

NATIONAL PEDIGREE BOOK OF BENGAL TIGER



केन्द्रीय चिड़ियाघर प्राधिकरण
Central Zoo Authority

(STATUTORY BODY UNDER THE MINISTRY OF ENVIRONMENT & FORESTS, GOVT. OF INDIA)

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OF BENGAL TIGER**

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PREFACE

Bengal Tigers are one of the critically endangered large cats of India. It inhabits a wide range of habitats, from the mangrove forests in the East to the dry-deciduous forests in the West. The species is found practically throughout India, except the deserts of Rajasthan, Gujarat and Punjab, and higher reaches of Himalayas. Outside India the species is found in Nepal, Bhutan, Bangladesh and Burma (Anon. 1994). The adaptability of the species to a wide range of habitat conditions and its solitary nature probably account for its survival in the wild. As per the 1997 census the total population of tigers in the wild stood at 3435 (Anon. 2000). However the numbers are no reason for complacency as the animal is severely threatened by both extensive habitat degradation and poaching. Coupled with this, trade in tiger parts across the globe has threatened the survival of this species further. In order that the long term in-situ survival of the species is ensured, conservation through a chain of protected areas has been undertaken. Zoos have been contributing their bit towards conservation of this species. Zoos are also involved in a planned breeding programme of this species for its ex-situ conservation.

The compilation of this pedigree book is a part of this conservation effort. This book collates information from various zoos as on March 1999 and is second in the series published by the Central Zoo Authority. The basic data collection was done by Mr. K.N. Banerji (National Studbook Keeper) with the assistance of Mr. V. Srinivas Rao (Jr. Assistant, Nehru Zoological Park), Mr. S. Devender (Computer Operator, Nehru Zoological Park), and Mr. V. Anand (Computer Operator, C.F. W.L.M., Hyderabad). The data provided was further analysed by Dr. Anupam Srivastav (Consultant) and Mr. Bipul Chakraborty (Scientist, Central Zoo Authority). It is hoped that this pedigree book will be made use of by the managers of various zoos participating in the planned breeding program of the species.

In the process of analysis of this data, certain discrepancies were noted in the Historical Listing. This had led to the exclusion of those animals while preparing the life table. It was also felt that certain zoos have not been upgrading their data with the Studbook keeper, this probably has resulted in his using the data from the earlier edition of the studbook. It is hoped that all these discrepancies would be sorted out in the next edition of the studbook, which will be brought out in association with Wildlife Institute of India, Dehradun.

INTRODUCTION

Bengal tigers are one of the two large cats of India. The tiger in its habitat is a truly royal animal, a master of all it surveys. A tiger occupies a unique position in the Indian folklore, both as a myth and as an object of awe for its silent, solitary predatory habit. They prefer to rest during the heat of the day under the shade of trees and at dusk go forth in search of prey. During winters they may spend some time in the sun, while in the peak of summers wallow in shallow pools of water. The usual prey base is antelopes, deers and wild pigs. However when prey availability is reduced any animal is hunted and eaten.

The animal lead a solitary existence throughout the year except when they come together to mate. The female brings up its cubs alone without any help from the male. In the wild a tiger reaches maturity at around four years of age while the female has her first oestrous when she is in her fourth year. Cubs are born after a gestation period of 95 to 103 days. There may be two to five cubs in a litter. The litter remains with the mother till around three years of age, during which she teaches them how to fend for themselves. The mother then chases them out from her territory and she is ready to mate again (Crandall, 1964).

The pedigree book provides information on all the specimen registered (both living and dead), their sexes, dates of birth, parentage, locations and where appropriate dates and places of death. The data provided in this pedigree book can assist the zoo managers in locating a new specimen for inclusion in its collection, prevent inbreeding and in facilitating the design of a breeding program for their zoo which will help in conserving genetic diversity of the species. If lineage of all the individuals to be used in the breeding program are known, mating can be planned to ensure that all the bloodliness are equally represented in the captive population, thus reducing loss of genetic diversity over the generations.

Besides the information mentioned above, the present pedigree book provides information on demography, founder representation and inbreeding depression in the captive Bengal tiger population. The demographic information is presented as life table analyses, while the founder representative sums up all the wild caught founders and a list of all their offspring. Inbreeding depression is summarized in the form of inbreeding coefficients, a measure of inbreeding depression.

ABBREVIATION USED IN HISTORICAL LIST

W	White Coat Colour
ISB	International Stud Book Number
M	Male
F	Female
*	Founder Animal
Unk	Not Known
?	Death date not known

INS Indian Stud Number

DEMOGRAPHIC ANALYSIS

For managing a planned breeding programme information on natality, mortality, survivorship, fecundity and age of first breeding is important. This information enables the zoo managers to plan the breeding of the animals in their care as also to understand the stage in the life cycle of the species at which the mortality rate is at its peak, which is responsible for the maximum deaths. A **life table** systematically represents the demographic information present in historical listing. A life table consists of a series of columns, each of which describes an aspect of mortality statistics for members of a population according to age. The columns include :

- * l_x is the number of individuals surviving after regular time intervals.
- * d_x is the number dying during successive time intervals.
- * q_x is the mortality rate during successive time intervals.
- * e_x is the life expectancy at the end of each time period.
- * m_x is the age specific fecundity.

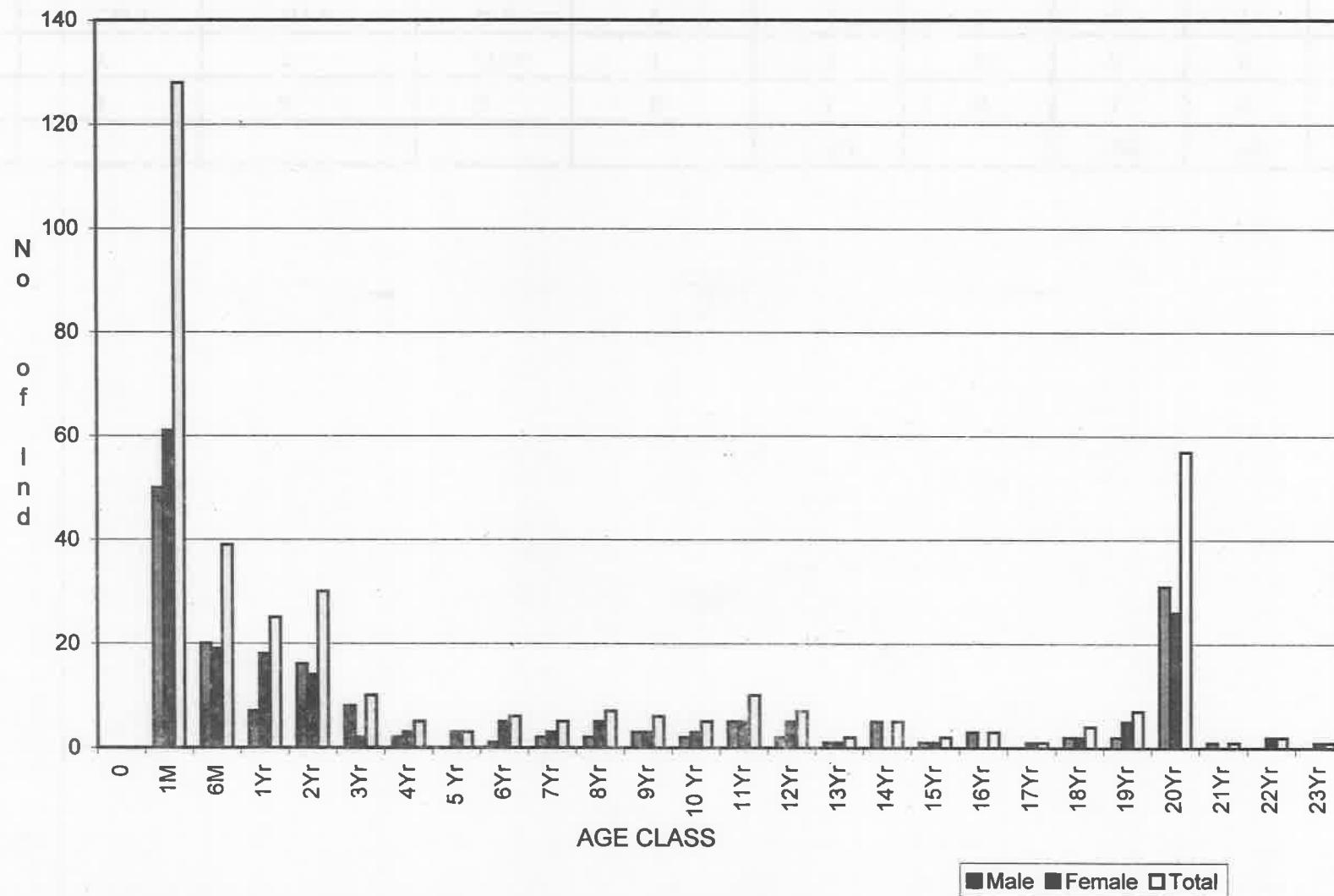
Data of 371 tigers for which complete information was available were used to prepare the life table of Bengal tiger. Analysis of the life table suggests that they are most vulnerable in their first year of life. As many as 45% of the animals died in the first year itself. The animals start breeding when they are three years of age and continue breeding till fifteen years of age. The most productive years are the eighth and ninth respectively, when maximum fecundity was observed. The maximum life span in captivity was 23 years for a female. Animals, which survive the first year of their life, have a good probability of reaching nineteen years of age when the second peak in mortality is observed.

LIFE TABLE FOR BENGAL TIGER IN INDIAN ZOOS

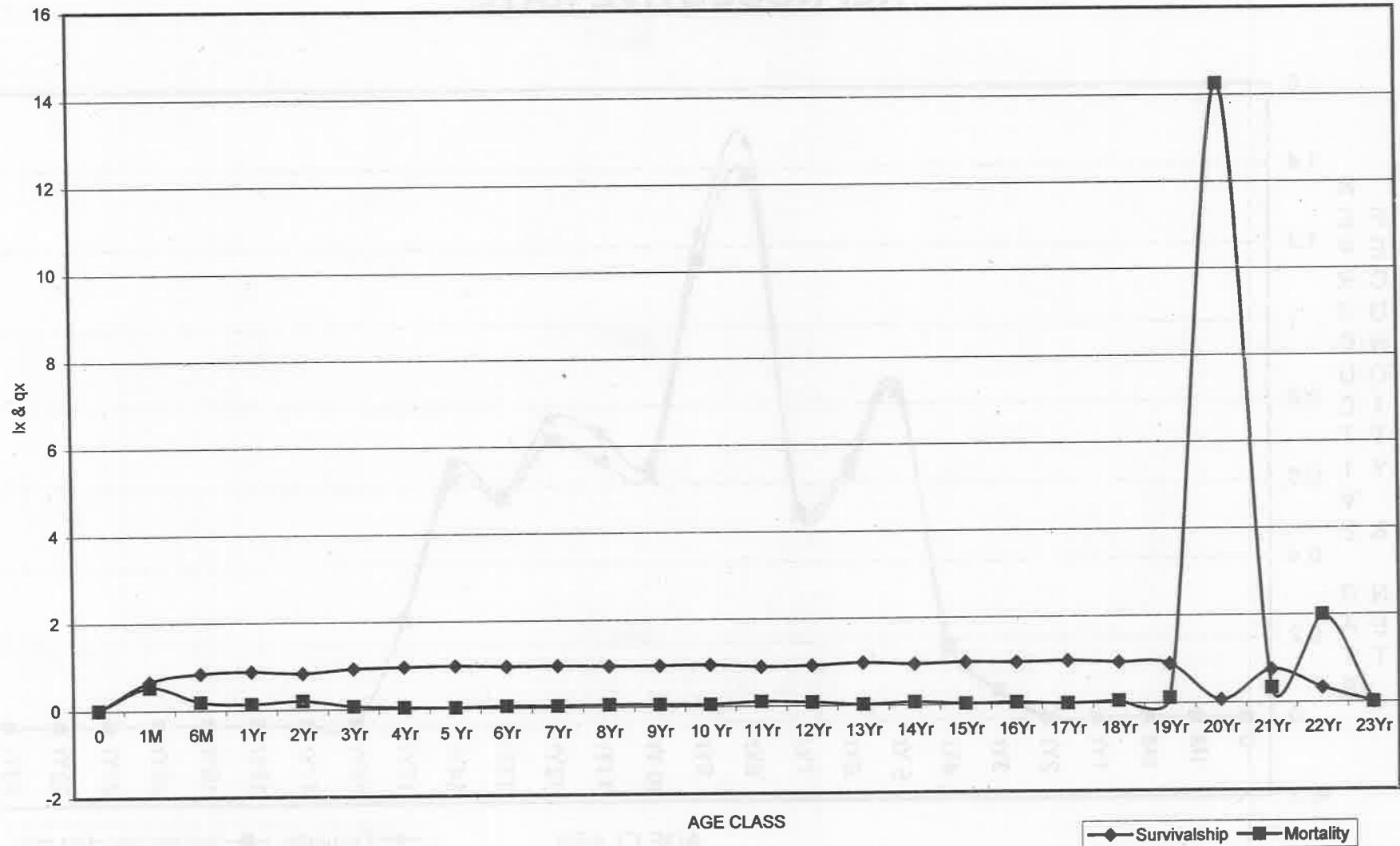
Age Class	Mortality				No entering Age Class	Lx	Mortality $qx = dx/lx$	Survival $= 1-qx$	Fecundity mx
	Male	Female	Unknown	Total dx					
0	0	0	0	0	371				0
1M	50	61	17	128	243	0.655	0.527	0.473	0
6M	20	19	0	39	204	0.840	0.191	0.809	0
1 Yr	7	18	0	25	179	0.877	0.140	0.860	0
2 Yr	16	14	0	30	149	0.832	0.201	0.799	0
3 Yr	8	2	0	10	139	0.933	0.072	0.928	0.077
4 Yr	2	3	0	5	134	0.964	0.037	0.963	0.192
5 Yr	0	3	0	3	131	0.978	0.023	0.977	0.846
6 Yr	1	5	0	6	125	0.954	0.048	0.952	0.654
7 Yr	2	3	0	5	120	0.96	0.042	0.958	0.538
8 Yr	2	5	0	7	113	0.942	0.062	0.938	1.461
9 Yr	3	3	0	6	107	0.947	0.056	0.944	1.231
10 Yr	2	3	0	5	102	0.953	0.049	0.951	0.654
11 Yr	5	5	0	10	92	0.902	0.109	0.891	0.731
12 Yr	2	5	0	7	85	0.924	0.082	0.918	0.769
13 Yr	1	1	0	2	83	0.976	0.024	0.976	0.577
14 Yr	5	0	0	5	78	0.940	0.064	0.936	0.654
15 Yr	1	1	0	2	76	0.974	0.026	0.974	0.269
16 Yr	3	0	0	3	73	0.961	0.041	0.959	0
17 Yr	0	1	0	1	72	0.986	0.014	0.986	0
18 Yr	2	2	0	4	68	0.944	0.059	0.0941	0

Age Class	Mortality				No entering Age Class	Lx	Mortality $qx = dx/Lx$	Survival $= 1-qx$	Fecundity mx
	Male	Female	Unknown	Total dx					
19 Yr	2	5	0	7	61	0.897	0.115	0.885	0
20 Yr	31	26	0	57	4	0.066	14.25	-13.25	0
21 Yr	1	0	0	1	3	0.75	0.333	0.667	0
22 Yr	0	2	0	2	1	0.333	2	-1	0
23 Yr	0	1	0	1	0	0	0	1	0
Total	166	188		371					

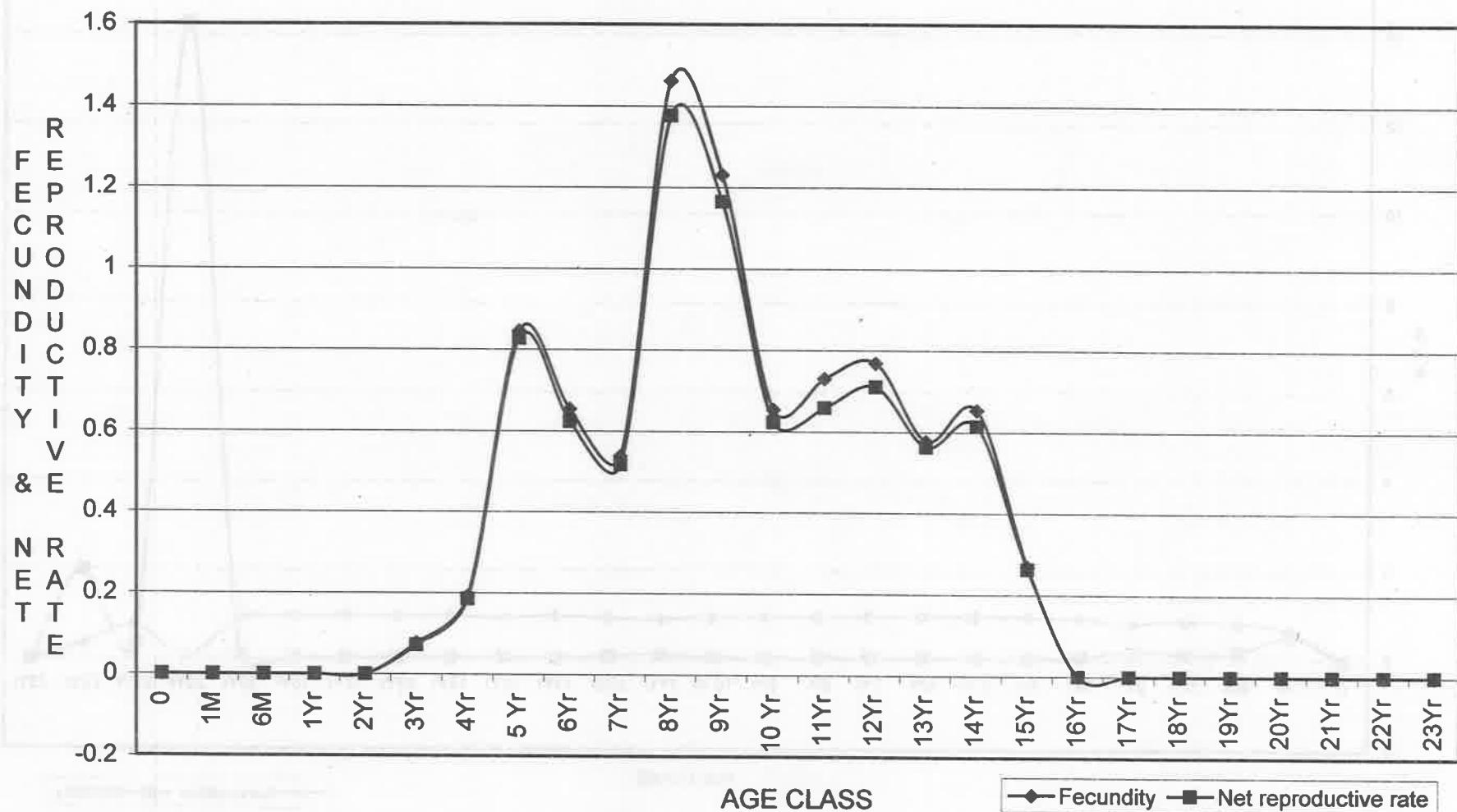
MORTALITY OF BENGAL TIGER IN INDIAN ZOOS



COMPARISON OF SURVIVORSHIP AND MORTALITY OF BENGAL TIGER IN INDIAN ZOOS



RELATIONSHIP BETWEEN FECUNDITY AND NET REPRODUCTIVE RATE



FOUNDER ANALYSIS OF BENGAL TIGER IN INDIAN ZOOS

Sire/Dam	Sex	Progeny	Total
Founder Animals 1 and 2			
1 : 2	Males	4, 7	2
	Females	3, 5, 6	3
1 : 3	Males	11, 25, 26, 36	4
	Females	12, 13, 27, 28	4
1 : 12	Males	38, 52	2
	Females	73, 74	2
7 : 2	Males	8, 18, 19, 21, 22	5
	Females	9, 10, 20, 23, 24, 28	6
11 : 3	Males	92, 93	2
	Females	94, 95	2
11 : 13	Males	33, 34, 45, 49, 50, 63, 64, 69, 70, 71, 81, 82, 83, 106	14
	Females	46, 51, 65, 66, 67, 72, 97, 98, 107, 108	10
	Unknown	109	1
26 : 27	Males	43, 61, 62, 75, 78	5
	Females	44, 76, 80, 99, 100	5
25 : 44	Males	126	1
	Females	127, 128, 129	3
15 : 16	Males	184	0
	Females		1
84 : 74	Males	198, 199	2
	Females	200	1

Sire/Dam	Sex	Progeny	Total
33 : 74	Males	135	1
	Females	124, 125, 136	3
52 : 74	Males	105	1
	Females	104	0
49 : 13	Males		1
	Females	120	1
Founder Animal : 39			
39 : 6	Males	40, 41, 55	3
	Females	42, 56, 57, 58, 111, 112	6
Founder Animal : 47:48			
48 : 47	Males	68, 103	2
	Females	101, 102, 110, 111, 112, 113	6
68 : 77	Males	116, 131, 143, 167, 168	5
	Females	114, 115, 130, 144	4
68 : 144	Males	206, 216, 252, 301	4
	Females	207, 214, 215, 238, 239, 253, 275, 276, 277, 302	10
131 : 123	Males	206, 216, 252, 301	4
	Females	164, 165, 166, 285, 286, 287, 201, 202, 234, 235, 250	11
131 : 144	Males	294	1
	Females	293, 295	2
168 : 164	Males	246, 246, 247, 378, 379, 380, 495, 497	8
	Females	308, 309, 310, 496, 240, 241, 242	7
168 : 215	Males	421, 486, 487, 488	4
	Females	257, 258, 422, 454, 455, 456	6
168 : 314	Males	483, 484, 485	3
	Females		0

Sire/Dam	Sex	Progeny	Total
168 : 309	Males	522, 523, 524, 639	4
	Females		0
68 : 173	Males		0
	Females	248	1
246 : 123	Males	344, 345	2
	Females		0
90 : 130	Males	185, 210, 211, 212	4
	Females	186, 187, 213, 236, 237	5
216 : 173	Males	279, 282, 313, 365, 477	5
	Females	278, 280, 281, 314, 366, 476, 478	7
252 : 248	Males	402, 403, 451, 452, 463, 499, 557, 559	8
	Females	404, 453, 464, 465, 498, 556, 558	7
247 : 215	Males	333, 334, 389, 445, 446	5
	Females	332, 346, 347, 348, 388	5
247 : 253	Males	330, 331, 353, 355, 356, 457	6
	Females	328, 329, 354, 428, 429, 458, 459	7
246 : 253	Males		0
	Females	470, 471, 472	3
403 : 253	Males	535, 536, 537	3
	Females	538	1
279 : 277	Males	357, 386, 387	3
	Females	358, 359, 385	3
279 : 275	Males	385, 386, 560, 561, 562, 563, 579	7
	Females	386, 387, 405, 406, 430, 431, 432, 525, 526, 580, 581	11
353 : 277	Males	553	1
	Females	554, 555	2

Sire/Dam	Sex	Progeny	Total
445 : 286	Males		0
	Females	447, 448	2
345 : 285	Males	564	1
	Females	565, 566	2
247 : 250	Males	437, 375, 376	3
	Females	436, 377	2
149 : 293	Males		0
	Females	578	1
246 : 123	Males	345	1
	Females		0
247 : 248	Males	390, 392	2
	Females	391	1
246 : 248	Males		0
	Females	575, 576, 577, 632	4
247 : 254	Males	633	1
	Females		0
353 : 310	Males	489	1
	Females	491	1
	Unknown	490	1
185 : 186	Males	244	1
	Females	243	1
185 : 237	Males	381, 414, 415	3
	Females	382, 383, 384, 416	4
185 : 383	Males	449	1
	Females	450	1
185 : 384	Males	550, 605, 606	3
	Females	551, 552, 607, 608	4

Sire/Dam	Sex	Progeny	
212 : 209	Males	338, 494	2
	Females	273, 274, 339, 340, 492, 493	6
	Unknown	571, 572, 573, 574	4
211 : 243	Males	305, 306, 335, 336	4
	Females	307, 337	2
210 : 186	Males	315, 397	2
	Females	316, 317, 398	3
212 : 213	Males	419	1
	Females	417, 418, 420	3
90 : 187	Males	443, 444	2
	Females		0
445 : 187	Males	539, 540	2
	Females		0
226 : 236	Males	520	1
	Females	521	1
520 : 236	Males		0
	Females	656, 667	2
313 : 437	Males	518	1
	Females	519	1
365 : 345	Males	609, 610	2
	Females	611, 612	2
334 : 314	Males	616	1
	Females		0
402 : 347	Males	620, 621, 622	3
	Females	619	1

Sire/Dam	Sex	Progeny	Total
357 : 404	Males	600, 601, 602	3
	Females		0
415 : 556	Males	678, 717	2
	Females	677, 718, 719, 720	4
334 : 337	Males		0
	Females	513, 514, 515	3
446 : 254	Males	623, 624	2
	Females	625, 626, 627	3
353 : 277	Males	553	1
	Females	554, 555	2
535 : 470	Males	644, 645	2
	Females	646, 647	2
185 : 384	Males	605, 606	2
	Females	607, 608	2
520 : 521	Males	669	1
	Females	668	1
520 : 656	Males	684	1
	Females	685, 686, 688	3
Founder Animal : 117			
117 : 74	Males	151, 161, 179, 189, 195, 196, 221, 222, 230, 231	10
	Females	152, 153, 154, 162, 163, 180, 181, 190, 197, 223, 228, 229	12
222 : 303	Males	438, 439	2
	Females	440, 441	2
222 : 264	Males	479, 480, 481	3
	Females	482	1

Sire/Dam	Sex	Progeny	Total
230 : 369	Males	516, 517, 567	3
	Females	568	1
Founder Animal : 141			
224 : 141	Male	262, 263, 270, 271, 288, 281, 292	7
	Female	255, 256, 264, 269, 289, 290	6
263 : 289	Male	395	1
	Female	394, 636	2
222 : 264	Male	479, 480, 481	3
	Female	490	1
222 : 289	Male	500, 501, 502	3
	Female		0
395 : 304	Male		0
	Female	613, 614, 615	3
Founder Animal : 209			
212 : 209	Male	338	1
	Female	339, 340	2
272 : 209	Male		0
	Female		0
	Unknown	628, 629, 630	3
Founder Animal : 220			
220 : 148	Males	319, 320, 321, 364	4
	Females		0
Founder Animal : 224			
224 : 223	Male	322, 323	2
	Female	303, 304, 324, 325, 326	5

Sire/Dam	Sex	Progeny	Total
222 : 303	Male	439	1
	Female	440, 441	2
394 : 304	Male		0
	Female	603, 614, 615	3
Founder Animal : 226			
226 : 306	Male	520, 674, 675	3
	Female	521, 676	2
520 : 236	Male		0
	Female	656, 667	2
520 : 656	Male	684	1
	Female	685, 686	2
Founder Animal : 300			
300 : 435	Male		0
	Female		0
	Unknown	473, 474, 475	3
Founder Animal : 360			
360 : 412	Male	460, 543, 544	3
	Female	461, 462, 542	3
543 : 412	Male	706	1
	Female	707, 708	2
Founder Animal : 318			
318 : 229	Male	349	1
	Female	350, 407, 408	3
342 : 350	Male	699	1
	Female	682, 683	2

Sire/Dam	Sex	Progeny	Total
Founder Animal : 412			
543 : 412	Male	706	1
	Female	707, 708	2
360 : 412	Male	460	1
	Female	461, 462	2
Founder Animal : 435			
300 : 435	Male	507	1
	Female		0
	Unknown	473, 474, 475, 508, 509	5
Founder Animal : 648			
648 : 649	Male		0
	Female	671, 672	2
648 : 653	Male	679	1
	Female	680, 681	2
648 : 652	Male	696	1
	Female	697, 698	2
648 : 654	Male	700	1
	Female	701	1
648 : 650	Male	703, 711, 713	3
	Female	704, 705, 712	3

COEFFICIENT OF INBREEDING

Inbreeding defined simply is breeding between relatives. With inbreeding mates on the average are more closely related than they would be if they had been chosen at random from the population. The reasons for inbreeding are small isolated populations, close proximity of potential mates, ecological preferences and morphological resemblance among individuals. With inbreeding the frequency of alleles does not change but homozygosity increases at the expense of heterozygosity. Inbreeding depression is quantified as Coefficient of inbreeding or Relative Inbreeding Coefficient.

Coefficient of inbreeding

The coefficient of inbreeding indicates the percentage of loci that were heterozygous in the base populations that now have probably become homozygous due to the effects of inbreeding. The base population is that point in history of the population from which we desire to begin a calculation of the effects of inbreeding. Many loci are probably homozygous at the time of establishment of the base population. The inbreeding coefficient then measures the additional increase in homozygosity due to mating of closely related animals.

The coefficient of inbreeding (F) can be determined for an animal in a pedigree by several similar methods.

1. If the common ancestor is not inbred :

$$F_x = \Sigma(.5)^{P_1} + P_2 + 1$$

Where P_1 is the number of generations from one parent back to the common ancestor and P_2 is the number of generations from the other parent back to the same ancestor.

2. If the common ancestors are inbred (F_A), the inbreeding coefficient of the individual must be corrected for this factor.

$$F_x = \Sigma[(.5)^{P_1} + P_2 + 1 (1 + F_A)]$$

The following table will be helpful in calculating F .

n	$(.5)^{p_1 + p_2 + 1}$	n	$(.5)^{p_1 + p_2 + 1}$
1	5	6	.156
2	25	7	.0078
3	125	8	.0039
4	625	9	.0019
5	3125	10	.0009

In the following pages, an attempt has been made to calculate the inbreeding coefficient of Bengal tigers listed in the studbook.

RELATIVE INBREEDING COEFFICIENTS OF BENGAL TIGER IN INDIAN ZOOS

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
1	0	27	0.125
2	0	28	0.125
3	0	29	0.125
4	0	30	0
5	0	31	0
6	0	32	0
7	0	33	0.175
8	0.125	34	0.175
9	0.125	35	0.125
10	0.125	36	0.125
11	0.125	37	0.125
12	0.125	38	0.1875
13	0.125	39	0
14	0	40	0
15	Parents could not have bred as they were under one year of age at the time of birth	41	0
16		42	0
17	0	43	0.175
18	0.125	44	0.175
19	0.125	45	0.175
20	0.125	46	0.175
21	0.125	47	0
22	0.125	48	0
23	0.125	49	0.175
24	0.125	50	0.175
25	0.125	51	0.175
26	0.125	52	0.1875

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
53	0	80	0.175
54	0	81	0.175
55	0	82	0.175
56	0	83	0.175
57	0	84	0
58	0	85	0
59	0	86	0
60	0	87	0
61	0.175	88	0
62	0.175	89	0
63	0.1407	90	0
64	0.1407	91	0
65	0.1407	92	0.1407
66	0.1407	93	0.1407
67	0.1407	94	0.1407
68	0	95	0.1407
69	0.175	96	0
70	0.175	97	0.175
71	0.175	98	0.175
72	0.175	99	0.175
73	0.1875	100	0.175
74	0.1875	101	0
75	0.175	102	0
76	0.175	103	0
77	0	104	0.383
78	0.175	105	0.383
79	Missing Number	106	0.175

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
107	0.175	134	0
108	0.175	135	0.205
109	0.175	136	0.205
110	0.175	137	0.0312
111	0	138	0.0312
112	0	139	0
113	0	140	0
114	0	141	0
115	0	142	0
116	0	143	0
117	0	144	0
118	0	145	0
119	0	146	0.043
120	0.205	147	0.205
121	0	148	0.205
122	0	149	0
123	0	150	0
124	0.205	151	0.0469
125	0.205	152	0.0469
126	0.205	153	0.0469
127	0.205	154	0.0469
128	0.205	155	0.205
129	0.205	156	0.205
130	0.043	157	0.0351
131	0	158	0.0351
132	0	159	Par. Unk.
133	0	160	0

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient'
161	0.0469	189	0.0469
162	0.0469	190	0.0469
163	0.0469	191	0.041
164	0.0625	192	0.041
165	0.0625	193	0.041
166	0.0625	194	0
167	0	195	0.0469
168	0	196	0.0469
169	0.0469	197	0.0469
170	0.0469	198	0.0469
171	Parents Missing	199	0.0469
172	0.043	200	0.0469
173	0.043	201	0.0625
174	0.043	202	0.0625
175	0	203	0.0625
176	0.043	204	0
177	0.043	205	0
178	0.043	206	0.0625
179	0.0469	207	0.0625
180	0.0469	208	0
181	0.0469	209	0
182	0	210	0.01
183	0	211	0.01
184	Par. Unk.	212	0.01
185	0	213	0.01
186	0	214	0.0625
187	0	215	0.0625
188	0.0469	216	0.0625

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
217	0	245	0.078
218	0	246	0.078
219	0	247	0.078
220	0	248	0.01
221	0.0469	249	0.0625
222	0.0469	250	0.0625
223	0.0469	251	0
224	0	252	0.0625
225	0	253	0.0625
226	0	254	0.01
227	0	255	0
228	0.0469	256	0
229	0.0469	257	0.0732
230	0.0469	258	0.0732
231	0.0469	259	0.01
232	0.0625	260	0.01
233	0.0625	261	0
234	0.0625	262	0
235	0.0625	263	0
236	0.01	264	0
237	0.01	265	0.0078
238	0.0625	266	0.0078
239	0.0625	267	0.0078
240	0.078	268	0
241	0.078	269	0
242	0.078	270	0
243	0	271	0
244	0	272	0

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
273	0	301	0.0625
274	0	302	0.0625
275	0.0625	303	0
276	0.0625	304	0
277	0.0625	305	0.0126
278	0	306	0.0126
279	0	307	0.0126
280	0	308	0.078
281	0	309	0.078
282	0	310	0.078
283	0	311	0
284	0	312	0
285	0.0625	313	0
286	0.0625	314	0
287	0.0625	315	0.0937
288	0	316	0.0937
289	0	317	0.0937
290	0	318	0
291	0	319	0.051
292	0	320	0.051
293	0.0937	321	0.051
294	0.0937	322	0
295	0.0937	323	0
296	0.0126	324	0
297	0.0126	325	0
298	0.0126	326	0
299	0	327	0
300	0	328	0.159

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
329	0.159	356	0.159
330	0.159	357	0.0456
331	0.159	358	0.0456
332	0.159	359	0.0456
333	0.159	360	0
334	0.159	361	0
335	0.0126	362	0
336	0.0126	363	0
337	0.0126	364	0.051
338	0	365	0
339	0	366	0
340	0	367	Par. Unk.
341	0	368	0.165
342	0	369	0.383
343	0	370	0.383
344	0.084	371	0.383
345	0.084	372	0.165
346	0.159	373	0.165
347	0.159	374	Par. Unk.
348	0.159	375	0.175
349	0	376	0.175
350	0	377	0.175
351	0.1	378	0.078
352	0.1	379	0.078
353	0.159	380	0.078
354	0.159	381	0.0427
355	0.159	382	0.0427

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
383	0.0427	411	0
384	0.0427	412	0
385	0.0456	413	0
386	0.0456	414	0.0421
387	0.0456	415	0.0421
388	0.159	416	0.0421
389	0.159	417	0.0421
390	0.042	418	0.0421
391	0.042	419	0.0421
392	0.042	420	0.0421
393	0	421	0.083
394	0.0937	422	0.083
395	0.0937	423	0.083
396	0	424	0
397	0.0937	425	Par. Unk.
398	0.0937	426	0.159
399	0	427	0.159
400	0	428	0.159
401	0	429	0.159
402	0.195	430	0.0456
403	0.195	431	0.0456
404	0.195	432	0.0456
405	0.0456	433	0
406	0.0456	434	0.1075
407	0	435	0
408	0	436	0.175
409	0	437	0.175
410	0	438	0.00552

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
439	0.0552	467	Par. Unk.
440	0.0552	468	0.0388
441	0.0552	469	0.0388
442	0.112	470	0.159
443	0.0625	471	0.159
444	0.0625	472	0.159
445	0.159	473	0
446	0.159	474	0
447	0.175	475	0
448	0.175	476	0
449	0.0548	477	0
450	0.0548	478	0
451	0.195	479	0
452	0.195	480	0
453	0.195	481	0
454	0.083	482	0
455	0.083	483	0.039
456	0.083	484	0.039
457	0.159	485	0.039
458	0.159	486	0.083
459	0.159	487	0.083
460	0	488	0.083
461	0	489	0.1628
462	0	490	0.1628
463	0.195	491	0.1628
464	0.195	492	0
465	0.195	493	0
466	Par. Unk.	494	0

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
495	0.078	522	0.0871
496	0.078	523	0.0871
497	0.078	524	0.0871
498	0.195	525	0.0456
499	0.195	526	0.0456
500	0	527	0
501	0	528	0.042
502	0	529	0.042
503	Sire Not Known	530	0.0995
504	Sire Not Known	531	0.0995
505	Sire Not Known	532	0.0625
506	0	533	0.0625
507	0	534	0.0625
508	0	535	0.1497
509	0	536	0.1497
510	0	537	0.1497
511	0.1753	538	0.1497
512	0	539	0.0474
513	0.145	540	0.0474
514	0.145	541	0
515	0.145	542	0
516	0.0589	543	0
517	0.0589	544	0
518	0.0589	545	0.0388
519	0.0589	546	0.0388
520	0	547	0
521	0	548	0.047

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
549	0.047	577	0.042
550	0.0569	578	0
551	0.0569	579	0.0456
552	0.0569	580	0.0456
553	0.1602	581	0.0456
554	0.1602	582	Par. Unk.
555	0.1602	583	Par. Unk.
556	0.196	584	0
557	0.196	585	0
558	0.196	586	0.1282
559	0.196	587	0.1282
560	0.0456	588	0.1282
561	0.0456	589	0.1507
562	0.0456	590	0.1507
563	0.0456	591	0
564	0.1882	592	0
565	0.1882	593	0
566	Par. Unk.	594	0.0589
567	Par. Unk.	595	0.0589
568	0.0995	596	0.0589
569	0.0995	597	Par. Unk.
570	0	598	Par. Unk.
571	0	599	Par. Unk.
572	0	600	0.1282
573	0	601	0.1282
574	0.042	602	0.1282
575	0.042	603	0
576	0.042	604	0

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
605	0.0569	632	0.042
606	0.0569	633	0
607	0.0569	634	0.0741
608	0.0569	635	0
609	0.0388	636	0.125
610	0.0388	637	0.0817
611	0.0388	638	0
612	0.0388	639	0
613	0.0684	640	0
614	0.0684	641	0
615	0.0684	642	0
616	0.0505	643	0
617	0.0995	644	0.145
618	0.0995	645	0.145
619	0.1507	646	0.145
620	0.1507	647	0.145
621	0.1507	648	0
622	0.1507	649	Par. Unk.
623	0	650	Par. Unk.
624	0	651	Par. Unk.
625	0	652	Par. Unk.
626	0	653	Par. Unk.
627	0	654	Par. Unk.
628	0.125	655	Par. Unk.
629	0.125	656	0.0273
630	0.125	657	Par. Unk.
631	0	658	0.1018

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
659	0.1018	683	0
660	0	684	0.0529
661	0	685	0.0529
662	0	686	0.0529
663	Par. Unk.	687	Par. Unk.
664	Par. Unk.	688	0.0761
665	Par. Unk.	689	Par. Unk.
666	Par. Unk.	690	Par. Unk.
667	0.0273	691	0.1018
668	0.0273	692	0.1018
669	0.0273	693	Par. Unk.
670	Par. Unk.	694	0.1018
671	Par. Unk.	695	0.1018
672	Par. Unk.	696	Par. Unk.
673	0.0697	697	Par. Unk.
674	Par. Unk.	698	Par. Unk.
675	Par. Unk.	699	0.01
676	Par. Unk.	700	Par. Unk.
677	0.0384	701	Par. Unk.
678	0.0384	702	Par. Unk.
679	Par. Unk.	703	Par. Unk.
680	Par. Unk.	704	Par. Unk.
681	Par. Unk.	705	Par. Unk.
682	0	706	0

Stud No.	Inbreeding Coefficient	Stud No.	Inbreeding Coefficient
707	0	716	Par. Unk.
708	0	717	0.0384
709	Par. Unk.	718	0.0384
710	Par. Unk.	719	0.0384
711	Par. Unk.	720	0.0384
712	Par. Unk.	721	0
713	Par. Unk.	722	0
714	Par. Unk.	723	0
715	Par. Unk.	724	0

HISTORICAL LISTING OF BENGAL TIGERS IN INDIAN ZOOS

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
W1	Mohan*	M	1950	Wild	Wild	Rewa	1950	1	19.12.1969
2	Begum*	F	1951	Wild	Wild	Rewa	1951	2	03.09.1969
						Ahmedabad	13.06.1957		
3	Radha	F	10.04.1955	1	2	Rewa	10.4.1955	7	02.05.1974
						Delhi	26.06.1964		
4	Unk	M	10.04.1955	1	2	Rewa	10.04.1955	6	
						Ahmedabad	13.03.1957		
5	Narbada	F	10.07.1956	1	2	Rewa	10.07.1956	10	14.09.1957
						Delhi	14.04.1957		
6	Vindya	F	10.07.1956	1	2	Rewa	10.07.1956	12	30.08.1974
						Delhi	14.04.1957		
7	Sultan	M	10.07.1956	1	2	Rewa	10.07.1956	9	04.08.1969
						Ahmedabad	13.06.1957		
8	Unk	M	08.05.1958	7	2	Ahmedabad	08.05.1958	13	
9	Unk	F	08.05.1958	7	2	Ahmedabad	08.05.1958	14	
10	Unk	F	08.05.1958	7	2	Ahmedabad	08.05.1958	15	
W11	Raja	M	30.10.1958	1	3	Rewa	30.10.1958	17	19.08.1977
						Delhi	26.06.1994		
W12	Sukeshi	F	30.10.1958	1	3	Rewa	30.10.1958	17	02.12.1975
						Delhi	26.06.1964		
13	Rani	F	30.10.1958	1	3	Rewa	30.10.1958	18	26.10.1977
						Delhi	26.06.1964		
14	Chandu	M		Wild	Wild	Gauhati	05.02.1959	521	29.12.1961
				11	3	Rewa	07.06.1959		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
15	Shiva	M	07.06.1959			Delhi	26.06.1964	563	11.09.1978
						Junagadh	21.05.1969		
				11	3	Rewa	07.06.1959		
16	Maya	M	07.06.1959			Delhi	26.06.1964	562	06.03.1987
						Junagadh	21.05.1969		
17	Bhola	M	1941	Wild	Wild	Gauhati	03.08.1959	522	16.10.1971
18	Unk	M	28.09.1959	7	2	Ahmedabad	28.09.1959	20	
W19	Unk	F	28.09.1959	7	2	Ahmedabad	28.09.1959	23	
20	Unk	F	28.09.1959	7	2	Ahmedabad	28.09.1959	22	
21	Unk	M	28.09.1959	7	2	Ahmedabad	28.09.1959	21	
22	Unk	M	12.03.1960	7	2	Ahmedabad	12.03.1960	24	
23	Unk	F	12.03.1960	7	2	Ahmedabad	12.03.1960	25	
24	Unk	F	12.03.1960	7	2	Ahmedabad	12.03.1960	26	
25	Himadari*	M	18.06.1960	1	3	Rewa	18.06.1960	27	03.11.1977
						Calcutta	09.08.1963		
26	Neeladri*	M	18.06.1960	1	3	Rewa	18.06.1960	28	03.06.1978
						Calcutta	09.08.1963		
27	Malini*	F	18.06.1960	1	3	Rewa	18.06.1960	29	15.08.1971
						Calcutta	25.08.1963		
28	Unk	F	05.03.1961	7	2	Ahmedabad	05.03.1961	30	20.08.1969
29	Unk	M	05.03.1961	7	2	Ahmedabad	05.03.1961	31	20.08.1969
30	Ranjit	M		Wild	Wild	Gauhati	14.02.1963	524	10.01.1977
31	Ramsingh 1	M		Wild	Wild	Hyderabad	02.10.1963	526	28.07.1966
32	Rani 1	F		Wild	Wild	Hyderabad	02.10.1963	525	21.07.1977
W33	Krishna	M	03.05.1964	11	13	Delhi	03.05.1964	42	31.07.1979
W34	Rukko	M	03.05.1964	11	13	Delhi	03.05.1964	43	06.11.1964

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
35	Ramesh	M	28.08.1964	1	3	Delhi	20.08.1964	44	16.02.1972
						Paris	16.08.1966		
W36	Ramu	M	20.08.1964	1	3	Delhi	20.08.1964	45	25.05.1966
37	Ratna	F	20.08.1964	1	3	Delhi	20.08.1964	46	15.07.1983
38	Govind	M	22.11.1964	1	12	Rewa	22.11.1964	7	29.06.1975
						Delhi	20.04.1964		
						Hyderabad	23.09.1971		
39	Suraj	M		Wild	Wild	Delhi	23.04.1965	49	19.04.1975
40	Ram	M	23.04.1967	39	6	Delhi	23.04.1967	50	
						Trichur	21.09.1970		
						Trivandrum	24.08.1973		
W41	Laxman	M	23.04.1967	39	6	Delhi	23.04.1967	51	26.06.1966
42	Unk	F	23.04.1967	39	6	Delhi	23.04.1967	52	11.07.1966
W43	Ravi	M	27.04.1965	26	27	Calcutta	27.04.1965	53	06.11.1965
W44	Chandni	F	27.04.1965	26	27	Calcutta	27.04.1965	54	09.09.1984
W45	Unk	M	11.07.1965	11	13	Delhi	11.07.1965	55	11.08.1965
W46	Unk	F	11.07.1965	11	13	Delhi	11.07.1965	56	12.08.1965
47	Sikha*	F		Wild	Wild	Calcutta	08.09.1965	247	18.11.1974
						Nandankannan	16.11.1965		
48	Pradeep*	M		Wild	Wild	Calcutta	08.09.1965	246	23.11.1973
						Nandankannan	16.11.1965		
W49	Dalip	M	19.12.1965	11	13	Delhi	19.12.1965	57	08.07.1979
W50	Ravi	M	19.12.1965	11	13	Delhi	19.12.1965	58	17.04.1967
W51	Rajkumari	F	19.12.1965	11	13	Delhi	19.12.1965		17.04.1967
52	Gautam	M	27.03.1966	1	12	Rewa	27.03.1966	62	16.08.1971
						Delhi	08.12.1966		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
53	Unk	U		Wild	Wild	Ahmedabad	03.09.1966	527	25.11.1966
54	Unk	U		Wild	Wild	Ahmedabad	03.09.1966	528	02.12.1966
55	Unk	M	22.02.1967	39	6	Delhi	22.02.1967	64	01.12.1980
56	Unk	F	22.02.1967	39	6	Delhi	22.02.1967	65	10.12.1967
						Roman Shron	01.12.1980		
57	Unk	F	22.02.1967	39	6	Delhi	22.02.1967	66	
						Roman Shron	01.12.1980		
58	Vimla	F	22.02.1967	39	6	Delhi	22.02.1967	68	28.06.1988
						Jaipur	01.12.1980		
59	Ramsingh II*	M		Wild	Wild	Hyderabad	29.03.1967	530	22.10.1980
60	Moti	F		Wild	Wild	Hyderabad	29.03.1967	529	22.11.1969
61	Unk	M	29.04.1967	26	27	Calcutta	29.04.1967	69	09.06.1967
62	Kanchan	M	09.06.1967	26	27	Calcutta	09.06.1967	74	01.06.1971
63	Unk	M	10.07.1967	11	3	Delhi	10.07.1967	75	17.07.1967
W64	Unk	M	10.07.1967	11	3	Delhi	10.07.1967	76	20.01.1968
65	Unk	F	10.07.1967	11	3	Delhi	10.07.1967	77	15.07.1967
66	Unk	F	10.07.1967	11	3	Delhi	10.07.1967	78	11.07.1967
67	Unk	F	10.07.1967	11	3	Delhi	10.07.1967	79	17.01.1968
68	Deepak*	M	31.07.1967	48	47	Nandankannan	31.07.1967	252	10.02.1986
W69	Unk	M	31.08.1967	11	13	Delhi	31.08.1967	80	31.08.1967
70	Unk	M	31.08.1967	11	13	Delhi	31.08.1967	81	25.01.1968
W71	Bahadur	M	31.08.1967	11	13	Delhi	31.08.1967	82	09.06.1974
W72	Roma	F	31.08.1967	11	13	Delhi	31.08.1967	83	29.06.1975
W73	Chameli II	F	06.09.1967	1	12	Rewa	06.09.1967	84	05.03.1984
						Delhi			
						Bristol	01.10.1972		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
W74	Homa*	F	06.09.1967	1	12	Rewa	06.09.1967	85	20.01.1986
						Delhi	06.04.1968		
75	Unk	M	08.09.1967	26	27	Calcutta	08.09.1967	86	30.06.1970
76	Sakhi	F	08.09.1967	26	27	Calcutta	08.09.1967	87	11.01.1968
77	Rani*	F		Wild	Wild	Nandankannan	28.10.1967	253	23.09.1983
W78	Arun	M	18.04.1968	26	27	Calcutta	18.04.1968	107	27.04.1990
W80	Krinamal	F	18.04.1968	26	27	Calcutta	18.04.1968	110	18.04.1968
W81	Jhagru	M	03.05.1968	11	13	Delhi	03.05.1968	88	23.03.1969
W82	Rakesh	M	03.05.1968	11	13	Delhi	03.05.1968	89	15.07.1978
W83	Hari	M	03.05.1968	11	13	Delhi	03.05.1968	90	02.08.1970
84	Jim*	M		Wild	Wild	Delhi	03.11.1968	133	18.06.1979
85	Sherkhan	M	12.11.1968	39	6	Delhi	12.11.1968	95	11.05.1970
86	Tippu	M	12.11.1968	39	6	Delhi	12.11.1968	96	03.04.1970
						Lucknow	11.04.1969		
87	Zail	M	12.11.1968	39	6	Delhi	12.11.1968	97	18.04.1982
						Ahmedabad	13.06.1969		
88	Unk	M	12.11.1968	39	6	Delhi	12.11.1968	98	12.11.1968
89	Phatik	M		Wild	Wild	Gauhati	13.04.1969	532	03.02.1978
90	Tipu*	M	27.04.1969	59	32	Hyderabad	27.04.1969	564	24.07.1989
91	Rani II	F	27.04.1969	59	32	Hyderabad	27.04.1969	565	07.04.1991
W92	Unk	M	07.06.1969	11	3	Delhi	07.06.1969	103	10.06.1969
W93	Roop	M	07.06.1969	11	3	Delhi	07.06.1969	104	05.03.1984
						Bristol	01.10.1972		
94	Unk	F	07.06.1969	11	3	Delhi	07.06.1969	105	10.06.1969
95	Swarna	F	07.06.1969	11	3	Delhi	07.06.1969	106	
96	Syamli	F		Wild	Wild	Gauhati	10.02.1970		10.01.1974

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
W97	Ashima	F	11.04.1970	11	13	Delhi	11.04.1970	116	
W98	Unk	F	11.04.1970	11	13	Delhi	11.04.1970	117	28.01.1971
99	Rupa	F	25.09.1970	26	27	Calcutta	25.09.1970	123	25.10.1975
100	Sona	F	25.09.1970	26	27	Calcutta	25.09.1970	124	26.01.1980
101	Unk	F	10.04.1971	48	47	Nandakkannan	10.04.1971	254	15.05.1971
102	Unk	F	10.04.1971	48	47	Nandakkannan Amar Circus	10.04.1971	255	
103	Unk	M	10.04.1971	48	47	Nandakkannan Amar Circus	10.04.1971	256	
104	Jyothi	F	09.07.1971	52	74	Delhi	09.07.1971	125	11.06.1973
105	Unk	M	09.07.1971	52	74	Delhi	09.07.1971	126	11.06.1973
106	Gulab	M	27.08.1971	11	13	Delhi Hyderabad	27.08.1971 14.04.1973	127	26.07.1973
W107	Nandini II	F	27.08.1971	11	13	Delhi Hyderabad	27.08.1971 14.04.1973	128	26.10.1977
W108	Unk	F	27.08.1971	11	13	Delhi	27.08.1971	129	15.02.1972
W109	Unk	U	27.08.1971	11	13	Delhi	27.08.1971	130	27.08.1971
110	Unk	F	02.11.1971	68	77	Delhi	02.11.1971	257	18.12.1971
111	Unk	F	08.12.1971	39	6	Delhi Sarfuddin	08.12.1971 01.12.1975	131	
112	Unk	F	08.12.1971	39	6	Delhi Sarfuddin	08.12.1971 01.12.1975	132	
113	Raja	M		Wild	Wild	Hyderabad	25.02.1972	533	03.12.1986
114	Thara	F	02.04.1968	68	77	Nandakkannan Mysore	02.04.1972 04.12.1972	258	16.06.1990

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
115	Unk	F	02.04.1972	68	77	Nandankannan Fauna India	02.04.1972	259	
116	Unk	M	02.04.1972	68	77	Nandankannan Fauna India	02.04.1972	260	
117	Moti*	M		Wild	Wild	Delhi	20.01.1960	170	13.02.1986
118	Unk	M	16.06.1972	117	37	Delhi	16.06.1972	134	22.10.1972
119	Unk	F	16.06.1972	117	37	Delhi	16.06.1972	136	18.06.1972
120	Jayanti	F	14.07.1972	49	13	Delhi	14.07.1972	140	23.07.1973
121	Unk	F	14.12.1972	48	47	Nandankannan Fauna India	14.12.1972	261	
122	Unk	F	14.12.1972	48	47	Nandankannan Fauna India	14.12.1972	262	
123	Rekha*	F	14.12.1972	48	47	Nandankannan	14.12.1972	263	15.06.1992
W124	Unk	F	30.05.1973	33	74	Delhi	30.05.1973	143	08.06.1973
W125	Unk	F	30.05.1973	33	74	Delhi	30.05.1973	144	13.06.1973
W126	Parijat	M	09.06.1973	25	44	Calcutta	09.06.1973	145	04.05.1981
W127	Champa	F	09.06.1973	25	44	Calcutta	09.06.1973	146	26.08.1981
W128	Chameli II	F	09.06.1973	25	44	Calcutta	09.06.1973	147	13.04.1985
W129	Sephali	F	09.06.1973	25	44	Calcutta	09.06.1973	148	15.10.1991
130	Oria*	F	22.07.1973	68	44	Gauhati	07.03.1974		
						Fauna India (del)			
						Hyderabad	24.02.1974		
131	Robin*	M	22.07.1973	68	77	Nandankannan	22.07.1973	265	06.06.1984

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
132	Rani	F		Wild	Wild	Gauhati	07.09.1973	489	28.02.1982
133	Raja	M		Wild	Wild	Gauhati	07.09.1973	484	07.01.1983
134	Fauzi*	F		Wild	Wild	Gauhati		534	18.05.1985
						Patna	06.11.1973		
W135	Unk	M	15.05.1974	33	74	Delhi	15.05.1974	149	28.05.1974
W136	Unk	F	15.05.1974	33	74	Delhi	15.05.1974	150	20.05.1974
137	Tomy/Moti*	M	09.07.1974	85	37	Delhi	09.07.1974	155	05.03.1990
						Patna	19.07.1980		
138	Timmi	F	09.07.1974	85	37	Delhi	09.07.1974	156	22.04.1975
139	Chandrapuri	F		Wild	Wild	Gauhati	03.02.1975	535	01.02.1977
140	Singri	F		Wild	Wild	Gauhati	12.02.1975	536	05.09.1976
141	Dalimi/Gita*	F		Wild	Wild	Gauhati	20.02.1975	485	21.01.1990
						Chatbir	03.11.1978		
142	Unk	M		Wild	Wild	Gauhati	20.02.1975	537	01.05.1975
143	Unk	M	09.03.1975	68	77	Nandakkannan	09.03.1975	266	17.06.1975
144	Ganga	F	09.03.1975	68	77	Nandakkannan	09.03.1975	267	02.01.1986
145	Lakhimi	F		Wild	Wild	Gauhati	08.04.1975	538	21.11.1976
146	Unk	M	12.06.1975	84	97	Delhi	12.06.1975	163	15.08.1975
147	Unk	M	28.07.1975	25	44	Calcutta	28.07.1975	164	15.08.1975
148	Himadri (Jr.)	F	28.07.1975	25	44	Calcutta	28.07.1975	165	05.01.1995
149	Shankar*	M		Wild	Wild	Rewa	—	495	
						Bhilai	14.01.1976		
150	Pavai	F		Wild	Wild	Gauhati	30.03.1976	486	
						Emperor Circus	23.05.1978		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
151	Unk	M	20.05.1976	117	74	Delhi	20.05.1976	171	20.05.1976
152	Unk	F	20.05.1976	117	74	Delhi	20.05.1976	172	16.01.1981
153	Mukta/Geeta	F	20.05.1976	117	74	Kanpur	29.08.1976	173	03.11.1977
154	Sarita	F	20.05.1976	117	74	Delhi	20.05.1976	174	23.02.1977
155	Unk	F	22.05.1976	84	37	Delhi	22.05.1976	175	26.02.1977
156	Unk	F	22.05.1976	84	37	Delhi	22.05.1976	176	03.02.1977
157	Raju-I	M	06.10.1976	117	95	Delhi	06.10.1976	177	09.02.1977
158	Unk	F	06.01.1976	117	95	Delhi	06.10.1976	180	06.10.1976
159	Radham	F	09.10.1976	15	16	Junagadh	09.10.1976	566	06.03.1987
160	Duflang	F		Wild	Wild	Gauhati	23.11.1976	539	17.12.1980
161	Badal	M	01.04.1977	117	74	Delhi	01.04.1977	181	.05.0.9.1986
						Kanpur	29.08.1979		
						Lucknow	04.01.1986		
162	Bijalee	F	01.04.1977	117	24	Delhi	01.04.1977	182	04.11.1980
163	Unk	F	01.04.1977	117	74	Delhi	01.04.1977	183	01.04.1977
164	Lipsa*	F	22.04.1977	131	123	Nandakkannan	22.04.1977	274	11.02.1991
165	Unk	F	22.04.1977	131	123	Nandakkannan	22.04.1977	275	24.04.1977
166	Unk	F	22.04.1977	131	123	Nandakkannan	22.04.1977	276	25.04.1977
167	Unk	M	22.05.1977	68	77	Nandakkannan	22.05.1977	280	16.08.1977
168	Anand*	M	22.05.1977	68	77	Nandakkannan	22.05.1977	281	16.09.1992
169	Raju-II*	M	01.06.1977	117	74	Delhi	01.06.1977	184	19.06.1977
170	Unk	F	01.06.1977	117	74	Delhi	01.06.1977	185	19.06.1977
171	Unk	F	03.06.1977			Bombay	03.06.1977		25.02.1978
						Ahmedabad	25.02.1978		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
W172	Thiana	F	06.06.1977	84	97	Delhi	06.06.1977	187	26.05.1994
						Hyderabad	08.04.1980		
W173	Diana/Shubra	F	06.06.1977	84	97	Delhi	06.06.1977	186	
						Nandakkannan	28.12.1979		
174	Munna	M	01.08.1977	90	107	Hyderabad	01.08.1977	190	30.11.1992
175	Shankar	M		Wild	Wild	Gauhati	29.10.1977	487	15.08.1993
W176	Unk	F	22.11.1977	84	97	Delhi	22.11.1977	192	22.11.1977
177	Seema	F	22.11.1977	84	97	Delhi	22.11.1977	193	16.12.1988
						Kanpur	29.08.1979		
W178	Neema	F	22.11.1977	84	97	Delhi	22.11.1977	194	
179	Unk	M	03.01.1978	117	74	Delhi	03.01.1978	195	04.01.1978
180	Unk	F	03.01.1978	117	74	Delhi	03.01.1978	197	04.01.1978
181	Unk	F	03.01.1978	117	74	Delhi	03.01.1978	196	09.01.1978
182	Balmarani	F		Wild	Wild	Gauhati	25.09.1980	333	
						Patna			
183	Chatairani	F		Wild	Wild	Gauhati	20.01.1978	540	02.07.1989
184	Bina	F	28.01.1978	15	16	Junagadh	28.01.1978	567	05.08.1987
185	Ramu*	M	16.04.1978	90	130	Hyderabad	16.04.1978	570	23.01.1998
						Junagadh	24.01.1987		
186	Sitha	F	16.04.1978	90	130	Hyderabad	16.04.1978	568	
187	Sujatha	F	16.04.1978	90	130	Hyderabad	16.04.1978	569	31.05.1997
188	Unk	M	07.05.1978	117	74	Delhi	07.05.1978	198	10.05.1978
189	Unk	M	07.05.1978	117	74	Delhi	07.05.1978	199	16.05.1978
190	Unk	F	07.05.1978	117	74	Delhi	07.05.1978	200	07.05.1978
191	Amar	M	14.05.1978	84	37	Delhi	14.05.1978	201	17.05.1978

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
192	Unk	F	14.05.1978	84	37	Delhi	14.05.1978	202	17.05.1978
193	Unk	F	14.05.1978	84	37	Delhi	14.05.1978	203	20.05.1978
194	Sonai Rani	F		Wild	Wild	Gauhati	04.07.1978	541	26.02.1989
195	Unk	M	09.10.1978	117	74	Delhi	09.10.1978	204	09.10.1978
196	Unk	M	09.10.1978	117	74	Delhi	09.10.1978	205	11.10.1978
197	Unk	F	09.10.1978	117	74	Delhi	09.10.1978	206	09.10.1978
W198	Vijay	M	05.05.1979	84	74	Delhi	05.05.1979	207	
						Chatbir	22.06.1987		
W199	Shorab	M	05.05.1979	84	74	Delhi	05.05.1979	208	
W200	Unk	F	05.05.1979	84	74	Delhi	05.05.1979	209	05.05.1979
201	Unk	F	12.05.1979	131	123	Nandankannan	12.05.1979	287	09.02.1980
202	Basanthi	F	12.05.1979	131	123	Nandankannan	12.05.1979	288	
						Delhi	29.03.1980		
203	Basant	M	12.05.1979	131	123	Nandankannan	12.05.1979	289	
						Delhi	29.03.1980		
204	Ruparani	F		Wild	Wild	Gauhati	18.06.1979	488	25.08.1980
205	Majbotian	M	1959	Wild	Wild	Gauhati	28.06.1979	542	12.07.1979
206	Unk	M	22.07.1979	68	144	Nandankannan	22.07.1979	290	27.07.1979
207	Unk	F	22.07.1979	68	144	Nandankannan	22.07.1979	290	25.07.1979
208	Sanjay	M		Wild	Wild	Gauhati	16.08.1979	543	16.03.1987
209	Sona*	F		Wild	Wild	Hyderabad	15.11.1979	544	
						Vizag	20.06.1981		
210	Sham	M	15.11.1979	90	130	Hyderabad	15.11.1979	574	06.03.1999
						Madras	08.07.1990		
211	Syamu/Rama*	M	15.11.1979	90	130	Hyderabad	15.11.1979	573	
						Jodhpur	29.08.1983		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
212	Ram/Ramu*	M	15.11.1979	90	130	Hyderabad	15.11.1979	571	
						Vizag	20.06.1981		
213	Sony*	F	15.11.1979	90	130	Hyderabad	15.11.1979	572	
						Vizag	20.06.1981		
W214	Alaka	F	08.01.1980	68	144	Nandankannan	08.01.1980	296	
215	Nanda	F	08.01.1980	68	144	Nandankannan	08.01.1980	297	01.08.1991
216	Debabrata	M	08.01.1980	68	144	Nandankannan	08.01.1980	298	14.07.1990
217	Rajkumar	M		Wild	Wild	Gauhati	14.06.1980	490	05.04.1993
218	Rajkumari	F		Wild	Wild	Gauhati	14.06.1980	545	05.05.1989
219	Lakhi	M		Wild	Wild	Gauhati	23.06.1980	546	21.11.1980
220	Ajoy*	M		Wild	Wild	Calcutta	22.08.1980	595	05.12.1991
221	Raja	M		117	24	Delhi		577	
						Chatbir	06.11.1980		
222	Ranjit	M		117	74	Delhi		575	
						Chatbir	06.11.1980		
223	Rupa	F		117	74	Delhi		576	
						Chatbir	06.11.1980		
224	Balram	M		Wild	Wild	Gauhati		547	22.12.1988
						Chatbir	25.12.1980		
225	Arjun	M		Wild	Wild	Hyderabad	02.01.1981	492	26.01.1995
226	Sanjay	M		Wild	Wild	Hyderabad	02.01.1981	494	
						Banerghata	1991		
227	Sheela	F		Wild	Wild	Hyderabad	02.01.1981	493	17.10.1997
228	Unk	F	10.04.1981	117	74	Delhi	10.04.1981	309	10.04.1981
229	Sundari*	F	10.04.1981	117	74	Delhi	10.04.1981	311	25.10.1988
						Kanpur	03.04.1985		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
230	Sundar	M	10.04.1981	117	74	Delhi	10.04.1981	310	
231	Unk	M	10.04.1981	117	74	Delhi	10.04.1981	308	10.04.1981
232	Unk	M	20.04.1981	131	123	Nandankannan	20.04.1981	312	02.05.1981
233	Unk	M	20.04.1981	131	123	Nandankannan	20.04.1981	313	11.05.1981
234	Unk	F	20.04.1981	131	123	Nandankannan	20.04.1981	314	02.08.1981
235	Unk	F	20.04.1981	131	123	Nandankannan	20.04.1981	315	07.08.1981
236	Lata	F	26.04.1981	90	130	Hyderabad	26.04.1981	578	
						Shimoga	06.03.1990		
237	Hema*	F	26.04.1981	90	130	Hyderabad	26.04.1981	579	27.12.1989
						Junagadh	24.01.1987		
238	Unk	F	12.05.1981	68	144	Nandankannan	12.05.1981	316	12.05.1981
239	Unk	F	12.05.1981	68	144	Nandankannan	12.05.1981	317	13.05.1981
240	Unk	F	21.05.1981	168	164	Nandankannan	21.05.1981	318	29.05.1981
241	Unk	F	21.05.1981	168	164	Nandankannan	21.05.1981	319	29.05.1981
242	Unk	F	21.05.1981	168	164	Nandankannan	21.05.1981	320	29.05.1981
243	Deepa*	F	21.06.1981	185	186	Hyderabad	21.06.1981	580	
						Jodhpur	28.09.1983		
244	Arun	M	21.06.1981	185	186	Hyderabad	21.06.1981	581	27.01.1983
245	Shankar*	M	13.10.1981	168	164	Nandankannan	13.10.1981	322	
						Nagpur	09.01.1988		
246	Pritam-I	M	13.10.1981	168	164	Nandankannan	13.10.1981	323	
247	Aswini	M	20.10.1981	68	173	Nandankannan	20.10.1981	325	12.08.1989
248	Bisakaha	F	20.10.1981	68	173	Nandankannan	20.10.1981	324	
249	Ashok	M	27.10.1981	131	123	Nandankannan	27.10.1981	327	
						VOC, Coimbatore			

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
250	Anuradha/Rani	F	27.10.1981	131	123	Nandakkannan VOC Coimbatore	27.10.1981 15.07.1989	327	
251	Rajia	F		Wild	Wild	Gauhati	21.11.1981	548	07.0..
252	Pinaki	M	08.12.1981	68	144	Nandakkannan	08.12.1981	332	
253	Jamuna	F	08.12.1981	68	144	Nandakkannan	08.12.1981	331	
254	Swapna	F	18.05.1982	90	172	Hyderabad Madras	18.05.1982 27.08.1992	583	
255	Unk	F	26.05.1982	224	141	Chatbir	26.05.1982	584	28.05.1982
256	Unk	F	26.05.1982	224	141	Chatbir	26.05.1982	585	29.05.1982
257	Unk	F	01.10.1982	168	215	Nandakkannan Texas	01.10.1982	586	
258	Unk	F	01.10.1982	168	215	Nandakkannan Texas	01.10.1982	587	
259	Narayana	M	18.12.1982	90	172	Hyderabad	18.12.1982	589	
260	Swarna	F	18.12.1982	90	172	Hyderabad	18.12.1982	588	
261	Geeta	F	01.01.1983	137	134	Patna Ranchi	01.01.1983 17.03.1993		
262	Jogesh	M	02.01.1983	224	141	Chatbir Ludhiana	02.01.1983 11.02.1993	591	
263	Umesh	M	02.01.1983	224	141	Chatbir Ludhiana	02.01.1983 11.02.1993	591	
264	Shobha	F	02.01.1983	224	141	Chatbir	02.01.1983	592	12.06.1990
265	Rocky	F	16.06.1983	137	134	Patna Ranchi	16.06.1983 17.03.1993	344	25.03.1994
266	Mona	F	16.06.1983	137	134	Patna	16.06.1983	346	
267	Jackie	F	16.06.1983	137	134	Patna	16.06.1983	345	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
268	Karuna	F	1963	Wild	Wild	Gauhati	31.07.1983	549	01.12.1983
269	Unk	F	22.08.1983	224	141	Chatbir	22.08.1983	594	22.08.1983
270	Unk	M	22.08.1983	224	141	Chatbir	22.08.1983	593	25.08.1983
271	Unk	M	22.08.1983	224	141	Chatbir	22.08.1983	595	26.08.1983
272	Ravi	M	20.11.1983	212	209	Vizag	20.11.1983	599	
273	Gowri	F	20.11.1983	212	209	Vizag	20.11.1983	598	
274	Unk	F	20.11.1983	212	209	Vizag	20.11.1983	597	23.05.1987
275	Jahnavi	F	11.12.1983	68	144	Nandankannan	11.12.1983	356	
276	Kaveri	F	11.12.1983	68	144	Nandankannan	11.12.1983	357	
						Sholapur	19.08.1989		
277	Rohini	F	11.12.1983	68	144	Nandankannan	11.12.1983	358	
W278	Sweta	F	29.12.1983	216	173	Nandankannan	29.12.1983	362	
W279	Sangram	M	29.12.1983	216	173	Nandankannan	29.12.1983	363	
W280	Swapna	F	29.12.1983	216	173	Nandankannan	29.12.1983	359	
						Jaipur	15.08.1988		
W281	Sipra	F	29.12.1983	216	173	Nandankannan	29.12.1983	360	
						Cincinnati (USA)			
282	Unk	M	29.12.1983	216	173	Nandankannan	29.12.1983	361	05.01.1984
283	Shieladevi	F		Wild	Wild	Gauhati	19.01.1984	550	02.01.1988
284	Sheroo	M		Wild	Wild	Kanpur	02.03.1984	240	08.04.1989
285	Banani	F	08.04.1984	131	123	Nandankannan	08.04.1984	364	
						Baroda	29.04.1988		
286	Sibani/Gauri	F	08.04.1984	131	123	Nandankannan	08.04.1984	365	
						Nagpur	09.01.1988		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
287	Chanda/Shanta	F	08.04.1984	131	123	Nandankannan	08.04.1984	366	22.11.1982
						Madras	18.10.1985		
288	Neeraj	M	02.05.1984	224	141	Chatbir	02.05.1984	601	17.04.1993
289	Jalaj	F	02.05.1984	224	141	Chatbir	02.05.1984	602	
290	Saroj	F	02.05.1984	224	141	Chatbir	02.05.1984	603	28.03.1994
291	Unk	M	02.05.1984	224	141	Chatbir	02.05.1984	604	29.07.1987
292	Unk	M	02.05.1984	224	141	Chatbir	02.05.1984	600	02.08.1984
293	Parvati*	F	08.05.1984	131	144	Nandankannan	08.05.1984	376	14.02.1991
294	Unk	M	08.05.1984	131	144	Nandankannan	08.05.1984	372	11.06.1984
295	Chitra	F	08.05.1984	131	144	Nandankannan	08.05.1984	373	25.12.1984
296	Unk	U	11.11.1984	211	243	Jodhpur	11.11.1984	605	12.11.1984
297	Unk	U	11.11.1984	211	243	Jodhpur	11.11.1984	606	12.11.1984
298	Unk	U	11.11.1984	211	243	Jodhpur	11.11.1984	607	12.11.1984
299	Atmaram	M		Wild	Wild	Hyderabad	01.04.1985	499	03.12.1992
300	Shankar	M		Wild	Wild	Gauhati	19.04.1985	498	05.08.1993
301	Krishna	M	21.04.1985	68	144	Nandankannan	21.04.1985	384	
						Sholapur	19.09.1989		
302	Unk	F	21.04.1985	68	144	Nandankannan	21.04.1985	385	
303	Salu	F	24.04.1985	224	223	Chatbir	24.04.1985	608	
						Ludhiana	09.02.1993		
304	Sapalu	F	24.04.1985	224	223	Chatbir	24.04.1985	609	
305	Bharath	M	31.05.1985	211	243	Jodhpur	31.05.1985	610	24.08.1997
						Udaipur	30.12.1986		
306	Jeevan	M	31.05.1985	211	243	Jodhpur	31.05.1985	612	
						Jaipur	14.02.1986		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
						Udaipur	20.08.1988		
						Kota	20.07.1989		
307	Priya	F	31.05.1985	211	243	Jodhpur	31.05.1985	311	
						Bikaner	18.09.1988		
308	Kaikayee/Devi	F	02.09.1985	168	164	Nandankannan	02.09.1985	596	
						Pune	07.07.1990		
309	Kaushalya	F	02.09.1985	168	164	Nandankannan	02.09.1985	392	
310	Sumitra	F	02.09.1985	168	164	Nandankannan	02.09.1985	391	
311	Suheli	F		Wild	Wild	Lucknow	18.09.1983	506	
						Delhi	20.09.1988		
312	Shyamu*	M		Wild	Wild	Bhopal	18.09.1983	613	
313	Kashyap-I*	M	26.10.1985	216	173	Nandankannan	26.10.1985	394	
						Gauhati	24.03.1989		
W314	Krutika	F	26.10.1985	216	173	Nandankannan	26.10.1985	395	
315	Siva	M	01.11.1985	210	186	Hyderabad	01.11.1985	614	21.10.1995
316	Ganga	F	01.11.1985	210	186	Hyderabad	01.11.1985	615	
317	Jamuna	F	01.11.1985	210	186	Hyderabad	01.11.1985	616	21.02.1998
318	Dhitoo*	M		Wild	Wild	Kanpur	18.12.1985	241	21.10.1990
319	Rupak	M	01.02.1986	220	148	Calcutta	01.02.1986	399	
320	Uday	M	01.02.1986	220	148	Calcutta	01.02.1986	398	
321	Kaushik	M	01.02.1986	220	148	Calcutta	01.02.1986	400	
322	Ajay	M	11.04.1986	224	223	Chatbir	11.04.1986	617	
						Delhi	21.03.1991		
323	Shankar	M	11.04.1986	224	223	Chatbir	11.04.1986	618	
324	Rukmani	F	11.04.1986	224	223	Chatbir	11.04.1986	619	22.01.1989

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
325	Padmini	F	11.04.1986	224	223	Chatbir	11.04.1986	622	
						Delhi	21.03.1991		
326	Sheela	F	11.04.1986	224	223	Chatbir	11.04.1986	620	18.06.1988
327	Joy	M	04.05.1986	Wild	Wild	Darjeeling	04.05.1986	242	
						Nandankannan			
W328	Unk	F	08.05.1986	247	253	Nandankannan	08.05.1986	405	08.05.1986
329	Unk	F	08.05.1986	247	253	Nandankannan	08.05.1986	404	12.05.1986
W330	Unk	M	08.05.1986	247	253	Nandankannan	08.05.1986	402	12.05.1986
331	Unk	M	08.05.1986	247	253	Nandankannan	08.05.1986	403	12.05.1986
332	Unk	F	12.05.1986	247	215	Nandankannan	12.05.1986	406	11.06.1986
333	Unk	M	12.05.1986	247	215	Nandankannan	12.05.1986	407	17.05.1982
W334	Mahesh	M	12.05.1986	247	215	Nandankannan	12.05.1986	408	
						Ahmedabad	22.01.1994		
335	Unk	M	12.07.1986	211	243	Jodhpur	12.07.1986	625	13.10.1987
336	Unk	M	12.07.1986	211	243	Jodhpur	12.07.1986	623	11.11.1987
337	Reshma	F	12.07.1986	211	243	Jodhpur	12.07.1986	624	24.08.1993
338	Unk	M	20.07.1986	212	209	Vizag	20.07.1986	627	28.07.1987
339	Unk	F	20.07.1986	212	209	Vizag	20.07.1986	628	04.10.1987
340	Unk	F	20.07.1986	212	209	Vizag	20.07.1986	626	18.05.1986
341	Jauhar	M	10.08.1986	284	177	Kanpur	10.08.1986	243	
342	Sanjeev	F	10.08.1986	284	177	Kanpur	10.08.1986	244	
343	Uttam/Sham	M	10.08.1986	284	177	Kanpur	10.08.1986	245	
						Chatbir	13.01.1988		
344	Dora-I	M	18.08.1985	246	123	Nandankannan	18.08.1986	409	19.12.1988
345	Dora-II*	M	18.08.1985	246	123	Nandankannan	18.08.1986	410	
						Baroda	29.04.1988		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
W346	Durga	F	31.08.1986	247	215	Nandankannan	31.08.1986	414	
W347	Tarini	F	31.08.1986	247	215	Nandankannan	31.08.1986	416	
348	Unk	F	31.08.1986	247	215	Nandankannan	31.08.1986	415	18.03.1987
349	Jayant	M	10.09.1986	318	229	Kanpur	10.09.1986	417	
						Gwalior	07.04.1988		
350	Jyoti	F	10.09.1986	318	229	Kanpur	10.09.1986	482	
351	Tina	F	25.11.1986	259	254	Hyderabad	25.11.1986		
W352	Rina	F	25.11.1986	259	254	Hyderabad	25.11.1986		09.01.1992
W353	Vishwamitra	M	29.11.1986	247	253	Nandankannan	29.11.1986	426	
W354	Unk	F	29.11.1986	247	253	Nandankannan	29.11.1986	425	18.06.1991
						Bhopal	19.11.1988		
W355	Vasistha	M	29.11.1986	247	253	Nandankannan	29.11.1986	427	
W356	Unk	M	29.11.1986	247	253	Nandankannan	29.11.1986	428	29.11.1986
357	Subhrat*	M	29.11.1986	279	277	Nandankannan	29.11.1986	631	12.03.1995
						Bokaro	07.12.1990		
358	Unk	F	29.11.1986	279	277	Nandankannan	29.11.1986	632	10.12.1986
359	Unk	F	29.11.1986	279	277	Nandankannan	29.11.1986	633	10.12.1986
360	Vikram*	M		Wild	Wild	Itanagar	23.01.1987		01.11.1993
361	Sharu	M		Wild	Wild	Aurangabad	26.02.1987	552	
362	Moti	M		Wild	Wild	Guna			28.10.1990
						Bhopal	03.01.1987		
363	Tara	F		Wild	Wild	Guna	03.01.1987		
						Bhopal	29.09.1989		
						Shivpuri			
364	Tilak	M	11.03.1987	220	148	Calcutta	11.03.1987	432	
365	Shyam	M	28.03.1987	216	173	Nandankannan	28.03.1987	634	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
366	Sriya	F	28.03.1987	216	173	Nandankannan	28.03.1987	634	
367	Chilka	M		Wild	Wild	Lucknow	16.04.1987	502	21.02.1995
368	Rinki	F	19.04.1987	266	265	Patna	19.04.1987	336	
W369	Shanti	F	19.04.1987	199	178	Delhi	19.04.1987	435	
W370	Rustam	M	19.04.1987	199	178	Delhi	19.04.1987	436	
						Bhopal	18.09.1988		
W371	Unk	F	19.04.1987	199	178	Delhi	19.04.1987	433	20.04.1987
372	Soni	F	19.04.1987	266	265	Patna	19.04.1987	637	
373	Sonu	M	19.04.1987	266	265	Patna	19.04.1987	638	
374	Sagar*	M		Wild	Wild	Sagar	07.05.1987	503	
						Indore	03.01.1992		
375	Unk	M	20.05.1987	247	250	Nandankannan	20.05.1987	440	20.05.1987
376	Unk	M	20.05.1987	247	250	Nandankannan	20.05.1987	441	20.05.1987
377	Unk	F	20.05.1987	247	250	Nandankannan	20.05.1987	442	28.05.1987
378	Unk	M	25.07.1987	168	164	Nandankannan	25.07.1987	446	08.06.1990
379	Unk	M	25.07.1987	168	164	Nandankannan	25.07.1987	447	
						R.L. Brahmchari			
380	Unk	M	25.07.1987	168	164	Nandankannan	27.07.1987	445	
381	Vijay	M	10.08.1987	185	237	Junagadh	10.08.1987	639	21.11.1997
						Ahmedabad (Rajkot)	24.02.1989		
382	Sangitha	F	10.08.1987	185	237	Junagadh	10.08.1987	642	
						Ahmedabad (Rajkot)	24.02.1989		
383	Unk	F	10.08.1987	185	237	Junagadh	10.08.1987	641	18.01.1988
384	Daksha	F	10.08.1987	185	237	Junagadh	10.08.1987	640	11.05.1998
385	Unk	F	07.10.1987	279	275	Nandankannan	07.10.1987	453	06.11.1987
386	Unk	M	07.10.1987	279	275	Nandankannan	07.10.1987	454	10.11.1987

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
387	Unk	M	07.10.1987	279	275	Nandakkannan	07.10.1987	455	10.11.1987
388	Unk	F	09.11.1987	247	215	Nandakkannan	09.11.1987	643	09.11.1987
389	Unk	M	09.11.1987	247	215	Nandakkannan	09.11.1987	644	29.11.1987
390	Unk	M	20.11.1987	247	248	Nandakkannan	20.11.1987	456	22.11.1987
391	Unk	F	20.11.1987	247	248	Nandakkannan	20.11.1987	457	22.11.1987
392	Unk	M	20.11.1987	247	248	Nandakkannan	20.11.1987	458	08.12.1987
393	Manas	M		Wild	Wild	Gauhati	23.11.1987	553	27.12.1987
394	Lily	F	06.02.1988	263	289	Chatbir	06.02.1988	645	12.03.1993
395	Pappu	M	06.02.1988	263	289	Chatbir	06.02.1988	646	
396	Rajkumar	M		Wild	Wild	Gauhati	22.02.1988	554	
						Agartala	15.02.1989		
397	Rama	M	31.03.1988	210	186	Hyderabad	31.03.1988	651	29.05.1992
398	Geeta	F	31.03.1988	210	186	Hyderabad	31.03.1988	650	12.12.1991
						Madras	23.03.1991		
399	Unk	M		Wild	Wild	Vizag	20.04.1988	555	09.05.1988
400	Unk	M		Wild	Wild	Vizag	20.04.1988	557	13.05.1988
401	Unk	F		Wild	Wild	Vizag	20.04.1988	556	14.05.1988
402	Sukanta	M	04.05.1988	252	248	Nandakkannan	04.05.1988	471	
403	Debashish	M	04.05.1988	252	248	Nandakkannan	04.05.1988	472	
404	Priya	F	04.05.1988	252	248	Nandakkannan	04.05.1988	473	
						Bokaro	07.12.1990		
405	Unk	F	04.05.1988	279	275	Nandakkannan	04.05.1988	653	08.09.1988
406	Unk	F	04.05.1988	279	275	Nandakkannan	04.05.1988	652	06.05.1988
407	Unk	F	05.06.1988	318	229	Kanpur	05.06.1988	654	05.06.1988
408	Kuru	F	05.06.1988	318	229	Kanpur	05.06.1988	488	
409	Raj	M	13.06.1988	284	177	Kanpur	13.06.1988	480	03.11.1989

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
410	Kishore	M	13.06.1988	284	177	Kanpur	13.06.1988	481	
						Gwalior	07.04.1989		
411	Mukesh	M	13.06.1988	284	177	Kanpur	13.06.1988	655	11.07.1988
412	Rani*	F		Wild	Wild	Itanagar	19.07.1988	497	
413	Mohini*	F		Wild	Wild	Bhopal	16.08.1988	507	
414	Raju	M	21.08.1988	185	237	Junagadh	21.08.1988	657	
415	Rohit	M	21.08.1988	185	237	Junagadh	21.08.1988	656	
						Rajkot	21.01.1992		
416	Padma	F	21.08.1988	185	237	Junagadh	21.08.1988	658	
						Rajkot	21.01.1992		
417	Unk	F	27.08.1988	212	213	Vizag	27.08.1988	659	18.05.1989
418	Unk	F	27.08.1988	212	213	Vizag	27.08.1988	662	03.12.1988
419	Unk	M	27.08.1988	212	213	Vizag	27.08.1988	660	23.05.1989
420	Meena	F	27.08.1988	212	213	Vizag	27.08.1988	661	
421	Unk	M	01.10.1988	168	215	Nandankannan	27.08.1988	666	28.10.1988
W422	Unk	F	01.10.1988	168	215	Nandankannan	01.10.1988	664	
						Texas			
W423	Unk	F	01.10.1988	168	215	Nandankannan	01.10.1988	665	
						Texas			
424	Rudramudu	M		Wild	Wild	Hyderabad	16.10.1988	508	
425	Monu	M	12.11.1988	265	268	Patna	12.11.1988	667	30.11.1994
						Ranchi	17.03.1993		
426	Unk	U	20.11.1988	247	253	Nandankannan	20.11.1988	670	20.11.1988
427	Unk	U	20.11.1988	247	253	Nandankannan	20.11.1988	668	20.11.1988
428	Unk	F	20.11.1988	247	253	Nandankannan	20.11.1988	669	22.11.1988
429	Unk	F	20.11.1988	247	253	Nandankannan	20.11.1988	671	28.11.1988
430	Unk	F	16.12.1988	279	275	Nandankannan	16.12.1988	674	21.12.1988

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
431	Unk	F	16.12.1988	279	275	Nandakkannan	16.12.1988	672	25.12.1988
432	Unk	F	16.12.1988	279	275	Nandakkannan	16.12.1988	673	25.12.1988
433	Manasi	F		Wild	Wild	Gauhati	19.01.1989	509	
434	Mithila	F		373	267	Patna	06.03.1989	249	
						Ranchi	17.03.1993		
435	Radha*	F		Wild	Wild	Gauhati	24.03.1989	558	
436	Unk	F	03.04.1989	247	250	Nandakkannan	03.04.1989	676	11.04.1989
437	Pritam-II	M	03.04.1989	247	250	Nandakkannan	03.04.1989	675	
438	Rahul	M	06.04.1989	222	303	Chatbir	06.04.1989	681	
						Ludhiana	09.02.1993		
439	Vikram	M	06.04.1989	222	303	Chatbir	06.04.1989	680	
						Ludhiana	09.02.1993		
						Lucknow	06.04.1995		
440	Ramani	F	06.04.1989	222	303	Chatbir	06.04.1989	678	
						Ludhiana	09.02.1993		
441	Pushpa	F	06.04.1989	222	303	Chatbir	06.04.1989	679	
						Ludhiana	09.02.1993		
442	Karuna	M	11.04.1989	174	254	Hyderabad	11.04.1989	682	
443	Bharat	M	23.04.1989	90	187	Hyderabad	23.04.1989	683	
444	Lakshman	M	23.04.1989	90	187	Hyderabad	23.04.1989	684	
						Madras	24.03.1991		
445	Suresh	M	06.05.1989	247	215	Nandakkannan	06.05.1989	686	
						Pune	07.07.1990		
446	Unk	M	06.05.1989	247	215	Nandakkannan	06.05.1989	687	27.02.1990
447	Monali	F	12.05.1989	245	286	Nagpur	12.05.1989	688	
448	Sonali	F	12.05.1989	245	286	Nagpur	12.05.1989	689	

Stud	Name	Sex	Birth Date	Sirc	Dam	Location	Since	ISB	Death Date
449	Unk	M	18.05.1989	185	383	Junagadh	18.05.1989	690	19.05.1991
450	Unk	F	18.05.1989	185	383	Junagadh	18.05.1989	691	19.05.1991
451	Unk	M	01.06.1989	252	248	Nandankannan	01.06.1989	694	09.08.1990
452	Unk	M	01.06.1989	252	248	Nandankannan	01.06.1989	692	21.08.1989
453	Devi	F	01.06.1989	252	248	Nandankannan	01.06.1989	693	
454	Unk	F	02.06.1989	168	215	Nandankannan	02.06.1989	692	
455	Unk	F	02.06.1989	168	215	Nandankannan	02.06.1989	699	10.06.1989
W456	Unk	F	02.06.1989	168	215	Nandankannan	02.06.1989	695	20.08.1989
457	Unk	M	08.07.1989	247	253	Nandankannan	08.07.1989	699	12.02.1990
458	Unk	F	08.07.1989	247	253	Nandankannan	08.07.1989	701	08.07.1989
459	Unk	F	08.07.1989	247	253	Nandankannan	08.07.1989	700	
460	Raja	M	26.10.1989	360	412	Itanagar	26.10.1989	702	
461	Mira	F	26.10.1989	360	412	Itanagar	26.10.1989	703	28.08.1990
462	Neena	F	26.10.1989	360	412	Itanagar	26.10.1989	704	13.09.1990
463	Unk	M	22.12.1989	252	248	Nandankannan	22.12.1989	706	22.12.1989
464	Unk	M	22.12.1989	252	248	Nandankannan	22.12.1989	705	24.12.1989
465	Unk	F	22.12.1989	252	248	Nandankannan	22.12.1989	707	22.12.1989
466	Rita	F		Wild	Wild	Calcutta	17.01.1990	510	13.09.1994
467	Myna	F		Wild	Wild	Hyderabad	19.03.1990	511	04.02.1998
468	Mahesh	M	03.04.1990	174	260	Hyderabad	03.04.1990	709	
469	Muragan	M	03.04.1990	174	260	Hyderabad	03.04.1990	708	16.07.1998
470	Mini	F	08.04.1990	246	253	Nandankannan	08.04.1990	710	21.07.1995
						Tata Zoo	17.02.1994		
471	Jaya	F	08.04.1990	246	253	Nandankannan	08.04.1990	712	
						Mysore	10.10.1993	472	
472	Kadambini	F	08.04.1990	246	253	Nandankannan	08.04.1990	711	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
473	Unk	U	10.04.1990	300	435	Gauhati	10.04.1990	715	12.04.1990
474	Unk	U	10.04.1990	300	435	Gauhati	10.04.1990	714	13.04.1990
475	Unk	U	10.04.1990	300	435	Gauhati	10.04.1990	713	23.04.1990
W476	Gayatri	F	24.04.1990	216	173	Nandakkannan	24.04.1990	718	
						Calcutta	10.08.1991		
W477	Gaurav	M	24.04.1990	216	173	Nandakkannan	24.04.1990	717	
478	Urmila	F	24.04.1990	216	173	Nandakkannan	24.04.1990	716	
						Madras	09.10.1993		
479	Laddi	M	13.05.1990	222	264	Chatbir	13.05.1990	719	
480	Tony	M	13.05.1990	222	264	Calcutta	13.05.1990	720	
481	Riddu/Suraj	M	13.05.1990	222	264	Chatbir	13.05.1990	722	
						Delhi	18.03.1993		
482	Merry	F	13.05.1990	222	264	Chatbir	13.05.1990	721	
						Lucknow	06.04.1995		
W483	Shankar	M	11.06.1990	168	314	Nandakkannan	11.06.1990	724	
W484	Suman	M	11.06.1990	168	314	Nandakkannan	11.06.1990	725	
W485	Rakesh	M	11.06.1990	168	314	Nandakkannan	11.06.1990	723	
W486	Rajendra	M	15.06.1990	168	215	Nandakkannan	15.06.1990	728	
W487	Johar	M	15.06.1990	168	215	Nandakkannan	15.06.1990	726	
W488	Unk	M	15.06.1990	168	215	Nandakkannan	15.06.1990	727	16.06.1990
489	Unk	M	14.07.1990	353	310	Nandakkannan	14.07.1990	730	24.07.1990
490	Unk	U	14.07.1990	353	310	Nandakkannan	14.07.1990	729	14.07.1990
491	Unk	F	14.07.1990	353	310	Nandakkannan	14.07.1990	731	Unk
492	Unk	F	23.07.1990	212	209	Vizag	23.07.1990	732	14.11.1991
493	Unk	F	23.07.1990	212	209	Vizag	23.07.1990	734	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
494	Gautam	M	23.07.1990	212	209	Vizag	23.07.1990	733	
495	Manas	M	10.08.1990	168	164	Nandankannan	10.08.1990	737	20.08.1990
496	Manasi	F	10.08.1990	168	164	Nandankannan	10.08.1990	735	
497	Arjun	M	10.08.1990	168	164	Nandankannan	10.08.1990	736	
						Mysore	10.10.1993		
498	Rini	F	26.08.1990	252	248	Nandankannan	26.08.1990	738	
499	Rana	M	26.08.1990	252	248	Nandankannan	26.08.1990	739	
500	Bikki	M	22.10.1990	222	289	Chatbir	22.10.1990	740	
501	Rubbi	M	22.10.1990	222	289	Chatbir	22.10.1990	741	22.10.1990
502	Ram	M	22.10.1990	222	289	Chatbir	22.10.1990	742	22.10.1990
503	Sunny	M	12.12.1990		388	Pune	12.12.1990		
504	Chetak	M	12.12.1990		308	Pune	12.12.1990		
505	Legend	F	12.12.1990		308	Pune	12.12.1990		
506	Rajkumari	F		Wild	Wild	Gauhati	03.01.1991	559	03.05.1992
507	Phatik-II	M	09.03.1991	300	435	Gauhati	09.03.1991	746	23.04.1991
508	Unk	U	09.03.1991	300	435	Gauhati	09.03.1991	745	13.03.1991
509	Unk	U	09.03.1991	300	435	Gauhati	09.03.1991	747	13.03.1991
510	Mayadevi*	F		Wild	Wild	Indore	01.04.1991	515	
511	Chandu	M	06.04.1991	245	286	Nagpur	06.04.1991	748	
512	Mohini	F		Wild	Wild	Patna	10.04.1991	512	
W513	Unk	F	10.04.1991	334	347	Nandankannan	10.04.1991	750	10.04.1991
W514	Unk	F	10.04.1991	334	347	Nandankannan	10.04.1991	751	11.04.1991
W515	Unk	F	10.04.1991	334	347	Nandankannan	10.04.1991	749	19.04.1991
516	Aman	M	18.05.1991	230	369	Delhi	18.05.1991	754	
W517	Swaraj	M	18.05.1991	230	369	Delhi	18.05.1991	755	
518	Shyamal	M	30.07.1991	313	437	Gauhati	30.07.1991	756	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
519	Samali	F	30.07.1991	313	437	Gauhati	30.07.1991	757	
520	Maleshankara	M	13.08.1991	226	236	Shimoga	13.08.1991	758	
521	Sharavathi	F	13.08.1991	226	236	Shimoga	13.08.1991	759	
W522	Ajay	M	14.08.1991	168	309	Nandakkannan	14.08.1991	761	
W523	Laxmikant	M	14.08.1991	168	309	Nandakkannan	14.08.1991	763	
524	Pramod	M	14.08.1991	168	309	Nandakkannan	14.08.1991	762	
525	Unk	F	07.09.1991	279	275	Nandakkannan	07.09.1991	766	19.09.1991
526	Unk	F	07.09.1991	279	275	Nandakkannan	07.09.1991	765	20.09.1991
527	Ruptak	M		Wild	Wild	Gwalior	27.09.1991	560	
528	Unk	M	05.10.1991	246	248	Nandakkannan	05.10.1991	767	05.11.1991
529	Unk	F	05.10.1991	246	248	Nandakkannan	05.10.1991	768	05.11.1991
530	Chand	F	08.10.1991	373	265	Patna	08.10.1991	770	
531	Bijlee	F	08.10.1991	373	265	Patna	08.10.1991	769	
532	Sitlo	F	26.10.1991	323	289	Chatbir	26.10.1991	771	26.10.1991
533	Bagga	M	26.10.1991	323	289	Chatbir	26.10.1991	772	
534	Minu	F	26.10.1991	323	289	Chatbir	26.10.1991	773	26.10.1991
535	Sagar	M	20.11.1991	403	253	Nandakkannan	20.11.1991	774	
						Tata	17.02.1994		
536	Sangam	M	20.11.1991	403	253	Nandakkannan	20.11.1991	777	
537	Saroj	M	20.11.1991	403	253	Nandakkannan	20.11.1991	776	
W538	Unk	F	20.11.1991	403	253	Nandakkannan	20.11.1991	775	20.11.1991
539	Krishna	M	11.12.1991	445	187	Hyderabad	11.12.1991	778	
540	Vasu	M	11.12.1991	445	187	Hyderabad	11.12.1991	778	20.08.1993
541	Sundari	F		Wild	Wild	Calcutta	08.01.1992	496	
542	Tara	F	12.01.1992	360	417	Itanagar	12.01.1992	782	
543	Roby	M	12.01.1992	360	417	Itanagar	12.01.1992	781	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
544	Ruby	M	12.01.1992	360	417	Itanagar	12.01.1992	780	
545	Ramana	M	21.02.1992	174	260	Hyderabad	21.02.1992	783	
						Mysore	04.03.1995		
546	Suguna	F	21.02.1992	174	260	Hyderabad	21.02.1992	784	12.03.1993
547	Mallika	F		Wild	Wild	Hyderabad	19.03.1992	561	28.12.1993
548	Khanna	M	01.04.1992	174	254	Hyderabad	01.04.1992	785	26.03.1996
549	Hena	F	01.04.1992	174	254	Hyderabad	01.04.1992	786	
550	Unk	M	06.04.1992	185	384	Junagadh	06.04.1992	787	28.04.1992
551	Unk	F	06.04.1992	185	384	Junagadh	06.04.1992	789	29.04.1992
552	Divya	F	06.04.1992	185	384	Junagadh	06.04.1992	788	
553	Mukul	M	08.04.1992	353	277	Nandankannan	08.04.1992	792	22.01.1993
554	Unk	F	08.04.1992	353	277	Nandankannan	08.04.1992	790	22.01.1993
555	Kalyani	F	08.04.1992	353	277	Nandankannan	08.04.1992	791	
556	Radha	F	09.04.1992	252	248	Nandankannan	09.04.1992	796	
						Rajkot	23.02.1995		
557	Tapan	M	09.04.1992	252	248	Nandankannan	09.04.1992	794	
558	Malati	F	09.04.1992	252	248	Nandankannan	09.04.1992	795	
559	Bhanu	M	09.04.1992	252	248	Nandankannan	09.04.1992	793	
560	Unk	M	14.04.1992	279	275	Nandankannan	14.04.1992	800	16.04.1992
561	Unk	M	14.04.1992	279	275	Nandankannan	14.04.1992	798	25.04.1992
562	Unk	M	14.04.1992	279	275	Nandankannan	14.04.1992	799	25.04.1992
563	Unk	M	14.04.1992	279	275	Nandankannan	14.04.1992	797	04.05.1992
564	Gabbar	M	03.05.1992	345	285	Baroda	03.05.1992	801	
565	Fulan	F	03.05.1992	345	285	Baroda	03.05.1992	802	08.12.1998
566	Unk	F	03.05.1992	345	285	Barda	03.05.1992		
567	Raj	M	09.06.1992	230	369	Delhi	09.06.1992	803	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
568	Kiko	F	09.06.1992	230	369	Delhi	09.06.1992	804	
569	Javed	M	09.07.1992	373	265	Patna	09.07.1992	805	
570	Reena	F	09.07.1992	373	265	Patna	09.07.1992	806	
571	Unk	U	28.07.1992	212	209	Vizag	28.07.1992	808	01.08.1992
572	Unk	U	28.07.1992	212	209	Vizag	28.07.1992	810	28.07.1992
573	Unk	U	28.07.1992	212	209	Vizag	28.07.1992	809	Unk
574	Unk	U	28.07.1992	212	209	Vizag	28.07.1992	811	Unk
575	Unk	F	31.07.1992	246	248	Nandankannan	31.07.1992	812	02.10.1992
576	Unk	F	31.07.1992	246	248	Nandankannan	31.07.1992	813	02.10.1992
577	Unk	F	31.07.1992	246	248	Nandankannan	31.07.1992	814	02.10.1992
578	Unk	F	26.07.1992	149	293	Bhilai	26.07.1992	807	
579	Unk	M	21.08.1992	279	275	Nandankannan	21.08.1992	816	
580	Unk	F	21.08.1992	279	275	Nandankannan	21.08.1992	817	
581	Unk	F	21.08.1992	279	275	Nandankannan	21.08.1992	818	
582	Ramu	M	30.08.1992	374	513	Indore	30.08.1992	519	
583	Shamu	M	30.08.1992	374	513	Indore	30.08.1992	520	
584	Sultan	M	17.09.1992	312	413	Bhopal	17.09.1992	819	
585	Shyamli	F	17.09.1992	312	413	Bhopal	17.09.1992	820	
586	Birju	M	19.09.1992	357	404	Bokaro	19.09.1992	821	
587	Birawali	F	19.09.1992	357	404	Bokaro	19.09.1992	822	23.12.1998
588	Unk	F	16.11.1992	212	209	Vizag	16.11.1992	824	
W589	Unk	F	09.12.1992	402	346	Nandankannan	09.12.1992	825	
W590	Unk	F	09.12.1992	402	346	Nandankannan	09.12.1992	826	
591	Unk	M	22.03.1993	446	254	Madras	22.03.1993	827	22.03.1993
592	Unk	M	22.03.1993	446	254	Madras	22.03.1993	828	22.03.1993
593	Unk	F	22.03.1993	446	254	Madras	22.03.1993	829	22.03.1993

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
594	Kartik	M	27.03.1993	313	437	Guwahati	27.03.1993	831	
595	Kamal	M	27.03.1993	313	437	Guwahati	27.03.1993	830	
596	Ashani	F	27.03.1993	313	437	Guwahati	27.03.1993	832	12.12.1993
597	Unk	M	02.05.1993	402	247	Nandakkannan	02.05.1993	834	23.05.1993
598	Unk	F	02.05.1993	402	247	Nandakkannan	02.05.1993	833	
599	Unk	F	02.05.1993	402	247	Nandakkannan	02.05.1993	835	
600	Jeevan	M	03.05.1993	357	404	Bokaro	03.05.1993	838	
601	Jacky	M	03.05.1993	357	404	Bokaro	03.05.1993	837	
602	Johny	M	03.05.1993	357	404	Bokaro	03.05.1993	836	
603	Tiny	F	23.05.1993	222	289	Chatbir	23.05.1993	839	
604	Mini	M	23.05.1993	222	289	Chatbir	23.05.1993	840	
605	Unk	M	16.06.1993	185	384	Junagadh	16.06.1993	843	18.06.1993
606	Unk	M	16.06.1993	185	384	Junagadh	16.06.1993	842	19.06.1993
607	Unk	F	16.06.1993	185	384	Junagadh	16.06.1993	841	01.04.1994
608	Unk	F	16.06.1993	185	384	Junagadh	16.06.1993	844	26.06.1998
609	Unk	M	28.08.1993	365	345	Nandakkannan	28.08.1993	848	
610	Unk	M	28.08.1993	365	345	Nandakkannan	28.08.1993	845	28.08.1993
611	Unk	F	28.08.1993	365	345	Nandakkannan	28.08.1993	846	02.09.1993
612	Unk	F	28.08.1993	365	345	Nandakkannan	28.08.1993	847	
613	Babli	F	18.09.1993	395	304	Chatbir	18.09.1993	849	
614	Santi	F	18.09.1993	395	304	Chatbir	18.09.1993	851	
615	Mitto	F	18.09.1993	394	304	Chatbir	18.09.1993	850	
616	Unk	M	19.09.1993	334	314	Nandakkannan	19.09.1993	852	
617	Mili	F	19.10.1993	373	267	Patna	19.10.1993	853	
618	Sarfraz	M	19.10.1993	373	267	Patna	19.10.1993	854	
W619	Unk	F	23.10.1993	402	347	Nandakkannan	23.10.1993	855	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
W620	Unk	M	23.10.1993	402	347	Nandankannan	23.10.1993	856	
W621	Unk	M	23.10.1993	402	347	Nandankannan	23.10.1993	857	
W622	Unk	M	23.10.1993	402	347	Nandankannan	23.10.1993	858	
623	Unk	M	28.10.1993	446	254	Madras	28.10.1993	859	
624	Unk	M	28.10.1993	446	254	Madras	28.10.1993	860	
625	Unk	F	28.10.1993	446	254	Madras	28.10.1993	861	
626	Unk	F	28.10.1993	446	254	Madras	28.10.1993	862	
627	Unk	F	28.10.1993	446	254	Madras	28.10.1993	863	08.09.1995
628	Unk	U	20.01.1994	272	209	Vizag	20.01.1994	865	20.01.1994
629	Unk	U	20.01.1994	272	209	Vizag	20.01.1994	864	21.01.1994
630	Unk	U	20.01.1994	272	209	Vizag	20.01.1994	866	21.01.1994
631	Bandhvi	F		Wild	Wild	Bhopal	15.12.1990	513	
632	Unk	F	31.07.1992	246	248	Nandankannan	31.07.1992	815	
633	Unk	F	03.04.1989	247	254	Nandankannan	03.04.1989	677	
634	Unk	M	14.08.1991	168	309	Nandankannan	14.08.1991	760	
635	Krishna	M	11.04.1986	224	223	Chatbir	11.04.1986	621	
						Delhi	21.03.1991		
636	Chandni	F	06.02.1988	263	289	Chatbir	06.02.1988	647	
						Delhi	18.03.1999		
637	Vaishali	F	06.03.1988	266	265	Patna	06.03.1988	648	
638	Rakta	F		Wild	Wild	Ranchi	17.03.1991	514	
639	Unk	M		Wild	Wild	Mukki	1993		
640	Unk	F		Wild	Wild	Mukki	1993		
641	Unk	F		Wild	Wild	Mukki	1993		
642	Ganesh	M	24.01.1991	149	293	Bhilai	24.01.1991	743	
643	Lakshmi	F	24.01.1991	149	293	Bhilai	24.01.1991	744	

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
644	Unk	M	30.06.1995	535	470	Tata Zoo	30.06.1995		
645	Unk	M	30.06.1995	535	470	Tata Zoo	30.06.1995		
646	Unk	F	30.06.1995	535	470	Tata Zoo	30.06.1995		
647	Unk	F	30.06.1995	535	470	Tata Zoo	30.06.1995		
648	Sanjay	M	04.08.1991	Wild	Wild	Bangalore	04.08.1991	649	
649	Shruthi	F	04.08.1991	Laxman	Pooja	Bangalore	04.08.1991		
650	Sneha	F	04.08.1991	Laxman	Pooja	Bangalore	04.08.1991		
651	Suhas	M	28.11.1991	Rama	Seetha	Bangalore	28.11.1991		
652	Neethu	F	28.11.1991	Rama	Seetha	Bangalore	28.11.1991		
653	Megha	F	28.11.1991	Rama	Seetha	Bangalore	28.11.1991		
654	Leela	F	28.11.1991	Rama	Seetha	Bangalore	28.11.1991		
655	Anupama	F	31.07.1992			Ahmedabad	09.04.1998		
656	Chamundi	F	25.10.1993	520	236	Shimoga	25.10.1993		
657	Raja	M	02.12.1993			Ahmedabad	09.04.1998		
658	Munni	F	07.06.1994	469	442	Hyderabad	07.06.1994		
659	Murali	M	07.06.1994	469	442	Hyderabad	07.06.1994		16.12.1996
660	Darshan	M	28.11.1994			Mysore	28.11.1994		28.08.1996
661	Rahul	M	08.12.1994	508	481	Hyderabad	08.12.1994		
662	Ramya	F	08.12.1994	508	481	Hyderabad	08.12.1994		
663	Lakshman	M	09.01.1995			Delhi	05.07.1999		
664	Unk	F	08.04.1995	Laxman	Swapna	Chennai (Madras)	08.04.1995		
665	Unk	M	08.04.1995	Laxman	Swapna	Chennai (Madras)	08.04.1995		15.09.1997
666	Unk	F	08.04.1995	Laxman	Swapna	Chennai (Madras)	08.04.1995		11.01.1997
667	Bhadra	F	12.06.1995	520	236	Shimoga	12.06.1995		
668	Kumudwati	F	29.07.1995	520	521	Shimoga	29.07.1995		
669	Madhukeshwara	M	29.07.1995	520	521	Shimoga	29.07.1995		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
670	Seema	F	19.12.1995			Ahmedabad			
671	Bhavani	F	30.01.1996	648	649	Bangalore			30.01.1996
672	Yashoda	F	30.01.1996	648	649	Bangalore			30.01.1996
673	Sunha	F	18.03.1996	589	588	Hyderabad			18.03.1996
674	Sunil	M	22.03.1996	226	667	Mysore			10.07.1996
675	Anil	M	22.03.1996	226	667	Mysore			22.03.1996
676	Madhura	F	22.03.1996	226	667	Mysore			01.09.1997
677	Monghi	F	26.06.1996	415	556	Rajkot			26.06.1996
678	Mohan	M	26.06.1996	415	556	Rajkot			24.10.1998
679	Guru	M	26.07.1996	648	653	Bangalore			26.07.1996
680	Brahma	M	26.07.1996	648	653	Bangalore			26.07.1996
681	Lakshmi	F	26.07.1996	648	653	Bangalore			26.07.1996
682	Tohima	F	30.10.1996	342	350	Kanpur			30.10.1996
						Junagadh			14.11.1998
W683	Aishey	F	30.10.1996	342	350	Kanpur			30.10.1996
						Junagadh			14.11.1996
684	Raja	M	28.01.1997	520	656	Shimoga			28.01.1997
685	Kruthika	F	28.01.1997	520	656	Shimoga			28.01.1997
686	Swathi	F	28.01.1997	520	656	Shimoga			28.01.1997
W687	Anirban	M	28.03.1997			Calcutta			28.03.1997
688	Shantala	F	24.04.1997	520	521	Shimoga			24.04.1997
689	Bharat	M	09.05.1997	-	Vijaya	Mysore			09.05.1997
690	Karishma	F	09.05.1997	-	Vijaya	Mysore			09.05.1997
W691	Kavita	F	30.06.1997	469	442	Hyderabad			30.06.1997
692	Vanitha	F	30.06.1997	469	442	Hyderabad			30.06.1997
693	Ananya	F	16.10.1997			Calcutta			16.10.1997

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
W694	Vinay	F	29.01.1998	469	442	Hyderabad	29.01.1998		
W695	Naina	F	29.01.1998	469	442	Hyderabad	29.01.1998		
696	Harischandra	M	24.03.1998	648	652	Bangalore	24.03.1998		
697	Rajeshwari	F	24.03.1998	648	652	Bangalore	24.03.1998		
698	Tejashwini	F	24.03.1998	648	652	Bangalore	24.03.1998		
699	Gaurav	M	23.04.1998	342	350	Kanpur	23.04.1998		
						Junagadh	14.11.1998		
700	Krishna	M	22.07.1998	648	654	Bangalore	22.07.1998		
701	Radha	F	22.07.1998	648	654	Bangalore	22.07.1998		
702	Lava	M	31.08.1998	648	650	Bangalore	31.08.1998		
703	Kusha	M	31.08.1998	648	650	Bangalore	31.08.1998		
704	Ganga	F	31.08.1998	648	650	Bangalore	31.08.1998		
705	Gauri	F	31.08.1998	648	650	Bangalore	31.08.1998		
706	Mohan	M	22.09.1998	543	412	Itanagar	22.09.1998		24.09.1998
707	Mohini	F	22.09.1998	543	412	Itanagar	22.09.1998		18.01.1999
708	Gauri	F	22.09.1998	543	412	Itanagar	22.09.1998		
709	Unk	M	11.10.1998			Calcutta	11.10.1998		
710	Unk	F	11.10.1998			Calcutta	11.10.1998		
711	Raja	M	27.02.1999	648	650	Bangalore	27.02.1999		
712	Pooja	F	27.02.1999	648	650	Bangalore	27.02.1998		
713	Bharath	M		648	650	Bangalore	27.02.1999		
714	Unk	M	28.02.1999	Raja	Anupama	Ahmedabad	28.02.1999		
715	Unk	M	28.02.1999	Raja	Anupama	Ahmedabad	28.02.1999		
716	Unk	F	28.02.1999	Raja	Anupama	Ahmedabad	28.02.1999		
717	Unk	M	14.03.1999	415	556	Rajkot	14.03.1999		21.04.1999
718	Unk	F	14.03.1999	415	556	Rajkot	14.03.1999		

Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
719	Unk	F	14.03.1999	415	556	Rajkot			14.03.1999
720	Unk	F	14.03.1999	415	556	Rajkot			14.03.1999
721	Ram	M		Wild	Wild	Bhopal			12.06.1994
722	Sita	F		Wild	Wild	Bhopal			12.06.1994
723	Pushpa	F		Wild	Wild	Bhopal			27.07.1996
724	Naresh	M		Wild	Wild	Bhopal			09.08.1998

HISTORICAL LISTING OF WILD TIGERS KEPT IN VARIOUS INDIAN ZOOLOGICAL PARKS

S.No.	Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
1	W1	Mohan	M	1950	Wild	Wild	Rewa	1950	1	19.12.1969
2	2	Begum	F	1951	Wild	Wild	Rewa	1951	2	03.09.1969
3							Ahmedabad	13.06.1957		
4	14	Chandu	M		Wild	Wild	Gauhati	05.02.1959	521	29.12.1961
5	17	Bhola	M		Wild	Wild	Gauhati	03.08.1959	522	16.10.1971
6	30	Ranjit	M		Wild	Wild	Gauhati	14.02.1963	524	10.01.1977
7	31	Ramsingh I	M		Wild	Wild	Hyderabad	02.10.1963	526	28.07.1966
8	32	Rani I	F		Wild	Wild	Hyderabad	02.10.1963	525	21.07.1977
9	39	Suraj	M		Wild	Wild	Delhi	23.04.1965	49	19.04.1975
10	47	Sikha*	F		Wild	Wild	Calcutta	08.09.1965	247	18.11.1974
11							Nandankannan	16.11.1965		
12	48	Pradeep*	M		Wild	Wild	Calcutta	08.09.1965	246	23.11.1973
13							Nandankannan	16.11.1965		
14	53	UNK	U		Wild	Wild	Ahmedabad	03.09.1966	527	25.11.1966
15	54	UNK	U		Wild	Wild	Ahmedabad	03.09.1966	528	02.12.1966
16	59	Ramsingh II*	M		Wild	Wild	Hyderabad	29.03.1967	530	22.10.1980
17	60	Moti	F		Wild	Wild	Hyderabad	29.03.1967	529	22.11.1969
18	77	Rani*	F		Wild	Wild	Nandankannan	28.10.1967	253	23.09.1983
19	84	Jim*	M		Wild	Wild	Delhi	03.11.1968	133	18.06.1979
20	89	Phatik	M		Wild	Wild	Gauhati	13.04.1969	532	03.02.1978
21	96	Syamli	F		Wild	Wild	Gauhati	10.02.1970		10.01.1974
22	113	Raja	M		Wild	Wild	Hyderabad	25.02.1972	533	03.12.1986

S.No.	Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
23	117	Moti*	M		Wild	Wild	Delhi	20.01.1960	170	13.02.1986
24	132	Rani	F		Wild	Wild	Gauhati	07.09.1973	489	28.02.1982
25	133	Raja	M		Wild	Wild	Gauhati	07.09.1973	484	07.01.1983
26	134	Fauzi*	F		Wild	Wild	Gauhati		534	18.05.1985
27							Patna	06.11.1973		
28	139	Chandrapuri	F		Wild	Wild	Gauhati	03.02.1975	535	01.02.1977
29	140	Singri	F		Wild	Wild	Gauhati	12.02.1975	536	05.09.1976
30	141	Dalimi/Gita*	F		Wild	Wild	Gauhati	20.02.1975	485	21.01.1990
31							Chatbir	03.11.1978		
32	142	Unk	M		Wild	Wild	Gauhati	20.02.1975	537	01.05.1975
33	145	Lakhimi	F		Wild	Wild	Gauhati	08.04.1975	538	21.11.1976
34	149	Shankar*	M		Wild	Wild	Rewa	14.01.1976	495	
35							Bhilai			
36	150	Pavai	F		Wild	Wild	Gauhati	30.03.1976	486	
37							Emperor Circus	23.05.1978		
38	160	Duflang	F		Wild	Wild	Gauhati	23.11.1976	539	17.12.1980
39	175	Shankar	M		Wild	Wild	Gauhati	29.10.1977	487	15.08.1993
40	182	Balmarani	F		Wild	Wild	Gauhati	25.09.1980	333	
41							Patna			
42	183	Chatairani	F		Wild	Wild	Gauhati	20.01.1978	540	02.07.1989
43	194	Sonai Rani	F		Wild	Wild	Gauhati	04.07.1978	541	26.02.1989
44	204	Ruparani	F		Wild	Wild	Gauhati	18.06.1979	488	25.08.1980
45	205	Majbotian	M		Wild	Wild	Gauhati	28.06.1979	542	12.07.1979
46	208	Sanjay	M		Wild	Wild	Gauhati	16.08.1979	543	16.03.1987
47	209	Sona*	F		Wild	Wild	Hyderabad	15.11.1979	544	
48							Vizag	20.06.1981		

S.No.	Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
49	217	Rajkumar	M		Wild	Wild	Gauhati	14.06.1980	490	05.04.1993
50	218	Rajkumari	F		Wild	Wild	Gauhati	14.06.1980	545	05.05.1989
51	219	Lakhi	M		Wild	Wild	Gauhati	23.06.1980	546	21.11.1980
52	220	Ajoy*	M		Wild	Wild	Calcutta	22.08.1980	595	05.12.1991
53	224	Balram	M		Wild	Wild	Gauhati	25.12.1980	547	22.12.1988
54							Chatbir			
55	225	Arjun	M		Wild	Wild	Hyderabad	02.01.1981	492	26.01.1995
56	226	Sanjay	M		Wild	Wild	Hyderabad	02.01.1971	494	
57							Banherghata	1991		
58	227	Sheela	F		Wild	Wild	Hyderabad	02.01.1981	493	17.10.1997
59	251	Rajia	F		Wild	Wild	Gauhati	21.11.1981	548	07.03.1982
60	268	Karuna	F		Wild	Wild	Gauhati	31.07.1983	549	01.12.1983
61	283	Shieladevi	F		Wild	Wild	Gauhati	19.01.1984	550	02.01.1988
62	284	Sheroo	M		Wild	Wild	Kanpur	02.03.1984	240	08.04.1989
63	299	Atmaram	M		Wild	Wild	Hyderabad	01.04.1985	499	03.12.1992
64.	300	Shankar	M		Wild	Wild	Gauhati	19.04.1985	498	05.08.1993
65	311	Suheli	F		Wild	Wild	Lucknow	18.09.1983	506	
							Delhi			
67	312	Shyamu*	M		Wild	Wild	Bhupal	18.09.1983	613	
68	318	Dhitoo*	M		Wild	Wild	Kanpur	18.12.1985	241	21.10.1990
69	327	Joy	M	04.05.1986	Wild	Wild	Darjeeling	04.05.1986	242	
70							Nandankannan			
71	360	Vikram*	M		Wild	Wild	Itanagar	23.01.1987		01.11.1993
72	361	Sharu	M		Wild	Wild	Aurangabad	26.02.1987	552	
73	362	Moti	M		Wild	Wild	Guna			28.10.1990
74							Bhopal	03.01.1987		

S.No.	Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
75	363	Tara	F		Wild	Wild	Guna	03.01.1987		
76							Bhopal	29.09.1987		
77							Shivpuri			
78	367	Chilka	M		Wild	Wild	Lucknow	16.04.1987	502	21.02.1995
79	374	Sagar*	M		Wild	Wild	Sagar	07.05.1987	503	
80							Indore	03.01.1992		
81	393	Manas	M		Wild	Wild	Gauhati	23.11.1987	553	27.12.1987
82	396	Rajkumar	M		Wild	Wild	Gauhati	22.02.1988	554	
83							Agartala	15.02.1989		
84	399	Unk	M		Wild	Wild	Vizag	20.04.1988	555	09.05.1988
85	400	Unk	M		Wild	Wild	Vizag	20.04.1988	557	13.05.1988
86	401	Unk	F		Wild	Wild	Vizag	20.04.1988	556	14.05.1988
87	412	Rani*	F		Wild	Wild	Itanagar	19.07.1988	497	
88	413	Mohini*	F		Wild	Wild	Bhopal	16.08.1988	507	
89	424	Rudramudu	M		Wild	Wild	Hyderabad	19.01.1988	509	
90	433	Manasi	F		Wild	Wild	Gauhati	24.03.1989	558	
91	435	Radha	F		Wild	Wild	Gauhati	24.03.1989	558	
92	466	Rita	F		Wild	Wild	Calcutta	17.01.1990	510	13.09.1994
93	467	Myna	F		Wild	Wild	Hyderabad	19.03.1990	511	04.02.1998
94	506	Rajkumari	F		Wild	Wild	Gauhati	03.01.1991	559	03.05.1992
95	510	Mayadevi*	F		Wild	Wild	Indore	01.04.1991	515	
96	512	Mohini	F		Wild	Wild	Patna	10.04.1991	512	
97	527	Rupak	M		Wild	Wild	Gwalior	27.09.1991	560	
98	541	Sundari	F		Wild	Wild	Calcutta	08.01.1992	496	

S.No.	Stud	Name	Sex	Birth Date	Sire	Dam	Location	Since	ISB	Death Date
99	547	Mallika	F		Wild	Wild	Hyderabad	19.03.1992	561	28.12.1993
100	631	Bandhavi	F		Wild	Wild	Bhopal	15.12.1990	513	
101	638	Rakta	F		Wild	Wild	Ranchi	17.03.1991	514	
102	639	Kanta	M		Wild	Wild	Mukki/Lucknow	1993		
103	640	Sundri	F		Wild	Wild	Mukki/Lucknow	1993		
104	641	Lajwanti	F		Wild	Wild	Mukki/Lucknow	1993		
105	648	Sanjay	M	04.08.1991	Wild	Wild	Bangalore	04.08.1991	649	
107	721	Ram	M		Wild	Wild	Bhopal	12.06.1994		
108	722	Sita	F		Wild	Wild	Bhopal	12.06.1994		
109	723	Pushpa	F		Wild	Wild	Bhopal	27.07.1996		
110	724	Naresh	M		Wild	Wild	Bhopal	09.08.1998		

ZOO WISE POPULATION OF BENGAL TIGERS

State	Name of the Zoo	Stud. No.	Sex Ratio
Andhra Pradesh	1. Indira Gandhi Zological Park, Visakhapatnam	209, 212, 213, 420, 494	2 : 3
	2. Nehru Zoological Park, Hyderabad	186, 259, 260, 316, 424, 442, 443, 468, 539, 549, 661, 662, 673, 691, 692, 694, 695	7 : 11
Arunachal Pradesh	Itanagar Zoological Park, Itanagar	412, 460, 542, 543, 544, 708	3 : 3
Assam	Assam State Zoo, Guwahati	313, 433, 435, 518, 519, 594, 595	4 : 3
Bihar	1. Bhagwan Birsa Biological Park, Ranchi	261, 434, 638	0 : 3
	2. Jawaharlal Nehru Biological Park, Bokaro	404, 586, 600, 601, 602	4 : 1
	3. Sanjay Gandhi Biological Park, Patna	266, 267, 368, 372, 373, 512, 530, 531, 569, 570, 617, 618, 637	3 : 10
	4. Tata Steel Zoological Park, Jamshedpur	644, 645, 646, 647	2 : 2
Delhi	National Zoological Park, Delhi	202, 230, 311, 369, 481, 516, 517, 567, 568, 635, 636, 663	7 : 5
Gujarat	1. Kamala Nehru Zoo, Ahmedabad	334, 382, 655, 657, 670, 714, 715, 716	4 : 4
	2. Municipal Zoo, Rajkot	415, 416, 556, 677, 718, 719, 720	1 : 6
	3. Sakkarbaug Zoo, Junagadh	414, 552, 682, 683, 699	2 : 3
	4. Sayaji Bagh Zoo, Baroda	285, 345, 564, 566	2 : 2
Karnataka	1. Bannerghatta National Park	226, 648, 649, 650, 651, 652, 653, 654, 671, 672, 679, 680, 681, 696, 697, 698, 700, 701, 702, 703, 704, 705, 711, 712, 713	11 : 14
	2. Sri Chamarajendra Zoological Park, Mysore	471, 497, 545, 674, 689, 690	4 : 2
	3. Tiger Safari, Simoga	236, 520, 521, 656, 667, 668, 669, 684, 685, 686, 688	3 : 8

State	Name of the Zoo	Stud. No.	Sex Ratio
Madhya Pradesh	1. Gandhi Zoological Park, Gwalior 2. Madhav National Park, Shivpuri 3. Maitri Bagh Zoological Park, Bhilai 4. Kamala Nehru Prani Udyam, Indore 5. Vanvihar National Park, Bhopal	349, 410, 527 363 149, 293, 578, 642, 643 374, 510, 582, 583 312, 370, 413, 584, 585, 631, 721, 722, 723, 724	3 : 0 0 : 1 2 : 3 3 : 1 5 : 5
Maharashtra	1. Hutatmabagh Zoological Park, Sholapur 2. Maharajbagh Zoo, Nagpur 3. Aurangabad Zoo, Aurangabad 4. Peshwe Park Zoological Garden, Pune	276, 301 245, 286, 447, 448, 511 361 308, 445, 503, 504, 505	1 : 1 2 : 3 1 : 0 3 : 2
Orissa	Nandankanan Zoological Park, Bhubaneswar	173, 214, 246, 248, 252, 253, 275, 277, 278, 279, 309, 310, 314, 327, 346, 347, 353, 365, 366, 402, 403, 437, 453, 454, 472, 477, 483, 484, 485, 486, 487, 498, 499, 523, 524, 536, 537, 555, 557, 559, 558, 579, 580, 581, 589, 590, 609, 612, 616, 619, 620, 621, 622, 632, 633, 634	29 : 27
Punjab	1. M.C. Zoological Park, Chatbir 2. Tiger Safari, Ludhiana	198, 221, 222, 223, 304, 323, 343, 395, 479, 480, 500, 533, 613, 614, 615 262, 263, 303, 438, 440, 441	10 : 5 3 : 3
Rajasthan	1. Bikaner Zoo 2. Jaipur Zoo 3. Kota Zoo 4. Udaipur Zoo	307 280 306 305	0 : 1 0 : 1 1 : 0 1 : 0

State	Name of the Zoo	Stud. No.	Sex Ratio
Tamil Nadu	Arignar Anna Zoological Garden, Chennai	254, 444, 478, 623, 624, 625, 626	3 : 4
	V.O.C. Park, Coimbatore	250	0 : 1
Tripura	Sephajala Zoological Park, Agartala	396	1 : 0
Uttar Pradesh	1. Kanpur Zoo	341, 342, 350, 408	1 : 3
	2. Prince of Wales Zoological Garden, Lucknow	439, 482	1 : 1
West Bengal	Alipore Zoological Garden, Calcutta	319, 320, 321, 364, 476, 541, 687, 693, 709, 710	6 : 4

HISTORICAL LISTING OF TIGERS OF UNKNOWN LINEAGE

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
1.	Titoo		M	Unk	Unk	Bombay	11.08.62	28.01.81
2.	Koyani		F	Unk	Unk	Bombay	20.12.63	03.12.77
3.	Unk	01.01.64	M	Unk	Unk	Trivandrum	01.01.64	
4.	Radha		F	Unk	Unk	Mysore	01.01.68	08.04.89
5.	Krishna		M	Unk	Unk	Mysore	01.01.68	03.09.94
6.	Shobha		F	Unk	Unk	Trivandrum	09.03.71	
7.	Unk		M	Unk	Unk	Trichur	23.05.71	04.06.81
8.	Unk	03.09.72	F	3	6	Trivandrum	03.09.72	
9.	Unk	03.09.72	M	3	6	Trivandrum	03.09.72	
10.	Unk	03.09.72	F	3	6	Trivandrum	03.09.72	
11.	Unk		F	Unk	Unk	Trichur	25.12.72	25.12.72
12.	Pandyā		M	Unk	Unk	Bombay	09.01.73	
13.	Rani		F	Unk	Unk	Bombay	09.01.73	
14.	Unk		F	Unk	Unk	Trichur	26.08.73	04.09.80
15.	Unk	3.10.74	M	3	6	Trivandrum	03.10.74	
16.	Unk	03.10.74	F	3	6	Trivandrum	03.10.74	
17.	Unk	03.10.74	F	3	6	Trivandrum	03.10.74	
18.	Unk	03.10.74	F	3	6	Trivandrum	03.10.74	

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
19.	Raja/Rama		M	5	4	Bannerghata	28.10.74	
20.	Rani/Seetha		F	5	4	Bannerghata	28.10.74	
21.	Reena	21.10.75	F	5	4	Mysore	21.10.75	
22.	Satybhama	21.10.75	F	5	4	Mysore	21.10.75	
23.	Jambavathi	21.10.75	F	5	4	Mysore	21.10.75	12.02.90
24.	Unk		F	5	4	Mysore	30.11.75	14.07.76
25.	Unk		F	5	4	Bombay	30.11.75	19.07.76
26.	Idumbi	05.06.76	F	5	114ISN	Mysore	05.06.76	
27.	Thatiki	05.06.76	F	5	114ISN	Mysore	05.06.76	
28.	Surpaneka	05.06.76	F	5	114ISN	Mysore	05.06.76	
29.	Unk	05.04.77	U	5	114ISN	Mysore	05.04.77	
30.	Aruna	01.08.77	M	5	114ISN	Mysore	01.08.77	
31.	Anita	01.08.77	F	5	114ISN	Mysore	01.08.77	
32.	Abhilash	01.08.77	F	5	114ISN	Mysore	01.08.77	
33.	Unk	01.08.77	F	5	114ISN	Mysore	01.08.77	
34.	Saraswathi	18.03.78	F	5	4	Mysore	18.03.78	
35.	Laxmi	18.03.78	F	5	4	Punc		
36.	Ganga	18.03.78	F	5	4	Aurangabad		
37.	Unk	05.04.79	U	5	114ISN	Mysore	05.04.79	

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
38.	Deepa	20.10.79	F	5	114ISN	Circus	20.10.79	
39.	Pradeepa	20.10.79	F	5	114ISN	Mysore	20.10.79	
40.	Bandeepa	20.10.79	F	5	114ISN	Mysore	20.10.79	
41.	Tipu	04.07.80	M	5	4	Mysore	04.07.80	
42.	Mumtaj	04.07.80	M	5	4	Mysore	04.07.80	
43.	Safdar	04.07.80	M	5	4	Mysore	04.07.80	
44.	Gumnaz	04.07.80	M	5	4	Mysore	04.07.80	
45.	Madhu/Manoj	21.01.81	M	5	114ISN	Jaipur		
46.	Manu	21.01.81	M	114ISN	Mysore			
47.	Manju	21.01.81	F	5	114ISN	Mysore		
48.	Amar	29.01.81	M	30	31	Pune		
49.	Akbar	29.01.81	M	30	31	Pune		
50.	Anthony	29.01.81	M	30	31	Pune	09.12.91	
51.	Sunitha	20.11.81	F	30	31	Bombay		
52.	Bharat	20.11.81	M	30	31	Bombay		
53.	Sunitha	20.11.81	M	30	31	Bombay		
54.	Sujata	20.11.81	F	30	31	Bombay		
55.	Nanda		F	19	20	Ahmedabad	19.12.91	03.12.93
56.	Jammavi		F	19	20	Ahmedabad	19.12.91	07.12.91

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
57.	Vishnu		M	5	4	Ahmedabad	11.03.82	
58.	Saraswathi		F	5	4	Ahmedabad	11.03.82	
59.	Shiva		M	5	114ISN	Calcutta	06.04.83	
60.	Ganga/Leena	05.08.82	M	5	114ISN	Calcutta	06.04.83	
61.	Lata	05.08.82	M	5	114ISN	Bhopal		
62.	Parvathi	05.08.82	M	5	114ISN	Mysore	05.05.82	
63.	Unk	16.06.83	M	19	20	Trichur		29.08.84
64.	Unk	18.06.83	F	19	20	Trichur		
65.	Smitha	18.06.83	F	19	20	Bannerghata		
66.	Laxman	18.06.83	M	19	20	Bannerghata		
67.	Rohidha	18.06.83	M	19	20	Trivandrum		
68.	Chanukya	21.06.83	M	5	114ISN	Mysore	21.06.83	
69.	Ramya	21.06.83	M	5	114ISN	Mysore	21.06.83	
70.	Soamya	21.06.83	F	5	114ISN	Mysore	21.06.83	
71.	Sonia	21.06.83	F	5	114ISN	Trivandrum		
72.	Dora	19.04.84	M	5	114ISN	Aurangabad		01.05.86
73.	Meera	19.04.84	F	5	114ISN	Trivandrum		10.01.88
74.	Heera	19.04.84	F	5	114ISN	Trivandrum		14.01.89
75.	Neena	09.07.84	F	19	20	Mysore	09.07.84	

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
76.	Meena	09.07.84	F	19	20	Mysore	09.07.84	
77.	Reena	09.07.84	F	19	20	Coimbatore		
78.	Darshan	28.09.84	M	30	31	Mysore	28.09.84	
79.	Priyadarshini	28.09.84	F	30	31	Mysore	28.09.84	
80.	Unk	28.09.84	F	30	31	Trivandrum	28.09.84	
81.	Unk	28.09.84	M	30	31	Trichur	08.12.84	
82.	Unk	28.09.84	M	30	31	Jaipur	19.04.85	
83.	Ajay	16.07.85	M	19	20	Mysore	16.07.85	
84.	Abhay	16.07.85	M	19	20	Mysore	16.07.85	
85.	Unk	15.08.85	M	45	54	Jaipur	15.08.85	15.08.85
86.	Unk	15.08.85	M	45	54	Jaipur	15.08.85	16.08.85
87.	Reena		F	5	4	Aurangabad	24.08.85	
88.	Ruhi		F	5	4	Aurangabad	24.08.85	
89.	Unk	25.09.85	U	30	31	Trivandrum	25.09.85	
90.	Unk	25.09.85	U	30	31	Trivandrum	25.09.85	
91.	Unk	25.09.85	U	30	31	Trivandrum	25.09.85	
92.	Binto/Dora		M	5	114ISN	Aurangabad	24.10.85	01.05.86
93.	Unk	09.01.86	M	21	22	Jaipur	09.01.86	11.01.86
94.	Unk	09.01.86	M	21	22	Jaipur	09.01.86	15.01.86

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
95.	Maya	14.08.86	F	5	114ISN	Kota	14.08.86	18.08.86
96.	Unk	14.08.86	M	5	114ISN	Mysore	14.08.86	18.08.86
97.	Lakshmi	14.08.86	F	5	114ISN	Udaipur	14.08.86	
98.	Mandavi/ Lakshmi	14.08.86		5	114ISN	Udaipur	14.08.86	
99.	Unk	16.06.86	M	21	22	Mysore	16.10.86	
100.	Unk	16.06.86	M	21	22	Mysore	16.10.86	
101.	Unk	16.06.86	F	21	22	Mysore	16.10.86	
102.	Unk	16.06.86	F	21	22	Mysore	16.10.86	
103.	Parvathi		F	46	42	Coimbatore	25.11.86	
104.	Paitu	22.03.87	M	312INS	61	Shivpuri	22.03.87	
105.	Chotu	22.03.87	M	312INS	61	Bhopal	22.03.87	
106.	Malti	22.03.87	M	5	114ISN	Calcutta		
107.	Riju	21.05.87	M	5	114ISN	Calcutta		
108.	Begum	21.05.88	F	5	114ISN	Calcutta		
109.	Divya	16.10.87	F	67	57	Mysore	16.10.87	
110.	Bhavya	16.01.87	F	67	57	Mysore	16.10.87	
111.	Balu	16.10.87	F	67	57	Trivandrum	28.01.88	
112.	Sarasu	16.10.87	F	67	57	Trivandrum	28.01.88	
113.	Unk	23.03.88	U	80	64	Trichur	23.03.88	23.03.88

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
114.	Unk	19.04.88	F	21	22	Jaipur	19.04.88	
115.	Rohini	19.04.88	F	21	22	Jaipur	19.04.88	
116.	Mohan	19.04.88	M	21	22	Jaipur	19.04.88	
117.	Sohan	19.04.88	M	21	22	Jodhpur		
118.	Unk	11.06.88	M	30	31	Trivandrum	11.06.88	15.02.89
119.	Unk	11.06.88	M	30	31	Trivandrum	11.06.88	14.11.89
120.	Unk	11.06.88	F	30	31	Trivandrum	11.06.88	25.05.89
121.	Unk	01.07.88	U	67	23	Trivandrum	01.07.88	
122.	Unk	01.07.88	U	67	23	Trivandrum	01.07.88	
123.	Unk	01.07.88	U	67	23	Trivandrum	01.07.88	
124.	Unk	25.09.88	F	80	64	Trichur	25.09.88	25.02.89
125.	Unk	25.09.88	F	80	64	Trichur	25.09.88	01.03.89
126.	Unk	25.09.88	M	80	64	Trichur	25.09.88	
127.	Unk	30.06.89	U	305INS	96	Udaipur	30.06.89	03.07.89
128.	Unk	30.06.89	U	305INS	96	Udaipur	30.06.89	07.07.89
129.	Unk	30.06.89	U	305INS	96	Udaipur	30.06.89	07.07.89
130.	Unk	16.08.89	F	306INS	94	Kota	16.08.89	18.02.90
131.	Unk	20.11.89	F	74	78	Mysore	20.11.89	
132.	Unk	20.11.89	F	74	78	Mysore	20.11.89	

Stud.No.	Stud Name	Date of Birth	Sex	Sirc	Dam	Location	Since	Date of Death
133.	Unk	20.11.89	F	74	78	Mysore	20.11.89	
134.	Kiran	16.08.89	F	306INS	94	Kota	16.08.89	
135.	Suraj	16.08.89	M	306INS	94	Kota	16.08.89	
136.	Kusha	23.01.90	M	66	65	Shimoga	23.01.90	16.08.93
137.	Lava	23.01.90	M	66	65	Bellary	23.01.90	
138.	Thunga	23.01.90	F	66	65	Mysore	23.01.90	
139.	Bhadna	23.01.90	F	66	65	Bannerghata	23.01.90	
140.	Unk	22.02.90	U	41	31	Trivandrum	22.02.90	
141.	Unk	22.02.90	F	41	31	Trivandrum	22.02.90	
142.	Unk	28.02.90	M	15	16	Trichur		02.03.90
143.	Raja	28.02.90	M	15	16	Trivandrum	28.02.90	
144.	Rani	28.02.90	F	15	16	Trivandrum	28.02.90	
145.	Rani	28.02.90	F	15	16	Trivandrum	28.02.90	
146.	Raja	28.02.90	M	15	16	Trivandrum	28.02.90	
147.	Unk	09.12.90	M	305INS	96	Udaipur	09.12.90	09.12.90
148.	Suraj	09.12.90	M	305INS	96	Bikaner		
149.	Unk	09.12.90	M	305INS	96	Udaipur	09.12.90	
150.	Unk	28.12.90	F	78	77	Mysore	28.12.90	
151.	Unk	10.03.91	F	45	54	Jaipur	10.03.91	

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
152.	Shera	10.03.91	F	45	54	Jaipur	10.03.91	14.03.91
153.	Reshma	10.03.91	M	45	54	Jaipur	10.03.91	
154.	Gaurav	21.04.91	M	315	96	Udaipur	21.04.91	
155.	Prashant	21.04.91	M	315	96	Udaipur	21.04.91	
156.	Shavitri	21.04.91	F	315	96	Udaipur	20.04.91	07.07.91
157.	Priyanka (W)	03.07.91	F	78	77	Mysore	03.07.91	
158.	Unk	03.07.91	U	78	77	Mysore	03.07.91	
159.	Unk	03.07.91	U	78	77	Mysore	03.07.91	
160.	Unk	03.07.91	U	78	77	Mysore	03.07.91	
161.	Bhivani	22.08.91	M	103	363INS	Shivpuri	22.08.91	
162.	Shiva	22.08.91	M	103	363INS	Shivpuri	22.08.91	
163.	Shivani	22.08.91	F	103	363INS	Shivpuri	22.08.91	
164.	Mita	05.09.91	F	59	60	Calcutta	05.09.91	
165.	Bob	05.09.91	M	59	60	Calcutta	05.09.91	
166.	Chanda	02.11.91	M	306INS	94	Kota	02.11.91	
167.	Chandani	02.11.91	F	306INS	94	Kota	02.11.91	
168.	Unk	28.11.91	M	19	20	Bannerghata	28.11.91	
169.	Unk	28.11.91	F	19	20	Bannerghata	28.11.91	
170.	Unk	28.11.91	F	19	20	Bannerghata	28.11.91	

Stud.No.	Stud Name	Date of Birth	Sex	Sirc	Dam	Location	Since	Date of Death
171.	Unk	03.05.92	F	80	64	Trichur	03.05.92	14.07.93
172.	Unk	03.05.92	M	80	64	Trichur	03.05.92	
173.	Sohan	19.05.92	M	50	307INS	Bikaner	19.05.92	
174.	Rukma	19.05.92	F	150	307INS	Bikaner	19.05.92	
175.	Chanda	19.05.92	F	150	307INS	Bikaner	19.05.92	
176.	Rakhi	13.08.92	F	45	54	Jaipur	13.08.92	13.11.92
177.	Unk	01.01.93	M	103	363INS	Shivpuri	01.01.93	
178.	Unk	01.01.93	F	103	363INS	Shivpuri	01.01.93	
179.	Unk	01.01.93	F	103	363INS	Shivpuri	01.01.93	
180.	Unk	01.01.93	F	103	363INS	Shivpuri	01.01.93	
181.	Unk	28.04.93	M	45	54	Jaipur	28.04.93	
182.	Unk	28.04.93	M	45	54	Jaipur	28.04.93	
183.	Unk	28.04.93	F	45	54	Jaipur	28.04.93	
184.	Kiran	12.05.93	F	305INS	96	Udaipur	12.05.93	
185.	Badal	12.05.93	M	205INS	96	Udaipur	12.05.93	
186.	Gora	12.05.93	M	305INS	96	Udaipur	12.05.93	
187.	Unk	25.05.93	F	104	105	Bhopal	25.05.93	
188.	Unk	25.05.93	M	104	105	Bhopal	25.05.93	
189.	Unk	25.05.93	M	104	105	Bhopal	25.05.93	

Stud.No.	Stud Name	Date of Birth	Sex	Sire	Dam	Location	Since	Date of Death
190.	Unk	25.05.93	F	104	105	Bhopal	25.05.93	
191.	Unk	27.06.93	F	306INS	94	Kota	27.06.93	
192.	Unk	27.06.93	M	306INS	94	Kota	27.06.93	
193.	Unk (W)	27.09.93	F	78	77	Mysore	27.09.93	
194.	Unk (W)	27.09.93	F	78	77	Mysore	27.09.93	
195.	Unk (W)	27.09.93	F	78	77	Mysore	27.09.93	
196.	Unk	01.10.93	F	116	243INS	Jodhpur	01.10.93	
197.	Unk	20.11.93	F	19	20	Bannerghata	20.11.93	
198.	Unk	20.11.93	F	19	20	Bannerghata	20.11.93	
199.	Unk	21.11.93	U	306INS	94	Kota	21.11.93	
200.	Unk	21.11.93	U	306INS	94	Kota	21.11.93	
201.	Unk	21.11.93	U	306INS	94	Kota	21.11.93	
202.	Moohambika	25.10.93	F	135	236INS	Shimoga	25.10.93	
203.	Jamundi	25.10.93	F	135	236INS	Shimoga	25.10.93	

APPENDIX I

PLANNED BREEDING OF BENGAL TIGERS (ANON. 1995)

A meeting on the various aspects of the planned breeding of Bengal Tigers was held on 28.2.95 at Bhubaneswar. The following recommendations were made taking into consideration the various aspects of tiger management in relation to planned breeding of Bengal Tigers.

1. The following zoos were identified as participating zoos of the country for planned breeding of Bengal tiger. Each zoo may make available one enclosure for this purpose.
 - (a) Sri Chamarajendra Zoological Garden, Mysore
 - (b) Arignar Anna Zoological Park, Chennai
 - (c) Nehru Zoological Park, Hyderabad
 - (d) Nandankanan Zoological Park, Bhubaneswar
 - (e) Sanjay Gandhi Zoological Park, Patna
 - (f) Alipore Zoological Garden, Calcutta
 - (g) Assam State Zoo, Guwahati
 - (h) M.C. Zoological Park, Chatbir
 - (i) National Zoological Park, Delhi
2. Only the 29 identified wild origin Bengal tigers available in the zoos of the country will participate in the planned breeding programme to begin with, other wild origin tigers shall be taken into the programme whenever they come.
3. The tigers to be selected for pairing out of 29 wild origin Bengal tigers already identified will be decided by the species coordinator in consultation with Dr. A.K. Roychoudhury.

4. The age, size, health and reproductive capacity of all animals are to be taken into consideration before deciding on the pairing of the animals.
5. Before sending the tigers from one zoo to the other for inclusion in planned breeding programmes, all the identified wild origin Bengal tigers should be tattooed or marked with transponders for individual identification and follow up action.
6. A half-yearly performance report of the participating tigers has to be sent to the species coordinator by the participating zoos. The proforma for the half yearly report will be circulated by the species coordinator.
7. Gene Resource Bank under this programme can be entrusted to C.C.M.B. Hyderabad.
8. (a) Efforts should be made to maintain the present level of tiger population outside the planned breeding at least for five years.
9. A middle level manager or the zoo veterinarian of each participating zoo can be trained on all aspects of tiger management who in turn should train keepers in respective zoos.
10. A husbandry manual for Bengal tiger is to be prepared by the species coordinator. For this information should be made available to the species coordinator by different zoos. Central Zoo Authority may provide financial assistance for this.
11. Expert opinion may be obtained if the spacing between births need be adopted for planned breeding programme.
12. All participating animals should be vaccinated with all available Feline vaccines.
13. In case any disease, epidemic or health problem is noticed in any zoo, such information should be circulated to all other participating zoos for taking preventive measures in the respective zoos.
14. As it is not possible to meet the expense on transportation and handling of these animals, enclosure improvement, vaccines, feline milk powder and other aspects of this programme by the participating zoos, it is recommended that Central Zoo Authority should provide financial support for these items under this programme.

A second meeting on the planned captive breeding of Bengal tigers was held on 24.4.96 at Indian Institute of Wildlife Management, Bhopal. The following recommendations were adopted in the meeting (Anon., 1996)

1. No price tag is to be attached with the animals, which are to be transferred from different zoos.

2. Double marking system - transponder and a tattoo mark on the thigh, is to be followed.
3. The planned captive-breeding programme would be behind the curtain. No such animals are to be displayed in zoos.
4. It will be responsibility of the receiving zoo to arrange for the transport of animals.
5. It will be the responsibility of the receiving zoo to arrange for the transport of animals.
6. Only one male and one female is to be kept in one enclosure.
7. Each individual animal is to be given ISD and ISIS number.

APPENDIX II

MOLECULAR CHARACTERIZATION OF WILD ANIMALS BY DNA FINGERPRINTING FOR THEIR BETTER MANAGEMENT IN INDIAN ZOOLOGICAL GARDENS (SINGH, L., 1998)

Summarized below are the findings of the project on 'Molecular Characterization of Wild Animals by DNA Fingerprinting for their better Management in Indian Zoological Gardens' conducted by Dr. Lalji Singh of Center for Cellular and Molecular Biology, Hyderabad.

The main objectives of the present study with reference to Bengal tigers were :

1. Molecular characterization of tigers in Indian zoos.
2. Identification and characterization of hybrid tigers.

Findings

Karyotype : The karyotype showed chromosomal conservation with $2n = 38$. Markedly reduced levels of heterochromatin and poor G and C banding was observed.

DNA Fingerprinting : Multilocus fingerprinting with Bkm 2(8) probe was performed using several restriction enzymes (Hin f1, Taq 1, BstN 1, Hae III, and Mbo 1). Bkm 2(8) probe in combination with Hin f1 restriction enzyme revealed polymorphism in Indian tigers. 25-27 bands were scored per individual in the 1 kb-8 kb molecular weight range. Majority of the polymorphic bands formed were in the 2 kb-6 region. An average heterozygosity of 28% was observed.

Microsatellite analysis : Microsatellite analysis was carried out on five CA repeat loci, which are polymorphic in the fields. Microsatellite analysis of 30 Indian tigers revealed an average heterozygosity of 22.65% at three of the five loci. Two of the loci were monomorphic. The levels of variability revealed are much higher than reported and are comparable to any other large outbred population of wild animal. The Siberian tigers showed an average heterozygosity of 29.9% in the loci tested. The Siberian tigers could be differentiated from their Indian counterparts by the microsatellite pattern at locus Fca 126.

Microsatellite analysis of fifteen skin samples of tigers, ranging in age from 50 to 125 years was performed. The average heterozygosity observed was 21.012% and the difference between the present and past populations was not statistically significant. Only those loci, which are polymorphic in the present population showed polymorphism in individuals 50-125 years ago. The loci found to be monomorphic in the present population are found to be monomorphic in the ancient population as well.

Mitochondrial D loop sequence analysis : An average nucleotide diversity of 8% was observed among the Indian and Siberian tiger sequences, which translates to a divergence time of 80,000 to 100,000 years. Sequence of the Cytochrome b region showed a single transition from 'G' to 'A' in all the Siberian tigers at position 342.

Analysis of Hair Samples : Hair samples of two suspected Indian and Siberian tiger hybrid were tested to confirm hybridization. The analysis of locus Fca 126 revealed that both animals had alleles contributed by each of the species. Mitochondrial Cytochrome b sequence from the hair samples showed 'G' in that particular position indicating an Indian tiger haplotype. Since Mitochondria are strictly maternally inherited, the results indicate that these animals had an Indian tiger mother. The Microsatellite data coupled with the present study suggests that the tigers of Dudhwa could be hybrids of Indian and Siberian tigers.

Immune Diversity : MHC class I locus, which plays an important role in the immune system was sequenced to determine the genetic variability. Abundant polymorphisms was observed in the Indian tigers. This data suggests that these species possess significant amounts of immune diversity comparable to any other wild animal, contrary to earlier reports.

DNA extraction from scats : A rapid and simple procedure has been developed for the extraction of DNA from scats. The procedure takes one hour to perform with the minimal laboratory requirements. This non-invasive procedure avoids trauma to the animal due to tranquilization and avoids complications during anesthesia. The DNA extracted can be used for routine genetic monitoring of wild animals would become feasible.

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