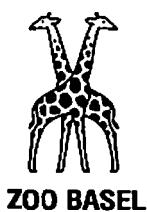
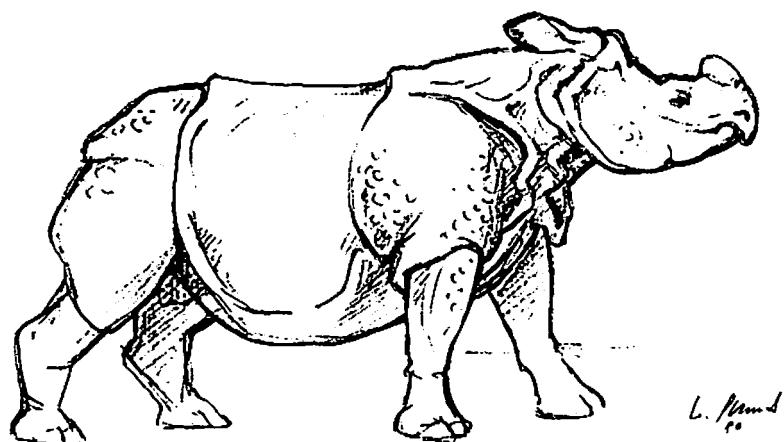


INTERNATIONAL STUDBOOK

1998

**GREATER ONE-HORNED RHINOCEROS
RHINOCEROS UNICORNIS (LINNÉ 1758)**



**International Studbook
for the
Greater One-Horned Rhinoceros
Rhinoceros unicornis (Linné 1758)**

Report date 31 December 1998

**International Studbook Keeper
Dr. Gabriele Wirz-Hlavacek**

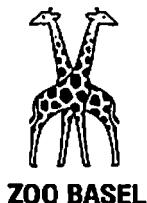
Zoo Basel

**Scientific Adviser
Dr. Samuel Zschokke**

University of Basel

**EEP Species Coordinator
Dr. Peter Studer**

Zoo Basel



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Introduction

I would like to thank all the zoos and institutions that keep Greater one-horned rhinoceros for their cooperation which allows me to keep and update this studbook every year. Of the 53 institutions, 35 responded to our annual questionnaire. All the data of the annual reports returned by 15 March 1999 have been considered in this edition of the studbook.

Thanks too to Dr. Samuel Zschokke, Department of Integrative Biology, section Conservation Biology (director Prof. Dr. B. Baur), University of Basel, who has carried out the demographic and genetic analyses for this studbook.

Further thanks are due to the IUCN/SSC Asian Rhino Specialist Group (AsRSG), who allowed me to publish the latest estimated numbers of Asian Rhinos in protected areas in the wild.

Based on the book by L. C. Rookmaaker , 'The Rhinos in Captivity (1998)', the following studbook numbers have changed their entry of first location to Gauhati, and some breeder names have also changed since the location of capture could be exactly defined.

First location Gauhati:

Stud# 33	Stud# 91	Stud# 155
Stud# 46	Stud# 92	Stud# 156
Stud# 48	Stud# 94	Stud# 194
Stud# 66	Stud# 95	Stud# 215
Stud# 67	Stud# 128	Stud# 216
Stud# 73	Stud# 151	Stud# 217
Stud# 76	Stud# 153	Stud# 218
Stud# 81	Stud# 154	

The new breeder names are:

Stud# 24: Kaz 39	Stud# 73: Assam 33
Stud# 25: Kaz 41	Stud# 76: Assam 32
Stud# 30: Kaz 49	Stud# 81: Kaz 43
Stud# 48: Kaz 42	Stud# 154: Assam 34

Thank you very much for your good cooperation.

Gabriele Wirz-Hlavacek
International Studbook Keeper



Biological Data

Greater One-Horned Rhinoceros

Distribution: northern India, southern Nepal

Population status: seriously endangered, CITES Appendix I

Habitat: floodplains, riverine grasslands, marshlands, not far from water

Food: grass, leaves, twigs, fruit

Behaviour: solitary, except mother-calf units, sometimes groups of subadults

Reproduction: one calf

Birth weight: 55.5 – 90 kg

Gestation length: approximately 16 months (480 days)

Oestrus cycle: 36 to 58 days

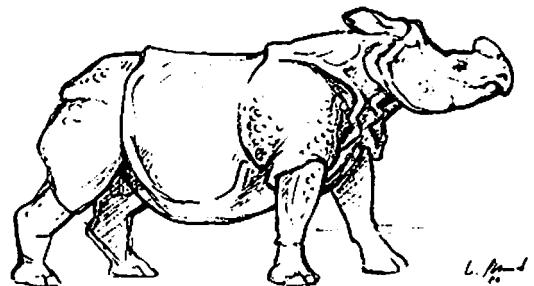
Interbirth interval: 3 years

First reproduction: males 9 years, females 5 years

In captivity: female 4 years and 77 days
male 7 years and 7 months

Size and weights: body weight: 1500-2000 kg
shoulder height: 1.75-2.0 metres
length: 2.1-4.2 metres
one horn, horn length: 20-61 cm

Longevity: In Philadelphia, the male rhino Jim died on 6 December 1904 after 40 years and 140 days in captivity





Species Status

The Greater one-horned rhinoceros is classified as a seriously endangered species, listed in CITES Appendix I. The main threats to this species are the loss of its habitat and poaching for the horn.

The latest meeting of the IUCN/SSC Asian Rhino Specialist Group (AsRSG) was held at Kaziranga in February 1999. The 1999 population is estimated to be 2471 wild individuals in India and Nepal in protected areas. The number of Asian Rhinos stated for India is 1819 and for Nepal 652. A report will be published by the IUCN/SSC this year.

The International Studbook for the Greater One-Horned Rhinoceros lists a total of 258 animals. 73 males and 63 females were alive on 31 December 1998 and were kept in 51 institutions.

Captive propagation in zoos and other conservation centres plays an important role in the conservation of the Greater one-horned rhinoceros. Controlled breeding programmes aim to maximise the preservation of genetic diversity in captivity. It is very important for us, the studbook keeper and the species coordinator, that all institutions which keep Greater one-horned rhinoceroses cooperate.

Demographic and Genetic Analyses

Demographic Analyses

On 31 December 1998, the International Studbook recorded 136 (73.63) Greater one-horned rhinoceroses housed in 51 zoos and wild parks in Asia, North America and Europe. Of these 136 rhinoceroses, 92 (53.39 = 68%) were captive-born. The age structure is reasonably healthy (Fig. 1) with some shortage of juvenile males and females. In the last years, two individuals (0.2) have been imported from the wild, namely Stud# 256 and Stud# 257, which had been captured in Nepal and brought to the Whipsnade Wild Animal Park (UK).

The captive population grew regularly until 1991, when it reached 126 (73.53) individuals. During the following years, the population remained more or less stable, but it has started to grow again in the last few years, thanks to very few deaths in 1998 and many successful reproductions at various institutions.

The Greater one-horned rhinoceros has a maximum lifespan of approximately 40 years, both for females and for males. Infant mortality (birth to 6 months, including stillbirths) is high (20-27%) in both sexes. Juvenile and young adult mortality (6 months to 12 years) is low, on average less than 1% p.a. From 12 years onwards, mortality increases exponentially (Fig. 2). There is no obvious difference in mortality between the two sexes.

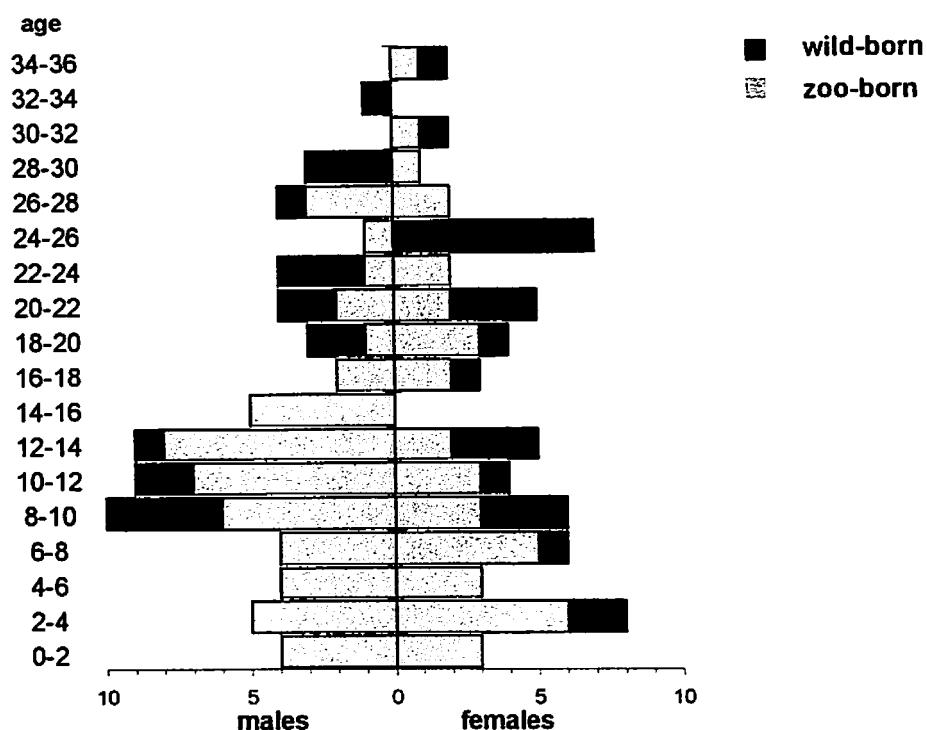


Fig. 1- Age structure of the captive population of the Greater one-horned rhinoceros. Dark shading indicates wild-born animals. There is one wild-born male with unknown age (Stud# 157), which has been omitted.

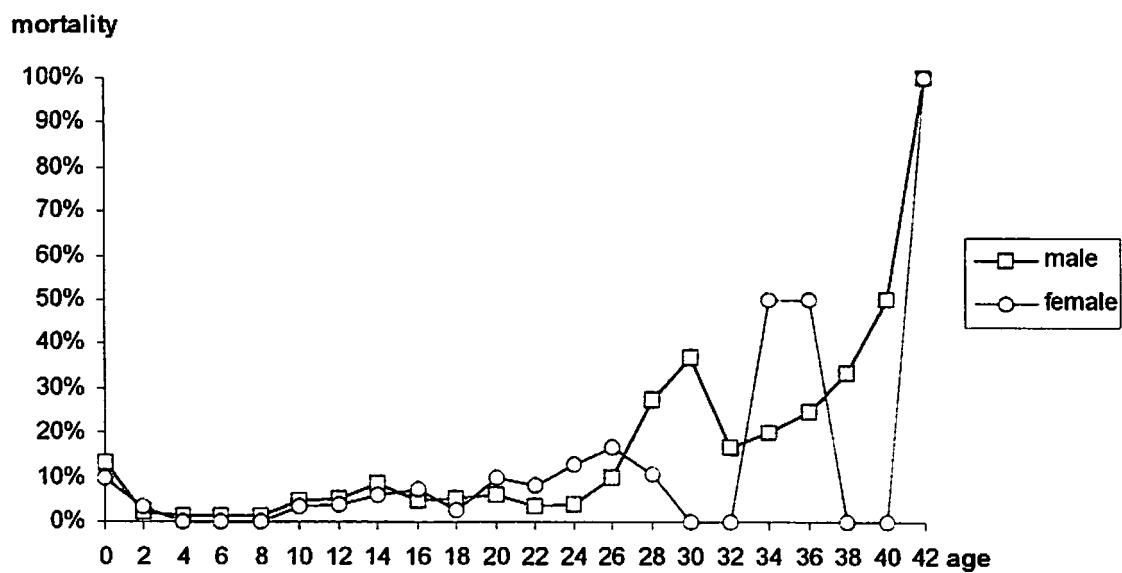


Fig. 2 – Mortality in captive-held Greater one-horned rhinoceros. Data for ages > 30 are very unreliable due to small sample sizes. Stillborn individuals have been omitted from this graphic. If they were included, the mortality of age class 0 (0 to 2 years old) would be 23.3% in males and 28.6% in females.

The reproductive phase of the Greater one-horned rhinoceros lies between four and 32 years in females and 7 and 40 years in males (Table 1, Fig. 3). The age-specific fertility of females shows a concave shape. In contrast, no age-specific decline in male fertility can be detected in the data so far available. The average generation time is 15 years. The gestation is about 478 days ($SD = 8.8$) for offspring of both sexes.

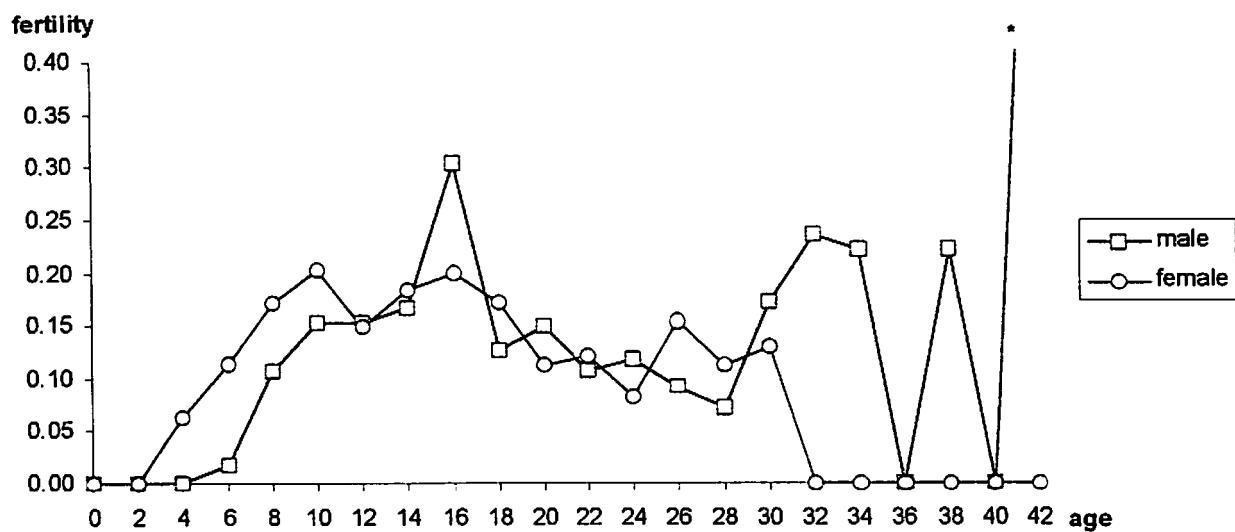


Fig. 3 – Age-specific fertility in captive-held Greater one-horned rhinoceros. Data for ages > 30 are very unreliable due to small sample sizes. * This data point is high (0.76) due to a low sample-size artefact.

Table 1

List of youngest and oldest sires and dams to reproduce. In many cases, the age of the parent is uncertain.

young sires

sire	age	sire	offspring	sex	birth
152 Stutt 9	7y 7m	237 Mun 1	m	13/ 7/96	3)
24 Kaz 39	7y 9m	29 Gauh 2	f	10/ 7/63	1)
106 Hyde 3	7y 11m	163 SDWAP 11	f	20/ 4/89	2)
5 Kaz 4	8y 4m	14 Basel 1	m	14/ 9/56	1)
86 Stutt 3	8y 4m	167 Dvkr 1	f	14/ 1/86	
71 Stutt 2	8y 4m	122 Kan 1	f	1/10/82	

old sires

sire	age	sire	offspring	sex	birth
10 Assam 5	42y 1m	223 Phil 5	f	5/10/94	1)
10 Assam 5	38y 10m	187 Phil 4	m	24/ 7/91	1)
10 Assam 5	35y 11m	147 Phil 3	m	14/ 8/88	1)
1 Assam 1	34y 3m	79 Myso 3	f	19/ 7/75	1)
26 Basel 3	33y 4m	236 SDWAP 25	m	4/ 1/96	
10 Assam 5	33y 2m	126 Phil 2	m	3/11/85	1)

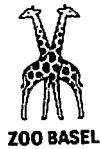
young dams

dam	age	dam	offspring	sex	birth
209 SDWAP 19	4y 77d	249 SDWAP 29	m	23/11/97	
99 SDWAP 3	4y 128d	112 SDWAP 5	m	25/ 7/82	
130 SDWAP 8	4y 183d	182 SDWAP 13	f	20/ 7/90	
182 SDWAP 13	4y 185d	226 Ber-T 3	f	21/ 1/95	
17 Basel 2	4y 204d	27 Basel 4	m	9/ 3/63	
143 SDWAP 9	4y 208d	188 SDWAP 15	m	22/12/91	

old dams

dam	age	dam	offspring	sex	birth
29 Gauh 2	31y 5m	224 SDWAP 21	m	26/11/94	
7 Kaz 5	31y 0m	88 Basel 17	m	16/ 7/78	1)
29 Gauh 2	29y 0m	198 SDWAP 17	f	21/ 7/92	3)
7 Kaz 5	28y 3m	80 Basel 14	f	10/10/75	1)
11 Assam 6	27y 1m	79 Myso 3	f	19/ 7/75	1)
29 Gauh 2	26y 7m	180 SDWAP 12	m	27/ 1/90	

1) age uncertain 2) stillbirth 3) aborted



A comparison between those offspring that survived and those that were either stillborn or died within a few days shows that those that died had a lower birth weight. With few exceptions, offspring with a birth weight below approximately 57 kg died, while those with a higher birth weight survived. The birth weight itself seems to be influenced by the parousity of the dam: first-born offspring have on average a lower birth weight (56.5 kg, SD=5.4, n=9) than later-born ones (67.8 kg, SD=9.1, n=24; t=3.46, p=0.0016). Overall, first-born offspring had a higher mortality (39.5%, n=38) than later-born ones (18.7%, n=107; p = 0.015).

Genetic Analysis

In the last studbook (1997), we discussed the threat of inbreeding on the captive rhinoceros population, and we advocated the use of the mean kinship to determine which animals should be used for breeding. Even though the situation has not changed much (we cannot expect this in such a short time period), it has improved somewhat (Table 5), despite the fact that new inbred offspring have been born (cf. Table 2). It must be said that in the captive population of the Greater one-horned rhinoceroses, there is still no indication that inbred offspring have a lower survival rate than non-inbred ones (Zschokke *et al.* 1998).

Table 2

Inbreeding coefficients of all inbred Greater one-horned rhinoceroses. Individuals marked with a '+' are dead.

0.375	0.250	0.188	0.109
141 Dvkr 2	27	Basel 4 +	86 Stutt 3 +
148 Basel 21	34	Basel 6 +	93 Stutt 4
149 Basel 22 +	84	Basel 15 +	109 Stutt 5
167 Dvkr 1 +	87	Basel 16	117 Stutt 6
181 Basel 23	100	Basel 18 +	123 Stutt 7
183 Basel 24	110	Basel 19	135 Stutt 8
195 Basel 25	112	SDWAP 5 +	152 Stutt 9
206 Basel 26	119	Basel 20 +	185 Stutt 10
209 SDWAP 19	124	SDWAP 7	
210 Basel 27	143	SDWAP 9	0.125
240 Basel 28	173	Gauh 6	89 Ber-Z 3
	226	Ber-T 3	237 Mun 1 +
	236	SDWAP 25	
			0.094
			201 Antw 5
			246 Antw 8 +
			0.078
			245 Dvkr 3
			0.047
			196 Antw 4 +
			208 Antw 6 +
			229 Antw 7
			255 Antw 9

A large number of equally represented founders is of decisive importance for the building of a viable captive population. In the case of the Greater one-horned rhinoceros, this goal has not yet been achieved. Today's captive population is based on 36 founder animals, which are very unequally represented (Fig. 4).

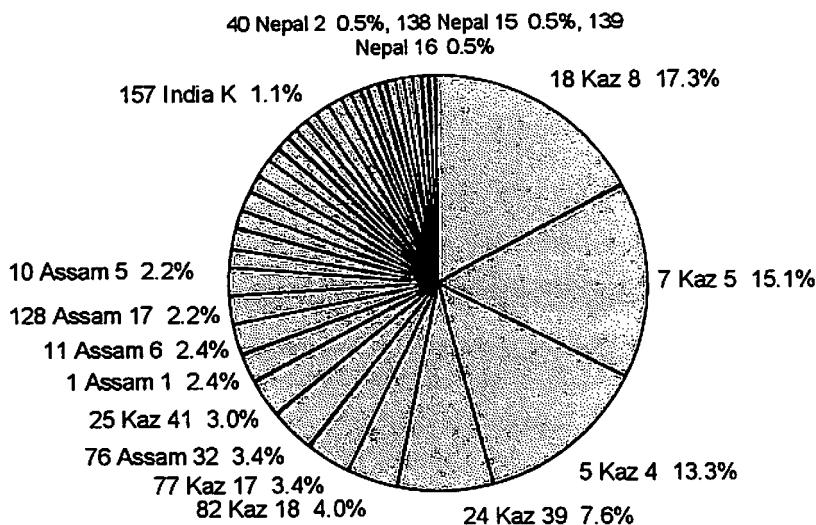


Fig. 4 – Distribution of founder representations in today's living captive-born population of the Greater one-horned rhinoceros. It shows that the four best represented founders (Stud# 5, 7, 18 and 24) have contributed more than half (53.3%) of all genes found in the living captive-born population. The other 32 founders contributed the other half of the genes. The colour indicates the origin of the founders (blue: Assam, red: Nepal). Stud# 157 was probably captured in Nepal.

It is vital that in the future, no individuals with a high proportion (50% or more) of their genes coming from the three best represented founders (Stud# 5, 7 & 18) are used for breeding. On the other hand, breeding with individuals imported from the wild and with offspring from underrepresented founders should be encouraged; these individuals can be identified by their low mean kinship values (Table 3). There are also still 28 (14.14) mature, wild-born individuals that have not yet reproduced (Table 4).

Table 4

List of potential founders (wild caught animals that have not yet reproduced) sorted by sex and age. Individuals marked with a '*' are not yet mature.

males			females						
49	Nepal	3	Washington (USA)	29y 6m	50	Nepal	4	Miami (USA)	34y 4m
172	Kaz	23	Gauhati (India)	26y 5m	64	Assam	10	Nagoya (Japan)	25y 4m
61	Kaz	13	Mysore (India)	23y 11m	153	Kaz	21	Bhubaneswar (India)	24y 6m
154	Assam	34	Bhubaneswar (India)	21y 11m	219	Assam	29	Calcutta (India)	24y 5m
156	Assam	20	Patna (India)	21y 10m	92	Assam	16	Lucknow (India)	20y 9m
217	Assam	28	Bombay (India)	19y 9m	243	Nepal	27	Chiang Mai (Thailand)	20y 8m
170	Assam	22	Gauhati (India)	18y 10m	98	Nepal	7	Peking (China)	20y 3m
174	Assam	24	Jaldapara (India)	12y 11m	171	Assam	23	Gauhati (India)	18y 6m
175	Assam	25	Trivandrum (India)	10y 9m	137	Nepal	14	San Diego WAP (USA)	12y 2m
177	Kaz	24	Trivandrum (India)	10y 5m	144	Nepal	17	Berlin Zoo (Germany)	11y 0m
178	Kaz	25	Jaldapara (India)	9y 6m	193	Nepal	20	Munich (Germany)	9y 4m
164	Nepal	18	Singapore	9y 3m	191	Nepal	23	Fort Worth (USA)	9y 2m
190	Nepal	22	Fort Worth (USA)	9y 2m	192	Kaz	27	Gauhati (India)	8y 5m
179	Kaz	26	Tripura (India)	8y 7m	204	Nepal	21	Stuttgart (Germany)	6y 2m
				256	Nepal	28*	Whipsnade (UK)	2y 9m	
				257	Nepal	29*	Whipsnade (UK)	2y 7m	



Table 3

Ordered list of the mean kinship (mk) of all living individuals.

males

Stud #	mk	age	Stud #	mk	age	Stud #	mk	age
190	0.0000	9	166	0.0109	9	255	0.0634	0
179	0.0000	9	69	0.0109	25	188	0.0659	7
164	0.0000	9	222	0.0170	4	249	0.0677	1
178	0.0000	10	53	0.0177	28	224	0.0756	4
177	0.0000	10	96	0.0197	20	180	0.0756	9
175	0.0000	11	176	0.0220	10	146	0.0756	11
174	0.0000	13	186	0.0241	7	116	0.0756	16
170	0.0000	19	160	0.0241	10	101	0.0783	18
217	0.0000	20	140	0.0241	12	253	0.0803	1
154	0.0000	22	129	0.0241	14	83	0.0911	23
156	0.0000	22	57	0.0291	27	236	0.0918	3
61	0.0000	24	106	0.0312	18	124	0.0923	14
172	0.0000	26	173	0.0383	12	60	0.0932	27
49	0.0000	30	254	0.0394	0	87	0.0935	21
215	0.0027	23	239	0.0432	2	152	0.0974	10
35	0.0041	34	187	0.0527	7	135	0.0974	12
250	0.0054	13	147	0.0527	10	123	0.0974	14
157	0.0054	17	126	0.0527	13	117	0.0974	15
169	0.0054	23	134	0.0571	12	109	0.0974	17
94	0.0054	29	132	0.0588	12	206	0.1001	6
150	0.0068	15	220	0.0592	5	141	0.1002	11
125	0.0082	13	227	0.0597	4	240	0.1016	2
151	0.0082	29	184	0.0597	8	181	0.1016	9
251	0.0109	3	145	0.0602	11			
202	0.0109	6	115	0.0629	16			

females

Stud #	mk	age	Stud #	mk	age	Stud #	mk	age
257	0.0000	3	97	0.0068	20	113	0.0585	16
256	0.0000	3	203	0.0082	7	244	0.0592	1
204	0.0000	6	159	0.0082	10	182	0.0605	8
192	0.0000	8	194	0.0082	17	89	0.0616	19
191	0.0000	9	66	0.0095	26	229	0.0634	3
193	0.0000	9	252	0.0109	1	130	0.0817	13
144	0.0000	11	128	0.0109	26	201	0.0824	6
137	0.0000	12	189	0.0170	7	245	0.0825	1
171	0.0000	19	79	0.0177	23	99	0.0827	21
98	0.0000	20	51	0.0190	28	80	0.0891	23
243	0.0000	21	235	0.0220	4	45	0.0904	29
92	0.0000	21	168	0.0332	21	143	0.0957	12
219	0.0000	24	241	0.0340	2	55	0.0966	27
64	0.0000	25	230	0.0394	3	185	0.0986	8
153	0.0000	25	238	0.0432	2	110	0.0989	17
50	0.0000	34	38	0.0479	32	209	0.0997	5
139	0.0027	12	226	0.0486	4	93	0.0998	19
138	0.0027	13	29	0.0493	35	183	0.1001	8
95	0.0027	25	223	0.0527	4	148	0.1001	10
40	0.0027	32	161	0.0544	9	210	0.1016	5
155	0.0054	25	131	0.0557	13	195	0.1016	7



In addition to the risks of inbreeding, there is also a potential danger in outbreeding, i.e. breeding with individuals that originate from populations which have been separated so long ago that they have become at least partially incompatible from a genetical point of view. In the case of the Greater one-horned rhinoceros, this may be the case with the two populations from Assam and from Nepal. These two populations have been separated for at least several centuries, and they are morphologically slightly distinct (Groves 1993). Most of the individuals used for breeding in captivity are descendants from rhinos caught in Assam (Fig. 4); only four individuals that originate from the Nepal population have reproduced, all of them with a partner from the Assam population. So far, only 50% (5 out of 10) of the offspring of these mixed pairs survived the first 6 months. This proportion is much smaller than that of the pure Assam births, where 113 out of 145 (78%) survived their first six months. Whether this difference in survival rates is due to genetic differences between the two populations or whether it is just a coincidence is currently an open question. We plan - in collaboration with all institutions that keep Greater one-horned rhinoceroses - to conduct a genetic study to answer this question. There is nothing to add to the statement by Rookmaaker (1998, p. 34): "Until further investigations have been carried out [...] it may be advisable not to mix specimens from the two populations, if this can be avoided".

Genetic summary of the current captive population and the comparison with the values for Dec. 1996 and Dec. 1988. The calculations for the figures for Dec. 1996 and Dec. 1988 are based on the latest studbook data and differ therefore slightly from those published previously.

	12/98	12/96	12/88
Number of founders	36	36	31
Potential number of founders	66	64	62
Founder genomes surviving	23.6287	23.3703	19.7916
Mean inbreeding coefficient	0.0754	0.0770	0.0654
Average mean kinship	0.0584	0.0607	0.0716
Gene diversity	0.9416	0.9393	0.9284
Founder genome equivalents	8.5555	8.2388	6.9801



General Breeding Recommendations

The following general breeding recommendations are based on the SSP® central dogma (Dee 1994):

- I The first priority is to breed individuals of lowest mean kinship. The genes of these individuals are underrepresented and, therefore, these individuals possess the rarest alleles in the population.
- II Among individuals with low mean kinship, the second priority is to breed with those whose alleles may be lost soon, i.e. with individuals nearing reproductive senescence.
- III During pairing, pair individuals according to the following ordered criteria:
 - a) mate individuals with roughly similar mean kinship to avoid combining rare and common alleles in offspring, which reduces long-term gene diversity
 - b) mate individuals whose offspring will have low inbreeding coefficients for the best probability of viable, healthy offspring
 - c) maximise mating success on the basis of the knowledge of age of individuals, mate-choice, social structure, etc.
 - d) minimise logistic difficulties (distance and cost of transport of individuals, quarantines, interinstitutional conflicts, etc.).



EEP-Members of the Species Committee

12 institutions participate in this EEP. The following persons are members of the Species Committee:

Dr. Bernhard Blaszkiewitz	Tierpark Berlin-Friedrichsfelde GmbH, Am Tierpark 125, 10307 Berlin, Germany
Kuno Bleijenberg	Rotterdam Zoo, P.O. Box 532 3000 AM Rotterdam, The Netherlands
Dr. Marianne Holtkötter	Wilhema Zoologisch-botanischer Garten, Postfach 501227, 70342 Stuttgart, Germany
Marleen Huyghe	Dierenpark Planckendael, Leuvensesteenweg 582 2812 Muizen - Mechelen, Belgium
RNDr Josef Janecek	Zoologická zahrada Liberec, Masarykova 1347/31 460 01 Liberec 1, Czech Republic
Nick Lindsay	Whipsnade Wild Animal Park, Dunstable LU6 2LF Bedfordshire, United Kingdom
Dr. Helmut Mägdefrau	Tiergarten Nürnberg, Am Tiergarten 30 90480 Nürnberg, Germany
Beatrix Rau	Münchener Tierpark Hellabrunn AG, Tierparkstrasse 30, 81543 München, Germany
Eric Bairrao Ruivo	Zoo Lisboa, S.A. Estrada de Benfica, 158-160 1500 Lisboa, Portugal
Dr. Peter Studer EEP-Coordinator	Zoologischer Garten Basel, Binningerstrasse 40 Postfach, 4011 Basel, Switzerland
Dr. Jiri Vahala	Východoceská Zoo - Safari Dvur Kralové Stefánikova 1029, 54401 Dvur Kralové Czech Republic

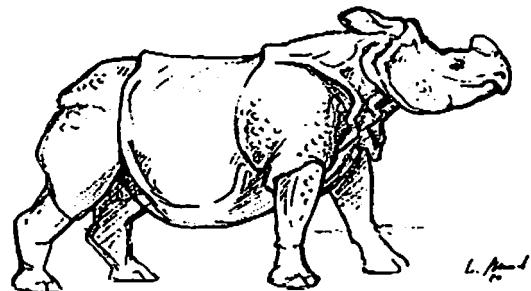


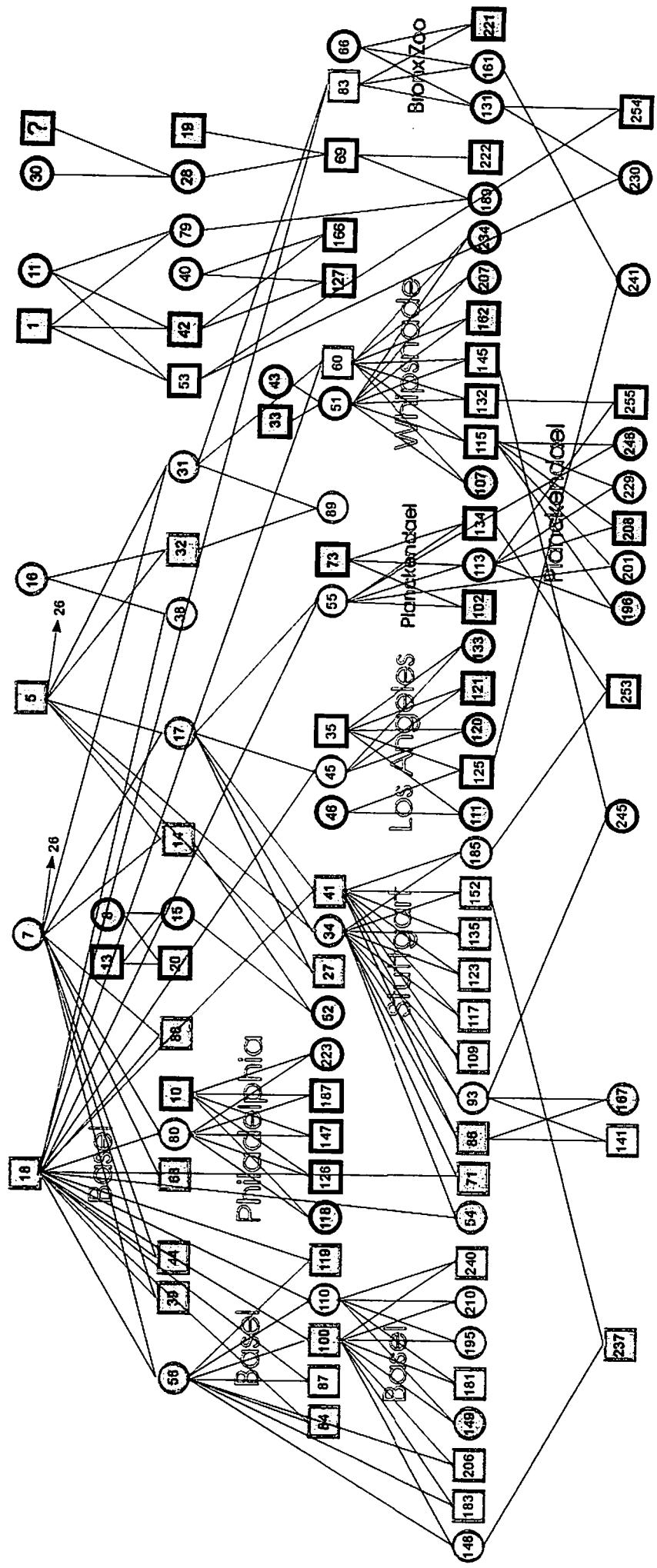
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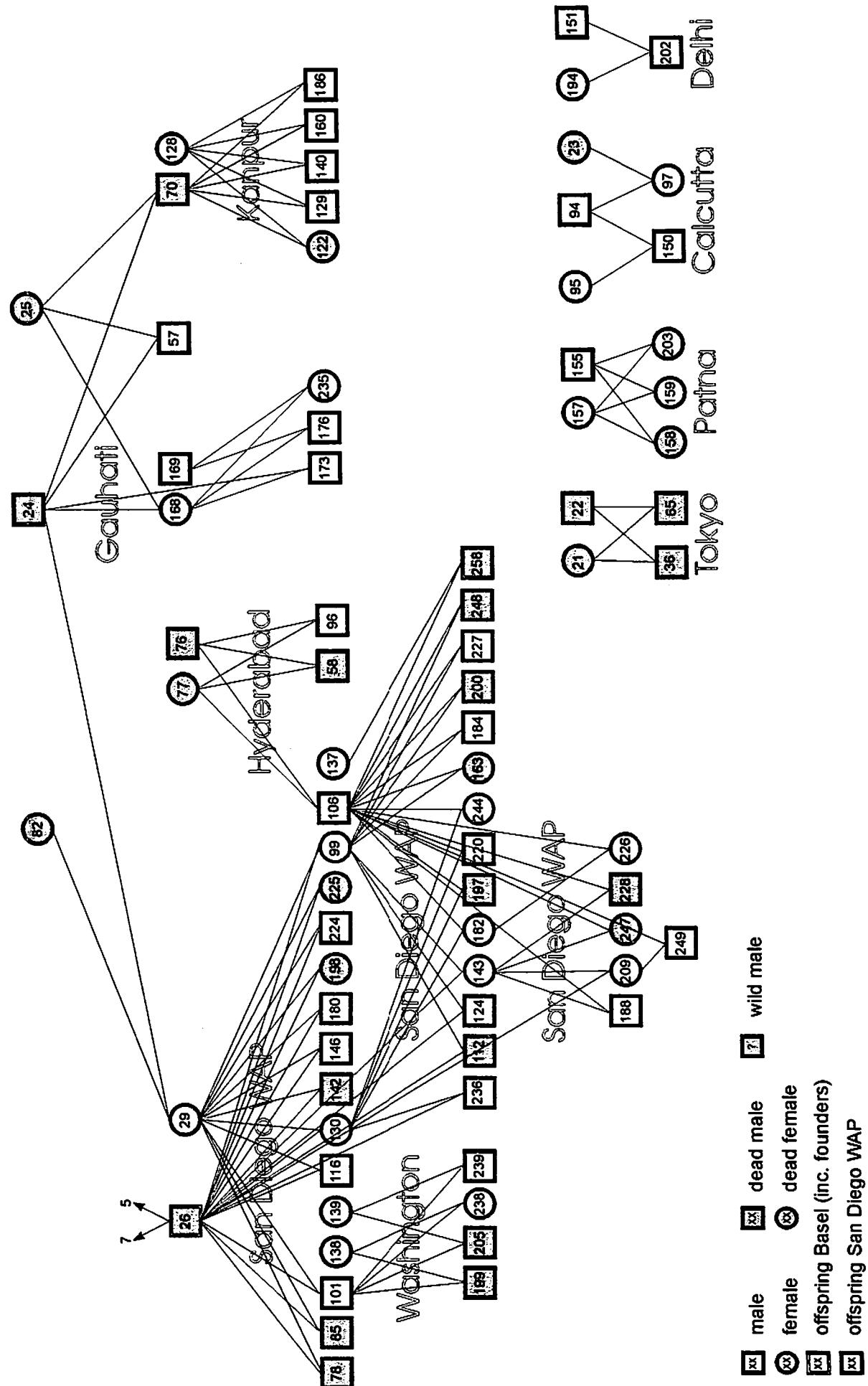
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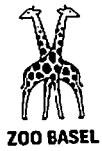


PEDIGREE
of the
Greater One-Horned Rhinoceros









Abbreviations

Breeder name:

Assam	= animals born in Assam, including the Kaziranga Reserve
Kaz	= animals born in the Kaziranga Reserve
Nepal	= animals born in Nepal
India	= animals born on the Indian subcontinent, including Nepal

The breeder name shows the name of the place where an animal was born or captured. The following letter or number indicates the sequence of birth or capture.

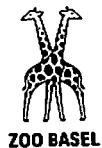
For example: Kaz 5 = the 5th animal captured in the Kaziranga Reserve
Basel 28 = the 28th animal born in Basel

Sex:

F = female, M = male, U = unknown sex

Status:

B = Birth, P = Purchase, L = Loan, R = Return from loan, D = Donation, T = Trade



Events 1998

Births in 1998

Stud#	Sex	Sire	Dam	Breeder	Location	Housename	ISIS	Birthdate
0253	M	0134	0185	Rott 1	Rotterdam	Kaila Padam	105672	04.01.98
0254	M	0053	0131	Neyo 5	Bronx Zoo	Michael Cline	981132	27.07.98
0255	M	0115	0113	Antw 9	Planckendael	Zimon	184012	21.09.98
0258	M	0106	0137	SDWAP 30	San Diego WAP		698678	21.12.98

Deaths in 1998

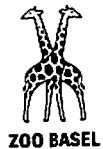
Stud#	Sex	Sire	Dam	Breeder	Location	ISIS	Deathdate	Age
0258	M	0106	0137	SDWAP 30	San Diego WAP	698678	21.12.98	0 d

Transfers in 1998

Transferdate	Stud#	Old Location	Status	New Location	Owner
23.04.98	0139	Washington	Loan to	Bronx Zoo	Washington
04.05.98	0101	Philadelphia	Loan to	Montgomery	Washington
21.05.98	0239	Washington	Loan to	The Wilds	Washington
21.05.98	0238	Washington	Loan to	The Wilds	Washington
14.06.98	0049	Miami	Loan to	Washington	Miami
27.08.98	0222	Toronto	Loan to	Philadelphia	Washington
22.09.98	0256	Wild	Donation to	Whipsnade	Whipsnade
30.09.98	0187	Buffalo	Donation to	Buffalo	Buffalo
08.10.98	0240	Basel	Donation to	Tama Zoo	Tama Zoo
13.10.98	0132	Chester	Loan to	Berlin Zoo	Whipsnade
03.11.98	0257	Wild	Donation to	Whipsnade	Whipsnade
06.11.98	0241	Oklahoma	Loan to	Buffalo	Los Angeles

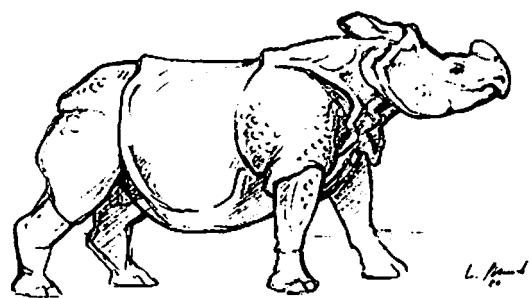
Imports in 1998

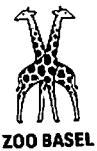
Stud#	Sex	Captured	First Location	Arrival	Age	Origin
0256	F	01.03.96	Whipsnade	22.09.98	2y 6 m	Chitwan, Nepal
0257	F	01.06.96	Whipsnade	03.11.98	2y 5m	Chitwan, Nepal



APPENDIX I

International Studbook Population

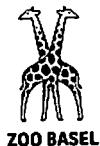




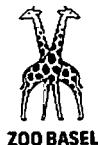
**Studbook population
Report date: 31.12.1998**

Greater One-Horned Rhinoceros

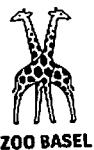
Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0001	M	WILD	WILD	Assam 1	24.04.1965	mysore	P	Kasi		30.04.1979
0002	F	WILD	WILD	Kaz 1	15.05.1948	SHIP	?	Kamala-Rani		
					24.06.1948	BROOKFIELD ZOO	P			06.05.1968
0003	M	WILD	WILD	Kaz 2	24.06.1948	BROOKFIELD ZOO	P	Kashi-Ram		13.11.1970
0004	F	WILD	0002	Kaz 3	16.05.1948	SHIP	B			16.05.1948
0005	M	WILD	WILD	Kaz 4	30.05.1951	BASEL	P	Gadadhar	510001	25.11.1964
0006	M	WILD	WILD	Kaz 33	05.09.1951	ROME	P	Tomy		28.02.1983
0007	F	WILD	WILD	Kaz 5	08.07.1952	BASEL	P	Joymothi	520016	10.11.1983
0008	F	WILD	WILD	Kaz 34	16.07.1952	WHIPSNADE	P	Mohini		
					26.04.1976	AMSTERDAM	L			25.04.1985
0009	F	WILD	WILD	Kaz 35	17.06.1953	PHILADELPHIA	P	Kanaklota	100248	
					07.12.1976	SAN DIEGO WAP	L		101985	
										12.05.1977
0010	M	WILD	WILD	Assam 5	14.09.1955	PHILADELPHIA	P	Kanakbala	100249	06.01.1996
0011	F	WILD	WILD	Assam 6	15.06.1956	mysore	P	Rani		07.05.1992
0012	M	WILD	WILD	Kaz 6	29.05.1956	TRIVANDRUM	P	Moni		16.02.1987
0013	M	WILD	WILD	Kaz 36	07.08.1947	WHIPSNADE	P	Mohan		07.03.1961
0014	M	0005	0007	Basel 1	14.09.1956	BASEL	B	Rudra	560017	
					20.07.1959	MILWAUKEE	P			06.02.1987
0015	F	0013	0008	Whip 1	29.10.1957	WHIPSNADE	B	Mohinija		
					20.07.1959	MILWAUKEE	P			24.06.1975



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0016	F	WILD	WILD	Kaz 7	11.08.1957 21.09.1962 28.05.1963 03.11.1965 13.04.1966 25.05.1968	HAMBURG BASEL HAMBURG BASEL HAMBURG LOS ANGELES	P L R L R L	Nepali II		22.01.1971
0017	F	0005	0007	Basel 2	17.08.1958	BASEL	B	Moola	580018	04.01.1973
0018	M	WILD	WILD	Kaz 8	22.09.1959 08.07.1965	BERLIN ZOO BASEL	P P	Arjun	650023	15.04.1983
0019	M	WILD	WILD	Assam 30	26.05.1960 01.04.1981 16.12.1983	WASHINGTON BRONX ZOO,NY OKLAHOMA	P L L	Tarun		25.09.1989
0020	M	0013	0008	Whip 2	18.08.1960	WHIPSNADE	B	Manik		25.04.1975
0021	F	WILD	WILD	Kaz 37	06.06.1961 16.07.1961	CALCUTTA TOKYO	P P	Lauie/Rani		03.12.1991
0022	M	WILD	WILD	Kaz 38	10.11.1958	TOKYO	P	Tamao	267	16.07.1995
0023	F	WILD	0021	Calc 3	12.06.1961	CALCUTTA	B	Sneha		14.08.1982
0024	M	WILD	WILD	Kaz 39	24.09.1960	GAUHATI	P	Shivaji		23.09.1986
0025	F	WILD	WILD	Kaz 41	25.09.1965	GAUHATI	P	Padmini Jr.		19.10.1982
0026	M	0005	0007	Basel 3	31.08.1962 12.10.1963 26.04.1972 27.06.1995	BASEL SAN DIEGO SAN DIEGO WAP THE WILDS	B P P L	Lasai	620010 100289 950701	08.09.1995
0027	M	0005	0017	Basel 4	09.03.1963 29.09.1964	BASEL PARIS	B P	Khunlai	630021	26.02.1976
0028	F	UNKN	0030	Gauh 1	10.04.1963 16.12.1963	GAUHATI WASHINGTON	B D	Deepali Jr. Rajkumari		09.09.1980
0029	F	0024	0082	Gauh 2	10.07.1963 28.02.1965 26.04.1972 07.11.1995	GAUHATI SAN DIEGO SAN DIEGO WAP GULF BREEZE	B P P L	Jaypuri		
									100288 A1857	



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0030	F	WILD	WILD	Kaz 40	29.10.1962 16.12.1963	GAUHATI WASHINGTON	P ?	Deepali		28.12.1963
0031	F	0005	0007	Basel 5	12.06.1964 06.07.1965 08.08.1970 28.04.1971 10.06.1974 06.05.1975	BASEL BERLIN ZOO BASEL BERLIN ZOO BASEL BERLIN ZOO	B P L R L R	Miris	640022	640022 640022
										02.03.1993
0032	M	0005	0016	Hamb 1	11.08.1964 06.08.1965	HAMBURG BERLIN ZOO	B ?	Gauhati		09.12.1993
0033	M	WILD	WILD	Kaz 9	29.06.1960 24.11.1965	GAUHATI DELHI	P ?	Mehan/Mohan		06.07.1988
0034	F	0005	0017	Basel 6	25.08.1965 29.05.1968 03.06.1969 09.06.1970 19.07.1973 24.10.1973	BASEL STUTTGART BASEL STUTTGART BASEL STUTTGART	B P L R L R	Nanda	650024	650024 650024
										13.07.1992
0035	M	WILD	WILD	Assam 7	08.03.1966	LOS ANGELES	P	Herman	01743	
0036	U	0022	0021	Tokyo 1	20.06.1966	TOKYO	B			20.06.1966
0037	F	WILD	WILD	Nepal 1	06.08.1966	BERLIN TIERPARK	P	Kanchi		09.01.1967
0038	F	0018	0016	Hamb 2	09.04.1967 12.04.1983 13.06.1985 08.01.1994	HAMBURG BERLIN ZOO HAMBURG SINGAPORE	B L R P	Shita		
										G2430
0039	M	0018	0007	Basel 7	07.07.1967 05.09.1968 08.01.1994	BASEL HAMBURG SINGAPORE	B P P	Pandur	670021	
										G2429
										04.02.1994
0040	F	WILD	WILD	Nepal 2	01.08.1967	BERLIN TIERPARK	P	Kumari		
0041	M	0018	0017	Basel 8	22.12.1967 03.06.1969	BASEL STUTTGART	B P	Puri	670022	
										2005
										20.02.1997
0042	M	0001	0011	Myso 1	13.02.1968 24.04.1971	MYSORE BERLIN TIERPARK	B P	Mysore		
										23.12.1996
0043	F	WILD	WILD	Kaz 10	28.03.1968	DELHI	P	Rengi/Rongi		02.06.1986



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0044	M	0018	0007	Basel 9	27.04.1969 06.10.1970	BASEL HOUSTON	B P	Ruedi	690023	09.02.1971
0045	F	0018	0017	Basel 10	05.10.1969 06.10.1970 06.04.1972 22.11.1974	BASEL HOUSTON BROWNSVILLE LOS ANGELES	B P ? P	Randa	690025	07940
0046	F	WILD	WILD	Assam 8	23.12.1967 29.11.1969	GAUHATI LOS ANGELES	P P	Rukmini Rhadha		10.11.1988
0047	F	WILD	WILD	Kaz 11	30.11.1969	LOS ANGELES	P			23.01.1971
0048	F	WILD	WILD	Kaz 42	29.07.1968 23.01.1970	GAUHATI OMAHA	P P	Goiangi		31.01.1970
0049	M	WILD	WILD	Nepal 3	23.04.1970 14.06.1998	MIAMI WASHINGTON	D L	Mohan	107	
0050	F	WILD	WILD	Nepal 4	12.06.1970 10.04.1987 22.11.1988 28.03.1990 29.05.1996 12.10.1996	MIAMI PHILADELPHIA BRONX ZOO,NY MIAMI BRONX ZOO,NY MIAMI	D L L R L R	Shanti	108 101589 881458 108 881458 108	
0051	F	0033	0043	Delhi 1	27.01.1971 06.02.1973	DELHI WHIPSNADE	B T	Roopa		L259
0052	F	0014	0015	Milw 1	30.01.1967	MILWAUKEE	B			30.01.1967
0053	M	0001	0011	Mysore 2	16.04.1971 28.08.1975 28.06.1976 30.05.1990	mysore GELSENKIRCHEN TORONTO BRONX ZOO,NY	B P P L	Vinu	7720 901264	
0054	F	0018	0034	Stutt 1	16.07.1971	STUTTGART	B			16.07.1971
0055	F	0018	0017	Basel 11	11.08.1971 05.09.1972	BASEL PLANCKENDAEL	B P	Tuluma Zutuma	710026 184003	
0056	F	0018	0007	Basel 12	24.08.1971	BASEL	B	Tanaya	710027	17.02.1996
0057	M	0024	0025	Gauh 3	12.09.1971 02.10.1974	GAUHATI NAGOYA	B P	Sambar Sanver		
0058	M	0076	0077	Hyde 1	25.11.1971	HYDERABAD	B	Rajesh		11.08.1983



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0060	M	0018	0031	Ber-Z 1	04.04.1972 15.06.1973 23.04.1976	BERLIN ZOO AMSTERDAM WHIPSNADE	B P T	Kumar L260		
0061	M	WILD	WILD	Kaz 13	24.01.1980 29.01.1985	GAUHATI MYSORE	P P	Ram Muniya		
0062	M	WILD	WILD	Assam 11	14.04.1952	BOMBAY	P	Lacit		14.09.1980
0063	M	WILD	WILD	Nepal 5	09.09.1966	OMAHA	P			24.02.1975
0064	F	WILD	WILD	Assam 10	03.01.1974 02.10.1974	GAUHATI NAGOYA	P P	Jaya		
0065	M	0022	0021	Tokyo 2	20.12.1973 12.12.1978	TOKYO AMSTERDAM	B D	Saitaro		24.05.1989
0066	F	WILD	WILD	Kaz 14	14.08.1973 30.01.1975	GAUHATI BRONX ZOO,NY	P P	Mayang Kumari Pinky	751511	
0067	F	WILD	WILD	Kaz 15	21.06.1973 30.01.1975	GAUHATI BRONX ZOO,NY	P P	Radha	751512	12.07.1996
0068	M	0018	0007	Basel 13	03.01.1974	BASEL	B		740028	03.01.1974
0069	M	0019	0028	Wash 1	30.01.1974 29.10.1975 16.06.1989	WASHINGTON BRONX ZOO,NY TORONTO	B L L	Patrick	100859 751821 24640	
0070	M	0024	0025	Gauh 4	23.05.1974 04.03.1977	GAUHATI KANPUR	B ?	Lachit		08.08.1992
0071	M	0018	0034	Stutt 2	05.12.1974 23.11.1976 31.10.1977	STUTTGART GELSENKIRCHEN SAO PAULO	B P P	Nabob	9895	13.06.1997
0072	M	WILD	WILD	Nepal 6	15.07.1959	PEKING	P	Xiangka		12.11.1978
0073	M	WILD	WILD	Assam 33	30.07.1970 23.03.1971	GAUHATI PLANCKENDAEL	P P	Sasadev Yassam	184002	16.10.1988
0074	M	WILD	WILD	Nepal 24	19.01.1934	ST LOUIS	P	Harry		31.12.1961
0075	M	WILD	WILD	Assam 12	09.06.1953	MADRAS	P	Kushal		15.06.1980



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0076	M	WILD	WILD	Assam 32	28.08.1962 16.06.1964	GAUHATI HYDERABAD	P P	Rajkumar		19.08.1983
0077	F	WILD	WILD	Kaz 17	15.06.1968	HYDERABAD	P	Padma		19.08.1983
0078	M	0026	0029	SDWAP 1	24.03.1975	SAN DIEGO WAP	B		013056	25.03.1975
0079	F	0001	0011	Mysos 3	19.07.1975 15.06.1976 27.04.1979	mysore GELSENKIRCHEN TORONTO	B P P	Indira		11554
0080	F	0018	0007	Basel 14	10.10.1975 07.11.1979	BASEL PHILADELPHIA	B P	Xavira	750029 100925	
0081	M	WILD	WILD	Kaz 43	28.06.1971 12.09.1973	GAUHATI BROWNSVILLE	P P	Santu		03.12.1973
0082	F	WILD	WILD	Kaz 18	05.10.1958	GAUHATI	P	Padmini		28.10.1964
0083	M	0018	0031	Ber-Z 2	18.02.1976 12.07.1981 19.12.1983	BERLIN ZOO OKLAHOMA BRONX ZOO, NY	B P L	Heiner	968001 831391	
0084	M	0018	0056	Basel 15	26.03.1976 02.11.1977 02.11.1978	BASEL GELSENKIRCHEN COLOGNE	B L P	Yamatari	760030	08.09.1987
0085	M	0026	0029	SDWAP 2	18.10.1976	SAN DIEGO WAP	B	Maharaja	101932	20.10.1976
0086	M	0041	0034	Stutt 3	21.09.1977 12.08.1980 14.06.1992	STUTTGART DVUR KRALOVE SINGAPORE	B P P	Dvityia		G1526 08.07.1992
0087	M	0018	0056	Basel 16	26.01.1978 06.11.1979 14.10.1982 29.10.1991 22.05.1996	BASEL PHILADELPHIA BRONX ZOO, NY MILWAUKEE THE WILDS	B L P L L	Assam	780031 100924 821339 3622 960503	
0088	M	0018	0007	Basel 17	16.07.1978	BASEL	B	Angkor	780032	19.11.1978
0089	F	0032	0031	Ber-Z 3	13.08.1979 12.07.1981 16.11.1990 18.02.1997	BERLIN ZOO OKLAHOMA LOS ANGELES SAN DIEGO WAP	B P L L	Terai	968102 95967 697059	
0090	M	WILD	WILD	Assam 14	30.03.1959	LUCKNOW	P	Jai Singh		06.05.1979



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0091	M	WILD	WILD	Assam 15	15.11.1976 20.10.1979	GAUHATI LUCKNOW	P ?	Sanjoy		18.01.1980
0092	F	WILD	WILD	Assam 16	24.04.1978 20.10.1979	GAUHATI LUCKNOW	P ?	Krishna Jr.		
0093	F	0041	0034	Stutt 4	13.09.1979 22.07.1981	STUTTGART DVUR KRALOVE	B P	Numa		
0094	M	WILD	WILD	Kaz 19	12.02.1974 14.03.1974	GAUHATI CALCUTTA	P P	Hihua Meghnad		
0095	F	WILD	WILD	Kaz 20	22.01.1974 14.03.1974	GAUHATI CALCUTTA	P P	Mayuri Kadambini		
0096	M	0076	0077	Hyde 2	12.11.1978	HYDERABAD	B	Laddu		
0097	F	0094	0023	Calc 1	09.01.1979 10.03.1986 16.05.1997	CALCUTTA COLOGNE SINGAPORE	B P D	Gomati 462 G4844		
0098	F	WILD	WILD	Nepal 7	09.10.1980	PEKING	D	Bhunli		
0099	F	0026	0029	SDWAP 3	19.03.1978	SAN DIEGO WAP	B	Gainda	102575	
0100	M	0018	0056	Basel 18	11.01.1980	BASEL	B	Chitawan	800033	13.11.1995
0101	M	0026	0029	SDWAP 4	08.08.1980 04.11.1982 01.07.1985 12.02.1993 09.07.1996 04.05.1998	SAN DIEGO WAP SAN DIEGO WASHINGTON WASHINGTON PHILADELPHIA MONTGOMERY	B L L D L L	Pandu 282326 106574 106574 103314 2499	103996	
0102	M	0073	0055	Antw 1	03.11.1980	PLANCKENDAEL	B			07.11.1980
0103	M	WILD	WILD	Nepal 8	27.08.1980	RANGOON	P			01.06.1993
0104	F	WILD	WILD	Nepal 9	27.08.1980	RANGOON	P			01.06.1993
0105	F	WILD	WILD	Nepal 10	02.02.1944	LUCKNOW	P	Rosy		02.04.1973
0106	M	0076	0077	Hyde 3	15.05.1981 10.08.1983 30.11.1983 29.05.1985	HYDERABAD SAN DIEGO WAP SAN DIEGO SAN DIEGO WAP	B P D D	Srinivas Rabha 783639		
0107	F	0060	0051	Whip 3	21.05.1981	WHIPSNADE	B			21.05.1981
0108	M	WILD	WILD	Nepal 11	20.10.1981	PEKING	P	Karnal		26.11.1981



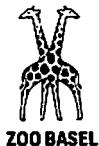
Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0109	M	0041	0034	Stutt 5	30.08.1981 13.04.1983 01.07.1990 12.12.1994	STUTTGART ROTTERDAM SINGAPORE CHIANG MAI	B L L L	Nadir	3125 109 G45	
0110	F	0018	0056	Basel 19	16.01.1982	BASEL	B	Elora	820034	
0111	F	0035	0046	Losan 1	16.02.1982 18.06.1985	LOS ANGELES SAN DIEGO WAP	B L	Meetah	94307 028842	03.07.1985
0112	M	0026	0099	SDWAP 5	25.07.1982 27.10.1983	SAN DIEGO WAP SEOUL	B P	Tezpur	682461	21.06.1990
0113	F	0073	0055	Antw 2	09.08.1982	PLANCKENDAEL	B	Johanna	184004	
0114	F	WILD	WILD	Nepal 12	17.05.1980	KATHMANDU	P			27.01.1990
0115	M	0060	0051	Whip 4	09.03.1983 03.10.1985	WHIPSNADE PLANCKENDAEL	B D	Bheema	184005	
0116	M	0026	0029	SDWAP 6	01.05.1983 05.06.1985 17.09.1988	SAN DIEGO WAP SAN DIEGO TAMPA	B L L	Jorhat	683352 100123	
0117	M	0041	0034	Stutt 6	12.07.1983 27.08.1985	STUTTGART YOKOHAMA	B P	Katgin		
0118	F	0010	0080	Phil 1	25.02.1984	PHILADELPHIA	B		101286	26.02.1984
0119	M	0018	0056	Basel 20	29.02.1984	BASEL	B	Gandak	840035	11.03.1985
0120	F	0035	0045	Losan 2	09.08.1982	LOS ANGELES	B			09.08.1982
0121	M	0035	0045	Losan 3	16.12.1983	LOS ANGELES	B			16.12.1983
0122	F	0070	0128	Kan 1	01.10.1982 04.12.1985	KANPUR YOKOHAMA	B P	Rashmi/Sawako Sawako		04.01.1995
0123	M	0041	0034	Stutt 7	29.01.1985 09.12.1987 23.04.1997	STUTTGART COLOGNE STUTTGART	B L R	Bruno	3127 597	
0124	M	0026	0099	SDWAP 7	25.06.1985 24.10.1989	SAN DIEGO WAP SINGAPORE	B L	Gurkha	028851 G42	
0125	M	0035	0046	Losan 4	11.08.1985 15.11.1990	LOS ANGELES OKLAHOMA	B L	Chandra	002213 542705	
0126	M	0010	0080	Phil 2	03.11.1985 06.04.1987	PHILADELPHIA MIAMI	B L	BJ/Akbar Akbar	101430 M00755	



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0127	M	0042	0040	Ber-T 1	23.11.1985	BERLIN TIERPARK	B			23.11.1985
0128	F	WILD	WILD	Assam 17	11.08.1973	GAUHATI	P	Usha		
					04.03.1977	KANPUR	P			
0129	M	0070	0128	Kan 2	06.12.1984	KANPUR	B	Lohit		
					06.04.1995	LUCKNOW	T			
0130	F	0026	0029	SDWAP 8	18.01.1986	SAN DIEGO WAP	B	Jumia	005257	
0131	F	0083	0066	Neyo 1	09.04.1986	BRONX ZOO,NY	B	Ellah	861069	
0132	M	0060	0051	Whip 5	09.08.1986	WHIPSNADE	B	Yodha		
					03.12.1987	CHESTER	L		1652	
					13.10.1998	BERLIN ZCO	L			
0133	F	0035	0045	Losan 5	10.10.1986	LOS ANGELES	B			10.10.1986
0134	M	0073	0055	Antw 3	24.10.1986	PLANCKENDAEL	B	Nico	184006	
					09.10.1990	ROTTERDAM	L		104083	
0135	M	0041	0034	Stutt 8	24.12.1986	STUTTGART	B	Noel		
					01.12.1989	NUREMBERG	P			
0136	M	WILD	WILD	Nepal 13	26.05.1987	SAN FRANCISCO	P	Chhendra		06.09.1996
0137	F	WILD	WILD	Nepal 14	26.05.1987	SAN FRANCISCO	P	Shanti	187049	
					27.11.1996	SAN DIEGO WAP	L		696602	
0138	F	WILD	WILD	Nepal 15	27.05.1987	WASHINGTON	D	Mechi	107663	
					10.05.1994	PHILADELPHIA	L		102924	
					20.10.1994	WASHINGTON	R		107663	
0139	F	WILD	WILD	Nepal 16	27.05.1987	WASHINGTON	D	Kali	107664	
					23.04.1998	BRONX ZOO,NY	L			
0140	M	0070	0128	Kan 3	17.06.1987	KANPUR	B	Mohit		
0141	M	0086	0093	Dvkr 2	04.11.1987	DVUR KRALOVE	B	Nim		
					09.11.1989	LIBERECK	P			
0142	M	0026	0029	SDWAP-	07.01.1987	SAN DIEGO WAP	B		687013	07.01.1987
0143	F	0026	0099	SDWAP 9	28.05.1987	SAN DIEGO WAP	B	Goalpara	687346	
0144	F	WILD	WILD	Nepal 17	15.05.1988	BERLIN ZOO	D	Narajani		
0145	M	0060	0051	Whip 6	08.05.1988	WHIPSNADE	B	Ropen		
					16.11.1990	DVUR KRALOVE	L			
0146	M	0026	0029	SDWAP 10	22.05.1988	SAN DIEGO WAP	B	Joya	688293	
					13.09.1990	SAN DIEGO	L			
					06.04.1995	ROLLING HILLS	L		950029	



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0147	M	0010	0080	Phil 3	14.08.1988 25.10.1989	PHILADELPHIA CINCINNATI	B L	Jimmy	101728 189167	
0148	F	0100	0056	Basel 21	04.10.1988 12.07.1990	BASEL MUNICH	B P	Nasi	880036 079002	
0149	F	0100	0110	Basel 22	11.12.1988	BASEL	B		880037	11.12.1988
0150	M	0094	0095	Calc 2	04.06.1984	CALCUTTA	B	Debraj		
0151	M	WILD	WILD	Kaz 44	05.05.1982 03.03.1983	GAUHATI DELHI	P ?	Agni Dabbu Agni		
0152	M	0041	0034	Stutt 9	27.11.1988 12.06.1990	STUTTGART MUNICH	B L	Nikolaus	3869 079003	
0153	F	WILD	WILD	Kaz 21	16.09.1974 08.04.1976	GAUHATI BHUBANESWAR	P P	Numali		
0154	M	WILD	WILD	Assam 34	22.08.1977 02.12.1979	GAUHATI BHUBANESWAR	P ?	Ganesh Nandan		
0155	F	WILD	WILD	Assam 19	21.07.1974 28.05.1979	GAUHATI PATNA	P ?	Caitralekha Kanchi		
0156	M	WILD	WILD	Assam 20	19.08.1977 28.05.1979	GAUHATI PATNA	P ?	Vijay Kancha		
0157	M	WILD	WILD	India K	28.03.1982	PATNA	P	Raju		
0158	F	0157	0155	Patna 1	25.10.1986	PATNA	B			25.10.1986
0159	F	0157	0155	Patna 2	08.07.1988	PATNA	B	Hartali		
0160	M	0070	0128	Kan 4	23.06.1989	KANPUR	B	Rohit		
0161	F	0083	0066	Neyo 2	05.09.1989 08.11.1993	BRONX ZOO,NY OKLAHOMA	B R	Mary 513604	891296	
0162	M	0060	0051	Vhip 7	02.10.1989	WHIPSNADE	B	Bardia	L262	15.09.1995
0163	F	0106	0099	SDWAP 11	20.04.1989	SAN DIEGO WAP	B		689183	20.04.1989
0164	M	WILD	WILD	Nepal 18	07.05.1990	SINGAPORE	P	Karnak	G43	
0165	F	WILD	WILD	Nepal 19	07.05.1990	SINGAPORE	P	Kanchan	G44	02.11.1991
0166	M	0042	0040	Ber-T 2	01.01.1990 21.06.1993 10.06.1997	BERLIN TIERPARK BERLIN ZOO BERLIN TIERPARK	B L R	Belur		



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0167	F	0086	0093	Dvkr 1	14.01.1986	DVUR KRALOVE	B	Nelly		27.02.1986
0168	F	0024	0025	Gauh 5	09.01.1978	GAUHATI	B	Padmini II/Gita		
0169	M	WILD	WILD	Assam 21	27.01.1980	GAUHATI	P	Lakshman		
0170	M	WILD	WILD	Assam 22	23.08.1980	GAUHATI	P	John		
0171	F	WILD	WILD	Assam 23	23.08.1980	GAUHATI	P	Gini		
0172	M	WILD	WILD	Kaz 23	15.07.1982	GAUHATI	P	Ganesh		
0173	M	0024	0168	Gauh 6	11.05.1987	GAUHATI	B	Bishnu		
0174	M	WILD	WILD	Assam 24	25.08.1987	GAUHATI	P	Ratul		
					17.10.1995	GORUMARA	P			
0175	M	WILD	WILD	Assam 25	24.09.1988	GAUHATI	P	Ramu		
					19.05.1993	TRIVANDRUM	P			
0176	M	0169	0168	Gauh 7	30.03.1989	GAUHATI	B	Mcches		
0177	M	WILD	WILD	Kaz 24	26.07.1989	GAUHATI	P	Jadu		
					19.05.1993	TRIVANDRUM	P			
0178	M	WILD	WILD	Kaz 25	26.07.1989	GAUHATI	P	Madhu		
					17.10.1995	JALDAPARA	P			
0179	M	WILD	WILD	Kaz 26	20.08.1990	GAUHATI	P	Pradip		
					14.10.1994	TRIPURA	P			
0180	M	0026	0029	SDWAP 12	27.01.1990	SAN DIEGO WAP	B	Jaunpur	690037	
					06.04.1995	ROLLING HILLS	L		950030	
					14.11.1996	BAKER	L		7914	
					19.06.1997	BAKER	T		7914	
0181	M	0100	0110	Basel 23	31.05.1990	BASEL	B	Nandi	900038	
					28.11.1991	NAGOYA	P			
0182	F	0106	0130	SDWAP 13	20.07.1990	SAN DIEGO WAP	B	Jhansi	690458	
					11.10.1994	STUTTGART	T		5628	
					11.10.1994	BERLIN TIERPARK	L			
0183	F	0100	0056	Basel 24	23.10.1990	BASEL	B	Nilgiri	910039	
					28.11.1991	NAGOYA	P			
0184	M	0106	0099	SDWAP 14	28.12.1990	SAN DIEGO WAP	B	Gujrat	690732	
					25.10.1996	LISBON	L		5496	
0185	F	0041	0034	Stutt 10	11.02.1991	STUTTGART	B	Namaste	4449	
					16.06.1993	ROTTERDAM	L		104724	
0186	M	0070	0128	Kan 5	05.07.1991	KANPUR	B	Mudit		

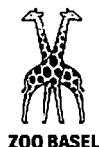


Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0187	M	0010	0080	Phil 4	24.07.1991 21.07.1992 30.09.1998	PHILADELPHIA BUFFALO BUFFALO	B L D	Dhaulagiri	102345 92M163 92M163	
0188	M	0106	0143	SDWAP 15	22.12.1991 25.10.1996	SAN DIEGO WAP LISBON	B L	Gangtok	691776 5497	
0189	F	0069	0079	Toro 1	25.12.1991 22.08.1994	TORONTO CINCINNATI	B L	Nikki	27199 194156	
0190	M	WILD	WILD	Nepal 22	10.05.1990	FORT WORTH	P	Arun	724	
0191	F	WILD	WILD	Nepal 23	10.05.1990	FORT WORTH	P	Arati	725	
0192	F	WILD	WILD	Kaz 27	10.08.1991	GAUHATI	P	Baghekhaiti		
0193	F	WILD	WILD	Nepal 20	15.04.1990	MUNICH	P	Rapti	079001	
0194	F	WILD	WILD	Kaz 45	04.06.1982 20.12.1990	GAUHATI DELHI	? P	Mohini		
0195	F	0100	0110	Basel 25	23.01.1992 08.07.1993	BASEL NUREMBERG	B P	Purana	920040	
0196	F	0115	0113	Antw 4	03.02.1992	PLANCKENDAEL	B			03.02.1992
0197	M	0106	0130	SDWAP 16	26.02.1992	SAN DIEGO WAP	B		692076	26.02.1992
0198	F	0026	0029	SDWAP 17	21.07.1992	SAN DIEGO WAP	B		692441	21.07.1992
0199	M	0101	0138	Wash 2	30.07.1992	WASHINGTON	B			30.07.1992
0200	M	0106	0099	SDWAP 18	06.11.1992	SAN DIEGO WAP	B		692618	06.11.1992
0201	F	0115	0055	Antw 5	15.11.1992 21.11.1992 24.11.1996	PLANCKENDAEL WHIPSNADE LISBON	B D L	Teja	184008 L2961 5532	
0202	M	0151	0194	Delhi 2	27.12.1992	DELHI	B	Ayodhya		
0203	F	0157	0155	Patna 3	06.07.1991	PATNA	B	Chhotki		
0204	F	WILD	WILD	Nepal 21	30.06.1993	STUTTGART	D	Sani	5143	
0205	M	0101	0139	Wash 3	15.01.1993	WASHINGTON	B			15.01.1993
0206	M	0100	0056	Basel 26	22.02.1993 29.04.1995	BASEL SINGAPORE	B L	Quilon	930041 G3209	
0207	F	0060	0051	Whip 8	01.05.1993	WHIPSNADE	B			02.05.1993

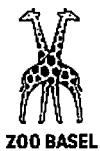


ZOO BASEL

Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0208	M	0115	0113	Antw 6	04.08.1993	PLANCKENDAEL	B			04.08.1993
0209	F	0026	0143	SDWAP 19	07.09.1993	SAN DIEGO WAP	B	Godavari	693536	
0210	F	0100	0110	Basel 27	10.10.1993	BASEL	B	Quetta	930042	
0215	M	WILD	WILD	Kaz 30	17.10.1977	GAUHATI	P	Balaram		
					14.12.1977	CHANDIGARH	?			
0216	F	WILD	WILD	Kaz 31	15.06.1978	GAUHATI	P	Shakuntala		
					29.07.1978	CHANDIGARH	?			25.05.1986
0217	M	WILD	WILD	Assam 28	24.04.1979	GAUHATI	P	Shiva		
					25.02.1985	BOMBAY	?			
0218	M	WILD	WILD	Kaz 32	03.09.1980	GAUHATI	P	Ramu		
					17.04.1985	MADRAS	?			03.07.1989
0219	F	WILD	WILD	Assam 29	11.03.1979	CALCUTTA	P	Mayuri		
0220	M	0106	0130	SDWAP 20	18.03.1994	SAN DIEGO WAP	B	Jaffna	694115	
					29.03.1996	BASEL	P		694115	
0221	M	0083	0066	Neyo 3	22.03.1994	BRONX ZOO,NY	B			
										22.03.1994
0222	M	0069	0079	Toro 2	11.09.1994	TORONTO	B	Sanjay	30105	
					27.08.1998	PHILADELPHIA	L		103525	
0223	F	0010	0080	Phil 5	05.10.1994	PHILADELPHIA	B	Penny	103011	
0224	M	0026	0029	SDWAP 21	26.11.1994	SAN DIEGO WAP	B	Jafar	694673	
					07.11.1995	GULF BREEZE	L		A1858	
0225	F	0026	0029	SDWAP 22	31.07.1984	SAN DIEGO WAP	B		026310	
										31.07.1984
0226	F	0106	0182	Ber-T 3	21.01.1995	BERLIN TIERPARK	B	Betty		
0227	M	0106	0099	SDWAP 23	26.05.1995	SAN DIEGO WAP	B	Gauhali	695264	
					14.02.1997	SAN FRANCISCO	L			
0228	M	0106	0143	SDWAP 24	24.08.1995	SAN DIEGO WAP	B		695462	
										24.08.1995
0229	F	0115	0113	Antw 7	12.10.1995	PLANCKENDAEL	B	Winona	184010	
0230	F	0053	0131	Neyo 4	28.12.1995	BRONX ZOO,NY	B	Daily	951230	
0231	M	WILD	WILD	India O	13.03.1875	PHILADELPHIA	P	Pete		
										03.01.1901
0232	F	WILD	WILD	Nepal 25	24.05.1923	PHILADELPHIA	P	Maharanee/Peggy	10303	
										14.04.1943



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0233	M	WILD	WILD	Assam 31	07.07.1939	WASHINGTON	P	Gunda	16923	09.01.1959
0234	F	0060	0051	Whip 9	19.10.1991	WHIPSNADE	B		L1701	20.10.1991
0235	F	0169	0168	Gauh 8	22.02.1995	GAUHATI	B	Rita		
0236	M	0026	0130	SDWAP 25	04.01.1996	SAN DIEGO WAP	B	Jasai	696004	
0237	M	0152	0148	Mun 1	13.07.1996	MUNICH	B		079004	13.07.1996
0238	F	0101	0138	Wash 5	18.09.1996	WASHINGTON	B	Chitwan	112925	
					21.05.1998	THE WILDS	L			
0239	M	0101	0139	Wash 6	31.10.1996	WASHINGTON	B	Himal	112946	
					21.05.1998	THE WILDS	L			
0240	M	0100	0110	Basel 28	20.11.1996	BASEL	B	Tarh	960043	
					08.10.1998	TAMA ZOO	D		2463	
0241	F	0125	0161	Oklahoma 1	06.12.1996	OKLAHOMA	B	Tashi	701406	
					06.11.1998	BUFFALO	L		98M146	
0242	M	WILD	WILD	Nepal 26	22.04.1986	CHIANG MAI	P			24.07.1986
0243	F	WILD	WILD	Nepal 27	22.04.1986	CHIANG MAI	P			
0244	F	0106	0130	SDWAP 26	24.08.1997	SAN DIEGO WAP	B	Jakichu	697474	
0245	F	0145	0093	Dvkr 3	13.09.1997	DVUR KRALOVE	B	Nova		
0246	F	0115	0055	Antw 8	27.09.1997	PLANCKENDAEL	B		184011	
										27.09.1997
0247	F	0106	0143	SDWAP 27	09.11.1997	SAN DIEGO WAP	B	Gondia	697581	
										25.11.1997
0248	M	0106	0099	SDWAP 28	20.11.1997	SAN DIEGO WAP	B		697598	
										20.11.1997
0249	M	0106	0209	SDWAP 29	23.11.1997	SAN DIEGO WAP	B	Girja	697600	
0250	M	0215	0216	Chand 1	09.05.1986	CHANDIGARH	B	Chhatbir		
0251	M	0151	0194	Delhi 3	28.08.1995	DELHI	B	Meghdoot		
0252	F	0151	0194	Delhi 4	27.11.1997	DELHI	B	Maheshwari		
0253	M	0134	0185	Rott 1	04.01.1998	ROTTERDAM	B	Kaila Padam	105672	
0254	M	0053	0131	Neyo 5	27.07.1998	BRONX ZOO, NY	B	Michael Cline	981132	
0255	M	0115	0113	Antw 9	21.09.1998	PLANCKENDAEL	B	Zimon	184012	

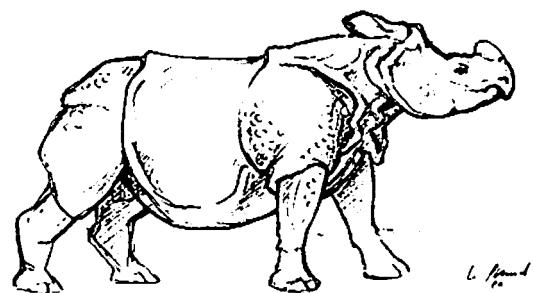


Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS	DEATHDATE dd.mm.yy
0256	F	WILD	WILD	Nepal 28		22.09.1998	WHIPSNADE	D	Beluki	L3165
0257	F	WILD	WILD	Nepal 29		03.11.1998	WHIPSNADE	D	Behan	L3188
0258	M	0106	0137	SDWAP 30		21.12.1998	SAN DIEGO WAP	B		698678 21.12.1998



APPENDIX II

Current Studbook Population





Current population **Greater One-Horned Rhinoceros**
Report date: 31.12.1998

Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
BAKER									
0180	M	0026	0029	SDWAP 12	27.01.1990 06.04.1995 14.11.1996 19.06.1997	SAN DIEGO WAP ROLLING HILLS BAKER BAKER	B L L T	Jaunpur	690037 950030 7914 7914
BASEL									
0110	F	0018	0056	Basel 19	16.01.1982	BASEL	B	Ellora	820034
0210	F	0100	0110	Basel 27	10.10.1993	BASEL	B	Quetta	930042
0220	M	0106	0130	SDWAP 20	18.03.1994 29.03.1996	SAN DIEGO WAP BASEL	B P	Jaffna	694115 694115
BERLIN TIERPARK									
0040	F	WILD	WILD	Nepal 2	01.08.1967	BERLIN TIERPARK	P	Kumari	
0166	M	0042	0040	Ber-T 2	01.01.1990 21.06.1993 10.06.1997	BERLIN TIERPARK BERLIN ZOO BERLIN TIERPARK	B L R	Belur	
0182	F	0106	0130	SDWAP 13	20.07.1990 11.10.1994 11.10.1994	SAN DIEGO WAP STUTTGART BERLIN TIERPARK	B T L	Jhansi	690458 5628
0226	F	0106	0182	Ber-T 3	21.01.1995	BERLIN TIERPARK	B	Betty	
BERLIN ZOO									
0132	M	0060	0051	Whip 5	09.08.1986 03.12.1987 13.10.1998	WHIPSNADE CHESTER BERLIN ZOO	B L L	Yodha	
1652									
0144	F	WILD	WILD	Nepal 17	15.05.1988	BERLIN ZOO	D	Narajani	
BHUBANESWAR									
0153	F	WILD	WILD	Kaz 21	16.09.1974 08.04.1976	GAUHATI BHUBANESWAR	P P	Numati	
0154	M	WILD	WILD	Assam 34	22.08.1977 02.12.1979	GAUHATI BHUBANESWAR	P ?	Ganesh Nandan	
BOMBAY									
0217	M	WILD	WILD	Assam 28	24.04.1979 25.02.1985	GAUHATI BOMBAY	P ?	Shiva	



ZOO BASEL

Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
BRONX ZOO, NY									
0053	M	0001	0011						
				Myso 2	16.04.1971 28.08.1975 28.06.1976 30.05.1990	mysore gelsenkirchen toronto bronx zoo, ny	B P P L	Vinu	
				Kaz 14	14.08.1973 30.01.1975	gauhati bronx zoo, ny	P P	Mayang Kumari Pinky	7720 901264
0066	F	WILD	WILD						
				Ber-Z 2	18.02.1976 12.07.1981 19.12.1983	berlin zoo oklahoma bronx zoo, ny	B P L	Heiner	
				Neyo 1	09.04.1986	bronx zoo, ny	B	Ella	968001 831391
0131	F	0083	0066						
				Nepal 16	27.05.1987 23.04.1998	washington bronx zoo, ny	D L	Kali	861069
0230	F	0053	0131						
				Neyo 4	28.12.1995	bronx zoo, ny	B	Daily	107664
0254	M	0053	0131						
				Neyo 5	27.07.1998	bronx zoo, ny	B	Michael Cline	951230
									981132
BUFFALO									
0187	M	0010	0080						
				Phil 4	24.07.1991 21.07.1992 30.09.1998	philadelphia buffalo buffalo	B L D	Dhaulagiri	102345 92M163 92M163
0241	F	0125	0161						
				Okla 1	06.12.1996 06.11.1998	oklahoma buffalo	B L	Tashi	701406 98M146
CALCUTTA									
0094	M	WILD	WILD						
				Kaz 19	12.02.1974 14.03.1974	gauhati calcutta	P P	Hihua Meghnad	
0095	F	WILD	WILD						
				Kaz 20	22.01.1974 14.03.1974	gauhati calcutta	P P	Mayuri Kadambini	
0150	M	0094	0095						
				Calc 2	04.06.1984	calcutta	B	Debraj	
0219	F	WILD	WILD						
				Assam 29	11.03.1979	calcutta	P	Mayuri	
CHANDIGARH									
0215	M	WILD	WILD						
				Kaz 30	17.10.1977 14.12.1977	gauhati chandigarh	P ?	Balaram	
0250	M	0215	0216						
				Chand 1	09.05.1986	chandigarh	B	Chhatbir	
CHIANG MAI									
0109	M	0041	0034						
				Stutt 5	30.08.1981 13.04.1983 01.07.1990 12.12.1994	stuttgart rotterdam singapore chiang mai	B L L L	Nadir	3125 109 G45
0243	F	WILD	WILD						
				Nepal 27	22.04.1986	chiang mai	P		



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
CINCINNATI									
0147	M	0010	0080	Phil 3	14.08.1988 25.10.1989	PHILADELPHIA CINCINNATI	B L	Jimmy	101728 189167
0189	F	0069	0079	Toro 1	25.12.1991 22.08.1994	TORONTO CINCINNATI	B L	Nikki	27199 194156
DELHI									
0151	M	WILD	WILD	Kaz 44	05.05.1982 03.03.1983	GAUHATI DELHI	P ?	Agni Dabbu Agni	
0194	F	WILD	WILD	Kaz 45	04.06.1982 20.12.1990	GAUHATI DELHI	?	Mohini	
0202	M	0151	0194	Delhi 2	27.12.1992	DELHI	B	Ayodhya	
0251	M	0151	0194	Delhi 3	28.08.1995	DELHI	B	Meghdoot	
0252	F	0151	0194	Delhi 4	27.11.1997	DELHI	B	Maheshwari	
DVUR KRALOVE									
0093	F	0041	0034	Stutt 4	13.09.1979 22.07.1981	STUTTGART DVUR KRALOVE	B P	Numa	
0145	M	0060	0051	Whip 6	08.05.1988 16.11.1990	WHIPSNADE DVUR KRALOVE	B L	Ropen	
0245	F	0145	0093	Dvkr 3	13.09.1997	DVUR KRALOVE	B	Nova	
FORT WORTH									
0190	M	WILD	WILD	Nepal 22	10.05.1990	FORT WORTH	P	Arun	724
0191	F	WILD	WILD	Nepal 23	10.05.1990	FORT WORTH	P	Arati	725
GAUHATI									
0168	F	0024	0025	Gauh 5	09.01.1978	GAUHATI	B	Padmini II/Gita	
0169	M	WILD	WILD	Assam 21	27.01.1980	GAUHATI	P	Lakshman	
0170	M	WILD	WILD	Assam 22	23.08.1980	GAUHATI	P	John	
0171	F	WILD	WILD	Assam 23	23.08.1980	GAUHATI	P	Gini	
0172	M	WILD	WILD	Kaz 23	15.07.1982	GAUHATI	P	Ganesh	
0173	M	0024	0168	Gauh 6	11.05.1987	GAUHATI	B	Bishnu	
0176	M	0169	0168	Gauh 7	30.03.1989	GAUHATI	B	Mohesh	
0192	F	WILD	WILD	Kaz 27	10.08.1991	GAUHATI	P	Baghekhaiti	
0235	F	0169	0168	Gauh 8	22.02.1995	GAUHATI	B	Rita	



ZOO BASEL

Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
GORUMARA									
0174	M	WILD	WILD						
				Assam 24	25.08.1987 17.10.1995	GAUHATI GORUMARA	P P	Ratul	
GULF BREEZE									
0029	F	0024	0082						
				Gauh 2	10.07.1963 28.02.1965 26.04.1972 07.11.1995	GAUHATI SAN DIEGO SAN DIEGO WAP GULF BREEZE	B P P L	Jaypuri	100288 A1857
0224	M	0026	0029						
				SDWAP 21	26.11.1994 07.11.1995	SAN DIEGO WAP GULF BREEZE	B L	Jafar	694673 A1858
HYDERABAD									
0096	M	0076	0077						
				Hyde 2	12.11.1978	HYDERABAD	B	Laddu	
JALDAPARA									
0178	M	WILD	WILD						
				Kaz 25	26.07.1989 17.10.1995	GAUHATI JALDAPARA	P P	Madhu	
KANPUR									
0128	F	WILD	WILD						
				Assam 17	11.08.1973 04.03.1977	GAUHATI KANPUR	P P	Usha	
0140	M	0070	0128						
				Kan 3	17.06.1987	KANPUR	B	Mchit	
0160	M	0070	0128						
				Kan 4	23.06.1989	KANPUR	B	Rohit	
0186	M	0070	0128						
				Kan 5	05.07.1991	KANPUR	B	Mudit	
LIBEREC									
0141	M	0086	0093						
				Dvkr 2	04.11.1987 09.11.1989	DVUR KRALOVE LIBEREC	B P	Nim	
LISBON									
0184	M	0106	0099						
				SDWAP 14	28.12.1990 25.10.1996	SAN DIEGO WAP LISBON	B L	Gujrat	690732 5496
0188	M	0106	0143						
				SDWAP 15	22.12.1991 25.10.1996	SAN DIEGO WAP LISBON	B L	Gangtok	691776 5497
0201	F	0115	0055						
				Antw 5	15.11.1992 21.11.1992 24.11.1996	PLANCKENDAEL WHIPSNADE LISBON	B D L	Teja	184008 L2961 5532
LOS ANGELES									
0035	M	WILD	WILD						
				Assam 7	08.03.1966	LOS ANGELES	P	Herman	01743
0045	F	0018	0017						
				Basel 10	05.10.1969 06.10.1970 06.04.1972 22.11.1974	BASEL HOUSTON BROWNSVILLE LOS ANGELES	B P ? P	Randa	690025 07940



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
LUCKNOW									
0092	F	WILD	WILD		Assam 16	24.04.1978 20.10.1979	GAUHATI LUCKNOW	P ?	Krishna Jr.
0129	M	0070	0128	Kan 2		06.12.1984 06.04.1995	KANPUR LUCKNOW	B T	Lohit
MIAMI									
0050	F	WILD	WILD	Nepal 4	12.06.1970 10.04.1987 22.11.1988 28.03.1990 29.05.1996 12.10.1996	MIAMI PHILADELPHIA BRONX ZOO,NY MIAMI BRONX ZOO,NY MIAMI	D L L R L R	Shanti	108 101589 881458 108 881458 108
0126	M	0010	0080	Phil 2	03.11.1985 06.04.1987	PHILADELPHIA MIAMI	B L	BJ/Akbar Akbar	101430 M00755
MONTGOMERY									
0101	M	0026	0029	SDWAP 4	08.08.1980 04.11.1982 01.07.1985 12.02.1993 09.07.1996 04.05.1998	SAN DIEGO WAP SAN DIEGO WASHINGTON WASHINGTON PHILADELPHIA MONTGOMERY	B L L D L L	Pandu	103996 282326 106574 106574 103314 2499
MUNICH									
0148	F	0100	0056	Basel 21	04.10.1988 12.07.1990	BASEL MUNICH	B P	Nasi	880036 079002
0152	M	0041	0034	Stutt 9	27.11.1988 12.06.1990	STUTTGART MUNICH	B L	Nikolaus	3869 079003
0193	F	WILD	WILD	Nepal 20	15.04.1990	MUNICH	P	Rapti	079001
mysore									
0061	M	WILD	WILD	Kaz 13	24.01.1980 29.01.1985	GAUHATI MYSORE	P P	Ram Muniya	
NAGOYA									
0057	M	0024	0025	Gauh 3	12.09.1971 02.10.1974	GAUHATI NAGOYA	B P	Samber Sanver	
0064	F	WILD	WILD	Assam 10	03.01.1974 02.10.1974	GAUHATI NAGOYA	P P	Jaya	
0181	M	0100	0110	Basel 23	31.05.1990 28.11.1991	BASEL NAGOYA	B P	Nandi	900038
0183	F	0100	0056	Basel 24	23.10.1990 28.11.1991	BASEL NAGOYA	B P	Nilgiri	910039

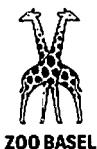


ZOO BASEL

Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
NUREMBERG									
0135	M	0041	0034	Slutt 8	24.12.1986 01.12.1989	STUTTGART NUREMBERG	B P	Noel	
0195	F	0100	0110	Basel 25	23.01.1992 08.07.1993	BASEL NUREMBERG	B P	Purana	920040
OKLAHOMA									
0125	M	0035	0046	Losan 4	11.08.1985 15.11.1990	LOS ANGELES OKLAHOMA	B L	Chandra	002213 542705
0161	F	0083	0066	Neyo 2	05.09.1989 08.11.1993	BRONX ZOO,NY OKLAHOMA	B R	Mary	891296 513604
PATNA									
0155	F	WILD	WILD	Assam 19	21.07.1974 28.05.1979	GAUHATI PATNA	P ?	Caitralekha Kanchi	
0156	M	WILD	WILD	Assam 20	19.08.1977 28.05.1979	GAUHATI PATNA	P ?	Vijay Kancha	
0157	M	WILD	WILD	India K	28.03.1982	PATNA	P	Raju	
0159	F	0157	0155	Patna 2	08.07.1988	PATNA	B	Hartali	
0203	F	0157	0155	Patna 3	06.07.1991	PATNA	B	Chhotki	
PEKING									
0098	F	WILD	WILD	Nepal 7	09.10.1980	PEKING	D	Bhunti	
PHILADELPHIA									
0080	F	0018	0007	Basel 14	10.10.1975 07.11.1979	BASEL PHILADELPHIA	B P	Xavira	750029 100925
0222	M	0069	0079	Toro 2	11.09.1994 27.08.1998	TORONTO PHILADELPHIA	B L	Sanjay	30105 103525
0223	F	0010	0080	Phil 5	05.10.1994	PHILADELPHIA	B	Penny	103011
PLANCKENDAEL									
0055	F	0018	0017	Basel 11	11.08.1971 05.09.1972	BASEL PLANCKENDAEL	B P	Tutuma Zutuma	710026 184003
0113	F	0073	0055	Antw 2	09.08.1982	PLANCKENDAEL	B	Johanna	184004
0115	M	0060	0051	Whip 4	09.03.1983 03.10.1985	WHIPSNADE PLANCKENDAEL	B D	Bheema	184005
0229	F	0115	0113	Antw 7	12.10.1995	PLANCKENDAEL	B	Winona	184010
0255	M	0115	0113	Antw 9	21.09.1998	PLANCKENDAEL	B	Zimon	184012



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
ROLLING HILLS									
0146	M	0026	0029	SDWAP 10	22.05.1988 13.09.1990 06.04.1995	SAN DIEGO WAP SAN DIEGO ROLLING HILLS	B L L	Joya	688293 950029
ROTTERDAM									
0134	M	0073	0055	Antw 3	24.10.1986 09.10.1990	PLANCKENDAEL ROTTERDAM	B L	Nico	184006 104083
0185	F	0041	0034	Stutt 10	11.02.1991 16.06.1993	STUTTGART ROTTERDAM	B L	Namaste	4449 104724
0253	M	0134	0185	Rott 1	04.01.1998	ROTTERDAM	B	Kaila Padam	105672
SAN DIEGO WAP									
0089	F	0032	0031	Ber-Z 3	13.08.1979 12.07.1981 16.11.1990 18.02.1997	BERLIN ZOO OKLAHOMA LOS ANGELES SAN DIEGO WAP	B P L L	Terai	968102 95967 697059
0099	F	0026	0029	SDWAP 3	19.03.1978	SAN DIEGO WAP	B	Gainda	102575
0106	M	0076	0077	Hyde 3	15.05.1981 10.08.1983 30.11.1983 29.05.1985	HYDERABAD SAN DIEGO WAP SAN DIEGO SAN DIEGO WAP	B P D D	Srinivas Rabha	783639
0130	F	0026	0029	SDWAP 8	18.01.1986	SAN DIEGO WAP	B	Jumia	005257
0137	F	WILD	WILD	Nepal 14	26.05.1987 27.11.1996	SAN FRANCISCO SAN DIEGO WAP	P L	Shanti	187049 696602
0143	F	0026	0099	SDWAP 9	28.05.1987	SAN DIEGO WAP	B	Goalpara	687346
0209	F	0026	0143	SDWAP 19	07.09.1993	SAN DIEGO WAP	B	Godavari	693536
0236	M	0026	0130	SDWAP 25	04.01.1996	SAN DIEGO WAP	B	Jasai	696004
0244	F	0106	0130	SDWAP 26	24.08.1997	SAN DIEGO WAP	B	Jakichu	697474
0249	M	0106	0209	SDWAP 29	23.11.1997	SAN DIEGO WAP	B	Giirja	697600
SAN FRANCISCO									
0227	M	0106	0099	SDWAP 23	26.05.1995 14.02.1997	SAN DIEGO WAP SAN FRANCISCO	B L	Gauhati	695264



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
SINGAPORE									
0038	F	0018	0016	Hamb 2	09.04.1967 12.04.1983 13.06.1985 08.01.1994	HAMBURG BERLIN ZOO HAMBURG SINGAPORE	B L R P	Shita	G2430
0097	F	0094	0023	Calc 1	09.01.1979 10.03.1986 16.05.1997	CALCUTTA COLOGNE SINGAPORE	B P D	Gomati	462 G4844
0124	M	0026	0099	SDWAP 7	25.06.1985 24.10.1989	SAN DIEGO WAP SINGAPORE	B L	Gurkha	028851 G42
0164	M	WILD	WILD	Nepal 18	07.05.1990	SINGAPORE	P	Kamak	G43
0206	M	0100	0056	Basel 26	22.02.1993 29.04.1995	BASEL SINGAPORE	B L	Quilon	930041 G3209
STUTTGART									
0123	M	0041	0034	Stutt 7	29.01.1985 09.12.1987 23.04.1997	STUTTGART COLOGNE STUTTGART	B L R	Bruno	3127 597
0204	F	WILD	WILD	Nepal 21	30.06.1993	STUTTGART	D	Sani	5143
TAMA ZOO									
0240	M	0100	0110	Basel 28	20.11.1996 08.10.1998	BASEL TAMA ZOO	B D	Tarrh	960043 2463
TAMPA									
0116	M	0026	0029	SDWAP 6	01.05.1983 05.06.1985 17.09.1988	SAN DIEGO WAP SAN DIEGO TAMPA	B L L	Jorhat	683352 100123
THE WILDS									
0087	M	0018	0056	Basel 16	26.01.1978 06.11.1979 14.10.1982 29.10.1991 22.05.1996	BASEL PHILADELPHIA BRONX ZOO,NY MILWAUKEE THE WILDS	B L P L L	Assam	780031 100924 821339 3622 960503
0238	F	0101	0138	Wash 5	18.09.1996 21.05.1998	WASHINGTON THE WILDS	B L	Chitwan	112925
0239	M	0101	0139	Wash 6	31.10.1996 21.05.1998	WASHINGTON THE WILDS	B L	Himal	112946
TORONTO									
0069	M	0019	0028	Wash 1	30.01.1974 29.10.1975 16.06.1989	WASHINGTON BRONX ZOO,NY TORONTO	B L L	Patrick	100859 751821 24640
0079	F	0001	0011	Myso 3	19.07.1975 15.06.1976 27.04.1979	mysore GELSENKIRCHEN TORONTO	B P P	Indira	11554



Stud#	SEX	SIRE	DAM	BREEDER	ARRIVAL dd.mm.yy	LOCATION	STATUS	HOUSENAME	ISIS
TRIPURA									
0179	M	WILD	WILD	Kaz 26	20.08.1990 14.10.1994	GAUHATI TRIPURA	P P	Pradip	
TRIVANDRUM									
0175	M	WILD	WILD	Assam 25	24.09.1988 19.05.1993	GAUHATI TRIVANDRUM	P P	Ramu	
0177	M	WILD	WILD	Kaz 24	26.07.1989 19.05.1993	GAUHATI TRIVANDRUM	P P	Jadu	
WASHINGTON									
0049	M	WILD	WILD	Nepal 3	23.04.1970 14.06.1998	MIAMI WASHINGTON	D L	Mohan	107
0138	F	WILD	WILD	Nepal 15	27.05.1987 10.05.1994 20.10.1994	WASHINGTON PHILADELPHIA WASHINGTON	D L R	Mechi	107663 102924 107663
WHIPSNADE									
0051	F	0033	0043	Delhi 1	27.01.1971 06.02.1973	DELHI WHIPSNADE	B T	Roopa	
0060	M	0018	0031	Ber-Z 1	04.04.1972 15.06.1973 23.04.1976	BERLIN ZOO AMSTERDAM WHIPSNADE	B P T	Kumar	L259
0256	F	WILD	WILD	Nepal 28	22.09.1998	WHIPSNADE	D	Beluki	L3165
0257	F	WILD	WILD	Nepal 29	03.11.1998	WHIPSNADE	D	Behan	L3188
YOKOHAMA									
0117	M	0041	0034	Stutt 6	12.07.1983 27.08.1985	STUTTGART YOKOHAMA	B P	Katgin	



Summary of the Greater One-Horned Rhinoceros Collection

The following institutions currently house Indian Rhinos. Institutions which participate in an international breeding programme are marked.

EEP = European Endangered Species Programme

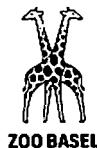
SSP = Species Survival Programme

? = unknown Programme

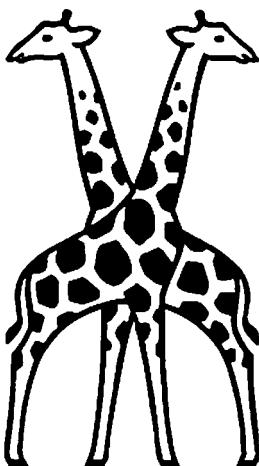
Baker	Greater Baton Rouge Zoo, P.O.Box 60 Baker, Louisiana 70704-0060, USA	1.0.0	SSP
Basel	Zoo Basel, Binningerstrasse 40, Postfach 4011 Basel, Switzerland	1.2.0	EEP
Berlin Tierpark	Tierpark Berlin-Friedrichsfelde GmbH Am Tierpark 125, 10307 Berlin, Germany	1.3.0	EEP
Berlin Zoo	Zoo Berlin, Hardenbergplatz 8, 10787 Berlin, Germany	1.1.0	EEP
Bhubaneswar	Nandankanan Zoological Park Mayur Bhavan, Janapath Saheed Nagar, 751007 Bhubaneswar (Orissa), India	1.1.0	?
Bombay	Veermata Jijabai Bhosle Udyan, Dr. Ambedkar Marg Byculla, 400027 Bombay, India	1.0.0	?
Bronx Zoo, NY	Wildlife Conservation Park Bronx Zoo, 185th Street and Southern Boulevard, Bronx, NY 10460, USA	3.4.0	SSP
Buffalo	Buffalo Zoo, 300 Parkside Avenue, Buffalo New York 14214-1999, USA	1.1.0	SSP
Calcutta	Zoological Garden Alipore, Calcutta, 700027 West Bengal India	2.2.0	?
Chandigarh	M.C. Zoological Park, Chhat-Bir (Pb), SCO NO.839-40 Sector 22A, Chandigarh, India	2.0.0	?
Chiengmai	Chiengmai Zoo, 100 Huay Keaw Road, 5000 Chiengmai Thailand	1.1.0	?
Cincinnati	The Cincinnati Zoo and Botanical Garden, 3400 Vine Street Cincinnati, Ohio 45220-1399, USA	1.1.0	SSP
Delhi	National Zoological Park, Near Purana Quila, Mathura Road, 110003 New Delhi, India	3.2.0	?
Dvur Kralove	Východoceská Zoo-Safari, Dvur Kralové, Stefánikova 1029 54401 Dvur Kralové nad Labem, Czech Republic	1.2.0	EEP
Fort Worth	Fort Worth Zoo, 1989 Colonial Parkway, Fort Worth Texas 76110, USA	1.1.0	SSP
Gauhati	Assam State Zoo and Botanical Garden, Office Divisional Forest Officer, Guwahati 5, Assam, India	5.4.0	?



Gorumara	Government of West Bengal, Gorumara National Park Office of the Divisional Forest Officer, Wildlife Division II, Jalpaiguri, West Bengal, India	1.0.0	?
Gulf Breeze	The Zoo Gulf Breeze, 5701 Gulf Breeze Parkway, Gulf Breeze Florida 32561, USA	1.1.0	SSP
Hyderabad	Nehru Zoological Park, 500264 Hyderabad, India	1.0.0	?
Jaldapara	Jaldapara Wildlife Sanctuary, The Divisional Forest Officer Cooch Behar Division, Nilhuti, P.O.&Dist. Coochbehar, West Bengal, India	1.0.0	?
Kanpur	Kanpur Zoological Park, Azad Nagar, 208002 U.P., Kanpur India	3.1.0	?
Liberec	Zoologická zahrada Liberec, Masarykova 1347/31 460 01 Liberec 1, Czech Republic	1.0.0	EEP
Lisbon	Zoo Lisboa, Estrada de Benfica 158-160,1500 Lisboa Portugal	2.1.0	EEP
Los Angeles	Los Angeles Zoo, 5333 Zoo Drive, Los Angeles CA 90027, USA	1.1.0	SSP
Lucknow	Prince of Wales Zoological Gardens, 226001 Lucknow, India	1.1.0	?
Miami	Miami Metrozoo, 12400 SW 152 Street, Miami Florida 33177-1499, USA	1.1.0	SSP
Montgomery	Montgomery Zoo, PO Box Zebra, Montgomery, AL 36109-0313, USA	1.0.0	?
Munich	Münchener Tierpark Hellabrunn AG, Tierparkstr. 30 81543 München, Germany	1.2.0	EEP
Mysore	Sri Chamarajendra Zoological Gardens Indiranagar, Karnataka State, 570 010 Mysore, India	1.0.0	?
Nagoya	Nagoya Higashiyama Zoo, 3-70 Higashiyamamotomachi Chikusaku, 464 Nagoya, Japan	2.2.0	?
Nuremberg	Tiergarten Nürnberg, Am Tiergarten 30, 90480 Nürnberg Germany	1.1.0	EEP
Oklahoma	Oklahoma City Zoo, 2101 NE 50, Oklahoma City OK 73111, USA	1.1.0	SSP
Patna	Sanja Gandhi Biological Park, Patna, Bihar, India	2.3.0	?
Peking	Beijing Zoological Gardens, 137 Xi Zhi Men Wai Street Beijing, China	0.1.0	?
Philadelphia	Philadelphia Zoological Gardens, 3400 West Girard Avenue Philadelphia, PA 19104-1196, USA	1.2.0	SSP
Planckendael	Dierenpark Planckendael, Leuvensesteenweg 582 2812 Muizen-Mechelen, Belgium	2.3.0	EEP
Rolling Hills	Rolling Hills Refuge Wildlife Center, 625 North Hedville Road Salina, KS 67401, USA	1.0.0	SSP



Rotterdam	Rotterdam Zoo, P.O.Box 532, 3000 AM Rotterdam The Netherlands	2.1.0	EEP
San Diego WAP	San Diego Zoological Society Wild Animal Park, P.O.Box 551 San Diego, CA 92112-0551, USA	3.7.0	SSP
San Francisco	San Francisco Zoo, 1 Zoo Road, CA 94132-1098 San Francisco, USA	1.0.0	SSP
Singapore	Singapore Zoological Gardens, 80 Mandai Lake Road 2572 Singapore	3.2.0	?
Stuttgart	Wilhelma Zoologisch-botanischer Garten, Postfach 501227 70342 Stuttgart, Germany	1.1.0	EEP
Tama Zoo	Tama Zoological Park, 7-1-1 Hodokubo, Hino-shi, Tokyo 191 Japan	1.0.0	?
Tampa	Lowry Park Zoological Garden, 7530 North Boulevard Tampa, FL 33604-4756, USA	1.0.0	SSP
The Wilds	The Wilds, 14000 International Road, Cumberland OH 43732 USA	2.1.0	SSP
Toronto	Toronto Zoo, 361A Old Finch Avenue Scarborough M1B 5K7 Ontario, Canada	1.1.0	SSP
Tripura	Government of Tripura, Office of the Wild Life Warden Sepahijala Wild Life Sanctuary, Sepahijala, India	1.0.0	?
Trivandrum	Trivandrum Zoological Gardens, Trivandrum, Kerala State India	2.0.0	?
Washington	Smithsonian National Zoological Park Washington, D.C. 20008-2598, USA	1.1.0	SSP
Whipsnade	Whipsnade Wild Animal Park, Dunstable, LU6 2LF Bedfordshire, United Kingdom	1.3.0	EEP
Yokohama	Kanazawa Zoological Gardens of Yokohama, 5-15-1 Kamariya higashi, Kanazawa-ku, 236-0042 Yokohama, Japan	1.0.0	?



ZOO BASEL

Binningerstrasse 40
Postfach
4011 Basel
Tel ++41 61 295 35 35
Fax ++41 61 281 00 05

zoo@zoobasel.ch
www.zoobasel.ch

Imprint

Dr. Gabriele Wirz-Hlavacek
International Studbook Keeper

Zoo Basel

Dr. Peter Studer
EEP Species Coordinator

Zoo Basel

Dr. Samuel Zschokke
Scientific Adviser

Department of Integrative Biology,
Section Conservation Biology (NLU),
University of Basel
St. Johanns-Vorstadt 10
4056 Basel, Switzerland

Beatrice Steck
EEP Coordinator's Assistant

Zoo Basel

Walter Schmid
Cover drawing

Basel, Switzerland