucalyptus were burnt	Eradication of saccharinia	
	HAR/S/SAR					1	0.03		Natural	The artificial plantations of eucalyptus were burnt	Eradication of saccharinia	
31	HP/S/DAR	46.5857	NO	Yes	1999	2	2.1	Dofda	Negligence by local people	Regeneration affected	Firelines were constructed and fire watchers were engaged	
32	HP/S/DHA	943.98	NP	Yes	1995-96	1	0.12	Keori beat of Uhl range	Accidental	About 4000 saplings of Robinia and Ban as well as grasses were affected.	Fire watchers are employed in the fire season. Controlled burning is done. There is a 1.5 km. long fireline at Bir-Keori.	
	HP/S/DHA				1997-98	2	0.03	Keori beat of Uhl range	Accidental	Negligible	Fire watchers are employed in the fire season. Controlled burning is done. There is a 1.5 km. long fireline at Bir-Keori.	
	HP/S/DHA				1998-99	2	0.27	Keori beat of Uhl range	Accidental	8000 saplings of Kail, Robinia and grasses were affected	Fire watchers are employed in the fire season. Controlled burning is done. There is a 1.5 km. long fireline at Bir-Keori.	
	HP/S/DHA				1999-2000	6	0.7	Bir and Keori beat of Uhl range	Accidental	8000 Saplings of Deodar, Chir, Darek etc. were affected	Fire watchers are employed in the fire season. Controlled burning is done. There is a 1.5 km. long fireline at Bir-Keori.	
33	HP/S/GAM	109	YES	Yes	1999	1	0.06	Langera	Accidental	It was a surface fire with minimal impact on the PA.	Inspection paths act as fire lines. Clearing of fire lines is undertaken. Fire watchers are employed depending on availability of budget.	

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					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
34	HP/S/KAL	69.47	NO	Yes	1999	2	0.15	Kalatop-Khajjiar	Accidental	Grasses were burnt	There are fire lines and fire watchers are engaged to control fires. There is a need for a wireless system to prevent and fight fires effectively.	
35	HP/S/RUP	269.15	YES	Yes	1996	3	0.65	Bhaba	Set off deliberately by local people	Degradation and changes in habitat	A 3 km fire line exists in Rupi Range. Fire watchers are engaged. Villagers are asked to help in fire fighting operations	
	HP/S/RUP				1998	4	1.51	Bhaba	Set off deliberately by local people	Degradation and changes in habitat	A 3 km fire line exists in Rupi Range. Fire watchers are engaged. Villagers are asked to help in fire fighting operations	
	HP/S/RUP				1999	5	4.3	Rupi and Bhaba	Set off deliberately by local people	Degradation and changes in habitat	A 3 km fire line exists in Rupi Range. Fire watchers are engaged. Villagers are asked to help in fire fighting operations	Near drought conditions led to more spread of fires in 1999
36	HP/S/SHI	90.37	NO	Yes	1995	1	1	Karsog	Deliberate	The fire caused damage to 100 saplings of Deodar	Forest employees and local bodies help to fight fire. There are also fire lines in the PA. No special equipment is used to fight fire.	
	HP/S/SHI				1999	7	24	Karsog	Deliberate	The fire caused extensive damage to the PA	Forest employees and local bodies help to fight fire. There are also fire lines in the PA. No special equipment is used to fight fire.	
37	JHA/S/HAZ	186.255	NO	Yes	1995		0.35	Entire PA	Mahua flower collection and careless pedestrians	Affects both flora and fauna to some extent	A fire line of 10 km in length was cut in 1985. But it is not maintained regularly. Another fire line of 10 km in length was cut in 1999. In addition, fires are fought/controlled by staff and labour manually.	
	JHA/S/HAZ				1996		0.38	Entire PA	Mahua flower collection and careless pedestrians	Affects both flora and fauna to some extent		
	JHA/S/HAZ				1997		0.06	Entire PA	Mahua flower collection and careless pedestrians	Affects both flora and fauna to some extent		
	JHA/S/HAZ				1998		0.04	Entire PA	Mahua flower collection and careless pedestrians	Affects both flora and fauna to some extent		
	JHA/S/HAZ				1999		0.06	Entire PA	Mahua flower collection and careless pedestrians	Affects both flora and fauna to some extent		
38	JHA/S/PAR	50.8093	NO	Yes	1995		0.08	Parasnath	Unknown People	Only dry leaves and dry grasses burnt	Forest staffs with the help of villagers controlled the fire	
	JHA/S/PAR				1996		0.02	Parasnath	Unknown People	Only dry leaves and dry grasses burnt	Forest staffs with the help of villagers controlled the fire	
39	KAR/N/ANS	250	NO	Yes	1995	6	0.03	Wildlife Range Anashi	Accident and Mischief	Ground fire, Forest damage is negligible	Engaging fire watchers, fire terracing, Fire line 86 K.M. Green twigs	
	KAR/N/ANS				1996	4	0.02	Wildlife Range Anashi	Accident & Mischief	Ground fire, Forest damage is negligible		
	KAR/N/ANS				1997	5	0.03	Wildlife Range Anashi	Accident & Mischief	Ground fire, Forest damage is negligible		
	KAR/N/ANS				1998	3	0.01	Wildlife Range Anashi	Accident & Mischief	Ground fire, Forest damage is negligible		
	KAR/N/ANS				1999	2	0.02	Wildlife Range Anashi	Accident & Mischief	Ground fire, Forest damage is negligible		
40	KAR/N/BAND	880.02	YES	Yes	1995-96	45	89.19					
	KAR/N/BAND				1996-97	24	16.67					
	KAR/N/BAND				1997-98	19	18.87					
	KAR/N/BAND				1998-99	61	13.26					

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					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
41	KAR/N/BANN	104.27		Yes	1996-97	10	8	All over	Accidental	Ground fire no impact	About 300 kms of fire lines are maintained along the boundary & game roads & fire controlled by deploying fire watchers to combat fire if occurred by using the network of wireless, roads, communication & vehicles, for transports.	
	KAR/N/BANN				1997-98	15	13	All over	Accidental	Ground fire No impact		
	KAR/N/BANN				1998-99	17	15	All over	Accidental	Ground fire no impact		
	KAR/N/BANN				1999-2000	19	14	All over	Accidental	Ground fire no impact		
	KAR/N/BANN				2000-2001	5	9	Harohally (2), Anekal (2), Project(1)	In villages	Ground fire no impact		
42	KAR/N/KUD	600.324		No							Demarcation line. Fire lines to a tune of 1800kms. Fire watchers to watch and ward during summer season. Caution and publicity among the public.	
43	KAR/N/NAG	643.392	YES	Yes	1994	5	20	Veeranahosally, Metikuppe, DB Kuppe	Men made for various reason	All the fires was ground fires, damage to crown was negligible.	Every year fire lines are made to extent of 1763 kms in Nagarahole NP. Near by 270 tribal fire watchers are employed to beet the fire in traditional method using green broom.	
	KAR/N/NAG				1995	4	15	Anechaurkur, Kallahalla, Veeranahosally	Men made for various reason	All the fires was ground fires, damage to crown was negligible.		
	KAR/N/NAG				1996	2	8	Veeranahosally, Antharasanthe, Metikuppe	Men made for various reasons	All the fires was ground fires, damage to crown was negligible.		
	KAR/N/NAG				1997	3	10	Veeranahosally, DB Kuppe, Antharasanthe	Men made for various reasons	All the fires was ground fires, damage to crown was negligible.		
	KAR/N/NAG				1998	5	20	Metikuppe, Anechowkur, Veeranahosally	Men made for various reasons	All the fires was ground fires, damage to crown was negligible.		
44	KAR/S/ADI	0.885	NO	Yes			0.02	Adichunchanagiri	Accidental fires by pilgrims	Habitats gets effected	10 kms of firelines around the sanctuary and inside the sanctuary	An almost same area gets burnt every year.
45	KAR/S/ARA	13.5	NP	Yes	1995	4	3	Arabitittu Sanctuary	Incidental fires	Ground cover fire	About 30-40 Km fire line has been cleared and fire watchers were engaged during fire season to extinguish accidental fire	
	KAR/S/ARA				1996	6	2	Arabitittu Sanctuary				
	KAR/S/ARA				1997	4	3	Arabitittu Sanctuary				
	KAR/S/ARA				1998	6	4	Arabitittu Sanctuary				
	KAR/S/ARA				1999	0	0	Arabitittu Sanctuary				
46	KAR/S/BHA	492.46	NO	Yes	1995	12	1	Lakkavalli, Muthodi	Nature of fire occurrence is only ground fire	There were no casualties of wild animals. The grass and leaf litters were destroyed due to fire	Clearance of Demarcation line-236 kms, and fireline clearance to an extent of 500 kms, and engaging watchers to the fire combat squad are the main steps taken to prevent fires.	
	KAR/S/BHA				1996	10	0.98	Hebbe, Thanigebvle	Nature of fire occurrence is only around fire	There were no casualties of wild animals. The grass and leaf litters were destroyed due to fire		

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					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	KAR/S/BHA				1997	9	0.97		Nature of fire occurrence is only ground fire	There were no casualties of wild animals. The grass and leaf litters were destroyed due to fire		
	KAR/S/BHA				1998	8	0.95	Hebbe, Thanigebyle	Nature of fire occurrence is only ground fire	There were no casualties of wild animals. The grass and leaf litters were destroyed due to fire		
	KAR/S/BHA				1999	6	0.93		Nature of fire occurrence is only ground fire	There were no casualties of wild animals. The grass and leaf litters were destroyed due to fire		
47	KAR/S/BRA	181.29	NO	Yes	1999	7	0.8	Srimangala	Human	Grassland		
48	KAR/S/DAN	475.018	YES	Yes	1994-95	39	0.33	Wildlife Range Kulgi	Fire by miscreants	Only ground fire no forest wealth or wildlife damaged	By clearing & burning firelines by engaging firewatchers, patrolling by staff etc.	
	KAR/S/DAN				1995-96	34	0.33	WLR Phansoli & Kumbarwada	Fire by miscreants	Only ground fire, no forest wealth or wildlife damaged		
	KAR/S/DAN				1996-97	20	0.25	WLR Phansoli & Kumbarwada	Fire by miscreants	Only ground fire, no forest wealth or wildlife damaged		
	KAR/S/DAN				1997-98	23	0.26	WLR Phansoli & Kumbarwada	Fire by miscreants	Only ground fire, no forest wealth or wildlife damaged		
	KAR/S/DAN				1998-99	45	0.25	WLR Phansoli & Kumbarwada	Fire by miscreants	Only ground fire, no forest wealth or wildlife damaged		
49	KAR/S/KAV	526.95		No						every year, and fire watchers are employed during summer months/season who beat the fire with bushes & extinguish the fire.	About 200 kms of fire lines are cleared r	No severe fires are noticed and only few grassy patches are burnt during summer and are extinguished in time.
50	KAR/S/MEL	49.82	NO	Yes	1995	2	0.9	Narayanadurga SF	Accidental Fire	Ground Fire	Fire lines are being traced well in advance at vulnerable places so that no accidental fire occurs. Also fire watchers are engaged during summer to put off any accidental fire	
	KAR/S/MEL				1996	1	0.7	Narayanadurga SF	Accidental Fire	Ground Fire		
	KAR/S/MEL				1997	1	0.6	Narayanadurga SF	Accidental Fire	Ground Fire		
	KAR/S/MEL				1998	1	0.5	Narayanadurga SF	Accidental Fire	Ground Fire		
	KAR/S/MEL				1999	1	0.5	Narayanadurga SF	Accidental Fire	Ground Fire		
51	KAR/S/MOO	247		No							500 Kms fire lines as precaution	
52	KAR/S/NUG	30.32	NO	Yes				Nugu Wildlife Sanctuary	Accidentally	Spread of exotic weeds and reduction of regeneration	About 50 km of firelines are cleared just before the summer and fire watchers are engaged to put off accidental fire during summer	
53	KAR/S/PUS	92.66		No							Fire lines, fire watchers	
54	KAR/S/SHE	395.6		No							Fire line and 'D' line ,engaging fire watchers, fire protection camps and deploying vichels.Length of 'D' line=574 kms, length of fire line = 830 kms.	No fire incidents

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Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
55	KAR/S/SOM	88.97		No							Demarcation line. Fire lines to a tune of 140 kms. Fire watchers to watch and ward during summer season.Keeping in touch with adjoining fire service station,caution to the public.	No forest fires severely occurred in the last five years.
56	KER/N/ERA	100		Yes	Annually according to the WII study			Entire PA	People from tea estates, tribal agricultural fields and tourists			
57	KER/S/ARA	55		No							Clearing fire lines=85 km., engaging people for fire protection.	
58	KER/S/CHIN	90.442	NO	Yes	1997	1	5	Chinnar	Tourists	Burning of the grassland	There are about 190 kms of fire lines. 20 fire watchers are employed for 4 months every year. Fires are fought by beating them with bushes.	
59	KER/S/WAY	344.44	NO	Yes	1994		0.7	All ranges	Man-made	Value of loss was estimated to be Rs. 3,000.00	518 kms of firelines were laid in 1998-99. Hundred fire mazdoors were engaged. Sixtyone awareness camps were held. Equipments used are rocker punpsets, shovel, rake and other implements to beat fires	
	KER/S/WAY				1995		3.82	All ranges	Man-Made		518 kms of firelines were laid in 1998-99. Hundred fire mazdoors were engaged. Sixtyone awareness camps were held. Equipments used are rocker punpsets, shovel, rake and other implements to beat fires	
	KER/S/WAY				1996	17	0.07	Muthanga	Man-Made	Value of loss was estimated to be Rs. 71,820.00	518 kms of firelines were laid in 1998-99. Hundred fire mazdoors were engaged. Sixtyone awareness camps were held. Equipments used are rocker punpsets, shovel, rake and other implements to beat fires	
	KER/S/WAY				1997	8	0.63	Sulthan Bathery and Kurichiyat	Man-Made	Value of loss was estimated to be Rs. 25,000.00	518 kms of firelines were laid in 1998-99. Hundred fire mazdoors were engaged. Sixtyone awareness camps were held. Equipments used are rocker punpsets, shovel, rake and other implements to beat fires	
60	MAH/N/AND	625.4	NP	Yes	1994	11	25.76	Compartment number:22	Not known	Ground fire,weed becomes hardy & the grassland shrinks.	1984- Modern forest fire control project.Total length of firelines-990.131kms(length of 20mtrs.-313.776kms, 13mtrs.-192.04kms, 10mtrs.-472.840kms, 5mtrs.-11.550kms)	
	MAH/N/AND				1995	61	2.35	Compartment number:55	Not known	Ground fire,weed becomes hardy & the grassland shrinks.		
	MAH/N/AND				1996	131	42.71	Compartment number:96	Not known	Ground fire,weed becomes hardy & the grassland shrinks.		
	MAH/N/AND				1997-98	58	24.71	Compartment number:56	Not known	Ground fire,weed becomes hardy & the grassland shrinks.		
	MAH/N/AND				1998-99	130	45.84	Compartment number:109	Not known	Ground fire,weed becomes hardy & the grassland shrinks.		

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Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
61	MAH/N/NAV	133.884		Yes	1989	23	4.82			loss of Rs 4500		
	MAH/N/NAV				1990	18	3.12					
	MAH/N/NAV				1991	19	6.7					
	MAH/N/NAV				1992	15	4.61			loss of Rs 8800		
	MAH/N/NAV				1993	29	5.21				Laying of internal and external fire lines, fire fighting squads, fire observation tower, fire is extinguished with tree branches (beating)	
62	MAH/N/PEN	257.26	YES	Yes	1994-95	29	42.62	East and west Pench	Accidental/ manmade	Damage to flora and fauna	Forest fighters (Manual)	
	MAH/N/PEN				1995-96	19	11.37	East and west Pench	Accidental/ manmade	Damage to flora and fauna		
	MAH/N/PEN				1996-97	24	36.66	East and west Pench	Accidental/ manmade	Damage to flora and fauna		
	MAH/N/PEN				1997-98	8	20.62	East and west Pench	Accidental/ manmade	Damage to flora and fauna		
	MAH/N/PEN				1998-99	10	5.74	East and west Pench	Accidental /manmade	Damage to flora and fauna		
63	MAH/N/SAN	103.09		Yes				SGNP, Yeur	Vandalism, Jatra		Use of human resource to extinguish the fire	
64	MAH/S/AMB	127.11	NP	Yes	1998	5	2		Not known	Burns grass and causes damage to natural crop	14kms length. Equipment used- by beating with shrubs & green tree branches	
65	MAH/S/ANE	82.94	NP	Yes	1999-00		0.7	Sule round Compartments- 988, 1002 & 980	Manmade/Hunting poaching	Degradation	Outer boundary of the forest and 16kms roads inside PA- fire lines have been taken- 20mtr. patch is burnt manually every year.	
66	MAH/S/BHA	104.38		No							Fire protection scheme is prepared & implemented every year. A total length of 172.36km is cut & burnt under this scheme	
67	MAH/S/BHI	130.78		Yes	1995-96	5		Bhimashankar			1. External firelines around the area and internal firelines along roadsides taken, 2. Fire watchers are appointed during 15th February to 31st May, '3. Length of fire lines is as follows-external firelines-40km., internal firelines-15 km., 4. No special equipments are used for fire fighting.	
	MAH/S/BHI				1996-97	9		Bhimashankar				
	MAH/S/BHI				1997-98	0		Bhimashankar				
	MAH/S/BHI				1998-99	1		Bhimashankar				
	MAH/S/BHI				1999-2000	1		Bhimashankar				
68	MAH/S/BOR	61.1	YES	Yes	1997	1	3	Bor Sanctuary	Accidental	Ground fire, dry leaves have been burnt.	Protection, Fire watchers & firelines	
	MAH/S/BOR				1998	1	1	Bor Sanctuary	Accidental	Ground Fire, dry leaves have been burnt.		
69	MAH/S/CHAN	308.97		Yes	1996-97	1	0.25	Nandoli village area	Local people	Ground fire-burning of leaf litter and small seedling.	Fire tracing works, extinguishing the fires wherever seen. Length of fire line taken every year is internal 185 km and external 90 km. Fire lines are taken manually.	
	MAH/S/CHAN				1997-98	2	2.5	Khandalapur area	Local people	Fire in Malki lands (ground fire)		
	MAH/S/CHAN				1998-99	4	17	Khandalapur, Chandoli, Nivale, Dhakale	Local people	Fire in Malki lands (improvement in grasses)		

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Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	MAH/S/CHAN				1999-2000	1	12	Nivale, Tanali, Khandalapur areas	Local people	Fire in Malki lands, improvement in grasses (leaf litter burning).		
70	MAH/S/CHAP	133.23	NP	Yes	1995			Nil	Nil	Nil	Fire protection scheme is prepared & implemented every year.A total length of 252.4km is cut & burnt under this scheme	
	MAH/S/CHAP				1996	17	6.53	Chaudampalli	Unknown	The forest floor was burnt due to ground fire.		
	MAH/S/CHAP				1997	21	1.74	Chaudampalli	Unknown	The forest floor was burnt due to ground fire.		
	MAH/S/CHAP				1998	3	0.08	Chaudampalli	Unknown	The forest floor was burnt due to ground fire.		
	MAH/S/CHAP				1999	15	4	Chaudampalli	Unknown	The forest floor was burnt due to ground fire.		
71	MAH/S/DEU	2.17		Yes	1991	1	0.2		Ground fire	Yet to be evaluate	Fire protection measures taken every year, all along periphery and roads-3 meters fire lines.	Document-H (part-I), page 32
	MAH/S/DEU				1996-97	4						
72	MAH/S/GAU	260	NP	Yes	1995	5	2	All three ranges but maximum in Chalisgaon due to pilgrim traffic	Accidental & Man made	Degradation of PA		
	MAH/S/GAU				1996	5	2	All three ranges but maximum in Chalisgaon due to pilgrim traffic	Accidental & manmade	Degradation of PA		
	MAH/S/GAU				1997	5	2	All three ranges but maximum in Chalisgaon due to pilgrim traffic	Accidental & manmade	Degradation of PA		
	MAH/S/GAU				1998	5	1.5	All three ranges but maximum in Chalisgaon due to pilgrim traffic	Accidental & manmade	Degradation of PA		
	MAH/S/GAU				1999	10	10	All three ranges but maximum in Chalisgaon due to pilgrim traffic	Accidental & manmade	Degradation of PA		
73	MAH/S/GRE	8496.41		Yes	1998-99	1		Nannaj				Document-J
	MAH/S/GRE				1999-2000	8		Nannaj				
	MAH/S/GRE				2000-2001	1	0.005	Nannaj				
74	MAH/S/GYA	203.56	NP	Yes	1997-98	12	4.45	Buldhana & Khamgaon	Man made	Migration of wild animals, degradation of their habitat & the regeneration of grass species has been affected		

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Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	MAH/S/GYA			Yes	1998-99	14	3.77	Buldhana & Khamgaon	Man made	Migration of wild animals, degradation of their habitat & regeneration of grass space has been affected.		
75	MAH/S/KAL	361.71	NO	Yes	1996-97	12		Harishchandra(1),Bhan dardara(11)			Total 25kms fire lines have been taken(3 mtr. Length)	
	MAH/S/KAL				1997-98	6		Harishchandra(3),Bhan dardara(3)				
	MAH/S/KAL				1998-99	3		Harishchandra(1),Bhan dardara(2)				
	MAH/S/KAL				1999-2000	1		Bhandardara				
76	MAH/S/KAR	4.27	YES	Yes	1994-95	3	0.12		Unknown	Ground fire	Fires have been extinguished manually.	
	MAH/S/KAR				1995-96							
	MAH/S/KAR				1996-97	4	0.21		Unknown	Ground fire		
	MAH/S/KAR				1997-98							
	MAH/S/KAR				1998-99	1	0.04		Unknown	Ground fire		
77	MAH/S/KAT	73.69	NP	Yes	1997	4	0.13	Akola	Tendu leaf,Moha flower	Ground flora burning	Fire line scheme is under process	
	MAH/S/KAT				1998							
	MAH/S/KAT				1998-99	3	0.12	Akola	Tendu leaf,Moha flower	Ground flora-burning		
78	MAH/S/MAY	5.145		Yes	1999-2000	1					Internal and external fire lines. Internal lines along road side and external along periphery.	
79	MAH/S/NAG	152.81	YES	Yes	1996-97	43	65.95	Nagzira	Man made	Loss of food & ground cover, temporary migration of animals & disturbance to breedings sites.	Laying of internal and external fire lines,fire fighting squads,fire observation tower fire is extinguished with tree branches(beating)	
	MAH/S/NAG				1997-98	7	0.71	Nagzira	Man made	Loss of food & ground cover, temporary migration of animals & disturbance to breedings sites.		
	MAH/S/NAG				1998-99	27	10.83	Nagzira	Man made	Loss of food & ground cover, temporary migration of animals & disturbance to breedings sites.		
80	MAH/S/NAI	29.9		Yes	1999	11	5	Beed	Manmade	Degradation of PA	Due to paucity of funds limited number of firelines have been taken-fire lines of 3 mtrs(width)over 10kms area of the PA	
81	MAH/S/NAR	12.35	NP	Yes	1998-99	5		Narnala	Unknown	Regeneration destroyed	Length-39.62.No equipments are provided	
82	MAH/S/PAI	324.64	NP	Yes	1995					Regeneration of grass species restricted which has affected herbiveres	Fire lines-regular,fire fighters (human beings)	
	MAH/S/PAI				1996					Regeneration of grass species restricted which has affected herbiveres		

Table 1.20: Forest Fires in PAs
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					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	MAH/S/PAI				1997-98	22	13.37	Kharbi,Umarkhed		Regeneration of grass species is restricted which has affected herbivores		
	MAH/S/PAI				1998-99	57	106.19	Kharbi,Umarkhed		Regeneration of grass species is restricted which has affected herbivores		
83	MAH/S/RAD	351.16		No							Firelines of 10mts breadth are taken annually along the borderof the PA and alongside the road passing through the PA	
84	MAH/S/SAG	10.87	NP	Yes	1995,96						Fire line 60km taken every year.When fire occurs it is extinguished by counter fire and by man power	
	MAH/S/SAG				1997	2	0.01		Human interference	Degradation		
	MAH/S/SAG				1998	1	0		Human interference	Degradation		
	MAH/S/SAG				1999							
85	MAH/S/TIP	140.29	NP	Yes	1998	11	6.53	Tipeshwar	Man made	Degradation of habitat	Fireline cutting and burning is usually taken up depending on availability of funds.The usual practice for fire fighting is by physically beating the fire by branches of trees and by cleaning forest floor & in some cases, counter fire is used.	
	MAH/S/TIP				1999	21	10.8	Tipeshwar	Man made	Degradation habitat of wild animals		
86	MAH/S/WAN	205.86	NP	Yes	1994-95	21	12.1	Wan & Somthana	Miscreants & people collecting mahua,sambar horns,tendu leaves cause fire.	Regeneration is destroyed, wild animals are scared, under ground fauna is disturbed	Length-387km.Equipments-Tree branches(No other equipments are provided)	
	MAH/S/WAN				1995-96	19	8.63	Wan & Somthana	Miscreants & people collecting mahua,sambar horns,tendu leaves cause fire.	Regeneration is destroyed, wild animals are scared, under ground fauna is disturbed		
	MAH/S/WAN				1996-97	18	7.84	Wan & Somthana	Miscreants & people collecting mahua,sambar horns,tendu leaves cause fire.	Regeneration is destroyed, wild animals are scared, under ground fauna is disturbed		
	MAH/S/WAN				1997-98	21	6.8	Wan & Somthana	Miscreants & people collecting mahua,sambar horns,tendu leaves cause fire.	Regeneration is destroyed, wild animals are scared, under ground fauna is disturbed		
	MAH/S/WAN				1998-99	24	12.76	Wan & Somthana	Miscreants & people collecting mahua,sambar horns,tendu leaves cause fire.	Regeneration is destroyed, wild animals are scared, under ground fauna is disturbed		
87	MAH/S/YAW	177.52	YES	Yes	1997-98	17				Degradation of PA	Fire lines have been taken of 3 mtrs Width have been taken alongside the roads.	
	MAH/S/YAW				1998-99	13				Degradation of PA		
88	MAH/S/YED	22.37	NP	Yes	1999	2	1	Yedshi	Railwav & manmade	Deoradation of PA	Due to paucity of funds limited no. of fire line have been taken in PA-4-5km.Rly track only with 3m width	

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Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
89	MAN/S/YAN	184.4		No							Fire lines have been cut.	
90	MEG/S/NON	29	NO	Yes	1995	1	2	Birbah range	Human interference	Retards growth of new seedlings		
	MEG/S/NON				1996	1	6	Birbah range	Human interference	Retards growth of new seedlings		
	MEG/S/NON				1997	2	3	Birbah range	Human interference	Retards growth of new seedlings		
	MEG/S/NON				1998	1	5	Birbah range	Human interference	Retards growth of new seedlings		
	MEG/S/NON				1999	0						
91	MIZ/N/MUR	200	NO	Yes			4	North Khawbung	Jhuming	Loss of habitat	Fire fighting operations are carried out by staff	
92	MIZ/N/PHA	50	NP	Yes	1998	1	2	Phawngpui	Jhuming	Habitat destruction	Firelines have been made. Firefighting is carried out by staff along with local villagers	
93	MIZ/S/DAM	500	NO	Yes	1995	1	0.25	Teirei	Sparks from burning of bitumen on roadside	Negligible	Fire fighting squad is recruited, except for this year due to lack of funds.	
	MIZ/S/DAM				1996	1	0.35	Phuldungsei	Jhum burning	Degradation		
	MIZ/S/DAM				1997							
	MIZ/S/DAM				1998							
	MIZ/S/DAM				1999	1	0.18	Phuldungsei	Jhum burning	Degradation		
94	MIZ/S/KHA	41	NP	Yes			1	Rawpui	Jhuming	Loss of habitat	Fire fighting operations are carried out by the staff	
95	MIZ/S/LEN	120	NP	Yes			36	Ranges not yet demarcated	Jhuming	Degradation of habitat	No steps taken	
96	MP/N/BAN	1161.471	YES	Yes	1998				For NTFP collection.		N.A.	
	MP/N/BAN				1997				For NTFP collection.			
	MP/N/BAN				1996				For NTFP collection.			
	MP/N/BAN				1995				For NTFP collection.			
	MP/N/BAN				1994				For NTFP collection.			
97	MP/N/GHU	0.272	NP	No	N.A.	0		N.A.	N.A.	N.A.	N.A.	
98	MP/N/PEN	292.857	YES	No	Nil	0		N.A.	N.A.	N.A.	N.A.	
99	MP/N/SAT	524.37	YES	Yes	1994	0		N.A.	N.A.	N.A.	N.A.	
	MP/N/SAT				1995	5	5.62	Pachmarhi and Kamti.	Unknown	Disturbance to wildlife and interferes with natural growth.		
	MP/N/SAT				1996	3	3.02	Pachmarhi and Kamti.	Unknown	Disturbance to wildlife and interferes with natural growth.		
	MP/N/SAT				1997	5	0.36	Pachmarhi and Kamti.	Unknown	Disturbance to wildlife and interferes with natural growth.		
	MP/N/SAT				1998	2	1.3	Pachmarhi and Kamti.	Unknown	Disturbance to wildlife and interferes with natural growth.		
100	MP/S/BAG	478	NO	Yes	1997	10	1.57	Bagdara	Accidental	Dried grass and leaves are burnt		
	MP/S/BAG				1998	1	0.01	Bagdara	Accidental	Dried grass and leaves are burnt		
	MP/S/BAG				1999	4	0.52	Bagdara	Accidental	Dried grass and leaves are burnt		
101	MP/S/GAN	368.62	YES	No	Nil			N.A.	N.A.	N.A.	N.A.	
102	MP/S/KHE	132.778	YES	No	N.A.	0		N.A.	N.A.	N.A.	N.A.	
103	MP/S/KUN	344.686	NP	Yes	1998	1	2	Sesaipura	Caused by trespassers.	Not much.	383 K.M of length fire lines are maintained inside PA.	
104	MP/S/NAR	57.197		Yes	1997	4	3	Narsingaerh	Unknown	Regeneration is adversely affected		

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Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	MP/S/NAR				1998	2	2	Narsingarh	Unknown	Regeneration is adversely affected		
	MP/S/NAR				1999	5	5	Narsingarh	Unknown	Regeneration is adversely affected		
105	MP/S/NAT	460	NO	No	N.A	0		N.A.				
106	MP/S/NOR	1186.961	NO	No	1995	0		N.A.			Fire watchers and fire fighting squads are employed in fire season.	
	MP/S/NOR				1996	2	0.05	Mohli, Noradehi.	Biotic factors.	Poor regeneration.	Fire watchers and fire fighting squads are employed in fire season.	
	MP/S/NOR				1997	10	0.28	All range of P.A.	Biotic factors.	Poor regeneration.		
	MP/S/NOR				1998	7	0.12	All range of P.A.	Biotic factors.	Poor regeneration.		
	MP/S/NOR				1999	51	1.86	All ranges of P.A.	Biotic factors.	Poor regeneration.		
107	MP/S/SAI	12.96	NO	No	Nil	0		N.A.	N.A.	N.A.	N.A.	
108	NAG/S/PUL	9.23	NP	Yes	1999-2000	1	0.08	Buffer area	Caused by smokers who dropped burning cigarettes on the ground	Only ground fire	Annually, fire lines around the sanctuary are cut and cleared.	
	NAG/S/PUL			Yes	1999-2000	1	0.12	Buffer area	Caused by children	Only ground fire		
109	ORI/S BAI	168.35		Yes	Every year ground fires occur in the sanctuary.					It affects the natural regeneration, kills insects, reptiles and insects and eggs of birds and reptiles.	10 km. of fire lines have been cut during 1999-2000. Employees extinguish fire with the help of local people.	
110	ORI/S/BAD	304.03	NP	Yes	1996-97	1	150	Badarama	Deliberate, for Mahua collection. Fires are also accidentally caused.	Extinction, Population decline and Poor regeneration.	Every year watchers for one month are engaged i.e. in the month of March. This was not done this year. This year 33.5 km. fire lines have been cleared	
	ORI/S/BAD				1997-98	1	150	Badarama	Deliberate, for Mahua collection. Fires are also accidentally caused.	Extinction, Population decline and Poor regeneration.		
	ORI/S/BAD				1998-99							
	ORI/S/BAD				1999-2000	1	150	Badarama	Deliberate, for Mahua collection. Fires are also accidentally caused.	Extinction, Population decline and Poor regeneration.		
	ORI/S/BAD				2000-001	1	150	Badarama	Deliberate, for Mahua collection. Fires are also accidentally caused.	Extinction, Population decline and Poor regeneration.		
111	ORI/S/BAL	71.72	NP	Yes	1996-97-98						Fire brigades were deputed from Puri, Pipili, Ninapara from distances of 18km, 58km, 40km respectively for extinguishing fires through active participation of forest department and local villagers.	
	ORI/S/BAL				1999							
	ORI/S/BAL				2000	1	0.6	Balukhand	Dry twigs	No particular impact		
112	ORI/S/CHA	193.39	NO	Yes	1995	3	70	Dampada and Chandaka Wildlife Range	Firewood and charcoal smugglers set forest fires	Forest fires adversely affect wildlife inside the PA. Flora species are also affected. Natural regeneration is prevented and saplings are damaged	Fire lines are drawn to control fire and fire watchers are engaged to prevent fires.	

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					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	ORI/S/CHA				1996	4	75	Dampada and Chandaka Wildlife Range	Firewood and charcoal smugglers set forest fires	Forest fires adversely affect wildlife inside the PA. Flora species are also affected. Natural regeneration is prevented and saplings are damaged		
	ORI/S/CHA				1997	4	82	Dampara Wildlife Range and Chandaka Wildlife Range	Firewood and charcoal smugglers set forest fires	Forest fires adversely affect wildlife inside the PA. Flora species are also affected. Natural regeneration is prevented and saplings are damaged		
	ORI/S/CHA				1998	5	80	Dampara Wildlife Range and Chandaka Wildlife Range	Firewood and charcoal smugglers set forest fires	Forest fires adversely affect wildlife inside the PA. Flora species are also affected. Natural regeneration is prevented and saplings are damaged		
	ORI/S/CHA				1999	5	78	Dampara Wildlife Range and Chandaka Wildlife Range	Firewood and charcoal smugglers set forest fires	Forest fires adversely affect wildlife inside the PA. Flora species are also affected. Natural regeneration is prevented and saplings are damaged		
113	ORI/S/DEB	346.9	NP	Yes	1997-98		1.6	Kamgaon and Lakhanpur Ranges	Accidental	Poor regeneration, damage to saplings	40kms long fire lines exist. Fires are extinguished by staff and labourers.	
114	ORI/S/HAD				1995	2	5	Compartments : 5,11,13,15,16	(1) For enriching soil on foothills for cultivation. (2) For collection of mahua flowers by clearing the ground cover. (3) For charcoal preparation.	Degrade the environment, affect regeneration causing loss of wildlife habitat, negative impact on flora and fauna, soil erosion due to destruction of the protective ground cover etc.		
	ORI/S/HAD	191.6	YES	Yes								
	ORI/S/HAD				1996	2	5	Compartment : 5,11,13,15,16	(1) For enriching soil on foothills for cultivation. (2) For collection of mahua flowers by clearing the ground cover. (3) For charcoal preparation.	Degrade the environment, affect regeneration causing loss of wildlife habitat, negative impact on flora and fauna, soil erosion due to destruction of the protective ground cover etc.		

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					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	ORI/S/HAD				1997	2	5.5	Compartments : 5,11,13,15,16	(1) For enriching soil on foothills for cultivation. (2) For collection of mahua flowers by clearing the ground cover. (3) For charcoal preparation.	Degrade the environment, affect regeneration causing loss of wildlife habitat, negative impact on flora and fauna, soil erosion due to destruction of the protective ground cover etc.		
	ORI/S/HAD				1998	2	7	Compartments : 5,11,13,15,16	(1) For enriching soil on foothills for cultivation. (2) For collection of mahua flowers by clearing the ground cover. (3) For charcoal preparation.	Degrade the environment, affect regeneration causing loss of wildlife habitat, negative impact on flora and fauna, soil erosion due to destruction of the protective ground cover etc.		
	ORI/S/HAD				1999	3	8	Compartments : 5,11,13,15,16	(1) For enriching soil on foothills for cultivation. (2) For collection of mahua flowers by clearing the ground cover. (3) For charcoal preparation.	Degrade the environment, affect regeneration causing loss of wildlife habitat, negative impact on flora and fauna, soil erosion due to destruction of the protective ground cover etc.		
115	ORI/S/KHA	116	NP	Yes	2001	2	116	Girishchandrapur	Deliberate setting of fire for collection of tendu leaves and Mahua flowers.	Poor regeneration		
	ORI/S/KHA				2000	2	116	Girishchandrapur	Deliberate setting of fire for collection of tendu leaves and Mahua flowers.	Poor regeneration		
	ORI/S/KHA				1999	2	116	Girishchandrapur	Deliberate setting of fire for collection of tendu leaves and Mahua flowers.	Poor regeneration		
	ORI/S/KHA				1998	2	116	Girishchandrapur	Deliberate setting of fire for collection of tendu leaves and Mahua flowers.	Poor regeneration		
	ORI/S/KHA				1997	2		Girishchandrapur	Deliberate setting of fire for collection of tendu leaves and Mahua flowers.	Poor regeneration		
116	ORI/S/KOT	399.5	NP	Yes	1997,98,99		399.5	Both	Shifting cultivation (Podu),collection of Mahua/Tendu		No fire lines	
	ORI/S/KOT				2000,2001		399.5	Both	Shifting cultivation (Podu),collection of Mahua/Tendu			

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					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
117	ORI/S/KUL	272.75		Yes	1996	2	204.5625	Nilgiri	Man made	Ground flora and fauna affected. Quantum of damage is not scientifically assessed.	1. Formation and maintenance of fireline, 2. Deployment of fire fighting squad at vulnerable fire prone area, 3. Use of special type of fire fighting equipment, 4. There are around 20 km. of fire line and 45 km. of major roads.	
	ORI/S/KUL				1997	2	204.5625	Nilgiri	Man made	Ground flora and fauna affected. Quantum of damage is not scientifically assessed.		
	ORI/S/KUL				1998	2	204.5625	Nilgiri	Man made	Ground flora and fauna affected. Quantum of damage is not scientifically assessed.		
	ORI/S/KUL				1999	2	81.825	Nilgiri	Man made	Ground flora and fauna affected. Quantum of damage is not scientifically assessed.		
	ORI/S/KUL				2000	2	109.1	Nilgiri	Man made	Ground flora and fauna affected. Quantum of damage is not scientifically assessed.		
118	ORI/S/SATN	795.52		Yes	1995	2	100	All ranges	Intentional fire by people, MFP collectors	Habitat degradation	At the fag end of fire season (March) neagre fund comes, fire watchers engaged. Maximum fireline 10 km. is cleared beating the fire by a long twig, sometime by counter firing.	
	ORI/S/SATN				1996	2	150	All ranges	Intentional fire by people, MFP collectors	Habitat degradation		
	ORI/S/SATN				1997	2	130	All ranges	Intentional fire by people, MFP collectors	Habitat degradation		
	ORI/S/SATN				1998	2	150	All ranges	Intentional fire by people, MFP collectors	Habitat degradation		
	ORI/S/SATN				1999	2	160	All ranges	Intentional fire by people, MFP collectors	Habitat degradation		
119	ORI/S/SATS	268.94		Yes	Every year				Man made	It affects the natural regeneration, kills insects, reptiles, invertibrates and eggs of birds reptiles.	10 kms of fireline made during 1999-2000, The staff with the help of local inhabitants extinguish the fire.	
120	ORI/S/SIM	2200		Yes	1996	2	1540	All ranges of PA with varying extents	Man made	Ground flora and fauna affected. Quantum of damage not scientifically assessed.	1. Formation and maintenance of fire lines, 2. Deployment of fire fighting squads at vulnerable fire prone areas, 3. Use of special type of fire fighting equipments, length of fire line is about 150 kms. and about 585 km. of major forest roads.	
	ORI/S/SIM				1997	2	1540	All ranges of PA with varying extents	Man made	Ground flora and fauna affected. Quantum of damage not scientifically assessed.		

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Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	ORI/S/SIM				1998	2	1540	All ranges of PA with varying extents	Man made	Ground flora and fauna affected. Quantum of damage not scientifically assessed.		
	ORI/S/SIM				1999	2	440					
	ORI/S/SIM				2000-01	2	880					
121	ORI/S/SUN	600		No						60% of total sanctuary is prone to fire. But only ground fire. No adverse impact is noticed.	Fire lines are created through out the sanctuary, bush beating is used. No equipment is available with us.	
122	RAJ/N/KEO	28.73		Yes	1997-98	15	0.12	Keoladeo	Unknown			
	RAJ/N/KEO				1998-99	11	2.18	Keoladeo	Unknown			
	RAJ/N/KEO				1999-2000	6	0.3	Keoladeo	Unknown			
	RAJ/N/KEO				2000-01	8	1.7	Keoladeo	Unknown			
123	RAJ/S/BAS	138.69		No							Creation and maintenance of fire lines (50 km.)	
124	RAJ/S/BHA	195.015		No							Fire lines (65 km.)	
125	RAJ/S/JAM	300	NO	No	1994-95							
	RAJ/S/JAM				1995-96							
	RAJ/S/JAM				1996-97							
	RAJ/S/JAM				1997-98	1	0.16	Jamwa Ramgarh.	Not known.	Degradation, Poor regeneration, migration of fauna away form site, loss of habitat.	Laying out and cutting of fire lines, fire beating	
	RAJ/S/JAM				1998-99							
126	RAJ/S/KELA	672		Yes		1		Mandrayal	Deliberate	No impact	Fire incidents are rare. Even then. 7 fire watch towers have been constructed. Pathways act as firelines.	
127	RAJ/S/KUM	608.56		Yes	1997-98	5	3.7	Kumbhalgarh	Not known	Only surface fires-grasses etc. were burnt		
	RAJ/S/KUM				1999-99	10	8.7	Kumbhalgarh and Bokara	Not known	Only surface fires-grasses etc. were burnt		
	RAJ/S/KUM				1999-2000	3	4.75	Kumbhalgarh	Not known	Only surface fires-grasses etc. were burnt		
	RAJ/S/KUM				2000-01	2	0.57	Sadri and Bokara	Not known	Only surface fires-grasses etc. were burnt		
	RAJ/S/KUM				2001-02					Only surface fires-grasses etc. were burnt		
128	RAJ/S/NAH	52.4	NO	Yes	1995	1	0	Nahargarh (Garh ganesh).	Not known.	Degradation.	Laying out and cutting of fire lines, fire beating	
	RAJ/S/NAH				1996	1	0.07	Nahargarh.	Not known.	Poor regeneration.		
	RAJ/S/NAH				1999	1	0.07	Nahargarh (Kishan Bag).	Not known.	Poor regeneration.		
129	RAJ/S/PHU	511.41		Yes	1995	8	0.74	Mamer	Negligence by tribals while collecting Mahua flowers/honey	Not much. Only ground fires. Local migration of fauna, poor regeneration	With the help of local villagers and staff, cutting/clearing fire lines of 320 meters; beating fires using branches of trees tied in the shape of a broom.	

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130	RAJ/S/SAJJ	5.19		Yes	1999	1	1.5		By human carelessness	Nil	Roads and tracks are used as fire lines.	
	RAJ/S/SAJJ				2001	1	0.005		By human carelessness	Nil		
	RAJ/S/SAJJ				2001	1	1		By human carelessness	Nil		
131	RAJ/S/SIT	422.94									Cutting and burning of fire lines.	
132	RAJ/S/TOD	495.27									NA	
133	RAJ/S/VAN	25.6									None	
								Lompokhari in Dzongri range		Rhododendron bushes were completely burnt		
134	SIK/N/KHA	1784	NO	Yes	1997	1	2		Unknown		Fire beating with the help of local people	
135	SIK/S/FAM	51.76		Yes	January, 1999						NA	Source: Doc D
					Annually, during February and March.			South-West part of Ravangla	Both intentional and accidental	Degradation, loss of food for wild animals		
136	SIK/S/MAE	35.34		Yes							None	
137	TN/N/IND	958.57	NP	Yes	1996	3	0.1	Poll, Udu, ullandi	Man made	No financial loss, ground fire	Engaging fire watchers, making fire lines, fire camps people participation	
	TN/N/IND				1997	1	0.07	Manombolly	Man made	No financial loss, ground fire		
	TN/N/IND				1998	2	0.2	Valper, Amaravathi	Man, Made	No financial loss, ground fire		
	TN/N/IND				1999	1	0.1	Udumalaipet	Man, Made	No financial loss, ground fire		
	TN/N/IND				2000	1	0.01	Pollachi	Man made	No financial loss, ground fire		
138	TN/S/CHI	0.4763		No								
139	TN/S/KAN	1.0421		No	Nil							
140	TN/S/KARI	0.6512		No	N.A							
141	TN/S/KOO	1.2		No	Nil						Nil	
142	TN/S/MUD	321		Yes	1998	16	4.57	Mud,Nel,Tep,Kar	Under growth human interfirence & poachers		Vichels, Sprays, Check fires, Beating, 340 km road, Fire line 50kms	
	TN/S/MUD				1999	5	2.4	Mud,Tep,Kar	Horn collectors			
	TN/S/MUD				2000	44	3.87	Mud,Nel,Tep,Kar	Poachers			
143	TN/S/MUK			No							50-60 fire lines, fire watchers	
144	TN/S/POIN	25		No				No				
145	TN/S/UDA	0.44		No	Nil							
146	TN/S/VAD	1.28		No	Nil							
147	TN/S/VED	0.27		No	Nil						N.A	
148	TN/S/VELL	0.77185		No	Nil							
149	TN/S/VET	0.37948		No	Nil							No fires in the last 5 years
											A vigilant watch is maintained. The local people have also been educated about the all ill effects of forest fires.	
150	TRI/S/GUM	389.59	NP	Yes	every yr				Graziers			
151	UP/S/CHA	96		No							37 km of fire lines. Manual beating of fire is also carried out.	
152	UP/S/KAI	501		Yes	2000-2001	5	0.148	Gurma, Halia, Ghorawal	Unknown	Ground fires had little impact.		
	UP/S/KAI				1999-2000	5	0.835	Halia, Roberts ganj, Ghorawal, Gurma	Unknown	Ground fire had little impact	Fire watcher teams are deployed during the fire season. Mobilization of people and awareness activities are being carried out before the fire season.	
153	UP/S/KAT	400.09		Yes	1997-98	8	2.67		Negligence of local villagers			
	UP/S/KAT				1998-99	4	0.79		Negligence of local villaagers			

Table 1.20: Forest Fires in PAs
Note: All values for area are in square kilometers

					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	UP/S/KAT				1999-2000	4	0.14		Negligence of local villagers			
	UP/S/KAT				1996-97	12	6.55		Negligence of local villagers	Negligible		
154	UP/S/NAT	635		Yes	2001-2002	1	0.5	Bah	Dacoits, while cooking food.		No fire lines in the PA.	
155	UP/S/PAR	10.8447		No							Forest fire did not occur	No fire incident reported
156	UP/S/RAN	220.41		Yes	1999-2000	8	0.1	Manikpur	For Mahua collection	Ground fires had little impact.	1. Fire watchers are deployed during the fire season, 2. Awareness activities and community mobilisation is carried out during the fire season.	
	UP/S/RAN			Yes	2000-01	6	0.16	Markundi	For Mahua collection	Ground fires had little impact.		
157	UP/S/SAMN	5.26		Yes	Not known	1		Saman Bird Sanctuary	Not known	Not known	None	
158	UP/S/SUH	452.472		Yes	1996-97	26	3.05	Tulsipur, Bankatawa	Local villagers set fire for getting good fooder for their cattle.	Negligible	Fire lines (250 km.) are cut and maintained every year. Daily wagers are employed to watch and fight fire.	
	UP/S/SUH				1997-98	26	1.37	Tulsipur, Barahawa		Negligible		
	UP/S/SUH				1998-99	4	0.15	Barahawa		Negligible		
	UP/S/SUH				1999-2000	28	0.93	All ranges	Negligible			
159	UTT/N/COR	520.824	YES	Yes	1994-95	7	2.63	Tourism, Kalagarh, Surpduli		Destruction of habitat of wild animals and birds	Fire lines, 361.931 km in length have been cut	
	UTT/N/COR				1995-96	49	31.92	Bijrani, Sarpduli, Dhela, Jhirna, Kalagarh		Destruction of habitat of wild animals and birds		
	UTT/N/COR				1996-97	10	7.56	Dhela, Jhirna, Kalagarh		Destruction of habitat of wild animals and birds		
	UTT/N/COR				1997-98	4	0.37	Kalagarh, Bijrani		Destruction of habitat of wild animals and birds		
	UTT/N/COR				1998-99	4	0.13	Kalagarh, Bijrani		Destruction of habitat of wild animals and birds		
	UTT/N/GAN	2390.024		No							Fire beating	
160	UTT/N+S/GOV	957.969		Yes	1999-2000	10	1	All ranges	Deliberate, by locals and accidental fires	Negligible	Maintain about 100 km. of fire lines each year. Employ local people to beat fires.	
161	UTT/S/ASK	599.93		Yes	2000		0.08	Askot and Duk block of Dharchula range are particularly vulnerable.	Abundance of chir pine, accidental fires, deliberate fires by villagers to promote growth of grass		Fire lines, fire watchers, clearing of pine needles on either side of roads, removal of dead leaves.	Source: questionnaire, field visit report
	UTT/S/ASK				1999	14	1.44	Askot and Duk block of Dharchula range are particularly vulnerable.	Abundance of chir pine, accidental fires, deliberate fires by villagers to promote growth of grass			
	UTT/S/ASK				1998		0.25	Askot and Duk block of Dharchula range are particularly vulnerable.	Abundance of chir pine, accidental fires, deliberate fires by villagers to promote growth of grass			

Table 1.20: Forest Fires in PAs
Note: All values for area are in square kilometers

					New Data 1998-03							
Sno	PA code	PA Area	Old data-1984-87	New Data 1998-03	Year of occurrence	Number of Fires	Area Affected	Ranges	Causes	Impacts	Control measures	Remark
	UTT/S/ASK				1997		0.25	Askot and Duk block of Dharchula range are particularly vulnerable.	Abundance of chir pine, accidental fires, deliberate fires by villagers to promote growth of grass			
	UTT/S/ASK				1996	4	0.11	Askot				
162	UTT/S/BIN	47.07	NP	Yes	1995	24	28.5	Binsar	Accidental fires caused by villagers	Degradation of habitat. Fires also assist the process of pine eating into oak forests.	1.Fire lines - 84 km of 30m width, 50.54 km of 15m width and 33.59 km have been cut. 2. Support of villagers in detection and control (fire informers) of fire is sought	
	UTT/S/BIN				1996	7	6.3	Binsar	Accidental fires caused by villagers			
	UTT/S/BIN				1997	3	0.19	Binsar	Due to a long dry spell			
	UTT/S/BIN				1998	25	11.9	Binsar	Local villagers			
	UTT/S/BIN				1999	34	12.3	Binsar	Long dry spell			
163	UTT/S/BINO	3.3874		No							Fire lines are cut and burnt (19.80 km. in length) annually and vigilance is maintained along these.	
164	UTT/S/KED	975.2	NO	Yes	1995	11	5.52	Okhimath, Gopeshwer	Accidental fires caused by humans	The core of the PA is not particularly affected because most of the fires occur in the buffer area	Crew stations have been established with 6 staff in it to warn about forest fires. Public awareness and clearance of the fire lines before the fire season is also carried out.	
165	UTT/S/SON	301.1		Yes	1998-99						Fire lines- 353.42 km	
	UTT/S/SON				1997-98	9	0.79			Only grasses and weeds survives the fires.		
	UTT/S/SON				1996-97	1	0.2			Only grasses and weeds survives the fires.		
	UTT/S/SON				1995-96	30	20	Palain, Adnala, Maidavan		Only grasses and weeds survives the fires.		
	UTT/S/SON				1994-95	8	1.23	Adnala, Palain		Only grasses and weeds survives the fires.		
166	WB/N/GOR	79.45	NP	Yes	1998	5	5	Garumara (N) & (S)	Not known	Disturbance of fauna, flora partly destroyed	Fire watchers employed, 63km fire lines, beating method is used.	
167	WB/S/BAL	2.021		No	None						None	
168	WB/S/CHA	9.492		Yes	1998	1		Chapramari Beat	Biotic	Not assessed	Maintenance of fire lines, over 10 kms.	
	WB/S/CHA				1999	1		Chapramari Beat	Biotic	Not assessed		
	WB/S/CHA				2000	1		Chapramari Beat	Biotic	Not assessed		
	WB/S/CHA				2001	1		Chapramari Beat	Biotic	Not assessed		
169	WB/S/RAM	0.1431		No	No						Marking fire lines.	
170	WB/S/SEN	38.88	NP	Yes	1994,95,96			Entire Sanctuary	Notknown	Havoc, damage	No adequate steps taken owing to various factors like tremendous terrain.	
	WB/S/SEN				1997,98			Entire Sanctuary	Notknown	Havoc, damage		

Table 1.21: Floods in PAs

Table 1.21: Floods in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
1	A&N/N/SAD	No	32.54							
2	A&N/S/CUT	No	5.82							
3	A&N/S/INT	No	133.00							
4	A&N/S/NAR		6.81						NA	
5	A&N/S/NOR	Nil	3.48							
6	AP/N/KAS	No	1.43							
7	AP/N/MAH	No	14.59							
8	AP/N/MRU	No	2.80							
9	AP/N/VEN	No	525.97							
10	AP/S/COR	No	235.70							
11	AP/S/ETU		803.00							
12	AP/S/GUN	No	1194.00							
13	AP/S/KAW	No	893.00							
14	AP/S/KOL	Yes	308.00							
15	AP/S/KOU	No	357.63							
16	AP/S/KRI	No	194.21							
17	AP/S/MAN	No	20.00							
18	AP/S/NEL	No	4.58							
19	AP/S/PAK	No	860.00							
20	AP/S/PAP	No	590.68							
21	AP/S/POC	No	130.00							
22	AP/S/PRA		136.00							
23	AP/S/PUL	Yes	600.00							
24	AP/S/SIW	Yes	29.81		the banks of godavari which is a part of the Sanctuary			Interferes with the habitat of the PA		Query response
25	ARU/N/MOU		483.00							
26	ARU/N/NAM	No	1985.25			Not recorded			NA	
27	ARU/S/DER	Yes	190.00	1998		All ranges	Excessive torrential rain	Not available	Two boulder spurs were constructed at Sibiamukh range during 1997-98	
28	ARU/S/KAM		783.00							
29	ARU/S/MEH	Yes	281.50	1995	0.07	Mehao	Natural causes		Gully plugging was initiated in 1998-99.	
	ARU/S/MEH			1996	0.05	Mehao	Natural causes			
	ARU/S/MEH			1997	0.09	Mehao	Natural causes			
	ARU/S/MEH			1998	1.60	Mehao	Natural causes			
30	ARU/S/YOR	No	445.98							
31	ASS/N/DIB	Yes	340.00							
32	ASS/N/KAZ	Yes	407.90	1988	409.00	Whole Kaziranga National Park	Abnormal rain in catchment area of the Brahmaputra river	Few rhino, buffalo, elephant, swamp deer, hog deer are drowned and knocked down by vehicles on the highway that passes through the park	Departments of Eco-Development, Flood control and the Brahmaputra Board are engaged in flood control measures.	
	ASS/N/KAZ			1998	400.00	Whole Kaziranga National Park	Abnormal rain in catchment area of the Brahmaputra river	Few rhino, buffalo, elephant, swamp deer, hog deer are drowned and knocked down by vehicles on the highway that passes through the park		

Table 1.21: Floods in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
33	ASS/N/MAN	No	519.77							
34	ASS/N/NAME	No	200.00							
35	ASS/N/ORA	Yes	78.80	1995	52.00	Orang National Park	Annual flooding of the Brahmaputra river		It is a natural phenomena and has an ecological role to play	
	ASS/N/ORA			1996	50.00	Orang National Park	Annual flooding of the Brahmaputra river			
	ASS/N/ORA			1997	60.00	Orang National Park	Annual flooding of the Brahmaputra river			
	ASS/N/ORA			1998	55.00	Orang National Park	Annual flooding of the Brahmaputra river			
	ASS/N/ORA			1999	50.00	Orang National Park	Annual flooding of the Brahmaputra river			
36	ASS/S/BAR	No	26.21							
37	ASS/S/BUR	Yes	44.00							
38	ASS/S/DIP	No	0.02							
39	ASS/S/EKAR	No	221.81							
40	ASS/S/GAR	No	6.00							
41	ASS/S/GIB	No	19.16							
42	ASS/S/KAR		96.00							
43	ASS/S/LAO	Yes	70.10							
44	ASS/S/NAMB	No	37.00							
45	ASS/S/PAN	Yes	33.93	1994	33.93					
	ASS/S/PAN			1995	33.93					
	ASS/S/PAN			1996	33.93					
	ASS/S/PAN			1997	33.93					
	ASS/S/PAN			1998	33.93					
46	ASS/S/POB	Yes	16.00	1998	16.00	Entire PA	Heavy rain	Negative impact on grasslands. The floods also resulted in the death of 2 Rhino calf, 8 wild boar, 4 buffalos, 1 Jungle cat		
47	ASS/S/SON	No	220.00							
48	BIH/S/RAJ	No	35.84							
49	CHD/S/SUK	No	26.11							
50	CHT/N/IND	No	2799.09							
51	CHT/N/KAN	No	200.00							
52	CHT/S/ACH	No	551.55							
53	CHT/S/BAR	No	244.66							
54	CHT/S/BHA	Yes	138.95							
55	CHT/S/GOM	No	277.82							
56	CHT/S/PAM	No	442.23							
57	CHT/S/SIT	No	558.55							
58	CHT/S/TAM	No	608.53							
59	CHT/S/UDA	No	237.27							
60	DEL/S/ASO	No	27.81							
61	GOA/S/BON	No	7.95						NA	
62	GOA/S/CHO	No	1.80							
63	GUJ/N/BAN	No	23.99							
64	GUJ/S/PUR	No	160.35							
65	GUJ/S/RAT	No	55.65						NA	

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Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
66	GUJ/S/WIL	Yes	4953.71					Every year this area turns into a wetland during monsoon. This has a positive effect on the habitat.		
67	HAR/N/SUL	No	1.42							
68	HAR/S/ABU	No	113.97							
69	HAR/S/BHIN	Yes	4.07					As the PA is a wetland ecosystem, excess water is not a limiting factor		
70	HAR/S/BIRB	No	4.14							
71	HAR/S/BIRS	No	7.58							
72	HAR/S/CHIL		0.28							
73	HAR/S/KAL		100.00							
74	HAR/S/KHA	No	0.82							
75	HAR/S/NAH	No	2.09							
76	HAR/S/SAR		44.02							
77	HP/N/GRE	No	905.40							
78	HP/S/DAR	No	46.59	1997	0.05	Dofda	Cloud Burst	No Impact except overflowing of gullies		
79	HP/S/DHA	No	943.98							
80	HP/S/GAM	No	109.00							
81	HP/S/KAI	No	12.61							
82	HP/S/KAL	No	69.47							
83	HP/S/KAN	No	58.18	1997-98			Cloud burst			
84	HP/S/KHO	No	19.35							
85	HP/S/KUG	No	378.87	1995	0.05	Around Hadsar	Excessive Rains	Around 10-15 trees were uprooted & washed down		
86	HP/S/LIP	No	30.89							
87	HP/S/MAN	No	29.00							
88	HP/S/NAR	No	278.38							
89	HP/S/PON		307.70							
90	HP/S/RUP	No	269.15							
91	HP/S/SAN	No	650.00						Planning to make check dams. Undertake pasture development, soil conservation and plantation works	
92	HP/S/SHI	No	90.37	1999	3.00	Karsog	Cloud burst	Landslides, Soil erosion and damage to the vegetation	Raising plantation and construction of check walls in affected areas.	
93	HP/S/TUN	No	64.00							
94	J&K/N/HEM	No	3350.00	1996	30	Markha, Chilling, Skew	Due to melting of snow.	Negligible		
	J&K/N/HEM			1999	10	Markha, Chilling, Skew	Due to melting of snow.	Negligible		
95	J&K/N/KIS	No	425.00							
96	J&K/S/CHA		4000.00	1999-2000	10	Nyoma, Chushul	Melting of snow, rain	Loss of breeding sites of migratory birds.		
	J&K/S/CHA	No		1998-99	10	Nyoma, Chushul	Melting of snow and rain	Loss of trees, soil erosion.	Measures initiated	
97	J&K/S/KAR	No	5000.00						NA	
98	J&K/S/OVE	No	425.00							
99	JHA/N/RAJ	No	0.74							

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Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
100	JHA/S/HAZ	No	186.26							
101	JHA/S/PAR		50.81							
102	JHA/S/UDH	Yes	1.27							
103	KAR/N/ANS	No	250.00							
104	KAR/N/BAND	No	880.02							
105	KAR/N/BANN	No	104.27							
106	KAR/N/KUD	No	600.32						Providing Gully plugs and Cheek Dams are in process to control floods	
107	KAR/N/NAG	No	643.39							
108	KAR/S/ADI	No	0.89							
109	KAR/S/ARA	No	13.50							
110	KAR/S/ATT	No	2.23							
111	KAR/S/BHA		492.46							
112	KAR/S/BIL		540.00							Refer Management plan.
113	KAR/S/BRA	No	181.29							
114	KAR/S/DAN	No	475.02							
115	KAR/S/DOR	No	55.87							
116	KAR/S/GHA	No	29.79							
117	KAR/S/GUD		0.74							
118	KAR/S/KAV	No	526.95						No floods as such, but during rainy season to impound water, check dams, water tanks are created. Gully checks are also constructed to control soil erosions.	
119	KAR/S/MEL	No	49.82							
120	KAR/S/MOO	No	247.00							
121	KAR/S/NUG	NA	30.32							
122	KAR/S/PUS	No	92.66							
123	KAR/S/RANE	No	119.00							
124	KAR/S/RANG	Yes	0.67	1992	0.50	Ranganathittu Bird Sanctuary	Due to the release of water from the KRS dam at the up stream side	Many bird nests and chicks were washed away due to the floods		
125	KAR/S/SHA		431.23							
126	KAR/S/SHE	No	395.60							
127	KAR/S/SOM	No	88.97						Providing gully plugs and check dams are in process to control floods	
128	KAR/S/TAL	No	105.01							
129	KER/N/ERA	No	100.00							
130	KER/S/ARA	No	55.00						NA	
131	KER/S/CHIN	No	90.44							
132	KER/S/WAY	No	344.44							
133	MAH/N/AND	No	625.40					Not affected by floods		
134	MAH/N/NAV	No	133.88							
135	MAH/N/PEN	Yes	257.26					Only part of the PA is flood prone		
136	MAH/N/SAN	No	103.09							
137	MAH/S/AMB		127.11				No floods			
138	MAH/S/ANE	No	82.94							
139	MAH/S/BHA	No	104.38							
140	MAH/S/BHI	No	130.78						Nil	
141	MAH/S/BOR	No	61.10							

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Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
142	MAH/S/CHAN	No	308.97							
143	MAH/S/CHAP	No	133.23							
144	MAH/S/DEU	No	2.17							
145	MAH/S/GAU	No	260.00							
146	MAH/S/GRE	No	8496.41						NA	
147	MAH/S/GYA		203.56							
148	MAH/S/JAI	No	341.05							
149	MAH/S/KAL	No	361.71							
150	MAH/S/KAR	No	4.27							
151	MAH/S/KAT	No	73.69							
152	MAH/S/MAL	No	29.12							
153	MAH/S/MAY	No	5.15							
154	MAH/S/NAG	No	152.81							
155	MAH/S/NAI	No	29.90							
156	MAH/S/NAR	No	12.35							
157	MAH/S/PAI	No	324.64							
158	MAH/S/RAD	No	351.16							
159	MAH/S/SAG	No	10.87							
160	MAH/S/TIP		140.29		None					
161	MAH/S/WAN		205.86							
162	MAH/S/YAW	No	177.52							
163	MAH/S/YED		22.37							
164	MAN/N/KEI	Yes	40.00						N.A.	
165	MAN/N/YAN		184.40						None	
166	MEG/N/BAL	No	220.00							
167	MEG/N/NOK	No	47.48							
168	MEG/S/BAG	No	0.03							
169	MEG/S/NON	No	29.00							
170	MEG/S/SIJ	No	5.18							
171	MIZ/N/MUR		200.00						N.A.	
172	MIZ/N/PHA	No	50.00						N.A.	
173	MIZ/S/DAM	No	500.00						N.A.	
174	MIZ/S/KHA	No	41.00						N.A.	
175	MIZ/S/LEN	No	120.00						N.A.	
176	MIZ/S/NGE	No	110.00						N.A.	
177	MP/N/BAN	No	1161.47						N.A.	
178	MP/N/GHU	No	0.27							
179	MP/N/PEN	No	292.86							
180	MP/N/SAT	No	524.37							
181	MP/N/VAN	No	4.45						N.A.	
182	MP/S/BAD	No	104.45							
183	MP/S/BAG	No	478.00							
184	MP/S/GAN	No	368.62						In case of heavy rains, the gates of the dam are opened preventing any flooding.	
185	MP/S/KAR	No	202.21							
186	MP/S/KHE	No	132.78							
187	MP/S/KUN	No	344.69							
188	MP/S/NAR	No	57.20						N.A.	
189	MP/S/NAT	No	460.00							
190	MP/S/NOR	No	1186.96	1995			Nil	Nil	Nil	

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Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
191	MP/S/ORC	No	44.90							
192	MP/S/PEN	No	118.00							
193	MP/S/RAL	No	2.62						Nil	
194	MP/S/SAI	No	12.96	1995					N.A	
195	MP/S/SAN	No	364.59							
196	MP/S/SAR	No	348.12						N.A.	
197	MP/S/SON		209.21							
198	NAG/N/INT		202.02							
199	NAG/S/FAK	No	6.41							
200	NAG/S/PUL		9.23							
201	NAG/S/RAN	No	4.70							
202	ORI/N+S/BHI	No	145.00						NA	
203	ORI/S/BAD	No	304.03							
204	ORI/S/BAI	Yes	168.35							
205	ORI/S/BAL	No	71.72							
206	ORI/S/CHA	No	193.39							
207	ORI/S/CHI	No	15.53							
208	ORI/S/DEB	No	346.90							
209	ORI/S/HAD	No	191.60	1999			Super cyclone on 29 and 30th October, 1999	Many snakes were washed away and found in flood stagnated areas in the buffer zone of the sanctuary.	No need inside sanctuary	
210	ORI/S/KAR	No	147.66							
211	ORI/S/KHA	No	116.00							
212	ORI/S/KOT	No	399.50							
213	ORI/S/KUL	No	272.75	1996	Almost all culverts and cause way were partly damaged. There was also heavy damage of forest roads.	Nilgiri range(Kuldiha Sactuary	Annual rain		Damaged culverts, cause way are repaired annually. New culverts and cause way are constructed every year. Depending on availability of funds, timely laying out of cross-drains across major roads and repair of damaged roads every year is carried out.	There is difficulty of communication in this sanctuary due to non maintenance of forest roads.
	ORI/S/KUL			1997	Almost all culverts, cause way were partly damaged and heavy damage of forest roads.	Nilgiri range(Kuldiha Sactuary	Annual rain			
	ORI/S/KUL			1998	Almost all culverts, cause way were partly damaged and heavy damage of forest roads.	Nilgiri range(Kuldiha Sactuary	Annual rain			
	ORI/S/KUL			1999	Almost all culverts, cause way were partly damaged and heavy damage of forest roads.	Nilgiri range(Kuldiha Sactuary	Annual rain			

Table 1.21: Floods in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
	ORI/S/KUL			2000	Almost all culverts, cause way were partly damaged and heavy damage of forest roads.	Nilgiri range(Kuldiha Sactuary	Annual rain			
214	ORI/S/LAK	No	174.96							
215	ORI/S/SATN	No	795.52						NA	
216	ORI/S/SATS	Yes	268.94							During last five year no experienced.
217	ORI/S/SIM	No	2200.00	1996	All bridges and roads	All ranges of the PA	Annual rain		Bridges are gradually being replaced by permanent structures, timely laying out cross drains along major roads, especially along steep sloppy areas.	
218	ORI/S/SUN	No	600.00							
219	PUN/S/ABO	Yes	186.05						Nil	
220	PUN/S/AIS	No	2.60						N.A.	
221	PUN/S/BHA	No	8.20						N.A.	
222	PUN/S/BHU	No	6.60						N.A.	
223	PUN/S/DOS	No	7.50						N.A.	
224	PUN/S/GUR	No	6.10						N.A.	
225	PUN/S/HAR	Yes	86.00	1994	86.00	Sanctuary area	Excessive Rains	Otters, Wild boars, Porcupines etc. were washed away in big numbers	No control measures are possible.	
226	PUN/S/MAH	No	2.20						N.A.	
227	PUN/S/MOT	No	5.24						N.A.	
228	PUN/S/TAK		3.86						N.A.	
229	RAJ/N/DES	No	3162.00							
230	RAJ/N/KEO	No	28.73						Water is released into the nearby villages, in case there is excess water in the park.	
231	RAJ/S/BAS	No	138.69						Nil	
232	RAJ/S/BHA	No	195.02							
233	RAJ/S/JAI	No	52.00							
234	RAJ/S/JAM	No	300.00							
235	RAJ/S/KELA	No	672.00						NA	
236	RAJ/S/KUM	No	608.56						Not needed	
237	RAJ/S/NAH	No	52.40							
238	RAJ/S/PHU	No	511.41						NA	
239	RAJ/S/SAJJ	No	5.19						NA	
240	RAJ/S/SIT	No	422.94						NA	
241	RAJ/S/TAL	No	7.19							
242	RAJ/S/TOD	No	495.27						NA	
243	RAJ/S/VAN	No	25.60						Not needed	No unnatural flooding.
244	SIK/N/KHA	No	1784.00							
245	SIK/S/BAR	No	104.00							
246	SIK/S/FAM	No	51.76						NA	
247	SIK/S/KYON	No	31.00							
248	SIK/S/MAE	No	35.34						NA	
249	SIK/S/SHIN	No	43.00							

Table 1.21: Floods in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
250	TN/N/GUI	No	2.82							
251	TN/N/GUL		6.23							
252	TN/N/IND	No	958.57					No effected so far		
253	TN/N/MUD	No	321.00							
254	TN/N/MUK	Nil	78.46							
255	TN/S/CHI	No	0.48							
256	TN/S/GRI	No	477.83							
257	TN/S/KAN	No	1.04							
258	TN/S/KARA		4.53							
259	TN/S/KARI	No	0.65							
260	TN/S/KOO	No	1.20							
261	TN/S/MEL		5.93							
262	TN/S/POIN	Yes	25.00							
263	TN/S/PUL		61.47							
264	TN/S/UDA	No	0.44							No floods in the past 5 years
265	TN/S/VAD	No	1.28							No floods in the past 5 years
266	TN/S/VALL	No	16.41							
267	TN/S/VED	No	0.27							No floods in the past 5 years
268	TN/S/VELL	No	0.77							No floods in the past 5 years
269	TN/S/VET	No	0.38							No floods in the past 5 years
270	TRI/S/GUM	No	389.59							
271	TRI/S/TRI		194.70							
272	UP/S/BAK	No	28.94							
273	UP/S/CHA	Yes	96.00							
	UP/S/CHA	Yes							NA	The questionnaire reports that the PA is situated in a flood prone as well as drought prone area. This seems improbable-Arpan.
274	UP/S/KAC	No	7.00						NA	
275	UP/S/KAI	No	501.00							
276	UP/S/KAT	No	400.09							
277	UP/S/LAK		80.24							
278	UP/S/MAH	No	5.42							
279	UP/S/NAT		635.00							
280	UP/S/NAW		2.246							
281	UP/S/OKH		4.00							
282	UP/S/PAR	No	10.84							No unnatural flooding occurred in last five year
283	UP/S/PAT	No	1.05							
284	UP/S/RAN	No	220.41							
285	UP/S/SAMN		5.26							
286	UP/S/SAMS		7.99							
287	UP/S/SAN		2.25							
288	UP/S/SOH		428.20							
289	UP/S/SUH	Yes	452.47							
290	UP/S/SURA	No	34.33						NA	
291	UP/S/SURS	No	7.13							
292	UP/S/VIJ	No	2.62							
293	UTT/N/COR	No	520.82							
294	UTT/N/GAN	No	2390.02	1999-2000	25	Gangotri	Cloud burst	Erosion, uprooting of trees	None	

Table 1.21: Floods in PAs
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Situated in a Flood Prone Zone	PA Area	Year	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
295	UTT/N+S/GOV	No	957.97	1999-2000	500	All ranges	Sudden cloudburst	Mostly dead and fallen trees were swept away into Tons river	None	
296	UTT/S/ASK	No	599.93						NA	
297	UTT/S/BIN	No	47.07							
298	UTT/S/BINO	No	3.39						NA	
299	UTT/S/KED		975.20							
300	UTT/S/SON	No	301.10			Along Mandal river		Landslides, erosion of agricultural fields	Nil	
301	WB/N/GOR	No	79.45						NA	
302	WB/N/NEO		88.00							
303	WB/N/SUN	Yes	2585.00	1999	4.00	SWLS,BH	Heavy rains followed by storms.	No concrete data available	Mangrove Forest works for shelter against floor and storm so protection works forest very important. Local areas have been protected by undertaking soil conservation measures.	
	WB/N/SUN			1998	5.00	SWLS,BH	Heavy rains followed by storms.	No concrete data available		
	WB/N/SUN			1997	3.00	SWLS,BH	Heavy rains followed by storms.	No concrete data available		
304	WB/S/BAL	No	2.02							
305	WB/S/BET	No	0.67							
306	WB/S/BIB	Yes	0.64	1998	0.21	B.S.F. Range, Parmadan Beat	Heavy rain	Nil	Not yet taken due to paucity of fund.	
307	WB/S/CHA	No	9.49						NA	
308	WB/S/HAL	No	5.95							
309	WB/S/LOT		38.00							
310	WB/S/RAI	Yes	1.30		NA					
311	WB/S/RAM	No	0.14				No flood in the past five years		Nil	
312	WB/S/SEN		38.88							

Table 1.22: Droughts in PAs

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
1	A&N/N/SAD	32.54	No								
2	A&N/S/CUT	5.82	No								
3	A&N/S/INT	133	No								
4	A&N/S/NAR	6.81	No							NA	
5	A&N/S/NOR	3.48	No							NA	
6	AP/N/KAS	1.425	No								
7	AP/N/MAH	14.59	Yes	1997	November-June	14.59	Mahaveer Harina Vanasthali	Poor rainfall	Lack of green fodder and drinking water	Soil & moisture conservation works, water harvesting structures, tubewells sinking, raising fodder enclosures	
	AP/N/MAH		Yes	1999	October - November	14.59	Mahaveer Harina Vanasthali	Poor rainfall	Lack of green fodder and drinking water	Soil & moisture conservation works, water harvesting structures, tubewells sinking, raising fodder enclosures	
8	AP/N/MRU	2.8	Yes	1997	January-June	2.8	Chilkur	Deficient rain fall	Water and green fodder had to be transported from outside.	One large tank is formed in the PA which has not dried-up last year.	
9	AP/N/VEN	525.97	No								
10	AP/S/COR	235.7									
11	AP/S/ETU	803									
12	AP/S/GUN	1194	No								
13	AP/S/KAW	893	No								
14	AP/S/KOL	308	No								
15	AP/S/KOU	357.63	Yes	1995, 1997, 1999	June, July August	357.63	Palamaner and Kuppam	Insufficient rains		Continuous Contour Trenches have been dug and a length of 7.60 kms along the contours along with gully check damming of an area of 2300 ha.	
16	AP/S/KRI	194.21	No								
17	AP/S/MAN	20	Yes								
18	AP/S/NEL	4.58	Yes	1999	May to October, December		Nelapattu Bird Sanctuary	No rains	Delay in Birds arrival, delayed planting. Birds avoided breeding.	Formation of Kuntas and deepening of tank	
19	AP/S/PAK	860									
20	AP/S/PAP	590.68	No								
21	AP/S/POC	130	No								
22	AP/S/PRA	136	No								

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
23	AP/S/PUL	600									
24	AP/S/SIW	29.81	No								
25	ARU/N/MOU	483									
26	ARU/N/NAM	1985.245	No	1998	December	500		Not known	All the small nalas dried up	Monitoring is being done to find the reasons of sudden drought.	
27	ARU/S/DER	190	No							The PA is surrounded by river on three sides but steps are also taken by digging of water holes	
28	ARU/S/KAM	783									
29	ARU/S/MEH	281.5	No								
30	ARU/S/YOR	445.975	No								
31	ASS/N/DIB	340									
32	ASS/N/KAZ	407.9	No								
33	ASS/N/MAN	519.77	No								
34	ASS/N/NAME	200	No								
35	ASS/N/ORI	78.8	No								
36	ASS/S/BAR	26.21	No								
37	ASS/S/BUR	44	No								
38	ASS/S/DIP	0.01656	No								
39	ASS/S/EKAR	221.81	No								
40	ASS/S/GAR	6	No								
41	ASS/S/GIB	19.16	No	1999	6 months	19.16	E.W.N.S.	No rainfall	The wild animals come out of the PA boundary up to Bhogdoi river in search of water.	No steps taken other than providing water from the ringwall to the primates nearby.	
42	ASS/S/KAR	96									
43	ASS/S/LAO	70.1	No								
44	ASS/S/NAMB	37	No								
45	ASS/S/PAN	33.93	No								
46	ASS/S/POB	16	No								
47	ASS/S/SON	220	No								
48	BIH/S/RAJ	35.84	No								
49	CHD/S/SUK	26.11	No							Water holes have been constructed to store water for wild animals. The water remains available throughout the year.	
50	CHT/N/IND	2799.086	No								

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
51	CHT/N/KAN	200	No								
52	CHT/S/ACH	551.552	No								According to the field visitors, there is a drought cycle of three years in the PA. However, since the main livelihood of people is dependent on collection of MFP and wage labour and because agriculture in the area is limited, the impact of the drought on the village economy is limited.
53	CHT/S/BAR	244.66	No							Artificial tank, Dam, Waterhole, Borewell	
54	CHT/S/BHA	138.95	Yes								
55	CHT/S/GOM	277.82	No								
56	CHT/S/PAM	442.23	No								
57	CHT/S/SIT	558.55	No								
58	CHT/S/TAM	608.527	No								
59	CHT/S/UDA	237.27	No								
60	DEL/S/ASO	27.81	No								
61	GOA/S/BON	7.95	No							NA	
62	GOA/S/CHO	1.8	No								
63	GUJ/N/BAN	23.99	No							To attract wild life towards park, number of check Dams and kundis have been constructed and existing water conservation structure have been repaired and updated. 1500 cmt of nala bunding work has been done inside the park area.	
64	GUJ/S/PUR	160.345	No								

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Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
65	GUJ/S/RAT	55.65	Yes	2000	January to July	Whole area	Kanjeta	Less rainfall		Artificial water facilities were made to provide water to wildlife such as ponds, check dams, guzzlers tanks and water tanks.	
66	GUJ/S/WIL	4953.71	Yes						None since the area is desert and drought conditions are a part of it.	Deepening of present water tanks, creation of new ponds and filling of artificial water holes with water transported in a tanker.	
67	HAR/N/SUL	1.42	Yes							Water from Huda canal by Central Government Scheme.	
68	HAR/S/ABU	113.968	No								
69	HAR/S/BHIN	4.068	No								
70	HAR/S/BIRB	4.144	No								
71	HAR/S/BIRS	7.584	No								
72	HAR/S/CHIL	0.28								Proposed has been sent to GOI for latter management of this wet land.	
73	HAR/S/KAL	100		1997	April to June	46.28	Kalesar		No tubewells or river	Natural sources of water have been joined by pipeline in a small area of the PA	
	HAR/S/KAL			1998	April to June	46.28	Kalesar		No tubewells or river	Natural sources of water have been joined by pipeline in a small area of the PA	
	HAR/S/KAL			1999	April to June	46.28	Kalesar		No tubewells or river	Natural sources of water have been joined by pipeline in a small area of the PA	
74	HAR/S/KHA	0.816	No								
75	HAR/S/NAH	2.09	No								
76	HAR/S/SAR	44.02									
77	HP/N/GRE	905.4									
78	HP/S/DAR	46.5857	No								

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
79	HP/S/DHA	943.98	No								
80	HP/S/GAM	109	No								
81	HP/S/KAI	12.61	No								
82	HP/S/KAL	69.47	No								
83	HP/S/KAN	58.18	No								
84	HP/S/KHO	19.35	No								
85	HP/S/KUG	378.87	No								
86	HP/S/LIP	30.89	No								
87	HP/S/MAN	29.00	No								
88	HP/S/NAR	278.38	No								
89	HP/S/PON	307.7	No								
90	HP/S/RUP	269.15	No	1999	January to May	269.15	Rupi+Bhaba	Lack of seasonal rain and snow	Floral species like Deodar, Kail etc. were affected. Regeneration has not been very good subsequently	None	
91	HP/S/SAN	650	No								
92	HP/S/SHI	90.37	No								
93	HP/S/TUN	64	No								
94	J&K/N/HEM	3350	No								
95	J&K/N/KIS	425	Yes	1995-1998	October and November		Kishtwar, Srichi		None		
96	J&K/S/CHA	4000	No								
97	J&K/S/KAR	5000	No							NA	
98	J&K/S/OVE	425	Yes	1999	June to November	425	Lidder	Less rainfall/snowfall			
99	JHA/N/RAJ	0.7444	No								
100	JHA/S/HAZ	186.255	No								
101	JHA/S/PAR	50.8093	No								
102	JHA/S/UDH	1.267	No								
103	KAR/N/ANS	250	No							Not applicable	
104	KAR/N/BAND	880.02	No							Soil and water conservation measures	
105	KAR/N/BANN	104.27	No							Desilting of exiting water tanks & construction of check dams, nalabunds to store water.	
106	KAR/N/KUD	600.324	No							No such necessity has arise so far	
107	KAR/N/NAG	643.392	No								

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Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
108	KAR/S/ADI	0.885	No								
109	KAR/S/ARA	13.5	No								
110	KAR/S/ATT	2.226	No								
111	KAR/S/BHA	492.46	No								
112	KAR/S/BIL	540									
113	KAR/S/BRA	181.29	No								
114	KAR/S/DAN	475.018	No								
115	KAR/S/DOR	55.873	No								
116	KAR/S/GHA	29.785	No								
117	KAR/S/GUD	0.7368									
118	KAR/S/KAV	526.95	No								
119	KAR/S/MEL	49.82	No								
120	KAR/S/MOO	247	No								
121	KAR/S/NUG	30.32	No								
122	KAR/S/PUS	92.66	No								
123	KAR/S/RANE	119	No								
124	KAR/S/RANG	0.67	No								
125	KAR/S/SHA	431.23									
126	KAR/S/SHE	395.6	No							Construction of water holes, tank, gullychecks, check dams, desilting of tanks	
127	KAR/S/SOM	88.97	No							No such necessity has arised so far	
128	KAR/S/TAL	105.0096	No								
129	KER/N/ERA	100	No								
130	KER/S/ARA	55	No							Soil and moisture conservation works	
131	KER/S/CHIN	90.442	Yes								
132	KER/S/WAY	344.44	No								
133	MAH/N/AND	625.4	No							Soil and moisture conservation works are undertaken	Drought not occurred
134	MAH/N/NAV	133.884	No		April,May,June	133.884	Navegaon	Steep slope	Food and water shortage	Artificial water supply	
135	MAH/N/PEN	257.26	No		May		East Pench			Setting of additional water holes	
136	MAH/N/SAN	103.09	No								
137	MAH/S/AMB	127.11									None

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
138	MAH/S/ANE	82.94	No							Artificial waterholes are put up as per the grants available(10 mtrs deep holes are dug)	Water scarcity every year
139	MAH/S/BHA	104.38	No								
140	MAH/S/BHI	130.78	No							Nil	
141	MAH/S/BOR	61.1	No								
142	MAH/S/CHAN	308.97	No								
143	MAH/S/CHAP	133.23	No								
144	MAH/S/DEU	2.17	No								
145	MAH/S/GAU	260	No								
146	MAH/S/GRE	8496.41	Yes	1972	January to June		All ranges	Climate	NA	Water is supplied by tankers to water holes.	The major drought was in 1972. Recurring droughts every year (January to June)
147	MAH/S/GYA	203.56	No		May	100	Buldhana & Khamgaon		Migration of sloth bear & sambar & other deer due to the water shortage.	Habitat improvement, water holes anicuts, bandhara, desilting.	
148	MAH/S/JAI	341.05	Yes								No drought in the last five years
149	MAH/S/KAL	361.71	No								
150	MAH/S/KAR	4.27	No								
151	MAH/S/KAT	73.69	No								
152	MAH/S/MAL	29.122	No								Abnormal water shortages are caused by human activity.
153	MAH/S/MAY	5.145								Supply water by tankers, February to June.	
154	MAH/S/NAG	152.81	No	1997	April,May,June	152.81	Nagzira	Low rain fall	Food and water shortage	Artificial water supply	
155	MAH/S/NAI	29.9	No	Every year	March to June	29.9	Beed	Low rainfall, drought prone dist.	Water shortage for wild animals	Cement nala bunds,bore wells proposed, checkdams & loose boulder structures	
156	MAH/S/NAR	12.35	No								
157	MAH/S/PAI	324.64	No								
158	MAH/S/RAD	351.16	No								

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
159	MAH/S/SAG	10.87	Yes	1995,1996,1997,1998,1999	January to June.	10.87	Whole area	Drought prone area	Migration away from the site	None	
160	MAH/S/TIP	140.29	No								Data not available
161	MAH/S/WAN	205.86	No								
162	MAH/S/YAW	177.52									
163	MAH/S/YED	22.37	Yes	1998 & 99	March to June	22.37	Yedshi	Low rain fall being a drought prone area	Water shortage to animal and staff	Cement nala bunds/nalabunding borewell/check dams/loose boulder structures	
164	MAN/N/KEI	40	No								
165	MAN/S/YAN	184.4	No								
166	MEG/N/BAL	220	No								
167	MEG/N/NOK	47.48	No							Does not arise	
168	MEG/S/BAG	0.027	No								
169	MEG/S/NON	29	No								
170	MEG/S/SIJ	5.18	No								
171	MIZ/N/MUR	200								N.A.	
172	MIZ/N/PHA	50	No							N.A.	
173	MIZ/S/DAM	500	No							N.A.	
174	MIZ/S/KHA	41	No							N.A.	
175	MIZ/S/LEN	120	No							N.A.	
176	MIZ/S/NGE	110	No							N.A.	
177	MP/N/BAN	1161.471	Yes							N.A.	
178	MP/N/GHU	0.272	No								
179	MP/N/PEN	292.857	No								
180	MP/N/SAT	524.37	No							N.A.	
181	MP/N/VAN	4.45	No							N.A.	
182	MP/S/BAD	104.45	No								
183	MP/S/BAG	478	No								
184	MP/S/GAN	368.62	No							N.A.	
185	MP/S/KAR	202.21	No								
186	MP/S/KHE	132.778	No								
187	MP/S/KUN	344.686	Yes							N.A.	
188	MP/S/NAR	57.197	No							N.A.	
189	MP/S/NAT	460	No								
190	MP/S/NOR	1186.961	No							NA	
191	MP/S/ORC	44.9	No								

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
192	MP/S/PEN	118	No								
193	MP/S/RAL	2.6198	No								
194	MP/S/SAI	12.96	No							N.A.	
195	MP/S/SAN	364.593	No								
196	MP/S/SAR	348.12	No	1999	August/ September.	348	Sardarpur	Less rainfall.	Number of birds coming to the sanctuary is adversely affected. Early departure of migratory birds.		
197	MP/S/SON	209.21									
198	NAG/N/INT	202.02	No								
199	NAG/S/FAK	6.41	No								
200	NAG/S/PUL	9.23	No								
201	NAG/S/RAN	4.7	No								
202	ORI/N+S/BHI	145	No							NA	
203	ORI/S/BAD	304.03	Yes	1999- 2000	March-June	304.03	Badarama	Less rainfall	Migration of wildlife towards villages, increased poaching and forest fires.		
	ORI/S/BAD			2000- 2001	March-June	304.03	Badarama	Less rainfall	Migration of wildlife towards villages, increased poaching and forest fires.		
204	ORI/S/BAI	168.35	No	2000	April-July	168.35	Barigocha	Natural	Drying of natural water sources and fall in water table	It is natural and beyond our control	
205	ORI/S/BAL	71.72	No								
206	ORI/S/CHA	193.39	No	1994	April,May,June	193.39	All four ranges	No rain	No loss of wildlife	No step has taken	
	ORI/S/CHA			1996	April,May,June	193.39	All four ranges	Scarcity of rain during rainy season	No loss of wildlife		
207	ORI/S/CHI	15.53	No								
208	ORI/S/DEB	346.9	Yes							Improvement of water holes, tanks	
209	ORI/S/HAD	191.6	No	1995	March, April, December	191.6	All over	Lack of rain	Not ascertained properly. All wildlife was effected.	Only one pond/check dam was constructed during 1996. No further work/measures have been taken so far due to non availability of funds.	
	ORI/S/HAD			1996	November, December	191.6	All over	Lack of rain	Not ascertained properly. All wildlife was effected.		

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
	ORI/S/HAD			1997	February, September, October, November, December	191.6	All over	Lack of rain	Not ascertained properly. All wildlife was effected.		
	ORI/S/HAD			1998	January, February, March, April, May, June	191.6	All over	Lack of rain	Not ascertained properly. All wildlife was effected.		
	ORI/S/HAD			1999	March, April, May	191.6	All over	Lack of rain	Not ascertained properly. All wildlife was effected.		
210	ORI/S/KAR	147.66	Yes							No	
211	ORI/S/KHA	116	No								
212	ORI/S/KOT	399.5	Yes		March to June	339.5	Both	Low rainfall	Not estimated		
213	ORI/S/KUL	272.75	No							Game tanks, ponds, water harvesting structures are being constructed to meet the demand of wildlife in the PA every year. This is done if funds are available.	As there is very less availability of perennial source of water, shortage of water occurs each year for wildlife.
214	ORI/S/LAK	174.958	No								
215	ORI/S/SATN	795.52		1998	August to May	All		Natural drought	Migration of wild animals, vulnerable to poaching, more forest fire.		
	ORI/S/SATN		No	1996	October to May	All		Natural drought	Migration of wild animals, vulnerable to poaching, more forest fire.	No funds available for creation of sufficient check dam, water harvesting structure. A few game tanks were renovated.	
	ORI/S/SATN			1999, 2000, 2001	August to March	All		Natural drought	Migration of wild animals, vulnerable to poaching, more forest fire.		
216	ORI/S/SATS	268.94	No	2000	April to June	Whole	Chhamundia, Kasanga	Natural	Drying of natural water sources and deepening of water table	It is natural and beyond our control.	
217	ORI/S/SIM	2200	No							NA	
218	ORI/S/SUN	600	No	1996-99	December-June						

Table 1.22: Droughts in PAs
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Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
	ORI/S/SUN			2000-2001	October			Low rainfall	Migration of animals	Water harvesting structures have been constructed along nallahs. Water tanks have been built.	
219	PUN/S/ABO	186.05	No								
220	PUN/S/AIS	2.6	No								
221	PUN/S/BHA	8.2	No								
222	PUN/S/BHU	6.6	No								
223	PUN/S/DOS	7.5	No								
224	PUN/S/GUR	6.1	No								
225	PUN/S/HAR	86	No								
226	PUN/S/MAH	2.2	No								
227	PUN/S/MOT	5.24	No								
228	PUN/S/TAK	3.86									
229	RAJ/N/DES	3162	Yes								
230	RAJ/N/KEO	28.73		2000	March to July		Keoladeo	Lack of rainfall	No loss of wildlife due to drought		
	RAJ/N/KEO		Yes	1999	March to July		Keoladeo	Lock of rainfall	No loss of wildlife due to drought		
231	RAJ/S/BAS	138.69		2000	April, May, June	138.69	Bassi	Less rain falls	Nil		
	RAJ/S/BAS		No	1999	April, May, June	138.69	Bassi	Less rain falls	Nil	Construction of anicuts, water holes, drainage lines	
	RAJ/S/BAS			2001	April, May, June	138.69	Bassi	Less rain falls	Nil		
232	RAJ/S/BHA	195.015	No								
233	RAJ/S/JAI	52	Yes	1999	May- June			Natural	Population of wild animal is not increasing in no.		
	RAJ/S/JAI			2000	Apr- May- June		Jaisamand	Natural			
	RAJ/S/JAI			2001	March	52					
234	RAJ/S/JAM	300	No								Drought did not occur in the PA in the past five years.
235	RAJ/S/KELA	672		2000-01	Sep-2000 April-2001	Whole PA	All ranges	Abnormally low rainfall and long dry spells.	Degradation of forest, migration of wild animals towards perennial water sources		

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
	RAJ/S/KELA		Yes	1999-2000	Sep-99 to June-2000	Whole PA	All ranges	Abnormally low rainfall and long dry spells.	Degradation of forest, migration of wild animals towards perennial water sources.	In order to mitigate effects of recurrent drought, perennial water points (around 25) have been constructed.	
236	RAJ/S/KUM	608.56	Yes								
237	RAJ/S/NAH	52.4	No								Drought did not occur in the PA in the past five years.
238	RAJ/S/PHU	511.41	No							NA	
239	RAJ/S/SAJJ	5.19		1999	Throughout the year	5.15	Entire PA	Less rain fall.			
	RAJ/S/SAJJ		Yes	1998	Throughout the year	5.15	Entire PA	Less rain fall.		New water sources as well as tube wells have been created.	
	RAJ/S/SAJJ			2000	Throughout the year	5.15	Entire PA	Less rain fall.			
	RAJ/S/SAJJ			2001	Throughout the year	5.15	Entire PA	Less rain fall.			
240	RAJ/S/SIT	422.94		1998	March to June	422.94	All ranges	Less rain	Local migration of animals		
	RAJ/S/SIT		No	1997	March to June	422.94	All ranges	Less rain	Local migration of animals	Anicuts, creation of water holes and drainage line treatment	
	RAJ/S/SIT			1999	March to June	422.94	All ranges	Less rain	Local migration of animals		
	RAJ/S/SIT			2000	March to June	422.94	All ranges	Less rain	Local migration of animals		
241	RAJ/S/TAL	7.19	Yes	1994	April to June	7.19	Tal chapper sanctuary.	Failure of rainfall.	No loss of wildlife. The drought was effectively managed.	Aforestation activities have been taken up in Churu district to combat drought conditions.	
	RAJ/S/TAL			1997	April-June	7.19	Tal chapper sanctuary.	Failure of rainfall.	No loss of wildlife. The drought was effectively managed.	Aforestation activities have been taken up in Churu district to combat drought conditions.	
	RAJ/S/TAL			1998	April to June	7.19	Tal chapper sanctuary.	Failure of rainfall.	No loss of wildlife. The drought was effectively managed.	Aforestation activities have been taken up in Churu district to combat drought conditions.	

Table 1.22: Droughts in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
	RAJ/S/TAL			1999	January-December.	7.19	Tal Chappar Sanctuary.	Failure of rainfall.	No loss of wildlife. The drought was effectively managed.	Aforestation activities have been taken up in Churu district to combat drought conditions.	
	RAJ/S/TAL			2000	January-December.	7.19	Tal Chapper Sanctuary.	Failure of rainfall.	No loss of wildlife. The drought was effectively managed.	Aforestation activities have been taken up in Churu district to combat drought conditions.	
242	RAJ/S/TOD	495.27		2000	April, May, June	200	All ranges	Natural	Stagnation in population growth of wild animals.		
	RAJ/S/TOD		No	1999	May-June	200	All ranges	Natural	Stagnation in population growth of wild animals.	Construction of anicuts and artificial ramp wells.	
	RAJ/S/TOD			2001	March	200	All ranges	Natural	Stagnation in population growth of wild animals.		
243	RAJ/S/VAN	25.6	Yes							None	
244	SIK/N/KHA	1784	No	1998	October-April		Dzongri, Yuksom	There was no rainfall for 8 months			
245	SIK/S/BAR	104	No								
246	SIK/S/FAM	51.76	No							NA	
247	SIK/S/KYON	31	No								
248	SIK/S/MAE	35.34	No							NA	
249	SIK/S/SHIN	43	No								
250	TN/N/GUI	2.8194		2001	May to July	2.7	Guindy National Park				
	TN/N/GUI		No	2000	May to July	2.7	Guindy National Park	Natural		Planning to manually supply water	
251	TN/N/GUL	6.2312	No								
252	TN/N/IND	958.57	No								
253	TN/N/MUD	321		1980		321	Kargudi, Theppakadu, Masinagudi ranges			EB, water given to the habitat	
254	TN/N/MUK	78.46									
255	TN/S/CHI	0.4763	No								Last 3 year no rains, so no birds sighted
256	TN/S/GRI	477.83	No								
257	TN/S/KAN	1.0421	No								No rainfall for last 3 years
258	TN/S/KARA	4.53									
259	TN/S/KARI	0.6512	No								
260	TN/S/KOO	1.2	Yes	2000-2001	Feb, March & April	1.29	Koonthakulam	Failure of Monsoon	No loss. But the	Proposed to deepen the tank	
261	TN/S/MEL	5.93									

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Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
262	TN/S/POIN	25	Yes	1999	May- Aug	25		Inadequate rain	Black Buck-35, Spotted deer-3, Straying upto 7kms outside the PA.	Check dams, water trufs, pipe line, desilting of ponds and streams	
263	TN/S/PUL	61.468									
264	TN/S/UDA	0.44	No								No drought in the past 5 years
265	TN/S/VAD	1.28	No								No drought in the past 5 years
266	TN/S/VALL	16.4121	Yes	1999-2000						By constructing checkdams and percslation punch	All months are drought ecople, Failure of monsoon Octouber, November, Not studied
267	TN/S/VED	0.27	No								No drought in the past 5 years
268	TN/S/VELL	0.77185	No								No drought in the past 5 years
269	TN/S/VET	0.37948	No								No drought in the past 5 years
270	TRI/S/GUM	389.59	No								
271	TRI/S/TRI	194.704	No	1999	March-May	30	Rajnagar	Absence of rain	Scarcity of water	A water reservoir has been constructed	
272	UP/S/BAK	28.9421	No								
273	UP/S/CHA	96	Yes								
	UP/S/CHA		Yes							NA	The questionnaire reports that the PA is situated in a flood prone as well as drought prone area. This seems improbable-Arpan.
274	UP/S/KAC	7.00	No							NA	
275	UP/S/KAI	501	Yes							Water harvesting check dams had been constructed for drinking water avalability during the dry season	
276	UP/S/KAT	400.09	No								
277	UP/S/LAK	80.24		1999-2000	April to June	2.8	Lakh Bahosi				

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Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
	UP/S/LAK		No	1996-97	April to June	2.8	Lakh Bahosi	Lack of rainfall.		A dyke and a dam have been built for water conservation.	
278	UP/S/MAH	5.42	No								
279	UP/S/NAT	635	Yes	Every year.	November to June	635	Both ranges	This is an arid area and has low rain fall.	All species are adversely effected.	Water and soil conservation through bunds and trenches is carried out.	
280	UP/S/NAW	2.246	No	1996-97	April to June	0.84	Nawab Ganj	Lack of rainfall.	Faunal species like fish and turtles are adversely affected.	Rain water harvesting is carried out through construction of dams and a 3500 km. long dyke.	
281	UP/S/OKH	4	No								
282	UP/S/PAR	10.8447	No								Abnormal water storgage did not occur in past five years.
283	UP/S/PAT	1.05	No	Every year	March-June	1.05	Patna bird sanctuary		Lack of water is harmful for local birds.	Under the habitat management plan, the depth of the lake is proposed to be increased.	
284	UP/S/RAN	220.41	Yes							Check dams have been constructed to ensure availability of drinking water during the dry season.	
285	UP/S/SAMN	5.26	Yes	Every year	March to June		Saman Bird Sanctuary	Natural dryness of the area.	Shrinking of habitat for aquatic birds.	Water harvesting through construction of bunds.	
286	UP/S/SAMS	7.99	No	1996-97	April to June	3	Samaspur	Low rainfall.	Food and water shortage for wild animals.	A 3220 km. long dyke and watch towers have been constructed. Harvesting and management of rain water is also carried out.	
287	UP/S/SAN	2.246		1999-2000	April to June	2	Sandi	Low rainfall.	Food and water shortage for wild animals.		
	UP/S/SAN		No	1996-97	April to June	2	Sandi	Low rainfall.	Food and water shortage for wild animals.	A 1038 km. long dyke and watch towers have been constructed. Harvesting and management of rain water is also carried out.	

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Sno	PA code	PA Area	Drought Prone Zone	Year	Months	Area affected	Ranges	Causes	Impacts	Control measures	Remarks
288	UP/S/SOH	428.2									
289	UP/S/SUH	452.472	No								
290	UP/S/SURA	34.329	No							NA	
291	UP/S/SURS	7.13	No								
292	UP/S/VIJ	2.62	No								
293	UTT/N/COR	520.824	No								
294	UTT/N/GAN	2390.024	No							NA	
295	UTT/N+S/GOV	957.969	No							NA	
296	UTT/S/ASK	599.93	No							Creation of water holes. In 1999-2000, 7 ponds were dug at spots where there is natural recharge.	Though, the PA does not face droughts, it faces a dry spell in May-June every year.
297	UTT/S/BIN	47.07	Yes	1997	May-June	47.07	Binsar	Natural	Forest fires, loss of habitat	Water holes have been created	
	UTT/S/BIN			1999	April-June	47.07	Binsar	Natural			
298	UTT/S/BINO	3.3874	Yes								
299	UTT/S/KED	975.2									
300	UTT/S/SON	301.1	No	Annual	March to June	Southern part of the PA.		Texture of underlying rock strata.	Adversely affects habitat and wildlife.	Nil	
301	WB/N/GOR	79.45	No							NA	
302	WB/N/NEO	88	No								
303	WB/N/SUN	2585	NA							NA	
304	WB/S/BAL	2.021	Yes	N.A						Artificial water supply round the year through deep tube well and pump	
305	WB/S/BET	0.6686	No								
306	WB/S/BIB	0.64	No								
307	WB/S/CHA	9.492	No								
308	WB/S/HAL	5.95	No							NA	
309	WB/S/LOT	38									
310	WB/S/RAI	1.3	No							Water pump set has been installed to maintain level of the water source	
311	WB/S/RAM	0.1431	No					No droughts		Nil	
312	WB/S/SEN	38.88	Yes		April-June every year	38.8	Entire sanctuary	No adequate rainfall		Nothing	

Table 1.23: Pollution in PAs

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
1	A&N/N/SAD	32.54	No						
2	A&N/S/CUT	5.82	No						
3	A&N/S/INT	133	No						
4	A&N/S/NAR	6.81	No						
5	A&N/S/NOR	3.48	No						
6	AP/N/KAS	1.425	No						
7	AP/N/MAH	14.59	No			From municipal garbage dump	Dump near by	14.59	Mahaveer Harina Vanasthali NP
8	AP/N/MRU	2.8	No						
9	AP/N/VEN	525.97	No						
10	AP/S/COR	235.7	No			Pollutants from sugar factories	Sugar Factories	Only Rivers	WLM, Kakinada
11	AP/S/ETU	803	No						
12	AP/S/GUN	1194	No						
13	AP/S/KAW	893	No						
14	AP/S/KOL	308	No			Water pollution	Industries cultivation (pesticide) sewage drainage Pesci culture	308.00	Eluru
15	AP/S/KOU	357.63	No						
16	AP/S/KRI	194.21	No						
17	AP/S/MAN	20	No						
18	AP/S/NEL	4.58	No						
19	AP/S/PAK	860	No						
20	AP/S/PAP	590.68	No						
21	AP/S/POC	130	No						

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
1	A&N/N/SAD			
2	A&N/S/CUT			
3	A&N/S/INT			
4	A&N/S/NAR			
5	A&N/S/NOR			
6	AP/N/KAS			
7	AP/N/MAH	Soil, water & air pollution	Efforts are on to get the dump shifted	
8	AP/N/MRU			No water pollution & no significant air pollution
9	AP/N/VEN			
10	AP/S/COR	Not observed fully but fishermen complain that fish dying near affected area	Nil	
11	AP/S/ETU			
12	AP/S/GUN			Free from pollution
13	AP/S/KAW			
14	AP/S/KOL	Degradation	NIL	
15	AP/S/KOU			
16	AP/S/KRI			
17	AP/S/MAN			
18	AP/S/NEL			
19	AP/S/PAK			
20	AP/S/PAP			
21	AP/S/POC			

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Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
22	AP/S/PRA	136							
23	AP/S/PUL	600	No			Use of chemical industries		2.00	Pulicat Bird Sanctuary
24	AP/S/SIW	29.81	No	No system of monitoring exists					
25	ARU/N/MOU	483							
26	ARU/N/NAM	1985.245	No			No such problems			
27	ARU/S/DER	190	No						
28	ARU/S/KAM	783							
29	ARU/S/MEH	281.5	No						
30	ARU/S/YOR	445.975	No						
31	ASS/N/DIB	340	No						
32	ASS/N/KAZ	407.9	No	N.A.		Water pollution	Tea gardens, NRL	Water bodies of Kaziranga National Park.	All the ranges
	ASS/N/KAZ					Air pollution	Vehicles on national highway & smoke from N.R.L.	Not estimated	All the ranges
33	ASS/N/MAN	519.77	No						
34	ASS/N/NAME	200	No						
35	ASS/N/ORA	78.8	No						
36	ASS/S/BAR	26.21	No						
37	ASS/S/BUR	44							
38	ASS/S/DIP	0.01656				Industrial and city waste from Guwahati city.	Industries located in Guwahati city.	4.14	All ranges
39	ASS/S/EKAR	221.81	No						

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Sno	PA code	Impacts	Mngmt Action	Remarks
22	AP/S/PRA			
23	AP/S/PUL	Environment pollution	Notices issued	
24	AP/S/SIW			query response
25	ARU/N/MOU			
26	ARU/N/NAM			
27	ARU/S/DER			
28	ARU/S/KAM			
29	ARU/S/MEH			
30	ARU/S/YOR			
31	ASS/N/DIB			
32	ASS/N/KAZ	Decline in population of some birds.	Tea gardens were asked not to use harmful pesticides	
	ASS/N/KAZ	Not known	Action will be initiated after impacts have been assessed	
33	ASS/N/MAN			
34	ASS/N/NAME			
35	ASS/N/ORA			
36	ASS/S/BAR			
37	ASS/S/BUR			
38	ASS/S/DIP	Water contamination	None	
39	ASS/S/EKAR			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
40	ASS/S/GAR	6	No						
41	ASS/S/GIB	19.16	No						
42	ASS/S/KAR	96	No						
43	ASS/S/LAO	70.1	No						
44	ASS/S/NAMB	37	No						
45	ASS/S/PAN	33.93	No						
46	ASS/S/POB	16	No		1997	Water pollution	Insecticide from paddy fields	1.86	Haduk, Solmari, Tuplung Jan
	ASS/S/POB				1998	Water pollution	Insecticide from paddy fields	1.86	Haduk, Solmari, Tuplung jan
47	ASS/S/SON	220	No						
48	BIH/S/RAJ	35.84	No	N.A.					
49	CHD/S/SUK	26.11	No	N.A.					
50	CHT/N/IND	2799.086	No						
51	CHT/N/KAN	200	No			Bathing by tribals	Local tribals		Both ranges
52	CHT/S/ACH	551.552	No						
53	CHT/S/BAR	244.66	No						
54	CHT/S/BHA	138.95	No						
55	CHT/S/GOM	277.82	No						
56	CHT/S/PAM	442.23	No						
57	CHT/S/SIT	558.55	No						
58	CHT/S/TAM	608.527	No						
59	CHT/S/UDA	237.27							
60	DEL/S/ASO	27.81	No	N.A.					
61	GOA/S/BON	7.95	No						

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
40	ASS/S/GAR			
41	ASS/S/GIB			
42	ASS/S/KAR			
43	ASS/S/LAO			
44	ASS/S/NAMB			
45	ASS/S/PAN			
46	ASS/S/POB	Death of fishes		
	ASS/S/POB	Death of fishes		
47	ASS/S/SON			
48	BIH/S/RAJ			
49	CHD/S/SUK			
50	CHT/N/IND			
51	CHT/N/KAN	Disturbance of water bodies and wetland fauna	Taking them out	
52	CHT/S/ACH			
53	CHT/S/BAR			
54	CHT/S/BHA			
55	CHT/S/GOM			
56	CHT/S/PAM			
57	CHT/S/SIT			
58	CHT/S/TAM			
59	CHT/S/UDA			
60	DEL/S/ASO			
61	GOA/S/BON			

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Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
62	GOA/S/CHO	1.8	No		1999	Plastics (polythene bags, bottles, etc.), rubber (tyres, tubes), foam, oil, etc.	Tourism, and transport of mine ores in Mandovi river.	0.48	Campal, Panaji
63	GUJ/N/BAN	23.99	No						
64	GUJ/S/PUR	160.345	No						
65	GUJ/S/RAT	55.65	No						
66	GUJ/S/WIL	4953.71	No	There is no pollution monitoring system. However, activities like salt manufacturing, manufacturing of chemicals at the Dhrangadhra chemicals factory and use of a part of the PA by the army as a firing range cause pollution.	Annual	Salt manufacturing results in creation of high concentration brine. Disposal of chemical and other effluents by the Dhrangadhra chemicals factory and the activities of the army cause pollution.			
67	HAR/N/SUL	1.42	No						
68	HAR/S/ABU	113.968	No						
69	HAR/S/BHIN	4.068	No						
70	HAR/S/BIRB	4.144	No						
71	HAR/S/BIRS	7.584	No						
72	HAR/S/CHIL	0.28	No						
73	HAR/S/KAL	100	NA	NA					
74	HAR/S/KHA	0.816	No						
75	HAR/S/NAH	2.09	No						

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
62	GOA/S/CHO	Negligible	Removal operations undertaken	
63	GUJ/N/BAN			
64	GUJ/S/PUR			
65	GUJ/S/RAT			
66	GUJ/S/WIL			
67	HAR/N/SUL			
68	HAR/S/ABU			
69	HAR/S/BHIN			
70	HAR/S/BIRB			
71	HAR/S/BIRS			
72	HAR/S/CHIL			
73	HAR/S/KAL			
74	HAR/S/KHA			
75	HAR/S/NAH			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
76	HAR/S/SAR	44.02							
77	HP/N/GRE	905.4							
78	HP/S/DAR	46.5857	No						
79	HP/S/DHA	943.98	No						
80	HP/S/GAM	109	No						
81	HP/S/KAI	0	No	None					
82	HP/S/KAL	69.47	No						
83	HP/S/KAN	0	No	NA					
84	HP/S/KHO		No						
85	HP/S/KUG	378.87	No						
86	HP/S/LIP	30.89	No						
87	HP/S/MAN	0	No	Yes	Annually	Accumulation of solid wastes around Manali town. Noise pollution within and around Manali town.			
88	HP/S/NAR	278.38	No						
89	HP/S/PON	307.7	No						
90	HP/S/RUP	269.15	No						
91	HP/S/SAN	650	No		1995 onwards	Air and Sound Pollution	Baspa Hydel Project	3.50	Sangla

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
76	HAR/S/SAR			
77	HP/N/GRE			
78	HP/S/DAR			
79	HP/S/DHA			
80	HP/S/GAM			
81	HP/S/KAI			
82	HP/S/KAL			
83	HP/S/KAN			
84	HP/S/KHO			
85	HP/S/KUG			
86	HP/S/LIP			
87	HP/S/MAN		None	
88	HP/S/NAR			
89	HP/S/PON			
90	HP/S/RUP			
91	HP/S/SAN	A dam and a diversion tunnel is being constructed under the Baspa Hydel Project. There is a lot of blasting, construction and transportation taking place.	None	The project is located in the area that is under the Territorial Wing.

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
92	HP/S/SHI	90.37	No						
93	HP/S/TUN	64	No						
94	J&K/N/HEM	3350	No	Nil					
95	J&K/N/KIS	425	No						
96	J&K/S/CHA	4000	No						
97	J&K/S/KAR	5000	No						
98	J&K/S/OVE	425							
99	JHA/N/RAJ	0.7444							
100	JHA/S/HAZ	186.255	No						
101	JHA/S/PAR	50.8093	No						
102	JHA/S/UDH	1.267	No						
103	KAR/N/ANS	250	No						
104	KAR/N/BAND	880.02	No						
105	KAR/N/BANN	104.27	No						
106	KAR/N/KUD	600.324	No						
107	KAR/N/NAG	643.392	No						
108	KAR/S/ADI	0.885	No						
109	KAR/S/ARA	13.5	No						
110	KAR/S/ATT	2.226	No	NA					
111	KAR/S/BHA	492.46	No						
112	KAR/S/BIL	540		NA					
113	KAR/S/BRA	181.29	No						
114	KAR/S/DAN	475.018	No						

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
92	HP/S/SHI			
93	HP/S/TUN			
94	J&K/N/HEM			
95	J&K/N/KIS			Since the area is non motorable there is no road link, no electrical or other artificial source which could otherwise cause pollution. The area is pollution free.
96	J&K/S/CHA			
97	J&K/S/KAR			
98	J&K/S/OVE			
99	JHA/N/RAJ			
100	JHA/S/HAZ			
101	JHA/S/PAR			
102	JHA/S/UDH			
103	KAR/N/ANS			
104	KAR/N/BAND			
105	KAR/N/BANN			
106	KAR/N/KUD			
107	KAR/N/NAG			
108	KAR/S/ADI			
109	KAR/S/ARA			
110	KAR/S/ATT			
111	KAR/S/BHA			
112	KAR/S/BIL			
113	KAR/S/BRA			
114	KAR/S/DAN			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
115	KAR/S/DOR	55.873	No						
116	KAR/S/GHA	29.785	No						
117	KAR/S/GUD	0.7368							
118	KAR/S/KAV	526.95	No						
119	KAR/S/MEL	49.82	No						
120	KAR/S/MOO	247	No						
121	KAR/S/NUG	30.32	No						
122	KAR/S/PUS	92.66	No						
123	KAR/S/RANE	119	No						
124	KAR/S/RANG	0.67	No						
125	KAR/S/SHA	431.23							
126	KAR/S/SHE	395.6	No						
127	KAR/S/SOM	88.97	No						
128	KAR/S/TAL	105.0096	No						
129	KER/N/ERA	100	No						
130	KER/S/ARA	55	No	NA		Aerial spray (endosulphan spray to cashew plants)	Central state farm, Aralam	14	Aralam
131	KER/S/CHIN	90.442	No						
132	KER/S/WAY	344.44	No						
133	MAH/N/AND	625.4	No						
134	MAH/N/NAV	133.884	No						
135	MAH/N/PEN	257.26	No						
136	MAH/N/SAN	103.09	No						
137	MAH/S/AMB	127.11							
138	MAH/S/ANE	82.94	No						
139	MAH/S/BHA	104.38	No						
140	MAH/S/BHI	130.78	No	Nil	?	Contamination of water	Local domestic people and cattle	10	Bhimashankar 1 and 2

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
115	KAR/S/DOR			
116	KAR/S/GHA			
117	KAR/S/GUD			
118	KAR/S/KAV			
119	KAR/S/MEL			
120	KAR/S/MOO			
121	KAR/S/NUG			
122	KAR/S/PUS			
123	KAR/S/RANE			
124	KAR/S/RANG			
125	KAR/S/SHA			
126	KAR/S/SHE			No such problems
127	KAR/S/SOM			
128	KAR/S/TAL			
129	KER/N/ERA			
130	KER/S/ARA	Decline of insect diversity	Taken up the matter with farm authorities	
131	KER/S/CHIN			
132	KER/S/WAY			
133	MAH/N/AND			
134	MAH/N/NAV			
135	MAH/N/PEN			
136	MAH/N/SAN			Study not yet conducted
137	MAH/S/AMB			None
138	MAH/S/ANE			
139	MAH/S/BHA			
140	MAH/S/BHI	Wildlife is affected	Under consideration	

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
	MAH/S/BHI		No	Nil		Garbage	Tourist and local population	10	Bhimashankar 1 and 2
141	MAH/S/BOR	61.1	No						
142	MAH/S/CHAN	308.97	NA						
143	MAH/S/CHAP	133.23	No						
144	MAH/S/DEU	2.17	No						
145	MAH/S/GAU	260	No						
146	MAH/S/GRE	8496.41	No	Study not done					
147	MAH/S/GYA	203.56	No						
148	MAH/S/JAI	341.05	No						
149	MAH/S/KAL	361.71	No						
150	MAH/S/KAR	4.27	No			Air pollution	Vehicular traffic		Karnala
151	MAH/S/KAT	73.69	No						
152	MAH/S/MAL	29.122	No						
153	MAH/S/MAY	5.145							
154	MAH/S/NAG	152.81	No						
155	MAH/S/NAI	29.9	No						
156	MAH/S/NAR	12.35	No						
157	MAH/S/PAI	324.64	No		Last 10-15 years	Water Pollution	Weeds-Ipomia silt	0.06	Sondabi
158	MAH/S/RAD	351.16	No						
159	MAH/S/SAG	10.87	No						
160	MAH/S/TIP	140.29	No	Not available					
161	MAH/S/WAN	205.86	No						
162	MAH/S/YAW	177.52	No						

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
	MAH/S/BHI	Wildlife is affected	Under consideration	This is a perennial problem.
141	MAH/S/BOR			
142	MAH/S/CHAN			
143	MAH/S/CHAP			
144	MAH/S/DEU			
145	MAH/S/GAU			
146	MAH/S/GRE			
147	MAH/S/GYA			
148	MAH/S/JAI			
149	MAH/S/KAL			
150	MAH/S/KAR	Not ascertained		Area affected is both sides along 1.5 kms highway
151	MAH/S/KAT			
152	MAH/S/MAL			
153	MAH/S/MAY			No study done
154	MAH/S/NAG			
155	MAH/S/NAI			
156	MAH/S/NAR			
157	MAH/S/PAI	Impact on wild life, siltation, so wildlife find it difficult to enter	No	
158	MAH/S/RAD			
159	MAH/S/SAG			
160	MAH/S/TIP			
161	MAH/S/WAN			
162	MAH/S/YAW			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
163	MAH/S/YED	22.37	No						
164	MAN/N/KEI	40	No	N.A.		Water	Not Known	10.00	Phumdi Area
165	MAN/S/YAN	184.4	No						
166	MEG/N/BAL	220	No						
167	MEG/N/NOK	47.48	No						
168	MEG/S/BAG	0.027	No						
169	MEG/S/NON	29	No						
170	MEG/S/SIJ	5.18	No						
171	MIZ/N/MUR	200		N.A.					
172	MIZ/N/PHA	50	No	N.A.					
173	MIZ/S/DAM	500	No	N.A.					
174	MIZ/S/KHA	41	No	N.A.					
175	MIZ/S/LEN	120	No	N.A.					
176	MIZ/S/NGE	110	No	N.A.					
177	MP/N/BAN	1161.471	No	N.A.					
178	MP/N/GHU	0.272	No	N.A.					
179	MP/N/PEN	292.857	No	N.A.					
180	MP/N/SAT	524.37	No	N.A.		Air pollution	Traffic	100.00	Pachmarhi.
	MP/N/SAT					Water pollution	Sewage from nearby town.	50.00	Pachmarhi.
	MP/N/SAT					Sound pollution	Traffic	100.00	Pachmarhi.
181	MP/N/VAN	4.45	No	N.A.					
182	MP/S/BAD	104.45	No						
183	MP/S/BAG	478	No						

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
163	MAH/S/YED			
164	MAN/N/KEI			
165	MAN/S/YAN			
166	MEG/N/BAL			Not ascertained
167	MEG/N/NOK			
168	MEG/S/BAG			
169	MEG/S/NON			
170	MEG/S/SIJ			
171	MIZ/N/MUR			
172	MIZ/N/PHA			
173	MIZ/S/DAM			
174	MIZ/S/KHA			
175	MIZ/S/LEN			
176	MIZ/S/NGE			
177	MP/N/BAN			
178	MP/N/GHU			
179	MP/N/PEN			
180	MP/N/SAT	General disturbance to wildlife.		
	MP/N/SAT	General disturbance to wildlife.		
	MP/N/SAT	General disturbance to wildlife.		
181	MP/N/VAN			
182	MP/S/BAD			
183	MP/S/BAG			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
184	MP/S/GAN	368.62	No	N.A.		Air Pollution.	Buses, trucks, jeeps and two wheelers.	32.00	Gandhisagar
185	MP/S/KAR	202.21	No	N.A.					
186	MP/S/KHE	132.778	No	N.A.					
187	MP/S/KUN	344.686	No	N.A.					
188	MP/S/NAR	57.197	No	N.A.					
189	MP/S/NAT	460	No	N.A.					
190	MP/S/NOR	1186.961	No	N.A.					
191	MP/S/ORC	44.9	No						
192	MP/S/PEN	118	No	N.A.					
193	MP/S/RAL	2.6198	No	N.A.					
194	MP/S/SAI	12.96	No	N.A.					
195	MP/S/SAN	364.593	No	N.A.					
196	MP/S/SAR	348.12	No	N.A.					
197	MP/S/SON	209.21							
198	NAG/N/INT	202.02	No						
199	NAG/S/FAK	6.41	No						

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
184	MP/S/GAN	General disturbance	None	In general there is no problem of air pollution as such, but on the road from Rampura to Bhanpura and from Rampura to Kota, there are a number of vehicles. These roads pass through the sanctuary, causing some air pollution. The road from Rawat Bhata to kuakheda causes the same problem.
185	MP/S/KAR			
186	MP/S/KHE			
187	MP/S/KUN			
188	MP/S/NAR			
189	MP/S/NAT			
190	MP/S/NOR			
191	MP/S/ORC			
192	MP/S/PEN			
193	MP/S/RAL			
194	MP/S/SAI			
195	MP/S/SAN			
196	MP/S/SAR			
197	MP/S/SON			
198	NAG/N/INT			
199	NAG/S/FAK			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
200	NAG/S/PUL	9.23	No						
201	NAG/S/RAN	4.7	No						
202	ORI/N+S/BHI	145	No	NA					
203	ORI/S/BAD	304.03	No						
204	ORI/S/BAI	168.35	No						
205	ORI/S/BAL	71.72	No	Not applicable	1997	Water Pollution	Waste water of Puri town was diverted to the HRTS plantation in the PA.	5.00	Balukhand
206	ORI/S/CHA	193.39	No						
207	ORI/S/CHI	15.53	No						
208	ORI/S/DEB	346.9	No						
209	ORI/S/HAD	191.6	No		1995-99	Air and water pollution due to open cast mining.	Due to mining activity	4.00	Compartment Number 15 and 16
210	ORI/S/KAR	147.66	No						
211	ORI/S/KHA	116	No						
212	ORI/S/KOT	399.5	No						
213	ORI/S/KUL	272.75	No	NA					
214	ORI/S/LAK	174.958	No						
215	ORI/S/SATN	795.52	No	NA					
216	ORI/S/SATS	268.94	No	No data available					

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
200	NAG/S/PUL			
201	NAG/S/RAN			
202	ORI/N+S/BHI			
203	ORI/S/BAD			
204	ORI/S/BAI			
205	ORI/S/BAL	Not surveyed	Under study	
206	ORI/S/CHA			
207	ORI/S/CHI			
208	ORI/S/DEB			
209	ORI/S/HAD	Negligible	Mining management plan submitted by mine owners. This has been forwarded to the mining department and MoEF, Government of India	
210	ORI/S/KAR			
211	ORI/S/KHA			
212	ORI/S/KOT			
213	ORI/S/KUL			
214	ORI/S/LAK			
215	ORI/S/SATN			
216	ORI/S/SATS			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
217	ORI/S/SIM	2200	No						
218	ORI/S/SUN	600	No						
219	PUN/S/ABO	186.05	No						
220	PUN/S/AIS	2.6	No	N.A.					
221	PUN/S/BHA	8.2	No	N.A.					
222	PUN/S/BHU	6.6		N.A.					
223	PUN/S/DOS	7.5	No	N.A.					
224	PUN/S/GUR	6.1	No						
225	PUN/S/HAR	86	No	N.A.					
226	PUN/S/MAH	2.2	No	N.A.					
227	PUN/S/MOT	5.24	No	N.A.					
228	PUN/S/TAK	3.86		N.A.					
229	RAJ/N/DES	3162	No						
230	RAJ/N/KEO	28.73	No			Pollution in water	Pesticides/insecticides	11	Keoladeo
231	RAJ/S/BAS	138.69	No	Nil					
232	RAJ/S/BHA	195.015	No	NA					
233	RAJ/S/JAI		No	NA					

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
217	ORI/S/SIM			Preliminary study by regional research laboratory Bhubaneswar indicted absence/negligible extent of water or air pollution.
218	ORI/S/SUN			
219	PUN/S/ABO			
220	PUN/S/AIS			
221	PUN/S/BHA			
222	PUN/S/BHU			
223	PUN/S/DOS			
224	PUN/S/GUR			
225	PUN/S/HAR			Water quality in the wetland was recently tested by the state government and was found fit for drinking and supporting fauna and flora
226	PUN/S/MAH			
227	PUN/S/MOT			
228	PUN/S/TAK			
229	RAJ/N/DES			No pollution problem
230	RAJ/N/KEO	Under study		
231	RAJ/S/BAS			
232	RAJ/S/BHA			
233	RAJ/S/JAI			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
234	RAJ/S/JAM	300	No			Air pollution	Vehicles and mines.	5.00	Jamwa Ramgarh.
235	RAJ/S/KELA	672	No	NA					
236	RAJ/S/KUM	608.56	No	NA					
237	RAJ/S/NAH	52.4	No		1999	Air pollution	Pollution is caused by vehicles that use the roads (including a state highway) around and within the sanctuary.	10.00	Nahargarh (Fort, Jaigarh, Amer ghati area).
238	RAJ/S/PHU	511.41	No	NA					
239	RAJ/S/SAJJ	5.19	No	NA					
240	RAJ/S/SIT	422.94	No	NA					
241	RAJ/S/TAL	7.19	No						
242	RAJ/S/TOD	495.27	No	NA					
243	RAJ/S/VAN	25.6	No						
244	SIK/N/KHA	1784	No						
245	SIK/S/BAR	104	No						
246	SIK/S/FAM	51.76	No	NA					
247	SIK/S/KYON	31	No						
248	SIK/S/MAE	35.34	No	NA					
249	SIK/S/SHIN	43	No						
250	TN/N/GUI	2.8194	No	NA					
251	TN/N/GUL	6.2312							
252	TN/N/IND	958.57	No						
253	TN/N/MUD	321	Yes	Vehicle carbon at Masinagudi		Vehicle carbon at Masinagudi	Vehicle	34 kms	3

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
234	RAJ/S/JAM	Habitat and quality of eco-system is affected.	Closing of mines is proposed.	
235	RAJ/S/KELA			
236	RAJ/S/KUM			
237	RAJ/S/NAH	Quality of eco-system, flora and fauna adversely affected.		
238	RAJ/S/PHU			
239	RAJ/S/SAJJ			
240	RAJ/S/SIT			
241	RAJ/S/TAL			
242	RAJ/S/TOD			
243	RAJ/S/VAN			No study has been conducted
244	SIK/N/KHA			
245	SIK/S/BAR			
246	SIK/S/FAM			
247	SIK/S/KYON			
248	SIK/S/MAE			
249	SIK/S/SHIN			
250	TN/N/GUI			
251	TN/N/GUL			
252	TN/N/IND			
253	TN/N/MUD	Nature	Emmission checks PCB	

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
254	TN/N/MUK	78.46							
255	TN/S/CHI	0.4763							
256	TN/S/GRI	477.83							
257	TN/S/KAN	1.0421							
258	TN/S/KARA	4.53							
259	TN/S/KARI	0.6512	No						
260	TN/S/KOO	1.2	No						
261	TN/S/MEL	5.93							
262	TN/S/POIN	25				Salt affluent	Salt plants and pans	1.00	Kodikkarai
263	TN/S/PUL	61.468	No				Ennore thermal power station		
264	TN/S/UDA	0.44	No						
	TN/S/UDA		Nil						
265	TN/S/VAD	1.28	No						
266	TN/S/VALL	16.4121	No						
267	TN/S/VED	0.27	No						
268	TN/S/VELL	0.77185	No						
269	TN/S/VET	0.37948							
270	TRI/S/GUM	389.59	No						
271	TRI/S/TRI	194.704	Yes	Water reservoir					
272	UP/S/BAK	28.9421	No						
273	UP/S/CHA	96	No						
	UP/S/CHA		No						
274	UP/S/KAC	7.00	No		1997	Water pollution	Dirty water	7	Kachhua wildlife sanctuary

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
254	TN/N/MUK			
255	TN/S/CHI			
256	TN/S/GRI			
257	TN/S/KAN			
258	TN/S/KARA			
259	TN/S/KARI			
260	TN/S/KOO			
261	TN/S/MEL			
262	TN/S/POIN	Affects the water table, Water sources become saline around the PA	Repots being sent	
263	TN/S/PUL	Decrease in fauna	Authority intemated	
264	TN/S/UDA			No pollution
	TN/S/UDA			
265	TN/S/VAD			
266	TN/S/VALL			
267	TN/S/VED			
268	TN/S/VELL			
269	TN/S/VET			
270	TRI/S/GUM			
271	TRI/S/TRI			
272	UP/S/BAK			
273	UP/S/CHA			
	UP/S/CHA			No water and air pollution in the PA.
274	UP/S/KAC	Polluted water	Nil	

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
	UP/S/KAC		No		1998	Water pollution	Dirty water	7.00	Kachhua wildlife sanctuary
	UP/S/KAC		No		1996	Water pollution	Dirty water	7.00	Kachhua wildlife sanctuary
	UP/S/KAC		No		1995	Water pollution	Dirty water	7.00	Kachhua wildlife sanctuary
275	UP/S/KAI	501	No						
276	UP/S/KAT	400.09	No						
277	UP/S/LAK	80.24	No						
278	UP/S/MAH	5.42	No						
279	UP/S/NAT	635	No						
280	UP/S/NAW	2.246							
281	UP/S/OKH	4	No						
282	UP/S/PAR	10.8447	No						
283	UP/S/PAT	1.05	No						
284	UP/S/RAN	220.41	No						
285	UP/S/SAMN	5.26	No						
286	UP/S/SAMS	7.99	No						
287	UP/S/SAN	2.246	No						
288	UP/S/SOH	428.2							
289	UP/S/SUH	452.472	No						
290	UP/S/SURA	34.329	No	NA					
291	UP/S/SURS	7.13	No						
292	UP/S/VIJ	2.62	No						
293	UTT/N/COR	520.824	No						
294	UTT/N/GAN	2390.024	No	NA					
295	UTT/N+S/GOV	957.969	No	NA					

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
	UP/S/KAC	Polluted water	None	
	UP/S/KAC	Polluted water	Nil	
	UP/S/KAC	Polluted water	Turtles wer released in the water	
275	UP/S/KAI			
276	UP/S/KAT			
277	UP/S/LAK			
278	UP/S/MAH			
279	UP/S/NAT			
280	UP/S/NAW			
281	UP/S/OKH			
282	UP/S/PAR			No problem of water and air problem.
283	UP/S/PAT			
284	UP/S/RAN			
285	UP/S/SAMN			
286	UP/S/SAMS			
287	UP/S/SAN			
288	UP/S/SOH			
289	UP/S/SUH			
290	UP/S/SURA			
291	UP/S/SURS			
292	UP/S/VIJ			
293	UTT/N/COR			
294	UTT/N/GAN			
295	UTT/N+S/GOV			

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Pollution Monitoring System	Details of the Pollution Monitoring System	Year	Nature	Source	Area Affected	Ranges
296	UTT/S/ASK	599.93	No		Annually	Dust and water pollution	Roads	120	Askot, Dharchula
	UTT/S/ASK		No		Annually	Noise pollution	Roads	120	Askot, Dharchula
297	UTT/S/BIN	47.07	No			Air pollution	Vehicles		On the periphery of Binsar and on the road inside the sanctuary
298	UTT/S/BINO	3.3874	No	NA					
299	UTT/S/KED	975.2							
300	UTT/S/SON	301.1	No	None					
301	WB/N/GOR	79.45	No			Water pollution	Factory TE areas		Garumara(N)&(S)
302	WB/N/NEO	88	No						
303	WB/N/SUN	2585	Yes	Work done by Central Soil & Saline Research Centre, Canning					
304	WB/S/BAL	2.021	No						
305	WB/S/BET	0.6686				High Arsenic content in ground water	Ground water	0.67	Entire PA
306	WB/S/BIB	0.64	No						
307	WB/S/CHA	9.492		Not assessed					
308	WB/S/HAL	5.95	No						
309	WB/S/LOT	38							
310	WB/S/RAI	1.3	No						
311	WB/S/RAM	0.1431	No	Does not arise				Nil	
312	WB/S/SEN	38.88	No						

Table 1.23: Pollution in PAs
Note: All values for area are in square kilometers

Sno	PA code	Impacts	Mngmt Action	Remarks
296	UTT/S/ASK	Land slides	None	
	UTT/S/ASK	General disturbance	None	
297	UTT/S/BIN	Noise		
298	UTT/S/BINO			
299	UTT/S/KED			
300	UTT/S/SON			
301	WB/N/GOR	Killing of fish		
302	WB/N/NEO			
303	WB/N/SUN			No data or recommendation available
304	WB/S/BAL			
305	WB/S/BET	Not studied		
306	WB/S/BIB			
307	WB/S/CHA			
308	WB/S/HAL			
309	WB/S/LOT			
310	WB/S/RAI			
311	WB/S/RAM		Nil	
312	WB/S/SEN			

Table 1.24: Water Logging in PAs

Table 1.24: Water Logging in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Ranges	Impact	Mitigative Action Taken, if any	Remarks
1	AP/S/KOL	308	95to 99	Water logging due to construction of bunds for pesci culture	308.00	Eluru	Degradation	NIL	
2	AP/S/MAL	20							The PA is formed due to construction of dam
3	ASS/S/POB	16	1996	Earthen dam over Molia river, outside the PA	2.00	Pagladova	Scarcity of water in the PA	An FIR has been lodged	
	ASS/S/POB		1997	Earthen dam over Molia river, outside the PA	2.00	Pagladova	Scarcity of water in the PA		
	ASS/S/POB		1998	Earthen dam over Molia river, outside the PA	2.00	Pagladova	Scarcity of water in the PA		
4	CHD/S/SUK	26.11		None					
5	CHT/N/KAN	200		Roods and causeway construction		Both ranges	Erosion on road sides	Construction of drainage nallah and upgradation of causeway design	
6	J&K/S/KAR	5000	Not known	Hunder micro hydel project	3	Nubra	None	None	
	J&K/S/KAR		Not known	Sumur micro hydel project	3	Nubra	None	None	
7	KAR/N/ANS	250	1997	Submersion due to Hydro-electric reservoir	4.00	Anashi	Degradation of the Habitat		
8	KAR/S/DAN	475.018	1975	Tunnaling of the river-original river course dried up	15.00	Kulgi Wildlife Range	Water scarcity for animals, Change in vegetation, Change in micro climate		
9	KAR/S/DAN		1997	Submersion due to Hydro-electric Project	0.60	Wildlife Range Gund	Loss of habitat, Fragmentation of Habitat		
10	MAH/N/AND	625.4		N.A					
11	MAH/N/NAV	133.884		No					
12	MAH/N/PEN	257.26		Rare					

Table 1.24: Water Logging in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Ranges	Impact	Mitigative Action Taken, if any	Remarks
13	MAH/S/AMB	127.11		None					
14	MAH/S/GYA	203.56		No					
15	MAH/S/JAI	341.05		No					
16	MAH/S/KAL	361.71		None					
17	MAH/S/KAT	73.69		No					
18	MAH/S/MAL	29.122		N.A					
19	MAH/S/NAG	152.81		None					
20	MAH/S/NAI	29.9		N.A					
21	MAH/S/NAR	12.35		None					
22	MAH/S/PAI	324.64		None					
23	MAH/S/RAD	351.16		None					
24	MAH/S/SAG	10.87		None					
25	MAH/S/TIP	140.29		None					
26	MAN/N/KEI	40	1983 onwards	Loktak Hydrel Project, Ithai Barrage	26.00	Major part of park	Phumdis no longer make contact with ground which always used to happen during the dry season, prior to the construction of the barrage		
27	NAG/N/INT	202.02	1999	Construction of a small dam for canal	7.00	Tourist zone	Turned grassland/grazing ground to water logged area		
28	RAJ/S/JAI	52.00	NA	NA					
29	TN/S/CHI	0.4763		None					
30	TN/S/KAN	1.0421		Nil					
31	TN/S/KARI	0.6512	N.A	NA					
32	TN/S/KOO	1.2	N.A	NA					
33	TN/S/MUD	321		Nil					
34	TN/S/MUK	78.46		Nil					
35	TN/S/POIN	25		No					
36	TN/S/UDA	0.44		Nil					
37	TN/S/VAD	1.28		Sluice operation	1.28		The sluice is operated by PWD- fluctuation in birds population	Proposal to operate the sluice by FD	

Table 1.24: Water Logging in PAs
Note: All values for area are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Ranges	Impact	Mitigative Action Taken, if any	Remarks
	TN/S/VED	0.27	Nil						
38	TN/S/VELL	0.77185	2000	Irrigation	0.77	Erode	Depletion of water quantity	Action taken to update the water level	
	TN/S/VET	0.37948	Nil						
39	UP/S/VIJ	2.62	Before 1990	A channel was made to drain water for irrigation.		Vijay Sagar Bird Sanctuary	Water level in the PA has gone down.		
40	UP/S/VIJ		1991	Water is drained out by the army for ordnance factory		Vijay Sagar Bird Sanctuary	Water level in the PA has gone down.	Correspondence has been initiated in this regard.	
41	WB/N/GOR	79.45		NA					
42	WB/N/SUN	2585		No					
43	WB/S/BAL	2.021	None	None					
44	WB/S/HAL	5.95		NA					
45	WB/S/RAI	1.3		NA					
46	WB/S/RAM	0.1431		A natural age old drainage system for carrying waste from the nearby localities is running across the PA, which during rainy seasons causes problem specially to deer population to stay around.				Action could not be taken due to poor fund flow	
47	WB/S/SEN	38.88	Nil	Nil					

*Table 1.25: Other Natural Problems of a
Recurring Nature*

Table 1.25: Other Natural Problems of a Recurring Nature
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Period	Ranges	Impact	Action
1	AP/S/PAP	590.68		Land slide			Papi hills and Rampachodavram range	No considerable impact	Nil
2	AP/S/PUL	600		Accumulation of Sandbar	461.00	Yearly	Pulicat Bird Sanctuary	Reduce flow of water	Proposed opening of sandbar
3	ARU/N/MOU	483		None					
4	ARU/N/NAM	1985.245		Land slides		July and August	All hilly areas of all ranges	The affected portion becomes devoid of vegetation and ultimately gets infested by the weed Mikenia	
5	ARU/S/MEH	281.5	1992	Land slides	0.02	3 to 4 months	Mehao	Loss of vegetation	Reports have been sent to the concerned authorities
	ARU/S/MEH		1993	Land slides	0.05	3 to 4 months	Mehao	Loss of vegetation	Reports have been sent to the concerned authorities
	ARU/S/MEH		1994	Land slides	0.70	3 to 4 months	Mehao	Loss of vegetation	Reports have been sent to the concerned authorities
	ARU/S/MEH		1995	Land slides	0.06	3 to 4 months	Mehao	Loss of vegetation	Reports have been sent to the concerned authorities
	ARU/S/MEH		1996	Land slides	0.04	3 to 4 months	Mehao	Loss of vegetation	Reports have been sent to the concerned authorities
	ARU/S/MEH		1997	Land slides	0.06	3 to 4 months	Mehao	Loss of vegetation	Reports have been sent to the concerned authorities

Table 1.25: Other Natural Problems of a Recurring Nature
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Period	Ranges	Impact	Action
	ARU/S/MEH		1998	Land slides	0.80	3 to 4 months	Mehao	Loss of vegetation	Reports have been sent to the concerned authorities
	ARU/S/MEH		1999	Land slides		3 to 4 months	Mehao	Loss of vegetation	Reports have been sent to the concerned authorities
6	ARU/S/YOR	445.975		Land slides		Data not available			So far no action has been taken as the area is yet to be formally notified by the government
7	ASS/N/DIB	340		Erosion		Regularly	Guijan and Saikhowa	Loss of soil and reduction in land area	
8	ASS/S/DIP	0.01656		Siltation	4.14	During monsoon season	All the ranges	Siltation	None
9	CHD/S/SUK	26.11		None					
10	GUJ/N/BAN	23.99		Land slides in some areas		During heavy monsoon from June to September	National park Bansda		
11	GUJ/S/WIL	4953.71		Soil erosion	4953.00	Summer months	All the ranges	Sand storms during summer blow away the vegetation and/or cover those areas that have vegetation	Plantations of prosopis were done to solve this problem but have themselves become a problem
12	HAR/S/BIRB	4.144	199	Wind storm	6.00	April-July	Bir Bara Ban Jind	Felling of trees	N.A.
13	HP/N/GRE	905.4		Cloud burst	25.00	Yearly	Tirthan	Ecology of area has been affected	
14	HP/S/DAR	46.5857	1997	Cloud Burst	0.05	Happens very rarely	Dofda	Gullies in the PA overflowed	None
15	HP/S/GAM	109	Annual	Erosion due to glaciers	0.10	Once a year	Beer and Langrea beats	Loss of vegetation	None
16	HP/S/KAI	0	Annual	Landslides and flashflood		Annual			None

Table 1.25: Other Natural Problems of a Recurring Nature
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Period	Ranges	Impact	Action
17	HP/S/KAN		Annual	Avalanches and melting of glaciers	10	Once a year		Negligible	None
18	HP/S/KUG	378.87	Annual	Erosion due to glaciers	37.89	Once a year	South, South-East of the PA	Uprooting & Breaking of Trees & Landslips	None, since glaciers can't be controlled.
19	HP/S/LIP	30.89		Landslide	0.20	Rarely	Sangla	Nil	Soil conservation work
20	HP/S/MAN	0	Annually	Cloudbursts, Avalanches and Landslides				Erosion and occasional destruction of buildings in the PA	
21	HP/S/SAN	650	Annual	Flooding and erosion due to melting of glaciers	30.00	February to March	Sangla	Nallahs get flooded	Check dams and soil conservation works
22	HP/S/TUN	64	Annual	Erosion due to glaciers	5.00	Once a year	Banni and Bhadra beats	Uprooting & Breaking of Trees & Landslips	None, since glaciers can't be controlled.
23	JHA/S/PAR	50.8093		Soil erosion			Parasnath	Soil erosion	Repair Work
24	KAR/N/ANS	250	1925	Gregarious Flowering of Bamboo		40 years	Wildlife Range Anashi and Kumbarwada	Degradation of Habitat	Dead Bamboos extracted to prevent fire hazard
	KAR/N/ANS		1965	Gregarious Flowering of Bamboo	25.00		Wildlife Range Anashi and Kumbarwada	Forest fire increase in rodent population	Dead Bamboos extracted to prevent fire hazard
25	KAR/S/DAN	475.018	1995 to 2000	Block Flowering of medri bamboo		Once in 30 years	Wildlife Range Kulgi, Gund & Phansoli	Increase in forest fire, bird population increasing, Degradation of habitat	More vigilance to prevent forest fires was exercised in such areas.
26	KAR/S/DAN		1995 to 2000	Dendrocalamus strictus					
27	MAH/N/AND	625.4		Not occurred					
28	MAH/N/NAV	133.884		No					
29	MAH/N/PEN	257.26		N.A					
30	MAH/N/SAN	103.09		Landslides			Sanjay Gandhi National Park(slums).	Slums came down	Police case
31	MAH/S/AMB	127.11		None					

Table 1.25: Other Natural Problems of a Recurring Nature
 Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Period	Ranges	Impact	Action
32	MAH/S/GRE	8496.41		Drought		Almost every year	All sanctuary is a DPAP area.	Water shortage	Water supplied by tankers
33	MAH/S/GYA	203.56		No					
34	MAH/S/JAI	341.05		No					
35	MAH/S/KAL	361.71		None					
36	MAH/S/KAT	73.69		None					
37	MAH/S/MAY	5.145		Drought	All	DPAP zone, yearly	All		Water supplied by tankers.
38	MAH/S/NAG	152.81		None					
39	MAH/S/NAI	29.9		N.A					
40	MAH/S/NAR	12.35		None					
41	MAH/S/PAI	324.64		None					
42	MAH/S/RAD	351.16		None					
43	MAH/S/SAG	10.87		None					
44	MAH/S/TIP	140.29		None					
45	MEG/N/BAL	220		Soil erosion due to the loose condition of soil and heavy rainfall every year	Not ascertained	Rainy season	All ranges	Soil erosion, landslides, clogging of water-holes, etc	Maintenance/ repair of roads, footpaths, habitat amelioration proposed
46	MEG/S/SIJ	5.18		Soil erosion due to the loose condition of soil and heavy rainfall every year	Not ascertained	Rainy season	All ranges	Soil erosion, landslides, clogging of water-holes, etc	Maintenance, repairs of roads footpaths habitat amelioration proposed.
47	MIZ/N/PHA	50	1995	Landslides	1.00	At every 1-3 years interval	Phawngpui	Road inside the PA gets blocked, destruction of the habitat	None
48	MIZ/S/NGE	110	1995	Landslides	3.00		Ngengpui	Destruction of habitat	None
49	NAG/S/PUL	9.23		Landslides take place every year during the rainy season	0.23	June - September.	Toward northern side of the PA	Degradation of the PA	Nothing has been done

Table 1.25: Other Natural Problems of a Recurring Nature
Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Period	Ranges	Impact	Action
50	ORI/S/CHA	193.39		Drought	193.39	March to June	All four ranges	Scarcity of water for flora and fauna resulting death of flora and fauna	None
	ORI/S/CHA			Cyclone	193.39	September to November	All four ranges		None
51	ORI/S/KUL	272.75	Every year	Cloud bursts	Almost entire PA	During end of summer and rainy season, 2 to 3 times per year.	Nilgiri		
52	ORI/S/SIM	2200		Cloud bursts and occasionally land slides.		Two months	All ranges		
53	RAJ/S/JAI	52.00	NA						
54	SIK/N/KHA	1784		Landslides, snowslides of low to medium intensity occur occasionally					
55	SIK/S/SHIN	43		Avalanches	11.00	Annual	Shingba	Poor regeneration	
56	TN/S/CHI	0.4763		None					
57	TN/S/GRI	477.83		None					
58	TN/S/KARA	4.53	Nil						
59	TN/S/KARI	0.6512	N.A	N.A					
60	TN/S/KOO	1.2	N.A						
61	TN/S/MUD	321		None	Nil				
62	TN/S/MUK	78.46		None					
63	TN/S/POIN	25		None					
64	TN/S/UDA	0.44	Nil						
65	TN/S/VAD	1.28	Nil						
66	TN/S/VED	0.27	Nil						
67	TN/S/VELL	0.77185	Nil						
68	TN/S/VET	0.37948	Nil						
69	UP/S/PAR	10.8447		None					
70	UTT/N/GAN	2390.024	Annual	Avalanches, landslides	30	Annual	Gangotri	Degradation	None

Table 1.25: Other Natural Problems of a Recurring Nature
 Note: All values for area in this table are in square kilometers

Sno	PA code	PA Area	Year	Problem	Area affected	Period	Ranges	Impact	Action
71	UTT/N+S/GOV	957.969	2000	Land slides	10	Though landslides occur each year, these cause problems only in a few cases.	All ranges	Uprooting of trees.	Soil conservation activities have been taken up since 1999.
72	UTT/S/ASK	599.93	1998	Land slides	125	Annual	Dharchula	Loss of grazing habitat, water sources etc.	None
73	UTT/S/KED	975.2	1998	Landslides		Generally occurs every year	Okhimath, Gopeshwer	Degradation of forest and habitat	Soil conservation measures have been initiated.
74	WB/N/GOR	79.45		NA					
75	WB/N/NEO	88		Landslides	Not assessed	Very less	Lower Neora range	Very less	Not taken yet.
76	WB/N/SUN	2585		Cyclone	500.00	Almost every year	All	Eco-system	Nil
77	WB/S/BAL	2.021	None						
78	WB/S/HAL	5.95		NA					
79	WB/S/RAI	1.3		NA					
80	WB/S/RAM	0.1431		Nil					
81	WB/S/SEN	38.88		Land slide very common in rainy season every year.					

Table 1.26: Felling in PAs

Table 1.26: Felling in PAs
Note: All values for area are in square kilometers

					New Data 1998-03						
Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
1	A&N/N/SAD	NO	No	32.54							
2	A&N/S/CUT	NP	No	5.82							
3	A&N/S/INT	YES	No	133							
4	A&N/S/NAR		No	6.81							
5	A&N/S/NOR		No	3.48							
6	AP/N/KAS	NP	No	1.425							
7	AP/N/MAH	NP	No	14.59							
8	AP/N/MRU	NP	No	2.8							
9	AP/N/VEN	NP	No	525.97							
10	AP/S/COR	NO	No	235.7							
11	AP/S/ETU	YES	No	803							
12	AP/S/GUN	NP	No	1194							
13	AP/S/KAW	YES	Yes	893	Tectona grandis		Jannaram, Tadlapet, Indanpally, Birsai pet, Kaddam, Pembi.	Extraction took place upto 1980.	Commercial	Departmental	
14	AP/S/KOL	NO	No	308							
15	AP/S/KOU	NP	No	357.63							
16	AP/S/KRI	NP		194.21							Forestry operations stopped
17	AP/S/MAN	NO	No	20							
18	AP/S/NEL	NO	No	4.58							
19	AP/S/PAK	YES	No	860							
20	AP/S/PAP	YES	Yes	590.68	Teak		Polavaram	1996-97	Commercial Timber	Forest Department	
21	AP/S/POC		No	130							
22	AP/S/PRA	YES	Yes	136	It was in the past Tectona grandis - Teak		Chennur, Neelwai	Extraction took place upto 80	Commercial	Department	
23	AP/S/PUL	NO	No	600							
24	AP/S/SIW	NO	Yes	29.81	Tectona grandis		Mamthani and Mancherial	Extraction took place upto 1980	Commercial	Departmental	
25	ARU/N/MOU	NP	No	483							
26	ARU/N/NAM	NO	No	1985.245							

Table 1.26: Felling in PAs
Note: All values for area are in square kilometers

Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
27	ARU/S/DER	NO	Yes	190	Bombax ceiba		All the ranges		For match wood & veneer	Unknown	
28	ARU/S/KAM	NP	No	783							
29	ARU/S/MEH	NO	Yes	281.5	Holok Bola Titasoda, Mekahi, Amari, Gonsarai, Jia Poma Hilika, Barpat, Bogi, Poma, simul, Udal, Selleng Hatipoila, Bohera, Khakan-Dhuwa, Sirish etc.	98.00	Mehao	1964	Commercial use as pulp and fuel	Local people	
30	ARU/S/YOR	NP	No	445.975	Does not arise						
31	ASS/N/DIB	NP	Yes	340	Legestromia		Guijan and Saikhowa	Every year	Fuelwood and timber	Local people	Sporadic illegal felling.
	ASS/N/DIB	NP			Biscoffia	Unknown	Guijan and Saikhowa	Every year	Fuelwood and timber	Local people	
	ASS/N/DIB	NP			Dilonea	Unknown	Guijan and Saikhowa	Every year	Fuelwood and timber	Local people	
	ASS/N/DIB	NP			Pollget	Unknown	Guijan and Saikhowa	Every year	Fuelwood and timber	Local people	
32	ASS/N/KAZ	NP	No	407.9							
33	ASS/N/MAN	NP	No	519.77							
34	ASS/N/NAME		No	200							
35	ASS/N/ORA	NP	No	78.8							
36	ASS/S/BAR	NP	Yes	26.21	Teak (Tectona grandis)	9.00	Plains and hill areas	1998	Commercial timber	Local people	
	ASS/S/BAR				Gamari (Gmelina arboria)	9.00	Plains and hill areas	1998	Commercial timber	Local people	
	ASS/S/BAR				Simul (Bombax ceiba)	9.00	Plains and hill areas	1998	Commercial timber and pulpwood	Local people	
	ASS/S/BAR				Bansom (Phoebe goalparensis)	9.00	Hill areas	1998	Commercial timber	Local people	
37	ASS/S/BUR			44							
38	ASS/S/DIP	NP		0.01656							
39	ASS/S/EKAR		No	221.81							

Table 1.26: Felling in PAs
Note: All values for area are in square kilometers

Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
40	ASS/S/GAR		Yes	6	Wood from various species of the following description: 1. Commercial timber- 89.03 cu.mtr., 2. Poles- 150 in number, 3. Fire wood - 150 cu. mtr.	0.028	Near Grampani hot spring	1995		Forest department	
41	ASS/S/GIB	NP	Yes	19.16	Hollong	0.02	Northern Range	1995-96	Commercial Timber	Local people	
	ASS/S/GIB				Sam			1996-97	Fire wood	Local people	
	ASS/S/GIB				Sassi						
42	ASS/S/KAR		No	96							
43	ASS/S/LAO	NP	Yes	70.1	Sisoo (Delbergia sisoo)	30.00	Throughout the PA	1983	Commercial timber	Local people	
	ASS/S/LAO				Gamari (Gmelina arborea)						
	ASS/S/LAO				Koroi (Albigia procera)						
	ASS/S/LAO				Simul (Bombax ceiba)						
	ASS/S/LAO				Ajar (Lagerstomia flosresina)						
44	ASS/S/NAMB		No	37							
45	ASS/S/PAN	NP	No	33.93							
46	ASS/S/POB	NP	No	16							
47	ASS/S/SON	NP	No	220	Bonsum	Sporadic	Dhekiajuli range	1996 onwards		Encroachers	
	ASS/S/SON				Amarei	Sporadic		1996 onwards		Encroachers	
	ASS/S/SON				Gomarei	Sporadic	Central range	1996 onwards	For smuggling purpose	Timber smugglers	
48	BIH/S/RAJ	NO	No	35.84							
49	CHD/S/SUK	NO	No	26.11							No
50	CHT/N/IND	YES	No	2799.086							
51	CHT/N/KAN	NO	No	200							

Table 1.26: Felling in PAs
Note: All values for area are in square kilometers

Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
52	CHT/S/ACH	YES	Yes	551.552	The species that were mainly felled were Bamboo and Shorea robusta. All other species in the PA were also felled as per provisions of the working plan.	551.55	All the three ranges	1975 to 1991	Commercial timber	Forest Department	
53	CHT/S/BAR	YES	No	244.66							
54	CHT/S/BHA		No	138.95							
55	CHT/S/GOM		No	277.82							
56	CHT/S/PAM	YES	No	442.23							
57	CHT/S/SIT	YES	No	558.55							
58	CHT/S/TAM	YES	Yes	608.527	Timber coupes	52.90	Tamor Pingla sanctuary	1980 to 90	As per working plan	Forest Department	
	CHT/S/TAM				Over lapping Khair coupes	24.09	Tamor Pingla Sanctuary	1980 to 88	As per working plan	Forest Department	
	CHT/S/TAM				Over lapping Bamboo coupes	72.45	Tamor Pingla Sanctuary	1980 to 90	As per working plan	Forest Department	
59	CHT/S/UDA	YES	Yes	237.27	Sal, Bija, Tinsa, Karra	237.27	Udanti	Upto 1991	Departmental extraction	Forest Department	
60	DEL/S/ASO	NP	No	27.81							
61	GOA/S/BON		No	7.95							
62	GOA/S/CHO	NP	No	1.8							
63	GUJ/N/BAN	NO	No	23.99							
64	GUJ/S/PUR	NP	No	160.345							
65	GUJ/S/RAT		No	55.65							
66	GUJ/S/WIL	NP	No	4953.71							
67	HAR/N/SUL	NO	No	1.42							
68	HAR/S/ABU	NP	No	113.968							
69	HAR/S/BHIN	NP		4.068							
70	HAR/S/BIRB	NP	Yes	4.144	Eucalyptus	6.00	Bir Bara Ban Jind	1999	Pulpwood (The trees extracted had fallen due to a wind storm)	R.O. Logging, Jind	
71	HAR/S/BIRS	NP	No	7.584							

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
72	HAR/S/CHIL	NP	No	0.28							
	HAR/S/KAL	NP	Yes		Sal, Rani, Khair etc.		Kalesar	Every year in the rainy season	Fuelwood		
73				100							
74	HAR/S/KHA	NP	No	0.816							
75	HAR/S/NAH	NP	No	2.09							
76	HAR/S/SAR	NP	Yes		Eucalyptus hybrid, Acacia nilotica, prosopis juliflora		Watch tower beat	1999	Commercial timber	HFDC	
				44.02							
77	HP/N/GRE	YES	Yes		Deodar 1A+1B, Total=47=20 0.24cm, Kail IIB+IA+IB, Total=26= 101.82cm, Chil IA=1=5-10cm (Gross Total=74=357.94cm)			1998-99	Domestic purpose	Local sight holders	
				905.4							
	HP/N/GRE				Deodar IIB+IstA=Total=21=7 0.44cm, Rai IA+IB+IC+ID=Total= 31=230.52			1995-96	T.D. to sight holders	Local sight holders	
	HP/N/GRE				Kail=IIA+IIB+IA+IB+I C=Total=300=1102. 85cm (Gross total=357=1429.29c m, Chil IA=5=25-50		All ranges	1995-96	Domestic use	Local sight holders	

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
	HP/N/GRE				Deodar=IIB+IstA+IstB+IstC=252=981.21 cm,Kail IIA+IIB+IstA+IstB+IstC=Total=194=758.63,Rai Tosh IIIRD+IIB+IA+IB+IC=Total=24=160.77cm,Chil IB=Gross Total=		All ranges	1996-97	Domestic purpose	Local sight holders	
	HP/N/GRE				Deodar IIB+IA+IB=Total=57=225.45cm,Kail IIB+IA+IB=Total=32=129.49cm,Chil=IIB=Total=90=357.94cm						
78	HP/S/DAR	NO	Yes	46.5857	Deodar, Kail etc		Dofda	Annual	To meet the Timber Demand of right holders	Local people and Forest Department	
79	HP/S/DHA	NP	Yes	943.98	Chir, Rai and Tosh	Negligible	Whole range	Annual	Timber demand for houses	Right holders	The last lot of TD was extracted in 1996. Area affected was approximately 5 sq. km.
80	HP/S/GAM	YES	No	109							
81	HP/S/KAI		Yes	12.6108	Silver Fir	2.25		1966-67		Forest Department	
82	HP/S/KAL	YES	Yes	69.47	Deodar, Fir, Chil and Ban oak	2.50	Kalatop-Khajjar	1987-94	Purchasers and right holders	Local people	Timber demand extraction is now at very low level

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
83	HP/S/KAN		Yes	58.1797	Deodar and Kail			Annual	To meet the timber demand of local people. About 60 trees are felled annually.	Local people and forest department	
84	HP/S/KHO		Yes	19.3474	Deodar (6 trees were felled)			1995	House construction	Local people	Felling of trees used to be done regularly till about 1966-67 to meet the timber demand of right holders.
85	HP/S/KUG	YES	Yes	378.87	Kail & Deodar	2.00	Earlier, forested areas in the entire PA were affected. Now, only areas adjoining Kugti are affected by such felling.	Annual	Commercial Timber was extracted earlier. Now only timber demand is met.	Forest Corporation and Government Contractors were involved earlier. Now mostly local people are involved.	
86	HP/S/LIP	YES	No	30.89							
87	HP/S/MAN		Yes	29.003	Fir and Spruce trees	1.08		1969-1979	For manufacture of packing crates for horticulturists in the state	Forest Department	
88	HP/S/NAR		No	278.38							
89	HP/S/PON	YES		307.7							Information on this question was not available with the DFO (WL), Chamba
90	HP/S/RUP	YES	Yes	269.15	Deodar, Kail, Rei etc.	40.00	Rupi+Bhaba	Annually	Timber Demand by the villagers for house construction	Villagers/Right holders	

Table 1.26: Felling in PAs
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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
91	HP/S/SAN	NP	Yes	650	Deodar, Kail, Fir, Spruce	16.00	Sangla	Annual	No commercial extraction. Only Timber Demand of right holders is met	Local people	
92	HP/S/SHI	YES	Yes	90.37	Tosh, Rai, Deodar and Kail	23.05	Karsog	1994 to 1996	Commercial timber	Himachal Pradesh Forest Corporation	
93	HP/S/TUN	YES	Yes	64	Deodar, Kail	10.00	Tundah and Badgran beats	Every year for timber demand. Commercial felling stopped in 1982-83	Timber for house construction	Forest Department and local people	
94	J&K/N/HEM		No	3350							
95	J&K/N/KIS	YES	Yes	425	Deo, Kail, Fir - dry standing and dry fallen trees are collected.		Compartment numbers 19, 20, 22, 23, 24. These compartments were worked by the state forest corporation before being taken over by the wildlife department.	1996-92	Commercial timber		
96	J&K/S/CHA		No	4000							
97	J&K/S/KAR		No	5000							
98	J&K/S/OVE	NO	No	425							
99	JHA/N/RAJ	NP	No	0.7444							
100	JHA/S/HAZ	YES	No	186.255							
101	JHA/S/PAR	NP	No	50.8093							
102	JHA/S/UDH	NP	No	1.267							
103	KAR/N/ANS	NP	Yes	250	Terminalia paniculata, T. tomentosa, Lagerstroemia, Lanceolata, Dalbergia latifolia Jungle Wood		Wildlife Range Anashi	1988-89	Timber & Fuelwood	Registered labour Co-operative Society	

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
	KAR/N/ANS				Termunalia panuculata, T. tomentosa, Lagerstroemia, Lanceulata, Dalbergialatifolva Jungle Wood		Wildlife Range Anashi	1991-92	Timber & Fuelwood	Registered labour Co-operative Society	
	KAR/N/ANS				Termunalia panuculata, T. tomentosa, Lagerstroemia, Lanceulata, Dalbergialatifolva Jungle Wood		Wildlife Range Anashi	1992-93	Timber & Fuelwood	Registered labour Co-operative Society	
	KAR/N/ANS				Termunalia panuculata, T. tomentosa, Lagerstroemia, Lanceulata, Dalbergialatifolva Jungle Wood		Wildlife Range Anashi	1993-94	Timber & Fuelwood	Registered labour Co-operative Society	
104	KAR/N/BAND	NO	No	880.02							
105	KAR/N/BANN		No	104.27							
106	KAR/N/KUD	NP	No	600.324							
107	KAR/N/NAG	NO	No	643.392							
108	KAR/S/ADI	NO		0.885							
109	KAR/S/ARA	NP		13.5							
110	KAR/S/ATT		No	2.226							
111	KAR/S/BHA	YES	No	492.46							
112	KAR/S/BIL		NA	540							
113	KAR/S/BRA	NO	No	181.29							

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Note: All values for area are in square kilometers

Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
114	KAR/S/DAN	YES	Yes	475.018	Terminalia paniculata, Terminalia tomentosa, Lagerstroemia Lanceolata, Dalbergia Latifolia, Jungle-wood etc.	1.61	All ranges	1994--95	Timber & Fuel wood	Government of Karnataka	
	KAR/S/DAN				Terminalia paniculata, Terminalia tomentosa, Lagerstroemia Lanceolata, Dalbergia Latifolia, Jungle-wood etc.	1.76		1995-96	Timber & Fuelwood	Government of Karnataka	
	KAR/S/DAN				Terminalia paniculata, Terminalia tomentosa, Lagerstroemia Lanceolata, Dalbergia Latifolia, Jungle-wood etc.	4.21		1996-97	Timber & Fuelwood	Government of Karnataka	
	KAR/S/DAN				Terminalia paniculata, Terminalia tomentosa, Lagerstroemia Lanceolata, Dalbergia Latifolia, Jungle-wood etc.	8.00		1997-98	Timber & Fuelwood	Government of Karnataka	
115	KAR/S/DOR	NP	No	55.873							
116	KAR/S/GHA	NO	No	29.785							
117	KAR/S/GUD	NP		0.7368							
118	KAR/S/KAV	NP	No	526.95							

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
119	KAR/S/MEL	NO	No	49.82							
120	KAR/S/MOO	YES	No	247							
121	KAR/S/NUG	NO	No	30.32							
122	KAR/S/PUS	NP	No	92.66							
123	KAR/S/RANE	NO	No	119							
124	KAR/S/RANG	NO	No	0.67							
125	KAR/S/SHA	YES	Yes	431.23	Cane extraction	100.00	Kogar	1993 onwards	For supply the cane to Industries	Societies	Felling have stopped since 1996.
126	KAR/S/SHE	YES	Yes	395.6	Acacia and Eucalyptus	18.00	Shimoga, Hanagere	From 1889 till date	Pulp wood	Mysore Paper Miles	
127	KAR/S/SOM	NO	No	88.97							
128	KAR/S/TAL	NP	Yes	105.0096	Dysoxylum malabaricum, Hopea parvi flora, Artocarpus integrifolia, Dipterocarpus indica, Veteria indica, Hardiwickia pinnata	10 (Not in concentrated block)	Mundrote	1997-98	Naturally fallen trees extracted for timber' to minimize fire damage and smuggling	Forest Department	
129	KER/N/ERA	NO	No	100							
130	KER/S/ARA		Yes	55	Teak (Tectona grandis)	2.41	Aralam	1996-97	Silvicultural thinning	Government agency	
131	KER/S/CHIN	NO	Yes	90.442	Dead sandal wood trees	20.00	Chinnar	1999	Commercial timber	Forest Department	
132	KER/S/WAY	YES	Yes	344.44	Tectona grandis	75.45	Entire PA	According to management plan	Silvicultural operation	Forest Department	
	KER/S/WAY				Eucalyptus	15.27	Tholpetty and Muthanga range	From 1985 till date	For supplying raw materials	Grasim industries	

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
133	MAH/N/AND	NP	No								(1)In Tadoba National Park felling was stopped after 1955.Previously it was managed as per working plan(2)Prior to 1986 Andhari sanctuary area was managed as per the then existing working plan.
				625.4							
134	MAH/N/NAV	NP	No								Illicit felling is an acute problem especially by Bamboo mat weavers who sell it to big contractors who inturn sell it to consumers like coal mines and sugar factories
				133.884							
135	MAH/N/PEN	YES	Yes		Teak	257.26	East & West Pench range	Notknown	Commercial	Government of India	
				257.26							
	MAH/N/PEN				Adjat (other than teak)	257.26	East & West Pench range	Notknown	Commercial	Government of India	
136	MAH/N/SAN	NO	No								Tree felling used to occur before 1988.
				103.09							
137	MAH/S/AMB	NP	No								
				127.11							
138	MAH/S/ANE	NP	Yes							FDCM	Page is missing from the given questionnaire!!
				82.94							
139	MAH/S/BHA	NP									
				104.38							
140	MAH/S/BHI		No								
				130.78							
141	MAH/S/BOR	YES	No								
				61.1							

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
142	MAH/S/CHAN		Yes	308.97	Miscellaneous species	Negligible	Village sides in the sanctuary	Every year since 1985 i.e. declaration of sanctuary	For fuelwood, lopes and topes of trees.	Local people for domestic needs.	
143	MAH/S/CHAP	NP	No	133.23							
144	MAH/S/DEU		No	2.17							
145	MAH/S/GAU	NP	No	260							
146	MAH/S/GRE		No	8496.41							
147	MAH/S/GYA	NP	No	203.56							
148	MAH/S/JAI	NP	No	341.05							
149	MAH/S/KAL		No	361.71							
150	MAH/S/KAR	NO	No	4.27							
151	MAH/S/KAT	NP	No	73.69							
152	MAH/S/MAL	NP	No	29.122							
153	MAH/S/MAL		No								
154	MAH/S/MAY		No	5.145							
155	MAH/S/NAG	YES	No	152.81							
156	MAH/S/NAI	NP	No	29.9							
157	MAH/S/NAR	NP	No	12.35							
158	MAH/S/PAI	NP	Yes	324.64	Teak		Sondabhi & Kharbi	Till 1990	Commercial	Government	
	MAH/S/PAI				Ain		Sondabhi & Kharbi	Till 1990			
	MAH/S/PAI				Dhawda		Sondabhi & Kharbi	Till 1990			
159	MAH/S/RAD	NO	No	351.16							
160	MAH/S/SAG	NP	No	10.87							
161	MAH/S/TIP	NP	No	140.29							
162	MAH/S/WAN	NP	Yes		Teak		Wan and Somthana	1996	Hygenic	Forest Department, Felling extraction was done according to the working plan prescription. However, these activities have stopped now.	Previously extraction was done scientifically
				205.86							

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
	MAH/S/WAN				Bamboo		Wan and Somthana	1997	Commercial	Forest Department, Felling extraction was done according to the working plan prescription. However, these activities have stopped now.	
	MAH/S/WAN				Tendu leaves		Wan and Somthana			Forest Department, Felling extraction was done according to the working plan prescription. However, these activities have stopped now.	
	MAH/S/WAN				Salai		Wan and Somthana			Forest Department, Felling extraction was done according to the working plan prescription. However, these activities have stopped now.	
	MAH/S/WAN				Dhawada		Wan and Somthana			Forest Department, Felling extraction was done according to the working plan prescription. However, these activities have stopped now.	
	MAH/S/YAW	YES	No	177.52							
163	MAH/S/YED	NP		22.37							
164	MAN/N/KEI	NO		40							
165	MAN/S/YAN			184.4							

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
166	MEG/N/BAL	NO	No	220							
167	MEG/N/NOK	NP	Yes	47.48	Sporadic felling of trees of Michelia champaca, Gamari, Gamelina and Magni ferra	Negligible area	Along the north western and south eastern boundary of the PA	19,961,998	For domestic consumption	Local villages	
168	MEG/S/BAG	NP	No	0.027							
169	MEG/S/NON	NO	Yes	29	The whole area was a felling coupe when the area was a part of Assam state			Before Meghalaya attained statehood	Commercial purpose	Forest department	
170	MEG/S/SIJ	NO	No	5.18							
171	MIZ/N/MUR	NP	Yes	200	Michelia champaca	10.00	North Khawbung	Annual	Timber for house construction & fuel wood	Local people	
172	MIZ/N/PHA	NP	No	50							
173	MIZ/S/DAM		Yes	500	Michelia champaca (dead, fallen logs)		Phuldungsei	1999	Timber for local use (house construction)	Phuldungsei villagers	
	MIZ/S/DAM				Trema orientalis (dead trees)	0.00	Phuldungsei	1999	Fuelwood	Phuldungsei villagers	
	MIZ/S/DAM				Michelia & Terminalia (400 cft. of timber)	0.00	Teirei	1998	Timber for local use	Teirei villagers	
	MIZ/S/DAM				Michelia champaca (one log)		Phuldungsei	1996	Timber for local use	Saithah villagers	
	MIZ/S/DAM				Michelia, Terminalia, Toona (three logs)	0.00	Phuldungsei	1995	Timber for local use	Phuldungsei villagers	
174	MIZ/S/KHA	NP	No	41							
175	MIZ/S/LEN	NP	Yes	120	Michelia champaca, Toona, Terminalia, Schima wallichii, Oaks.	5.00	Ranges not yet demarcated	Annual	Timber, fuel wood	Local people	
176	MIZ/S/NGE	NP	No	110							
177	MP/N/BAN	YES	No	1161.471							

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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
178	MP/N/GHU	NP	No	0.272							
179	MP/N/PEN	NO	No	292.857							
180	MP/N/SAN	YES	No	364.593							
181	MP/N/SAT	NO	No	524.37							
182	MP/N/VAN	NO	No	4.45							
183	MP/S/BAD	YES	No	104.45							
184	MP/S/BAG	NO	No	478							
185	MP/S/GAN	YES	No	368.62							
186	MP/S/KAR	NO	No	202.21							
187	MP/S/KHE	YES	No	132.778							
188	MP/S/KUN	NP	No	344.686							
189	MP/S/NAR	NO	No	57.197							
190	MP/S/NAT	NO	No	460							
191	MP/S/NOR	NP	Yes	1186.961	Teak and other species. (Since 1992 felling is stopped).	Depends on size of coupe.	All ranges of the P.A.	1984 to 1991	Commercial purpose and for Nistar use by villagers.	Forest-department.	
192	MP/S/ORC		No	44.9							
193	MP/S/PEN	YES	Yes	118							Details not available.
194	MP/S/RAL	NP	No	2.6198							
195	MP/S/SAI	NO	No	12.96							
196	MP/S/SAR	NP	No	348.12							
197	MP/S/SON			209.21							
198	NAG/N/INT	NO	No	202.02							
199	NAG/S/FAK	NP	No	6.41							
200	NAG/S/PUL	NP		9.23	Local species	0.45	Towards Kohima town side	Every year	Fuelwood	By illicit fellers	
201	NAG/S/RAN	NP	Yes	4.7	Teak	4.70	Rangaphar	1990-91	To open up gaps for wildlife habitat manipulation	Forest department	
202	ORI/N+S/BHI		No	145							
203	ORI/S/BAD	NP	Yes	304.03	Bamboo	76.01	Badarama	1985-86 to 1994	Commercial	Orissa Forest Development Corporation	
	ORI/S/BAD				Bamboo	76.01	Badarama	Till 1986	Commercial	Orient Paper Mill	

Table 1.26: Felling in PAs
Note: All values for area are in square kilometers

Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
	ORI/S/BAD				Bija, Dhauea, Sal, Asan)	76.01	Badarama	1983	Commercial	Orissa Forest Development Corporation	
	ORI/S/BAD				Dead and fallen trees (Bija, Dhauea, Sal, Asan)	76.01	Badarama	1983-94	Commercial	Orissa Forest Development Corporation	
204	ORI/S/BAI	NO	Yes	168.35	Bamboo	41.36	Barigocha Range	1995-96	Commercial	Orissa Forest Development Corporation	During last five years
	ORI/S/BAI				Bamboo	33.13	Barigocha Range	1996-97	Commercial	Orissa Forest Development Corporation	
	ORI/S/BAI				Bamboo	36.31	Barigocha Range	1997-98	Commercial	Orissa Forest Development Corporation	
205	ORI/S/BAL	NP		71.72	Casuarina equisetifolia		Balukhand and Konark		Fuel wood	Forest Department	
206	ORI/S/CHA	NO	Yes	193.39	Tectona grandis	90.00	Dompaela Wildlife Range	1999	Commercial	Forest Department	
	ORI/S/CHA				Shorea robusta		Chandaka Wildlife Range	Extraction took place after super cyclone	Timber	Forest Department	
	ORI/S/CHA				Bambusa arunelinacea.		Haldia Wildlife Range	Extraction took place after super cyclone			
207	ORI/S/CHI	NP	No	15.53							
208	ORI/S/DEB	NP	Yes	346.9	Deadrocalamus strictus(Extraction and felling of bamboo stopped since 1998-99)	346.00	Kamgaon and Lakhanpur Range	Till 1997-98	Pulp	Orissa Forest Development Corporation	

Table 1.26: Felling in PAs
Note: All values for area are in square kilometers

Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
209	ORI/S/HAD	YES	Yes	191.6					Commercial timber and firewood	Upto 1983-84 agency was Orissa Forest Corporation Ltd.. From 1984-85 to 1987-88 coupe working was done by Similipal Forest Development Corporation.	
210	ORI/S/KAR		No	147.66							
211	ORI/S/KHA	NP	Yes	116	Sal(Shorea robusta)	49.24	Girishchandrapur	1982-83 to 1991-92	Commercial timber,fuelwood	Orissa Forest Development Corporation	Prior to 1982 forest working (by contractors) and bamboo (by paper mill) extraction was being carried out.
	ORI/S/KHA				Bamboo (D.strictus)	491.52	Girishchandrapur	1982-83 to 1997-98	Commercial felling for paper pulp	Orissa Forest Development Corporation	
212	ORI/S/KOT	NP	Yes	399.5	Sal, Pterocarpus, Marsipium	124.37		1981-88	Commercial	Orissa Forest Development Corporation	
213	ORI/S/KUL		Yes	272.75	Sal, Piasal, Asan, Dhaura, Sissoo, Kaim, Rai, Rimili, Arjuna etc.	Almost the entire PA	Nilgiri range	Prior to 1992 (declaration of sanctuary)	Commercial extraction of timber, fire wood and NTFP collection etc.	The Similipal Forest Development Corporation and private contractor.	
214	ORI/S/LAK	NP	No	174.958							
215	ORI/S/SATN		Yes	795.52	Sal, Piasal, Asan, Kurum, Sissoo etc.	As per working plan	All ranges	Prior to 1981	Commercial timber fuel wood	Departmentally through private agency (contractor)	
	ORI/S/SATN				Sal, Piasal, Asan, Kurum, Sissoo etc.	As per working plan	All ranges	1981-1990	Commercial timber fuel wood	Departmentally through private agency (contractor)	

Table 1.26: Felling in PAs
Note: All values for area are in square kilometers

Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
	ORI/S/SATN				Sal, Piasal, Asan, Kurum, Sissoo etc.	As per working plan	All ranges	1990 to onwards	No work		
	ORI/S/SATN				Bamboo	As per working plan	All ranges	Prior to 1990 upto 1998		Titaghur paper nil O.F.D.C. Ltd.	
	ORI/S/SATN				Bamboo	As per working plan	All ranges	Prior to 1990 upto 1998		Titaghur paper nil O.F.D.C. Ltd.	
216	ORI/S/SATS		Yes	268.94	Phasi (Anogeinus acuminata)	Scattered	Kusang Wildlife Range	1997	For supply of car timber for car festival of lord Jagganath, Balabhadra, Suvadra Devi, Puri	Forest department	Mostly in the boundary area
	ORI/S/SATS				Phasi (Anogeinus acuminata)	Scattered	Kusang Wildlife Range	1998	For supply of car timber for car festival of lord Jagganath, Balabhadra, Suvadra Devi, Puri	Forest department	
	ORI/S/SATS				Phasi (Anogeinus acuminata)	Scattered	Chhamundia wildlife range	2000	For supply of car timber for car festival of lord Jagganath, Balabhadra, Suvadra Devi, Puri.	Forest department	

Table 1.26: Felling in PAs
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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
217	ORI/S/SIM		Yes	2200	Sal, Piasal, Asan, Dhaura, Sissoo, Kurum etc.	303 (entire PA except first core area)	Pathabata, Nawana, Chahala, National Park, Upperbarakamar, Gurguria, Badampahar, Bisoi, Bangriposhi, Pithabata (T), Dukura, Udala, Kaptipada, Thakumunda, Kendumundi and Drohiari.	1979 to 1988	Commercial timber	Similipal Forest Development Corporation	
218	ORI/S/SUN	NP	Yes	600	Fallen trees	600.00	Nawapara and Komana Wildlife Range	Until 1991. At present no felling or collection of dead and fallen trees or NTFP is taking place.	Commercial	Orissa Forest Development Corporation	
219	PUN/S/ABO	NP	No	186.05							
220	PUN/S/AIS	NP	No	2.6	N.A.						
221	PUN/S/BHA	NP	No	8.2	N.A.						
222	PUN/S/BHU	NP	No	6.6	N.A.						
223	PUN/S/DOS	NP	No	7.5	N.A.						
224	PUN/S/GUR	NP	No	6.1	N.A.						
225	PUN/S/HAR	NP	Yes	86	Acacia arabica	2.00	Harike	Annual	Fuel wood + small timber	Local people	
226	PUN/S/MAH	NP	No	2.2							
227	PUN/S/MOT	NP	No	5.24							
228	PUN/S/TAK	NP		3.86							
229	RAJ/N/DES	NO	No	3162							
230	RAJ/N/KEO		No	28.73							
231	RAJ/S/BAS		No	138.69							
232	RAJ/S/BHA		No	195.015							
233	RAJ/S/JAI		Yes	52		52.00					
234	RAJ/S/JAM		No	300							

Table 1.26: Felling in PAs
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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
235	RAJ/S/KELA		No	672							
236	RAJ/S/KUM		No	608.56							
237	RAJ/S/NAH	NO	No	52.4							
238	RAJ/S/PHU		No	511.41							
239	RAJ/S/SAJJ		NA	5.19							
240	RAJ/S/SIT		No	422.94							
241	RAJ/S/TAL	NO	No	7.19							
242	RAJ/S/TOD		Yes	495.27	Salar (Boswellia serrata)	50	Bijaji Ka Guda, Jojawar	1980-83	Gum	Contractor	
	RAJ/S/TOD				Dhok, Kumbhal	50	Bijaji Ka Guda, Jojawar	1980-83	Fuelwood	Contractor	
	RAJ/S/TOD				Khair	20	Bijaji Ka Guda, Jojawar	1980-83	Kattha	Contractor	
243	RAJ/S/VAN		No	25.6							
244	SIK/N/KHA	NO	Yes	1784	Abies densa		Dzongri	Throughout the year	Timber	Local community	
	SIK/N/KHA				R. arboreum		Dzongri	Throughout the year	Fuelwood	Local community	
	SIK/N/KHA				Quercus spp.		Dzongri	Throughout the year	Fuelwood	Local community	
	SIK/N/KHA				Michelia exelsa		Dzongri	Throughout the year	Timber	Local community	
245	SIK/S/BAR	NP	Yes	104							
246	SIK/S/FAM		Yes	51.76	Katus		Fambong Lho	Before 1999	Fuelwood	Locals	Only fallen trees were extracted till 1999.
	SIK/S/FAM				Buk		Fambong Lho	Before 1999	Fuelwood	Locals	
	SIK/S/FAM				Sirsoo	Less than 1	Fambong Lho	Before 1999	Food	Locals	
247	SIK/S/KYON	NP	Yes	31	Abies densa		Kyongnosla	Till 1999	Fuel wood	Villagers	
	SIK/S/KYON				Juniper		Kyongnosla	Only fallen trees we extracted			
248	SIK/S/MAE		Yes	35.34	Bamboo		Maenam	Annual	Timber & fuelwood	Locals	
	SIK/S/MAE				Katus		Maenam	Annual	Timber	Locals	
	SIK/S/MAE				Kaol		Maenam	Annual	Timber	Locals	
	SIK/S/MAE				Buk		Maenam	Annual	Timber	Locals	
	SIK/S/MAE				Buk		Maenam	Annual	Timber	Locals	

Table 1.26: Felling in PAs
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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
249	SIK/S/SHIN	NP	Yes	43	Juniper	11.00	Shingba		Used as "dhoopi"	Local villagers	
	SIK/S/SHIN				Abies densa, Larynx griffith		Only fallen trees were extract				
250	TN/N/GUI		NA	2.8194							
251	TN/N/GUL	NP		6.2312							
252	TN/N/IND	NP	No	958.57	Teak		Valparai, Ulandy	Upto 1995	Commercial	Departement	
	TN/N/IND				Bamboo			Upto 1995	Commercial	Departement	
	TN/N/IND				Eucalyptus Hybrid			Upto 1995	Pulp	South India	
	TN/N/IND				Eucalyptus grandus			Upto 1995	Pulp	viscose	
253	TN/N/MUD	NP	Yes	321	Teak, Cane, Bamboo(flowered)			1989	CT	Forest department	
254	TN/N/MUK	NP	No	78.46				1982			
255	TN/S/CHI	NP	No								
	TN/S/CHI			0.4763		None					
256	TN/S/GRI	NP	Yes	477.83	Fuel coupes		Saptaur, Rajapoloyan	Up to 1979	Fuelwood	Contractors	
257	TN/S/KAN	NP	No	1.0421							
258	TN/S/KARA	NP		4.53							
259	TN/S/KARI	NP	No	0.6512							
260	TN/S/KOO	NP	No	1.2							
261	TN/S/MEL	NP		5.93							
262	TN/S/POIN	NO	No	25							
263	TN/S/PUL	NO		61.468							
264	TN/S/UDA	NP	No	0.44							
265	TN/S/VAD	NP	No	1.28							
266	TN/S/VALL	NP	No	16.4121							
267	TN/S/VED	NO	No	0.27							
268	TN/S/VELL	NP	No	0.77185							
269	TN/S/VET	NP	No	0.37948							
270	TRI/S/GUM	NP	NA	389.59							
271	TRI/S/TRI	NP	No	194.704							
272	UP/S/BAK		No	28.9421							
273	UP/S/CHA	NO		96							
	UP/S/CHA		No								
274	UP/S/KAC		No	7.00							
275	UP/S/KAI		No	501							

Table 1.26: Felling in PAs
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Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
276	UP/S/KAT		No	400.09							Since 1990 no felling of trees is allowed.
277	UP/S/LAK			80.24							
278	UP/S/MAH		No	5.42							
279	UP/S/NAT		No	635							
280	UP/S/NAW		No	2.246							
281	UP/S/OKH		No	4							
282	UP/S/PAR		No	10.8447							
283	UP/S/PAT		No	1.05							
284	UP/S/RAN		No	220.41							
285	UP/S/SAMN		No	5.26							
286	UP/S/SAMS			7.99							
287	UP/S/SAN			2.246							
288	UP/S/SOH			428.2							
289	UP/S/SUH		No	452.472							
290	UP/S/SURA		No	34.329							
291	UP/S/SURS		NA	7.13							
292	UP/S/VIJ		No	2.62							
293	UTT/N/COR	YES	Yes	520.824	Sal, Sissam, Sain, Sadan, Khair, Chir, Semal, Tun, Harar, Bahera, Siras etc	7.50	Tourism range	1980-81	Dry marking of submergence area of the dam	Agency entrusted with the construction of the dam	
294	UTT/N/GAN		Yes	2390.024	Deodar	3	Gangotri	1995-96	Timber	Forest Department	
295	UTT/N+S/GOV		Yes	957.969	Chir, Kail	25	All ranges	Annually	Timber for house construction.	Local people	
296	UTT/S/ASK		Yes	599.93	Chir (134 trees)	6.43	Askot	1990-91	Timber and fuel (dead, dying and fallen trees)	Uttar Pradesh Forest Development Corporation	No felling or removal of trees after 1992.
	UTT/S/ASK				Chir (389 trees)	8.9	Askot, Dharchula	1991-92	Timber and fuel (dead, dying and fallen trees)	Uttar Pradesh Forest Development Corporation	
297	UTT/S/BIN	NP	No	47.07							
298	UTT/S/BINO		No	3.3874							

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Note: All values for area are in square kilometers

Sno	PA code	Does felling occur now or		PA Area	Species	Area Affected	Ranges	Years	Purpose	Agency	Remark
		Old Data 1984-87	New Data 1998-03								
299	UTT/S/KED	YES		975.2							
300	UTT/S/SON		No	301.1							
301	WB/N/GOR	NP	No	79.45							
302	WB/N/NEO		No	88							
303	WB/N/SUN	NP	Yes		Bain, Gnewa, Garjan, Kakra, Tora, Bakul, Gpran, Kirpa	10.00	Basirhat Range	Every year	For commercial Timber, Fuelwood for local consumption	Authorised timber merchant	
				2585							
304	WB/S/BAL	NO	No	2.021							
305	WB/S/BET	NP	No	0.6686							
306	WB/S/BIB	NP	No	0.64							
307	WB/S/CHA		No	9.492							
308	WB/S/HAL	NP	No	5.95							
309	WB/S/LOT	NP		38							
310	WB/S/RAI	NP	No	1.3							
311	WB/S/RAM	NO	No	0.1431							
312	WB/S/SEN	NP		38.88							

Table 1.27: PAs Affected by Diseases of Flora

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

				New Data 1998-03						
Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
1	A&N/N/SAD	NO	No	32.54						
2	A&N/S/CUT	NP	No	5.82						
3	A&N/S/INT	NO	No	133						
4	A&N/S/NAR		No	6.81						
5	A&N/S/NOR		No	3.48						
6	AP/N/KAS	NP	No	1.425						
7	AP/N/MAH	NP	No	14.59						
8	AP/N/MRU	NP	No	2.8						
9	AP/N/VEN	NP	No	525.97						
10	AP/S/COR	NO	Yes	235.7	1996	Stem borer	47.14	WLM, KKD	A. officinalis	Pesticides applied in plantation only
11	AP/S/ETU	YES	No	803						
12	AP/S/GUN	NP	No	1194						
13	AP/S/KAW	YES		893						
14	AP/S/KOL	NO	No	308						
15	AP/S/KOU	NP	No	357.63						
16	AP/S/KRI	NP	No	194.21						
17	AP/S/MAN	NO	No	20						
18	AP/S/NEL	NO	No	4.58						
19	AP/S/PAK	YES	No	860						
20	AP/S/PAP	NO	No	590.68						
21	AP/S/POC	YES	No	130						
22	AP/S/PRA	YES	NA	136						
23	AP/S/PUL	NO	No	600						
24	AP/S/SIW	YES	NA	29.81						
25	ARU/N/MOU	NP	No	483						
26	ARU/N/NAM	NO	No	1985.245						
27	ARU/S/DER	NO	No	190						
28	ARU/S/KAM	NP		783						
29	ARU/S/MEH	NO	No	281.5						
30	ARU/S/YOR	NP	No	445.975						
31	ASS/N/DIB	NP	No	340						
32	ASS/N/KAZ	NP	No	407.9						
33	ASS/N/MAN	NP	No	519.77						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
34	ASS/N/NAME		No	200						
35	ASS/N/ORR	NP		78.8						
36	ASS/S/BAR	NP	No	26.21						
37	ASS/S/BUR		Yes	44		Root rot (fungal infection)	5	Burachapori Wildlife Range	Delbergia sissoo	
38	ASS/S/DIP	NP		0.01656						
39	ASS/S/EKAR			221.81						Information not available.
40	ASS/S/GAR		No	6						
41	ASS/S/GIB	NP	No	19.16						
42	ASS/S/KAR		No	96						
43	ASS/S/LAO	NP	No	70.1						
44	ASS/S/NAMB		No	37						Detailed surveys in this regard are required to be done for obtaining vital information
45	ASS/S/PAN	NP	No	33.93						
46	ASS/S/POB	NP	No	16						
47	ASS/S/SON	NP	No	220						
48	BIH/S/RAJ	NO	No	35.84						
49	CHD/S/SUK	NO	No	26.11						
50	CHT/N/IND		No	2799.086						
51	CHT/N/KAN	NO	Yes	200	1998	Sal borer	200.00	Kotamsar and Koleng	Shroea robusta	Monitoring the spread of disease as the incidence was not epidemic
52	CHT/S/ACH	NO	Yes	551.552	1998	Sal borer	200.00	Lamni range was affected the most	Sal (Shorea robusta)	Trapping operation was carried out
53	CHT/S/BAR	NO	No	244.66						
54	CHT/S/BHA		No	138.95						
55	CHT/S/GOM		No	277.82						
56	CHT/S/PAM	NP	No	442.23						
57	CHT/S/SIT	NP	No	558.55						
58	CHT/S/TAM	NP	No	608.527						
59	CHT/S/UDA		No	237.27						

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Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
60	DEL/S/ASO	NP	No	27.81						
61	GOA/S/BON		No	7.95						
62	GOA/S/CHO	NP	Yes	1.8		Defoliation of Aecicnea marina	0.80	Campal, Panaji	Avecinnea marina	None
63	GUJ/N/BAN	NO	No	23.99						
64	GUJ/S/PUR	NP		160.345						
65	GUJ/S/RAT		No	55.65						
66	GUJ/S/WIL	NP	No	4953.71						
67	HAR/N/SUL	NO	No	1.42						
68	HAR/S/ABU	NP	No	113.968						
69	HAR/S/BHIN	NP	No	4.068						
70	HAR/S/BIRB	NP	No	4.144						
71	HAR/S/BIRS	NP	No	7.584						
72	HAR/S/CHIL	NP	No	0.28						
73	HAR/S/KAL	NP	NA	100						
74	HAR/S/KHA	NP	No	0.816						
75	HAR/S/NAH	NP	No	2.09						
76	HAR/S/SAR	NP	Yes	44.02		Unknown	44.02	Entire Range	Acacia nilotica	Collaboration with ICFRE
77	HP/N/GRE			905.4						
78	HP/S/DAR	NO	No	46.5857						
79	HP/S/DHA	NP	No	943.98						
80	HP/S/GAM	NO	No	109						
81	HP/S/KAI		Yes	12.61	Since 1988	Unknown disease. Taxus Baccata trees are drying	12.1608		Taxus Baccata	
82	HP/S/KAL	NO	No	69.47						
83	HP/S/KAN		No	58.18						
84	HP/S/KHO		No	19.35						
85	HP/S/KUG	NO	No	378.87						
86	HP/S/LIP		No	30.89						
87	HP/S/MAN		No	29.00						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
88	HP/S/NAR		No	278.38						
89	HP/S/PON			307.7						
90	HP/S/RUP	NO	No	269.15						
91	HP/S/SAN	NP	No	650						
92	HP/S/SHI	NO	No	90.37						
93	HP/S/TUN	NO	No	64						
94	J&K/N/HEM		No	3350						
95	J&K/N/KIS	NO		425					Kail (Arcithobium mimilesium).	
96	J&K/S/CHA		No	4000						
97	J&K/S/KAR		No	5000						
98	J&K/S/OVE		No	425						
99	JHA/N/RAJ	NP	No	0.7444						
100	JHA/S/HAZ	NO	No	186.255						
101	JHA/S/PAR	NP	No	50.8093						
102	JHA/S/UDH	NP	No	1.267						
103	KAR/N/ANS	NP	No	250						
104	KAR/N/BAND	NO	No	880.02						
105	KAR/N/BANN		Nil	104.27						
106	KAR/N/KUD	NP	No	600.324						
107	KAR/N/NAG	NO	No	643.392						
108	KAR/S/ADI	NO		0.885						
109	KAR/S/ARA	NP		13.5						
110	KAR/S/ATT		No	2.226						
111	KAR/S/BHA	NO	No	492.46						
112	KAR/S/BIL		NA	540						
113	KAR/S/BRA	NO	No	181.29						
114	KAR/S/DAN	NP	Yes	475.018	1998	Teak Skeletonizes		Wildlife Range Phansoli, Kulgi	Teak (Tectona grandis)	
115	KAR/S/DOR	NP	No	55.873						
116	KAR/S/GHA	NO	No	29.785						
117	KAR/S/GUD	NP		0.7368						
118	KAR/S/KAV	NP	No	526.95						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
119	KAR/S/MEL	NO	No	49.82						
120	KAR/S/MOO	NO	No	247						
121	KAR/S/NUG	NO		30.32						
122	KAR/S/PUS	NP	No	92.66						
123	KAR/S/RANE	NO	No	119						
124	KAR/S/RANG	NO	No	0.67						
125	KAR/S/SHA		No	431.23						
126	KAR/S/SHE	NO	No	395.6						
127	KAR/S/SOM	NO	No	88.97						
128	KAR/S/TAL	NP	No	105.0096						
129	KER/N/ERA	NO	No	100						
130	KER/S/ARA		No	55						
131	KER/S/CHIN	NO	No	90.442						
132	KER/S/WAY	NO	Yes	344.44		Teak-defoliator	5.00	Tholpetty	Teak	None
133	MAH/N/AND	NO	No	625.4						
134	MAH/N/NAV	NO	No	133.884						
135	MAH/N/PEN	NO	No	257.26						
136	MAH/N/SAN	NO	Yes	103.09		Teak defoliator every year		All	Teak	No
137	MAH/S/AMB	NP	No	127.11						
138	MAH/S/ANE	NP		82.94		Teak Boarers	82.94	Aner dam	Teak	No
139	MAH/S/BHA	NP	No	104.38						
140	MAH/S/BHI		No	130.78						
141	MAH/S/BOR	NO	No	61.1						
142	MAH/S/CHAN		No	308.97						
143	MAH/S/CHAP	NP	No	133.23						
144	MAH/S/DEU		No	2.17						
145	MAH/S/GAU	NP	Yes	260	1998	Defoliator (Teak)	104.00	Kannad, Nagad	Teak	Not yet
	MAH/S/GAU				1998	Skeletanizer (Teak)	104.00	Kannad, Nagad	Teak	Not yet
146	MAH/S/GRE		No	8496.41						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
147	MAH/S/GYA	NP	Yes	203.56	Every year	Hablia Puria	20.00	Buldhana & Khamgaon	Teak	
	MAH/S/GYA				Every year	Hablia Macaralis		Buldhana & Khamgaon		
148	MAH/S/JAI	NP	No	341.05						
149	MAH/S/KAL		No	361.71						
150	MAH/S/KAR	NO	No	4.27						
151	MAH/S/KAT	NP	No	73.69						
152	MAH/S/MAL	NP	No	29.122						
153	MAH/S/MAY		No	5.145						Not yet noticed
154	MAH/S/NAG	NO	No	152.81						
155	MAH/S/NAI	NP	No	29.9						
156	MAH/S/NAR	NP	No	12.35						
157	MAH/S/PAI	NP	Yes	324.64						
158	MAH/S/RAD	NO	No	351.16						
159	MAH/S/SAG	NP	No	10.87						
160	MAH/S/TIP	NP	No	140.29						
161	MAH/S/WAN	NP	Yes	205.86	Every year	Leaf sclerosis.	205.86	Wan and Somthana	Teak	Biotic Control
162	MAH/S/YAW	NO	No	177.52						
163	MAH/S/YED	NP		22.37						
164	MAN/N/KEI	NO		40						
165	MAN/S/YAN		No	184.4						
166	MEG/N/BAL	NP		220						
167	MEG/N/NOK	NP	No	47.48						
168	MEG/S/BAG	NP		0.027						
169	MEG/S/NON	NO	NA	29						
170	MEG/S/SIJ			5.18						
171	MIZ/N/MUR	NP		200						
172	MIZ/N/PHA	NP	No	50						
173	MIZ/S/DAM		No	500						
174	MIZ/S/KHA	NP	No	41						
175	MIZ/S/LEN	NP	No	120						
176	MIZ/S/NGE	NP	No	110						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

				New Data 1998-03						
Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
177	MP/N/BAN	NO	No	1161.47100						
178	MP/N/GHU	NP	No	0.27200						
179	MP/N/PEN	NO	No	292.85700						
180	MP/N/SAN	NO	No	364.59						
181	MP/N/SAT		Yes	524.37000	1997	Sal borer	180.00	Pachmarhi	Sal	Local people and cages were used to catch and kill the insects.
	MP/N/SAT				1998	Sal borer	180.00	Pachmarhi	Sal	Local people and cages were used to catch and kill the insects.
	MP/N/SAT				1999	Sal borer	180.00	Pachmarhi	Sal	Local people and cages were used to catch and kill the insects.
182	MP/N/VAN	NO	No	4.45000						
183	MP/S/BAD		No	104.45000						
184	MP/S/BAG	NO	No	478.00000						
185	MP/S/GAN	NO	No	368.62000						
186	MP/S/KAR	NO	No	202.21000						
187	MP/S/KHE	NO	No	132.77800						
188	MP/S/KUN	NP	No	344.68600						
189	MP/S/NAR		No	57.19700						
190	MP/S/NAT		No	460.00000						
191	MP/S/NOR	NP	No	1186.96100						
192	MP/S/ORC		Nil	44.90000						
193	MP/S/PEN	NP	No	118.00000						
194	MP/S/RAL	NP	No	2.61980						
195	MP/S/SAI	NO	No	12.96000						
196	MP/S/SAR	NP	No	348.12000						
197	MP/S/SON			209.21000						
198	NAG/N/INT	NO	No	202.02						
199	NAG/S/FAK	NP	No	6.41						
200	NAG/S/PUL	NP	No	9.23						
201	NAG/S/RAN	NP	No	4.7						
202	ORI/N+S/BHI		No	145						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		New Data 1998-03						
		Old Data 1984-87	New Data 1998-03	PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
203	ORI/S/BAD	NP	No	304.03						
204	ORI/S/BAI	NO	No	168.35						
205	ORI/S/BAL	NP	No	71.72						
206	ORI/S/CHA		No	193.39						
207	ORI/S/CHI	NPO	No	15.53						
208	ORI/S/DEB	NP	No	346.9						
209	ORI/S/HAD		No	191.6						
210	ORI/S/KAR		No	147.66						
211	ORI/S/KHA	NP	No	116						
212	ORI/S/KOT	NP	No	399.5						
213	ORI/S/KUL			272.75						No records
214	ORI/S/LAK	NP	No	174.958						
215	ORI/S/SATN		No	795.52						
216	ORI/S/SATS			268.94						Not available
217	ORI/S/SIM		No	2200						
218	ORI/S/SUN	NP	No	600						
219	PUN/S/ABO	NP	No	186.05						
220	PUN/S/AIS	NP	No	2.6						
221	PUN/S/BHA	NP	No	8.2						
222	PUN/S/BHU	NP	No	6.6						
223	PUN/S/DOS	NP	No	7.5						
224	PUN/S/GUR	NP	No	6.1						
225	PUN/S/HAR	NP	No	86						
226	PUN/S/MAH	NP	No	2.2						
227	PUN/S/MOT	NP	No	5.24						
228	PUN/S/TAK	NP		3.86						
229	RAJ/N/DES	NO	No	3162						
230	RAJ/N/KEO		No	28.73						
231	RAJ/S/BAS		Nil	138.69						
232	RAJ/S/BHA		No	195.015						
233	RAJ/S/JAI		No	52.00						
234	RAJ/S/JAM	NO	No	300						
235	RAJ/S/KELA		No	672						
236	RAJ/S/KUM		No	608.56						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		New Data 1998-03						
		Old Data 1984-87	New Data 1998-03	PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
237	RAJ/S/NAH		No	52.4						
238	RAJ/S/PHU		No	511.41						
239	RAJ/S/SAJJ		NA	5.19						
240	RAJ/S/SIT		Yes	422.94	1999	Leaf defoliator	200	All ranges	Teak	
241	RAJ/S/TAL	NO	No	7.19						
242	RAJ/S/TOD		No	495.27						
243	RAJ/S/VAN		No	25.6						No study conducted.
244	SIK/N/KHA	NO	No	1784						
245	SIK/S/BAR	NP	No	104						
246	SIK/S/FAM		No	51.76						
247	SIK/S/KYON	NP	No	31						
248	SIK/S/MAE		No	35.34						
249	SIK/S/SHIN	NP	No	43						
250	TN/N/GUI		NA	2.8194						
251	TN/N/GUL	NP		6.2312						
252	TN/N/IND	NO	NA	958.57						
253	TN/N/MUD	NO	Yes	321		Spike	Maximum	Masinagudi	Sandal wood	
254	TN/N/MUK	NO	No	78.46						
255	TN/S/CHI	NP		0.4763						
256	TN/S/GRI	NP	No	477.83						
257	TN/S/KAN	NP		1.0421						
258	TN/S/KARA	NP		4.53						
259	TN/S/KARI	NP	No	0.6512						
260	TN/S/KOO	NP	No	1.2						
261	TN/S/MEL	NP		5.93						
262	TN/S/POIN	NO	No	25						
263	TN/S/PUL	NO		61.468						
264	TN/S/UDA	NP	No	0.44						
265	TN/S/VAD	NP	No	1.28						
266	TN/S/VALL	NP	No	16.4121						
267	TN/S/VED	NO	No	0.27						
268	TN/S/VELL	NP	No	0.77185						
269	TN/S/VET	NP	No	0.37948						
270	TRI/S/GUM	NP	NA	389.59						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
271	TRI/S/TRI	NP	No	194.704						
272	UP/S/BAK		No	28.9421						
273	UP/S/CHA		No	96						
	UP/S/CHA									
274	UP/S/KAC		No	7.00						
275	UP/S/KAI		No	501						
276	UP/S/KAT		Yes	400.09		Skeletonize	20.12	Nishangara, Dharmapur, Murtiha	Teak	Advice from the silviculture division is being sought.
277	UP/S/LAK			80.24						
278	UP/S/MAH		No	5.42						
279	UP/S/NAT		No	635						
280	UP/S/NAW			2.246						
281	UP/S/OKH		No	4						
282	UP/S/PAR		No	10.8447						
283	UP/S/PAT		No	1.05						
284	UP/S/RAN		No	220.41						
285	UP/S/SAMN			5.26						
286	UP/S/SAMS			7.99						
287	UP/S/SAN			2.246						
288	UP/S/SOH			428.2						
289	UP/S/SUH		No	452.472						
290	UP/S/SURA		No	34.329						
291	UP/S/SURS		No	7.13						
292	UP/S/VIJ		No	2.62						
293	UTT/N/COR	NO	No	520.824						
294	UTT/N/GAN		No	2390.024						
295	UTT/N+S/GOV		No	957.969						
296	UTT/S/ASK		No	599.93						
297	UTT/S/BIN	NP	No	47.07						
298	UTT/S/BINO		No	3.3874						
299	UTT/S/KED	NO	No	975.2						

Table 1.27: PAs Affected by Diseases of Flora
Note: All values for area are in square kilometers

Sno	PA code	PA affected by flora disease		PA Area	Year	Disease	Area Affected	Ranges	Species affected	Efforts made to control the disease
		Old Data 1984-87	New Data 1998-03							
300	UTT/S/SON		Yes	301.1	Early 1990s	Pest attack (by sal borer beetle)			Sal	
	UTT/S/SON				Unknown	Polyporus shorea (fungus)			Sal	
301	WB/N/GOR	NP	No	79.45						
302	WB/N/NEO		No	88						
303	WB/N/SUN	NP	No	2585						
304	WB/S/BAL	NO	No	2.021						
305	WB/S/BET	NP	No	0.6686						
306	WB/S/BIB	NP	No	0.64						
307	WB/S/CHA		No	9.492						
308	WB/S/HAL	NP	No	5.95						
309	WB/S/LOT	NP		38						
310	WB/S/RAI	NP		1.3						
311	WB/S/RAM	NO		0.1431					Not yet detected.	
312	WB/S/SEN	NP	No	38.88						

Table 1.28: PAs Affected by Diseases of Fauna

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

				New Data 1998-03					
S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	Percentage of the population affected	Cause of the disease	Steps taken for prevention
		Old Data 1984-87	New Data 1998-03						
1	A&N/N/SAD	NO	No						
2	A&N/S/CUT	NP	No						
3	A&N/S/INT	NO	No						
4	A&N/S/NAR		No						
5	A&N/S/NOR		No						
6	AP/N/KAS	NP	No						
7	AP/N/MAH	NP	No						
8	AP/N/MRU	NP	No						
9	AP/N/VEN	NP	No						
10	AP/S/COR	NO	No						
11	AP/S/ETU	YES	NA	1981	Rinder pest & F&M	Gaur	75%	Transmission from domestic live stock	Inoculation of cattle within and around PA
	AP/S/ETU			1991	Rinder pest and F&M	Gaur	NA	Transmission from domestic live stock	Inoculation of cattle within and around PA
12	AP/S/GUN	NP	No						
13	AP/S/KAW	NO	No						
14	AP/S/KOL	NO	No, not studied						
15	AP/S/KOU	NP	No						
16	AP/S/KRI	NP	No						
17	AP/S/MAN	NO	No						
18	AP/S/NEL	NO	No						
19	AP/S/PAK	NO		1981	Rinderpest Disease, Foot and Mouth Disease.	Gaur	75%	Transmission from domestic live stock	Inoculation of cattle within and around PA
	AP/S/PAK			1991	Rindupest Disease, Foot and Mouth Disease	Gaur	NA	Transmission from domestic live stock	Inoculation of cattle within and around PA

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
20	AP/S/PAP	NO		1996	Foot and mouth	Bison	20 nos.	Grazing	Vaccination for Domestic cattle
21	AP/S/POC	NO	No						
22	AP/S/PRA	NO	No						
23	AP/S/PUL	NO	No						
24	AP/S/SIW	YES	NA						
25	ARU/N/MOU	NP	No						
26	ARU/N/NAM	NO	No						
27	ARU/S/DER	NO	No						
28	ARU/S/KAM	NP							
29	ARU/S/MEH	NO	No						
30	ARU/S/YOR	NP	No						
31	ASS/N/DIB	NP	No						
32	ASS/N/KAZ	NP	No						
33	ASS/N/MAN	NP	No						
34	ASS/N/NAME		No						
35	ASS/N/ORA	NP	No						
36	ASS/S/BAR	NP	No						
37	ASS/S/BUR		Yes						
	ASS/S/BUR								
38	ASS/S/DIP	NP							
39	ASS/S/EKAR		No						
40	ASS/S/GAR		No						
41	ASS/S/GIB	NP	No						
42	ASS/S/KAR		No						
43	ASS/S/LAO	NP	No						
44	ASS/S/NAMB		No						
45	ASS/S/PAN	NP	No						
46	ASS/S/POB	NP	No						

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
47	ASS/S/SON	NP	No						
48	BIH/S/RAJ	NO	No						
49	CHD/S/SUK		No						
50	CHT/N/IND		No						
51	CHT/N/KAN	NO	No						
52	CHT/S/ACH	NO	No						
53	CHT/S/BAR	YES	No						
54	CHT/S/BHA		No						
55	CHT/S/GOM		Yes	1996	Khurha	Gaur	1%	Surrounding livestock	Livestock in surrounding villages is vaccinated
56	CHT/S/PAM		No						
57	CHT/S/SIT	NO	No						
58	CHT/S/TAM	NO	No						
59	CHT/S/UDA		No						
60	DEL/S/ASO	NP	No						
61	GOA/S/BON		No						
62	GOA/S/CHO	NP	No						
63	GUJ/N/BAN	NO	No						
64	GUJ/S/PUR	NP							
65	GUJ/S/RAT		No						
66	GUJ/S/WIL	NP	No						
67	HAR/N/SUL	NO	No						
68	HAR/S/ABU	NP	No						
69	HAR/S/BHIN	NP	No						
70	HAR/S/BIRB	NP	No						
71	HAR/S/BIRS	NP	No						
72	HAR/S/CHIL	NP	No						
73	HAR/S/KAL	NP	No						

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
74	HAR/S/KHA	NP	No						
75	HAR/S/NAH	NP	No						
76	HAR/S/SAR	NP	No						
77	HP/N/GRE	YES							
78	HP/S/DAR	NO	No						
79	HP/S/DHA	NP	No						
80	HP/S/GAM	NO	No						
81	HP/S/KAI		No						
82	HP/S/KAL	NO	No						
83	HP/S/KAN		No						
84	HP/S/KHO		No						
85	HP/S/KUG	NO	No						
86	HP/S/LIP		No						
87	HP/S/MAN		No						
88	HP/S/NAR		No						
89	HP/S/PON								
90	HP/S/RUP	NO	No						
91	HP/S/SAN	NP	No						
92	HP/S/SHI	NO	No						
93	HP/S/TUN	NO	No						
94	J&K/N/HEM		No						
95	J&K/N/KIS	NO	Yes		Foot and Mouth	Goral	20%		
96	J&K/S/CHA		No						
97	J&K/S/KAR		No						
98	J&K/S/OVE		No						
99	JHA/N/RAJ	NP	No						
100	JHA/S/HAZ	NO	No						
101	JHA/S/PAR	NP	No						
102	JHA/S/UDH	NP	No						

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
103	KAR/N/ANS	NP	No						
104	KAR/N/BAND	NO	No						
105	KAR/N/BANN		No						
106	KAR/N/KUD	NP	No						
107	KAR/N/NAG	NO	No						
108	KAR/S/ADI	NO							
109	KAR/S/ARA	NP							
110	KAR/S/ATT		No						
111	KAR/S/BHA	NO	Yes	89-90	Rinder Pest	Gaurs	60	Domestic cattle	By vaccination of local cattle
112	KAR/S/BIL		Yes	1960's		Wild gaur	40%	Infection	No
113	KAR/S/BRA	NO	No						
114	KAR/S/DAN	YES	No						
115	KAR/S/DOR	NP							
116	KAR/S/GHA	NO	No						
117	KAR/S/GUD	NP							
118	KAR/S/KAV	NP	No						
119	KAR/S/MEL	NO	No						
120	KAR/S/MOO	NO	No						
121	KAR/S/NUG	NO	No						
122	KAR/S/PUS	NP	No						
123	KAR/S/RANE	NO	No						
124	KAR/S/RANG	NO	No						
125	KAR/S/SHA		No						
126	KAR/S/SHE	NO	No						
127	KAR/S/SOM	NO	No						
128	KAR/S/TAL	NP	No						
129	KER/N/ERA	NO	No						
130	KER/S/ARA		No						

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
131	KER/S/CHIN	NO	No						
132	KER/S/WAY	NO	No		Data not available				Yearly vaccination of animals (Domestic) in surrounding areas
133	MAH/N/AND	NP	No						
134	MAH/N/NAV		No						
135	MAH/N/PEN	NO	No						
136	MAH/N/SAN	NO	No						
137	MAH/S/AMB	NP	No						
138	MAH/S/ANE	NP	No						
139	MAH/S/BHA	NP							
140	MAH/S/BHI		No						
141	MAH/S/BOR	NO	No						
142	MAH/S/CHAN		No						
143	MAH/S/CHAP	NP	No						
144	MAH/S/DEU		No						
145	MAH/S/GAU	NP	No						
146	MAH/S/GRE		No						
147	MAH/S/GYA	NP	No						
148	MAH/S/JAI	NP	No						
149	MAH/S/KAL		No						
150	MAH/S/KAR	NO	No						
151	MAH/S/KAT	NP	No						
152	MAH/S/MAL	NP	Not known						
153	MAH/S/MAY		No	Every year	Foot and mouth	Domestic cattle			
154	MAH/S/NAG	NO	No						
155	MAH/S/NAI	NP	No						
156	MAH/S/NAR	NP	N.A						

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
157	MAH/S/PAI	NP	NA						
158	MAH/S/RAD	NO	No						
159	MAH/S/SAG	NP	No						
160	MAH/S/TIP	NP			Not recorded				
161	MAH/S/WAN	NP			Foot & mouth disease	In herbivore spp.			This happens occasionally
162	MAH/S/YAW	NO	No						
163	MAH/S/YED	NP	Yes	1998	Hydrocill	Rhesus macaques(Red mouth monkey)	50%	Not known	Animal husbandery authority has been contacted and informed about disease
164	MAN/N/KEI	NO							
165	MAN/S/YAN								
166	MEG/N/BAL	NP	No						
167	MEG/N/NOK	NP	Yes	1990-91	Not available	Wild boar	Not available	N.A.(This information is collected from the local people only)	Immunisation of cattle or livestock are taken up in areas within the 10km radius from the PA
168	MEG/S/BAG	NP	No						
169	MEG/S/NON	NO	NA						
170	MEG/S/SIJ	NO	No						
171	MIZ/N/MUR	NP							
172	MIZ/N/PHA	NP	No						
173	MIZ/S/DAM		No						
174	MIZ/S/KHA	NP	No						
175	MIZ/S/LEN	NP	No						
176	MIZ/S/NGE	NP	No						
177	MP/N/BAN	NO	No						

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
178	MP/N/GHU	NP	No	Nil					
179	MP/N/PEN	NO	No						
180	MP/N/SAN	NO	No						
181	MP/N/SAT		No	N.A.					
182	MP/N/VAN	NO	Yes	1996	Feline Panlemonia (FPL)	Tiger and Leopard	36	Viral disease	Annual vaccination carried out.
183	MP/S/BAD		No						
184	MP/S/BAG	NO	No						
185	MP/S/GAN	NO	No						
186	MP/S/KAR	NO	No						
187	MP/S/KHE	NO	No	N.A.					
188	MP/S/KUN	NP	No						
189	MP/S/NAR		No	N.A.					
190	MP/S/NAT		No						
191	MP/S/NOR	NP	No	Nil					
192	MP/S/ORC		No						
193	MP/S/PEN	YES	No						
194	MP/S/RAL	NP	No						
195	MP/S/SAI	NO	No	N.A.					
196	MP/S/SAR	NP	No	N.A.					
197	MP/S/SON								
198	NAG/N/INT	NO	No						
199	NAG/S/FAK	NP	No						
200	NAG/S/PUL	NP	No						
201	NAG/S/RAN	NP	No						
202	ORI/N+S/BHI		No						
203	ORI/S/BAD	NP	Yes	1984	Foot and Mouth Disease	Gaur	60-80%	Due to Drought	None
204	ORI/S/BAI	NO	No						

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
205	ORI/S/BAL	NP	No						
206	ORI/S/CHA		No						
207	ORI/S/CHI	NP	No						
208	ORI/S/DEB	NP	No						
209	ORI/S/HAD		No						
210	ORI/S/KAR		No						
211	ORI/S/KHA	NP	No						
212	ORI/S/KOT	NP	No						
213	ORI/S/KUL				No records				
214	ORI/S/LAK	NP	No						
215	ORI/S/SATN		Yes	1995	Foot and mouth disease	Dear, Nilgai, Gaur	10%	Transmitted through domestic cattle	Vaccinated to the cattle
	ORI/S/SATN		Yes	1995	Rinder pest	Gaur	20%	Transmitted through domestic cattle	Vaccinated to the cattle
216	ORI/S/SATS								
217	ORI/S/SIM		No						
218	ORI/S/SUN	NP	No						
219	PUN/S/ABO	NP	No						
220	PUN/S/AIS	NP	No	N.A.					
221	PUN/S/BHA	NP	No	N.A.					
222	PUN/S/BHU	NP	No	N.A.					
223	PUN/S/DOS	NP	No	N.A.					
224	PUN/S/GUR	NP	No	N.A.					
225	PUN/S/HAR	NP	No						
226	PUN/S/MAH	NP	No						
227	PUN/S/MOT	NP	No						
228	PUN/S/TAK	NP							
229	RAJ/N/DES	NO	No						
230	RAJ/N/KEO		No						

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
231	RAJ/S/BAS		Nil						
232	RAJ/S/BHA		No						
233	RAJ/S/JAI		No						
234	RAJ/S/JAM	NO	No						
235	RAJ/S/KELA		No						
236	RAJ/S/KUM		No						
237	RAJ/S/NAH		No						
238	RAJ/S/PHU		No						
239	RAJ/S/SAJJ		NA						
240	RAJ/S/SIT		Nil						
241	RAJ/S/TAL	NO	No						
242	RAJ/S/TOD		No						
243	RAJ/S/VAN		No						
244	SIK/N/KHA	NO	No						
245	SIK/S/BAR	NP	No						
246	SIK/S/FAM		No						
247	SIK/S/KYON	NP	No						
248	SIK/S/MAE		No						
249	SIK/S/SHIN	NP	No						
250	TN/N/GUI		NA						
251	TN/N/GUL	NP							
252	TN/N/IND	NP	No						
253	TN/N/MUD	NP	Yes		Foot & mouth disease	Not known			
254	TN/N/MUK	NP	No						
255	TN/S/CHI	NP	None						
256	TN/S/GRI	NP	No						
257	TN/S/KAN	NP							
258	TN/S/KARA	NP							

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
259	TN/S/KARI	NP	No						
260	TN/S/KOO	NP	No						
261	TN/S/MEL	NP							
262	TN/S/POIN	NO	No						
263	TN/S/PUL	NO	No						
264	TN/S/UDA	NP	No						
265	TN/S/VAD	NP	No						
266	TN/S/VALL	NP	No						
267	TN/S/VED	NO	No						
268	TN/S/VELL	NP	No						
269	TN/S/VET	NP							
270	TRI/S/GUM	NP	No						
271	TRI/S/TRI	NP	No						
272	UP/S/BAK		No						
273	UP/S/CHA		No						
	UP/S/CHA		No						
274	UP/S/KAC		No						
275	UP/S/KAI		No						
276	UP/S/KAT		No						
277	UP/S/LAK								
278	UP/S/MAH		No						
279	UP/S/NAT		Yes		Not known	Vultures	95%	Not known	None
280	UP/S/NAW								
281	UP/S/OKH		No						
282	UP/S/PAR		No						
283	UP/S/PAT		No						
284	UP/S/RAN		No						
285	UP/S/SAMN		Yes		Not known	Vultures	99%	Not known	None
286	UP/S/SAMS								

Table 1.28: PAs Affected by Diseases of Fauna
Note: All values for area are in square kilometers

S. No.	PA code	Occurrence of any faunal diseases in the PA		Year	Name of the Disease	Species affected	New Data 1998-03		
		Old Data 1984-87	New Data 1998-03				Percentage of the population affected	Cause of the disease	Steps taken for prevention
287	UP/S/SAN								
288	UP/S/SOH								
289	UP/S/SUH		No						
290	UP/S/SURA		No						
291	UP/S/SURS		No						
292	UP/S/VIJ		No						
293	UTT/N/COR	YES	No						
294	UTT/N/GAN		No						
295	UTT/N+S/GOV		No						
296	UTT/S/ASK		No						
297	UTT/S/BIN	NP	No						
298	UTT/S/BINO		No						
299	UTT/S/KED	NO	No						
300	UTT/S/SON		No						
301	WB/N/GOR	NP	No						
302	WB/N/NEO		No						
303	WB/N/SUN	NP	No						
304	WB/S/BAL	NO	No						
305	WB/S/BET	NP	No						
306	WB/S/BIB	NP	No						
307	WB/S/CHA		No						
308	WB/S/HAL	NP	No						
309	WB/S/LOT	NP							
310	WB/S/RAI	NP							
311	WB/S/RAM	NO			No disease detected by the medical attendant.				
312	WB/S/SEN	NP							

Table 1.29: Vaccination of Livestock

Table 1.29: Vaccination of Livestock

S.no	PA code	Vaccination of livestock within the PA		Vaccination of livestock outside the PA		Percentage of livestock vaccinated within the PA		Percentage of livestock vaccinated outside the PA		Vaccination of livestock passing through the PA on a thoroughfare		Do quarantine facilities exist in or around the PA		Details of quarantine facilities, if any	Remarks
		OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03		
1	A&N/N/SAD	NO	NA	NO	NA		NA		NA		NA		NA		
2	A&N/S/CUT	NP	Never	NP	Never		0%		0%		Never		No		
3	A&N/S/INT	NO	NA	NO	NA		NA		NA		NA		NA		
4	A&N/S/NAR		NA		NA		NA		NA		NA		NA		
5	A&N/S/NOR		NA		NA		NA		NA		NA		NA		
6	AP/N/KAS	NP	Never	NP									No		
7	AP/N/MAH	NP	Entire area fenced	NP	Regularly				100%				Yes		
8	AP/N/MRU	NP	No livestock within PA due to fencing all around, no livestock can enter the PA	NP									No		
9	AP/N/VEN	NP	Never	NP	Sometimes				20%		Never		No		
10	AP/S/COR	NO	No village within PA	NO	Sometimes				100%		Never		No		
11	AP/S/ETU	YES	Regularly But not all	YES	Sometimes but not all	25%		10%		YES	Occasionally	NO	No		
12	AP/S/GUN	NP	Never		Sometimes				70%		Never		No		
13	AP/S/KAW	NO		YES	Sometimes	0	70%	70%	70%	NO	Occasionally	NO	No		
14	AP/S/KOL		Sometimes		Sometimes		50%		50%		Never	NO	No		
15	AP/S/KOU	NP	Regularly		Sometimes 53, Regularly 16		100%		45%				No		
16	AP/S/KRI	NP	Regularly		Regularly		100%		50%		Occasionally		No		
17	AP/S/MAN	NO	Sometimes	YES	Sometimes		Not known	90%	Not Known	NO		NO	No		
18	AP/S/NEL	NO		YES		0		100%		NO		NO	No		
19	AP/S/PAK	YES	Regularly but not all.	YES	Regularly but not all	23%	70%	14%	60%	YES	Occasionally	NO	No		
20	AP/S/PAP	NO	NO	NO	Sometimes	0		0%	50%	NO	Never	NO	No		
21	AP/S/POC	NO	Never	NO	Regularly	0		0%	80	NO	Never	NO	No		
22	AP/S/PRA	NO		YES	Sometimes	0	70%	80%	70%	NO	Occasionally	NO	No		
23	AP/S/PUL	NO	Never	YES		0		100%		NO	Never	NO	No		
24	AP/S/SIW	NO		YES	Sometimes	0	70%	80%	70%	NO	Occasionally	NO	No		
25	ARU/N/MOU	NP													
26	ARU/N/NAM	YES	NA	YES	Regularly	100%		100%	100%	YES	NA	YES	No		
27	ARU/S/DER	NO		NO	Sometimes	0		0%	20-25%			NO	No		
28	ARU/S/KAM	NP	Never		Sometimes					NO					
29	ARU/S/MEH	NO	Sometimes	YES	Sometimes		100%	FEW	0.6		Never	NO	No		
30	ARU/S/YOR	NP	Never		Never						Never		No		
31	ASS/N/DIB	NP	Regularly		Regularly				Partly				No		
32	ASS/N/KAZ	NP			Regularly				80%				No		
33	ASS/N/MAN	NP	Never		Sometimes				25-35		Never		No		
34	ASS/N/NAME		Regularly		Regularly	100%		90%			Never		No		
35	ASS/N/ORA	NP			Sometimes				50%				No		
36	ASS/S/BAR	NP	Never		Regularly				80% (Veterinary department)		Never		No		
37	ASS/S/BUR														
	ASS/S/BUR		Regularly		Regularly	80-90%			70-80%				No		
38	ASS/S/DIP	NP	Regularly		Regularly				100%				No		
39	ASS/S/EKAR		Never		Sometimes				10 to 15%		No highways or roads pass through the PA.		No		
40	ASS/S/GAR		Never		Never	0		0			Occasionally		Yes		
41	ASS/S/GIB	NP	Regularly		Regularly				100%		Never		No		
42	ASS/S/KAR		Never		Never	0		0			Never		No		
43	ASS/S/LAO	NP	Never		Sometimes				10%		Never		No		
44	ASS/S/NAMB		Sometimes		Sometimes						Occasionally		No		
45	ASS/S/PAN	NP	Regularly		Regularly								No		
46	ASS/S/POB	NP	Regularly		Regularly						Never		No		
47	ASS/S/SON	NP			Sometimes				80%		Occasionally		No		
48	BIH/S/RAJ			NO				0%		NO		NO	No		

Table 1.29: Vaccination of Livestock

S.no	PA code	Vaccination of livestock within the PA		Vaccination of livestock outside the PA		Percentage of livestock vaccinated within the PA		Percentage of livestock vaccinated outside the PA		Vaccination of livestock passing through the PA on a thoroughfare		Do quarantine facilities exist in or around the PA		Details of quarantine facilities, if any	Remarks
		OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03		
49	CHD/S/SUK			YES	Regularly	0	100%	90%					No	There are no high ways or public roads passing through the sanctuary.	
50	CHT/N/IND	NO		NO	Regularly	0		0%		NO	NA	NO	No		
51	CHT/S/ACH	NO		NO		10				YES		NO			
52	CHT/S/BAR		Regularly	YES	Regularly	0	100%	100%	100%	YES	NA				
53	CHT/S/BHA	NO	Regularly	NO	Regularly			0%	95%	NO	Always	NO	No		
54	CHT/S/GOM		Regularly		Regularly						Occasionally		No		
55	CHT/S/PAM	NO	Sometimes	NO	Sometimes	0	50%	0%	50%	YES	Never	NO	No		
56	CHT/S/SIT		Regularly	YES	Regularly		100%	100%	80%	YES	Occasionally	NO	No		
57	CHT/S/TAM	NO	Regularly	NO	Regularly	0	80%	0%	75%	YES	Always	NO	No		
58	CHT/S/UDA	NO	Regularly	NO	Regularly	0	100%	0%	100%	NO	Occasionally	NO	No		
59	CHT/N/KAN	YES	Sometimes	NO	Sometimes	10	100%	0%	60%	NO	Never	NO	No		
60	DEL/S/ASO	NP	Never		Regularly		0%		70%		N.A.		No		
61	GOA/S/BON		Regularly		Regularly			100%					No		
62	GOA/S/CHO	NP	Never		Regularly				70%				No		
63	GUJ/N/BAN		Regularly	NO	Regularly		100%		100%	NO	Occasionally		Yes		
64	GUJ/S/PUR	NP	Regularly		Regularly		100%		100%		Occasionally		No		
65	GUJ/S/RAT		Sometimes		Sometimes		100%		100%		NA		No		
66	GUJ/S/WIL	NP	Sometimes		Sometimes		100%		5%		Never		No		
67	HAR/N/SUL			YES	Regularly				90%		N.A.		No		
68	HAR/S/ABU	NP	Sometimes		Sometimes						Never		No		
69	HAR/S/BHIN	NP	Sometimes		Sometimes				90%				No		
70	HAR/S/BIRB	NP	Regularly	NP	Regularly		80%		100%		Always		No		
71	HAR/S/BIRS	NP	Regularly		Regularly				80%		Occasionally		No		
72	HAR/S/CHIL	NP	Regularly		Regularly		100%				Always		No		
73	HAR/S/KAL	NP			Regularly				5%				No		
74	HAR/S/KHA	NP			Sometimes				90%		Never		No		
75	HAR/S/NAH	NP			Sometimes				90%				No		
76	HAR/S/SAR	NP							90%		Occasionally		No		
77	HP/N/GRE														
78	HP/S/DAR	NO	Regularly		Regularly		100%		100%	NO	Never	NO	No		Vaccination is done in Alpine Pastures as well as villages
79	HP/S/DHA	NP	Sometimes		Sometimes		50%		50%		Never		No		
80	HP/S/GAM	NO	Regularly	YES	Regularly	0	100%	40%	100%	NO	Occasionally	NO	No		
81	HP/S/KAI		Never		Never						Never		No		
82	HP/S/KAL	NO	Sometimes	NO	Sometimes		50%		50%	NO	Occasionally	NO	No		
83	HP/S/KAN		Regularly		Regularly		100%		100%		NA		No		
84	HP/S/KHO		Never		Never						Never		No		
85	HP/S/KUG	YES	Regularly	YES	Regularly	25%	50%	40%	50%	NO	Never	NO	No		
86	HP/S/LIP	NO	N.A.	NO	Regularly		N.A.		100%	NO	N.A.	NO	No		
87	HP/S/MAN		Never		Never						NA		No		
88	HP/S/NAR	NO	No	NO	No		0%		0%	NO	Never	NO	No		
89	HP/S/PON			NO						NO		NO			This information was not available with the DFO (WL), Chamba
90	HP/S/RUP	NO	Regularly	NO	Regularly		100%		20%	NO	Always	NO	No		
91	HP/S/SAN	NP	Regularly		Regularly		100%				NA		No		Only cows, goats and sheep are vaccinated. Vaccination is done only when the cattle come and graze within the PA, once a year
92	HP/S/SHI	NO	Never	NO	Never						Never	NO	No		
93	HP/S/TUN	YES	Regularly	NO	Regularly	20%	50%	40%	50%	NO	Never	NO	No		
94	J&K/N/HEM		Sometimes		Sometimes						NA		No		
95	J&K/N/KIS	NO	Sometimes	NO	Sometimes		40%		40%	NO	Occasionally	NO			

Table 1.29: Vaccination of Livestock

S.no	PA code	Vaccination of livestock within the PA		Vaccination of livestock outside the PA		Percentage of livestock vaccinated within the PA		Percentage of livestock vaccinated outside the PA		Vaccination of livestock passing through the PA on a thoroughfare		Do quarantine facilities exist in or around the PA		Details of quarantine facilities, if any	Remarks
		OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03		
96	J&K/S/CHA		Sometimes		Sometimes		Not known		Not known		Never		No		
97	J&K/S/KAR		Sometimes		Never						Never		No		
98	J&K/S/OVE	NO		NO							Never	NO	No		
99	JHA/N/RAJ	NP			Never					NO	Never		No		
100	JHA/S/HAZ	NO	Never	NO	Never	0		0%			Never	NO	No		
101	JHA/S/PAR	NP	Never							NO	Never		No		
102	JHA/S/UDH	NP			Sometimes				50%		N.A.		No		
103	KAR/N/ANS	NP	Regularly		Regularly		100%		100%		Never		No		
104	KAR/N/BAND	NO	Never	YES	Regularly	0		70%	60%		Always	NO	No		
105	KAR/N/BANN		Sometimes		Sometimes				100%		Never		No		
106	KAR/N/KUD	NP	Never		Sometimes		60%		30%	YES	Occasionally		No		
107	KAR/N/NAG	YES	Regularly	YES	Regularly	65%		30%	50%		Never	YES	No		
108	KAR/S/ADI	NO	Never	NO	Sometimes	0		0%		YES		NO	No		
109	KAR/S/ARA	NP								NO			NA		
110	KAR/S/ATT		Never								Never		No		As this is a new sanctuary above measures have to be undertaken now.
111	KAR/S/BHA	YES	Regularly	YES	Regularly	80%	100%	70%	100%		Occasionally	NO	No		
112	KAR/S/BIL		Regularly		Regularly		100%		100%		Always		No		
113	KAR/S/BRA	YES		YES	Sometimes	70%		70%	Yes	YES		NO	No		
114	KAR/S/DAN	NO	Regularly	NO	Regularly	0	100%	0%	100%	YES	Never	NO	No		
115	KAR/S/DOR	NP	Never		Never					NO	Never		Yes		
116	KAR/S/GHA	NO		NO	Never	0		0%			Never	NO	No		
117	KAR/S/GUD	NP								NO					
118	KAR/S/KAV	NP			Sometimes						No roads		No	No	
119	KAR/S/MEL	NO		YES	Sometimes	0		70%			Never	NO	No	No	
120	KAR/S/MOO	YES	Never	YES	Never	80%		80%		YES	Never	NO	No		
121	KAR/S/NUG	YES		YES	Sometimes	0		40%	60%	YES	Never	YES	No	No	
122	KAR/S/PUS	NP	Sometimes		Sometimes				50-60%	YES	No roads		No		
123	KAR/S/RANE		Sometimes		Sometimes				50-60%		Never		Yes		
124	KAR/S/RANG				Sometimes								NA		
125	KAR/S/SHA	YES	Never	YES		85%		85%				NO	No		
126	KAR/S/SHE	YES	Regularly	YES	Regularly	70%	100%	70%	100%		Occasionally	NO	No		
127	KAR/S/SOM	YES	Never	YES	Sometimes	85%	60%	85%	30%	YES	Occasionally	NO	No		
128	KAR/S/TAL	NP	Regularly		Regularly								No		
129	KER/N/ERA	NO	Regularly	NO	Regularly	0	100%	0%	100%			NO	No		
130	KER/S/ARA		Never		Regularly		Nil		100%		No highway or public roads pass through the PA		No		
131	KER/S/CHIN	NO	Sometimes	NO	Sometimes	0	70%	0%	50%	NO	N.A.	NO	No		No livestock is allowed to pass through the PA.
132	KER/S/WAY	NO	Regularly	YES	Regularly		100%		75%	YES	Never	NO	No		
133	MAH/N/AND	NP	Regularly		Regularly		100%		100%	NO	NA		No		No highway passes through the PA.
134	MAH/N/NAV	NP	Regularly		Regularly		75%		75%				No		
135	MAH/N/PEN	NO	Never(3/4 years back)	NO	Never				Yes	NO	Never	NO			
136	MAH/N/SAN	NO	Never	NO	Never	0		0%		NO	Never	NO	No		
137	MAH/S/AMB	NP	Regularly		Regularly		100%		50%		Occasionally		No		
138	MAH/S/ANE	NP	Sometimes		Never						Never				
139	MAH/S/BHA	NP	Regularly				0%				Never		No		
140	MAH/S/BHI		Regularly		Regularly (within the limits of available resources Percentage of vaccinated livestock varies)						Never		No		
141	MAH/S/BOR	NO	Never	NO	Never	0	0%	0%	0%	NO	Never	NO	No		

Table 1.29: Vaccination of Livestock

S.no	PA code	Vaccination of livestock within the PA		Vaccination of livestock outside the PA		Percentage of livestock vaccinated within the PA		Percentage of livestock vaccinated outside the PA		Vaccination of livestock passing through the PA on a thoroughfare		Do quarantine facilities exist in or around the PA		Details of quarantine facilities, if any	Remarks
		OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03		
142	MAH/S/CHAN		Regularly		Regularly		50%		50%		Occasionally		No		
143	MAH/S/CHAP	NP	Regularly		Regularly		100%		60%		Always		No		
144	MAH/S/DEU		Regularly		Regularly		No village		100%		Never		No		
145	MAH/S/GAU	NP			Sometimes				10%		Never		No		
146	MAH/S/GRE		Regularly		Regularly				NA		Never		No		
147	MAH/S/GYA	NP	Never		Never		Not known		Not known		Never		No		
148	MAH/S/JAI	NP	Never		Never						Never		No		
149	MAH/S/KAL	NO	Regularly	NO	Sometimes					NO	Never	NO	No		
150	MAH/S/KAR	NO	Sometimes	NO	Sometimes	0		0%		NO	Occasionally	NO	No		
151	MAH/S/KAT	NP	Regularly		Regularly		100%		100%		Never		No		
152	MAH/S/MAL	NP									Never		NA		
153	MAH/S/MAY		Regularly		Regularly						Always		No		Surrounding villages will be regular from 2000
154	MAH/S/NAG	NO	Regularly	NO	Regularly	0	75%	0%	75%	NO	N.A.	NO	No		
155	MAH/S/NAI	NP	Never		Never						Never		No		
156	MAH/S/NAR	NP	Never		Never								No		
157	MAH/S/PAI	NP	Sometimes		Sometimes		10%		10%		Never		No		
158	MAH/S/RAD	NO	Sometimes	NO	Sometimes	?			?	NO	Never	NO	No		
159	MAH/S/SAG	NP	Regularly		Regularly				100%		Never		No		
160	MAH/S/TIP	NP	Never		Never		Nil		Nil		Never		No		
161	MAH/S/WAN	NP	Regularly		Sometimes								No		
162	MAH/S/YAW	NO		NO	Sometimes	0				NO	Never	NO	No		
163	MAH/S/YED	NP	Never		Never								No		
164	MAN/N/KEI	NO		YES	Regularly	0	70%	60%	70%	NO		NO	No		
165	MAN/S/YAN		Regularly		Regularly		100%		100%		Always		Yes		
166	MEG/N/BAL	NP	Never		Sometimes within 10km radius		0%		60-70%		Occasionally		NA		
167	MEG/N/NOK	NP	No livestock within the PA	Yes	Regularly				100%		No livestock passes through the PA		No		
168	MEG/S/BAG	NP	Sometimes		Sometimes								No		
169	MEG/S/NON	NO	Regularly	NO	Regularly		90%			NO	Occasionally	NO	No		
170	MEG/S/SIJ	NO	Never	NO	Sometimes					NO	Occasionally	NO	No		
171	MIZ/N/MUR	NO	Never		Never						N.A.		No		
172	MIZ/N/PHA	NO	Never		Sometimes		0%		20% to 40%, in coordination with animal husbandry department	NO	Always		No		
173	MIZ/S/DAM		Never		Sometimes			5%			Never	NO	No		
174	MIZ/S/KHA	NP	Never		Never						N.A.		No		
175	MIZ/S/LEN	NP	Never								Never		No		
176	MIZ/S/NGE	NP	Never		Never			0%			N.A.		No		
177	MP/N/BAN	YES	Regularly	YES	Sometimes		100%		80% approximately	YES	Occasionally	NO	No		
178	MP/N/GHU	NP	Sometimes		Sometimes		Not known		Not known		Never		No		
179	MP/N/PEN	NO	N.A.	YES	Sometimes		Not known		60%		N.A.	NO	NA		
180	MP/N/SAN	YES	Not known	YES	Not known	80%	Not known	80%	Not known		Not known	NO	No		Not available page No.15 to 20 missing.
181	MP/N/SAT	NO	Regularly	NO	Regularly		100%		75-90%	NO		NO	No		
182	MP/N/VAN		Regularly	NO	Regularly	0	Not known		N.A.		Never	NO	Yes		
183	MP/S/BAD	YES	Sometimes	YES	Sometimes		80%		75%	NO	Occasionally	NO	No		
184	MP/S/BAG	NO	Sometimes	NO	Sometimes		90%		35%	YES	Occasionally	NO	No		
185	MP/S/GAN	NO	Regularly	NO	Regularly	0	100%	0%	100%		NO	NO	No		
186	MP/S/KAR	NO	Not known	NO	Not known	0	Not known	0%	Not known		NO	Not known	Not known		
187	MP/S/KHE	NO	Regularly	YES	Regularly	0	100%			NO	Not known	NO	No		
188	MP/S/KUN	NP	Sometimes		Sometimes		5%		15%		Not known		Yes		
189	MP/S/NAR	NO	Regularly	NO	Regularly		75%		75%	YES	Never	NO	No		
190	MP/S/NAT		Sometimes		Sometimes		Not known		Not known	NO	Occasionally	NO	Not known		
191	MP/S/NOR	NP	Sometimes		Sometimes		50%		20%		Never		No		

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		OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03		
192	MP/S/ORC		Sometimes		Sometimes		60%		65%		Never		No		
193	MP/S/PEN	NO	Sometimes	YES	Sometimes		Not known	70%	70%	YES	Never	NO	No		
194	MP/S/RAL	NP	Never		Regularly		0%		85%		No such high way or road passes through the PA.		No		
195	MP/S/SAI	NO	Never	NO	Regularly	0	Not known	0%	50%	NO	Not known	NO	No		
196	MP/S/SAR	NP	Sometimes		Sometimes		100%		100%		Occasionally		No		
197	MP/S/SON														
198	NAG/N/INT	NO	Never	NO	Sometimes				25%		Never	NO	No		
199	NAG/S/FAK	NP	Never		Never						Never		No		
200	NAG/S/PUL	NP	Never		Never						Never		No		
201	NAG/S/RAN	NP	Sometimes		Sometime		5%		25%		Never		No		
202	ORI/N+S/BHI		Sometimes								Never		Yes		
203	ORI/S/BAD	NP	Regularly		Regularly		40%		Can not say		Never		No		
204	ORI/S/BAI	NO	Sometimes	NO	Sometimes		100%		100%		NO	Never (No such facility exists)	NO	No	
205	ORI/S/BAL	NP			Not known						Never		No		
206	ORI/S/CHA	NO		NO	Sometimes				90%		NO	Livestock does not pass through the PA	NO	No	
207	ORI/S/CHI	NP	Never		Sometimes		0%		20		Never		No		
208	ORI/S/DEB	NP			Regularly		100%		100%		Never		No		
209	ORI/S/HAD	NO		NO			20%		90%		NO	NO	No		
210	ORI/S/KAR		Never		Sometimes				50%		Never		No		
211	ORI/S/KHA	NP	Sometimes		Sometimes						Never		No		Done by veterinary department and not PA authorities.
212	ORI/S/KOT	NP	Sometimes				100%		100%		Never		No		
213	ORI/S/KUL		Never		Sometimes				No records				No		
214	ORI/S/LAK	NP	Never		Sometimes		75%				Never		No		
215	ORI/S/SATN		Sometimes		Sometimes		50%		Not available		Never		No		
216	ORI/S/SATN														
216	ORI/S/SATS										Never, no such steps taken.		No		No data available
217	ORI/S/SIM		Regularly		Sometimes		Less than 50%		Negligible		NA		No		
218	ORI/S/SUN	NP	Sometimes		Never		50%				Never		No		
219	PUN/S/ABO	NP			Regularly		100%		90%		Occasionally		No		
220	PUN/S/AIS	NP	Regularly		Regularly		100%		100%		N.A.		No		
221	PUN/S/BHA	NP	Regularly		Regularly		100%		100%		Occasionally		No		
222	PUN/S/BHU	NP			Regularly		100%		100%		Occasionally		No		
223	PUN/S/DOS	NP	Regularly		Regularly		100%		100%		Occasionally		No		
224	PUN/S/GUR	NP	Regularly		Regularly		100%		100%		N.A.		No		
225	PUN/S/HAR	NP	Regularly		Regularly		100%		90%		Occasionally		No		
226	PUN/S/MAH	NP	Regularly		Regularly		100%		100%		N.A.		No		
227	PUN/S/MOT	NP	Regularly		Regularly		100%		100%				No		
228	PUN/S/TAK	NP					100%		100%				No		
229	RAJ/N/DES	NO	Sometimes	NO	Sometimes		10%		10%	YES	Occasionally	NO	No		
230	RAJ/N/KEO		Never		Sometimes		NA		50%		NA		No		
231	RAJ/S/BAS		Sometimes		Sometimes		70%		40%		NA		No		
232	RAJ/S/BHA		Sometimes								Never		No		
233	RAJ/S/JAI		Sometime		Sometime				60%		Occasionally		No		
234	RAJ/S/JAM		Sometimes	NO	Sometimes					NO	Never		No		
235	RAJ/S/KELA		Sometimes		Sometimes		90%		50%		Occasionally		No		
236	RAJ/S/KUM		Regularly		Regularly		100%		90%		Occasionally		No		
237	RAJ/S/NAH	NO	Never	NO	Never	0		0%		NO	Never	NO	No		
238	RAJ/S/PHU		Sometimes		Sometimes		90%		90%		Occasionally		No		
239	RAJ/S/SAJJ		Never		Sometimes		0%		70-80%		Never		No		
240	RAJ/S/SIT		Sometimes		Sometimes		100%		100%		Never		No		
241	RAJ/S/TAL	NO	Sometimes	NO	Regularly	0		0%	100%		Always	NO	No		
242	RAJ/S/TOD		Sometimes		Sometimes		60%		60%		Occasionally		No		

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		OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03		
243	RAJ/S/VAN		Sometimes		Sometimes		70%		70%		Never		No		
244	SIK/N/KHA	NO		NO						NO		NO	No		
245	SIK/S/BAR	NP													
246	SIK/S/FAM		Sometimes		Sometimes						NA		No		
247	SIK/S/KYON	NP											No		
248	SIK/S/MAE		Regularly		Regularly		100%		100%		Never		No		
249	SIK/S/SHIN	NP											No		
250	TN/N/GUI														
251	TN/N/GUL	NP													
252	TN/N/IND	NP	Sometimes		Sometimes						Always		No		
253	TN/N/MUD	NP	Regularly		Regularly		100%		Co-ordinator with Animal husbandry(not 100%)		Always		Not now		
254	TN/N/MUK	NP													
255	TN/S/CHI	NP									Never		No		
256	TN/S/GRI	NP	Sometimes		Sometimes		70%				Always				
257	TN/S/KAN	NP											No		
258	TN/S/KARA	NP	Never												
259	TN/S/KARI	NP	Never												
260	TN/S/KOO	NP			Never				Surrounding villages		Never		No		
261	TN/S/MEL	NP													
262	TN/S/POIN	YES	Never	YES	Never	100%		0%		A ?	Never	NO	No		
263	TN/S/PUL									NO		NO			
264	TN/S/UDA	NP	Never		Never										
265	TN/S/VAD	NP	Never		Never										
266	TN/S/VALL	NP			Sometimes				Surrounding villages		Never		No		
267	TN/S/VED	NO		NO		0		0%		NO		NO			N.A
268	TN/S/VELL	NP	Never								Never		No		
269	TN/S/VET	NP											No		Information about vaccination not known
270	TRI/S/GUM	NP											No		
271	TRI/S/TRI	NP													
272	UP/S/BAK		Never		Sometimes						Never		No		
273	UP/S/CHA	NO		NO			80%			NO		NO	No		
	UP/S/CHA		Sometimes		Sometimes	0.8		70%			Never		No		
274	UP/S/KAC		Never		Never	0		0%			Occasionally		No		
275	UP/S/KAI		Regularly		Regularly	1		60%			Occasionally		No		
276	UP/S/KAT		Never		Sometimes	0		Not known			Occasionally		No		
277	UP/S/LAK		Never		Sometimes			50%					No		
278	UP/S/MAH				Sometimes			50%			NA		No		
279	UP/S/NAT		Regularly		Regularly						Occasionally		No		
280	UP/S/NAW		Never		Sometimes			55%							
281	UP/S/OKH		Sometimes		Regularly						Never		No		
282	UP/S/PAR		Sometimes		Sometimes			50%			Occasionally		No		
283	UP/S/PAT		Sometimes		Regularly						Never		No		
284	UP/S/RAN		Regularly		Regularly	1		60%			NA		No		No specific incident has been reported in the past 10 years.
285	UP/S/SAMN		Regularly										No		
286	UP/S/SAMS		Never		Sometimes			45%					No		
287	UP/S/SAN		Never		Sometimes			50%					No		
288	UP/S/SOH				Regularly			80%			Never		No		
289	UP/S/SUH		Never		Never								No		
290	UP/S/SURA		Never		Never	0		0%			Never		No		
291	UP/S/SURS		Sometimes		Regularly						Never		No		
292	UP/S/VIJ		Sometimes		Regularly			100%							
293	UTT/N/COR			YES				15%		YES		NO	No		
294	UTT/N/GAN		Never		Never	NA		NA			NA		No		
295	UTT/N+S/GOV		Sometimes		Sometimes	50%		50%			Occasionally		No		

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		OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03	OLD DATA 1984-87	NEW DATA 1998-03		
296	UTT/S/ASK		Never		Never		NA		NA		Never		No		
297	UTT/S/BIN	NP					95%		95%				No		
298	UTT/S/BINO		Never		Sometimes		NA		50%		NA		No		
299	UTT/S/KED	NO		NO					98%		NO	NO	No		
300	UTT/S/SON		Never		Sometimes				60%		NA				
301	WB/N/GOR	NP	Regularly		Sometimes		NA		50%		Occasionally		No		
302	WB/N/NEO		Never		Never						NA		No		
303	WB/N/SUN	NP	Regularly		Regularly		100%				NA		No		
304	WB/S/BAL	NO		YES	Sometimes			40%	50%		NA	YES	No		
305	WB/S/BET	NP			Regularly				70%				Yes		
306	WB/S/BIB	NP	Sometimes		Sometimes				20%				No		No public road/highway passes through the PA
307	WB/S/CHA		Regularly		Regularly		NA		60%		Occasionally		No		
308	WB/S/HAL	NP	Never		Never						Never		No		
309	WB/S/LOT	NP													
310	WB/S/RAI	NP	Never		Never						Never		No		
311	WB/S/RAI	NO		NO		0	0%	0%	0		Never	NO	No		
312	WB/S/SEN	NP			Regularly		100%		100%		Never		No		

