

NATIONAL STUDBOOK

Lion Tailed Macaque (*Macaca silenus*): IV Edition

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National Studbook

Lion Tailed Macaque (*Macaca silenus*) IV Edition

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FOREWORD

Lion tailed macaque is a species inhabiting evergreen rain forests in the Western-Ghats of India. The species is threatened by habitat loss, fragmentation and degradation coupled with poaching. An additional threat recently identified on the basis of molecular genetics studies is the segregation of the populations north and south of the Palghat Gap as distinct evolutionary significant units (ESUs), thus enhancing the threat perception of the species. This enhanced threat perception highlights the need for effective *ex-situ* conservation of the two distinct ESUs for ensuring their long-term survival. Scientific management based on pedigree information contained in the studbook forms an appropriate tool for ensuring their long term genetic viability and demographic stability.

The Central Zoo Authority (CZA) in collaboration with zoos in India has initiated a conservation breeding program for threatened species in Indian zoos. As a part of this endeavor a Memorandum of Understanding has been signed with the Wildlife Institute of India for compilation and update of studbooks of identified species in Indian zoos.

As part of the project outcomes the WII has compiled the studbook of lion tailed macaque (*Macaca silenus*) IV edition in Indian zoos. The recommendations contained in the studbook will form the basis for the long term management of the species in captivity. It is hoped that the zoos will adopt the recommendations and keep the WII informed of changes in their populations on a regular basis to enable the timely update of the studbook.

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Parassinikadavu Snake Park, Parassinikadavu, Kerala
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LION TAILED MACAQUE

(*Macaca silenus*)

Species Information

The lion-tailed macaque (*Macaca silenus*) is an endangered primate endemic to evergreen rainforests of the southern part in Western Ghats. The species is of conservation significance due to its retention of primitive traits among macaques.

Taxonomy

Phylum	Chordata
Sub-phylum	Vertebrata
Class	Mammalia
Order	Primates
Family	Cercopithecidae
Genus	<i>Macaca</i> (Lacépède 1799)
Species	<i>Macaca silenus</i> (Linnaeus, 1758)



The genus *Macaca* occupies a unique position among extant non-human primates in terms of its vast distribution range and the diversity of habitats colonized. The genus originated in northern Africa about 7 million years ago (mya) and from there in a series of disjunct migrations entered Eurasia and onward to south and south-east Asia (Delson, 1980, 1996; Campbell *et al.*, 2007). During its spread into Asia, the genus *Macaca* diversified into a number of distinct species groups which have been defined according to their geographical distribution, differences in male reproductive anatomy (Delson 1980) and more recently, molecular genetic data (Hayasaka *et al.*, 1996; Morales and Melnick, 1998; Tosi *et al.*, 2003). The *Silenus-Sylvanus* group is believed to be the first to have dispersed from Africa, and its 11 species are distributed throughout Asia and North Africa. After the macaques entered Asia, they diverged into the monophyletic *silenus* group from the common ancestor of all other Asian species at ~4.9 mya (Tosi *et al.*, 2003). A population in the Western-Ghats of India became isolated due to climatic changes and became the ancestors of present day lion tailed macaques. The common ancestry of lion tailed macaques to the *silenus-sylvanus* sub-group is attributed to its retaining the phylogenetically primitive genital morphological features (Fooden, 1976).

Ziegler and coworkers (2007) based on their studies on the molecular phylogeny of Southeast Asian primates in the *silenus* group suggested that the ancestors of the group split off from the proto-*M. fascicularis* group during the early-middle Pliocene. These ancestral members of the *silenus* group split into the eastern (Bornean) and the western (Sumatran, Malayasian) subgroups. The western sub-group migrated to peninsular India. The population that colonized the present day tropical evergreen and

semi-deciduous forests of Western-Ghats in south-western India became isolated due to aridification caused by climatic changes resulting in loss of habitat connectivity. This population evolved into the present day *Macaca silenus*. Mitochondrial-DNA analysis has revealed a further divergence between the populations north and south of the Palghat gap leading the splitting of the populations into two distinct 'Evolutionarily Significant Units' (Ram et al. 2015). Based on their findings, the authors suggested the segregation of the northern and southern populations in breeding programs.

Morphology

The species displays a number of phenotypic traits that distinguishes it from other macaques, most noticeable being the extreme blackness of the fur and the prominent silvery ruff. They are among the smaller sized macaques with males weighing on an average 8.9 kg and females weighing 6.1 kg (Harvey *et al.*, 1991). The respective head to body length in males and females is 510–610mm and 460mm (Fa, 1989). The tail length in males and females is 254–386mm and 254–370mm respectively (Kaumanns *et al.*, 2006). The pelage is predominantly black and like the trunk, the fur of the tail is uniformly blackish with elongated guard hairs at the tip of the tail forming a well-defined terminal tuft—hence, the name "liontail" from which it derives its common name (Fooden, 1975). Both the sexes possess a prominent silvery mane or ruff that first begins to appear when infants are 3-5 months of age that coincides in time with the change in the pink infantile face to the dark pigmented adult face (Lindburg and Harvey, 1996). Like the other members of the *silenus-sylvanus* sub-group, females have a pronounced phase of sexual skin tumescence, the general pattern of which is similar to the other members, although swelling is much less distended in estrous.

Distribution

This species is endemic to the Western Ghats, roughly distributed from 8°25'N Kalakad Hills to 14°55'N north of Anshi Ghat (Groves, 2001) in south western India, with its range passing through the three states of Karnataka, Kerala and Tamil Nadu. Although the species has a relatively wide range, its area of occupancy is small and severely fragmented (Molur *et al.*, 2003). Historically the species was distributed as a continuous population in the entire Western Ghats, but is now locally extinct in Maharashtra and Goa. The lion tailed macaques are divided into two sub populations by a gap of about 40 km in the mountains at Palghat in Kerala (Singh *et al.*, 2002; Kaumanns *et al.*, 2006; Kumar *et al.*, 2008).

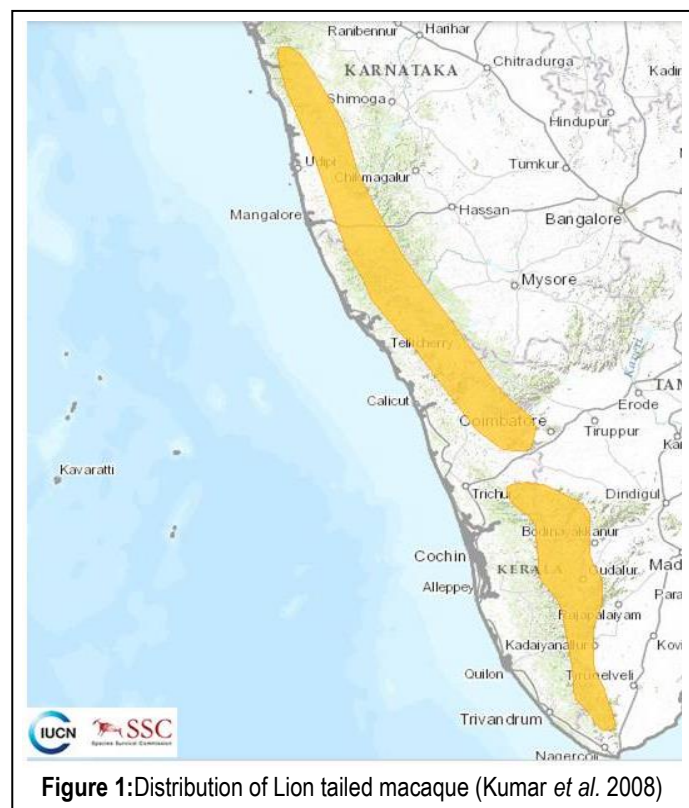


Figure 1: Distribution of Lion tailed macaque (Kumar *et al.* 2008)

Habitat

The lion tailed macaque is a habitat specialist, restricted to the evergreen forests of the Western Ghats (Singh *et al.*, 1997). They are found in mature mountainous forests, at altitudes between 610-1070m, with a large amount of canopy cover and protection from view (Kumara and Singh, 2008). They have home ranges varying between 1.25 km² (in forest fragments) (Kumar, 1987) and 5 km² (in continuous rainforest) (Green and Minkowski, 1977) and each troop's range includes perennial water resources. Lion tailed macaques are considered the most arboreal among macaques spending 93% of their time in the middle and upper parts of the forest canopy, and less than 1% of their time on the ground (Kurup and Kumar, 1993).

In the wet and higher altitude regions of the Western Ghats, lion-tailed macaques share the habitat with Nilgiri langurs (*Trachypithecus johnii*). The two sympatric species exhibit dietary and vertical separation in the utilization of resources (Singh *et al.*, 2000) with the former being frugivorous/folivorous and the latter primarily folivorous. Further, lion-tailed macaques move and feed in the upper canopy, while the Nilgiri langurs use the middle and lower canopies.

Feeding ecology

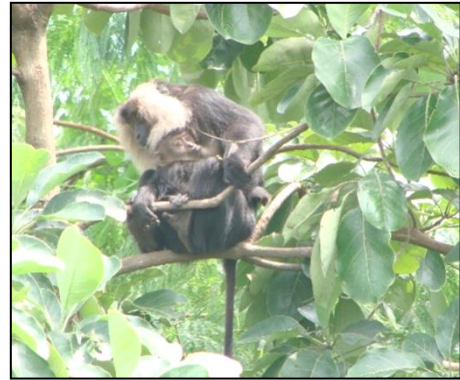
They are selective feeders (Sushma and Singh, 2006), with food resources widely dispersed (Ganesh and Davidar, 1999). It is primarily a frugivorous species, but its diet also includes a variety of fauna (Green and Minkowski, 1977; Kumar, 1987). The diet of lion tailed macaque is dominated by plant parts (fruit flesh, nectar and resins), rich in simple sugars or polysaccharides, but poor in protein (Kumar, 1987). The dependence on animal protein is likely due to their inability to process foliage protein and lack of leguminous seeds in their diet (Kumar, 1987).

They feed on diverse undisturbed mature rainforest trees and depend on different food resources according to the availability of food species across locations (Santosh *et al.*, 2015). The number of plant species consumed varies by site, ranging from 80 species reported from Silent Valley National Park, Kerala (Joseph and Ramachandran, 2001) to 24 plant species in the southern forests of Sirsi-Honnava (Singh *et al.*, 2011a). The faunal component of the diet consists mostly invertebrates, frogs and frog nests, lizards, small birds, their eggs and nestlings, and giant squirrels and nestlings. Arachnids and arthropods constitute the primary source of animal food (Kumar 1987; Kumara *et al.*, 2000; Sushma and Singh, 2008).

The highly dispersed distribution of food trees and food items that require processing, result in a large part of the day being spent on foraging and feeding (Menon and Poirier, 1996; Sushma, 2004). Group members maintain long inter-individual distances while foraging (Kumar, 1987, Krishnamani and Kumar, 2000; Kumara *et al.*, 2000; Singh *et al.*, 2001; Singh and Kaumanns, 2005).

Social organization and behaviour

Lion-tailed macaques live in multi-male, multi-female groups containing adult males, females and offspring (Thierry 2004) with group sizes ranging from six to 53 individuals (Green and Minkowsky, 1977; Kumar, 1987; Singh *et al.*, 2002). Troops include females and usually one and occasionally two males. The species shows female natal philopatry with males dispersing (Thierry, 2007). The adult sex ratio bias in troops is attributed to the male biased dispersal strategy, male's monopolization of available females in the troop (Singh *et al.*, 2011b). Multiple males are present in very large troops that may later split into sub-groups (Rowe, 1996). The female dominance hierarchy remains stable unlike males that vary through their lifetimes, following shifts in their competitive abilities.



Lion tailed macaque show fusion-fission troops like other macaques; however, the inter-subgroup distance of more than 100m has been observed (Sakthivelou and Kumar, 1998) with various sub-groups occupying different sleeping sites at night (Singh *et al.*, 2006b). This inter-individual distance increases at the time of foraging and ranging which take up more than 76% of the time of a day (Sushma, 2004). Males are spatially more widely distributed, display low degrees of social interactions and show high male to male aggression (Singh *et al.*, 2011b) preferentially interacting with only female troops. Studies in captivity also indicate low levels of mutual tolerance among adult males (Kaumanns and Singh, 2012).

Wild lion-tailed macaques spend only about 8% of their time in social activities, while 62% to 79% is spent on foraging and feeding (Menon and Poirier 1996; Singh *et al.*, 1998; Sushma, 2004). Affiliative behaviours such as proximity and grooming are more prevalent among the members of the same matriline (Birky, 1993).

Reproduction

Lion tailed macaques have a complex social and reproductive system, sensitive to both environmental and social changes that has adapted to its resource limited environment. The species as a consequence has evolved a life history trait to minimize investment in reproduction in having a low lifetime reproductive output (Singh *et al.*, 2006a) with a birth rate ranging between 0.28 to 0.42 (mean = 0.35) in the wild (Kumar, 1987; Sharma, 2002; Singh *et al.*, 2001). A female on an average contributes four to five offspring during its reproductive active period of 15 years (Singh *et al.*, 2006a). The offspring; however, have a high survivorship rate (infants: 0.87/year, juveniles: 0.90/year) (Kumar, 1987; Sharma, 2002) thereby ensuring adequate recruitment in the population for maintenance of population size.

The life history traits of the species are summarized in Table 1.

Table 1: Life-history traits of lion tailed macaque

Age at sexual maturity	In wild	-	80 months (Kumar 1987)
	In captivity	-	48 months (North American population) (Lindburg <i>et al.</i> , 1989)
		-	65.2 months (European population) (Krebs and Kaumanns, 2001)
Gestation period	172 days (Lasley <i>et al.</i> , 1985)		
Birth seasonality	Partially seasonal with a		
	-	major birth peak period during January–April (Singh <i>et al.</i> , 2006a; Sharma <i>et al.</i> , 2006)	
	-	minor peak during September–December (Sharma <i>et al.</i> , 2006)	
Mean inter-birth interval	34.3 months (Singh <i>et al.</i> , 2006a)		
	14 months if the infant dies (Singh <i>et al.</i> , 2006a)		
Reproductive tenure	15 years from the age of sexual maturity (Singh <i>et al.</i> , 2006a)		
Weaning age	10.5 months (Krishna <i>et al.</i> , 2008)		

The species has the shortest female sexual cycle lasting on an average 30.5 days with estrous females conspicuous by their swollen sexual skin in the sub-caudal region soliciting extra-troop males if present in the vicinity (Lindburg, 1990; Singh *et al.*, 2006a). Female solicitation includes loud proceptive calls and culminates in sexual presentation (Lindburg, 1990 Lindburg and Harvey, 1996); while the male approaches for mounting may be preceded or accompanied by the 'Len' expression. Estrous females form consort relationships with available males and typically leave their matriline associates to avoid harassment by other females (Kumar and Kurup, 1985; Kumar, 1987). Mating in lion-tailed macaques follows a multiple-mount-to- ejaculate (MME) pattern *i.e.*, repeated mountings by the male with a short gap between the mounts, and each mount not resulting in ejaculation.

The females withdraw from the troop for a few days before and after parturition. Maternal care in the species has been described as protection, ambivalence and rejection (Kumar, 1987). As the young grows, the frequency of positive responses by mother like grooming, manipulation, cradling, submitting, presenting, clasping, restraining and retrieving decreases, while negative responses like threatening and punishment increases. A sex-biased parental investment is displayed in which male infants receive more investment than female infants (Krishna *et al.*, 2008).

Threats and Conservation Measures

Lion-tailed macaques are the most threatened of the primates endemic to the Western Ghats (Easa *et al.*, 1997). The Nilgiri hills, Anamalai hills, and Cardamom hills in Kerala and Tamil Nadu are known to hold major portion of the population (Roonwal and Mohnot, 1977; Kumar, 1995; Singh *et al.*, 2002); however, habitat fragmentation has resulted in groups becoming isolated since decades (Singh *et al.*, 2002). Ram *et al.* (2015) have observed depleted mitochondrial DNA diversity in troops inhabiting fragmented patches. The total number of mature lion-tailed macaques is estimated to be less than 2,500, distributed into 49 subpopulations with no subpopulation containing more than 250 individuals (Molur *et al.*, 2003).

Being primarily frugivorous with a narrow dietary niche, lion-tailed macaques are particularly vulnerable to habitat disturbances (Rode *et al.*, 2006; Bicknell and Peres, 2010), affecting their demography, ranging patterns, feeding habits and reproductive rates (Kumar *et al.*, 1995; Singh *et al.*, 2001; Kumara and Singh 2004).

The lion tailed macaque is categorized as endangered in the IUCN Mammal Red Data Book (C2a(i) ver 3.1). The species is listed in Annexure I of CITES, and in Schedule I, Part I, of the Indian Wildlife (Protection) Act, 1972. The lion-tailed macaque was considered as one of the ‘top 25 most endangered primates in the world’ in 2010.

Status in Captivity

Recognizing its threatened status, global attention has focused on developing both *in-situ* and *ex-situ* conservation strategies for lion tailed macaques. In the 1980s, an international breeding programme for the lion-tailed macaque was established under the Species Survival Plan (SSP) of North America and

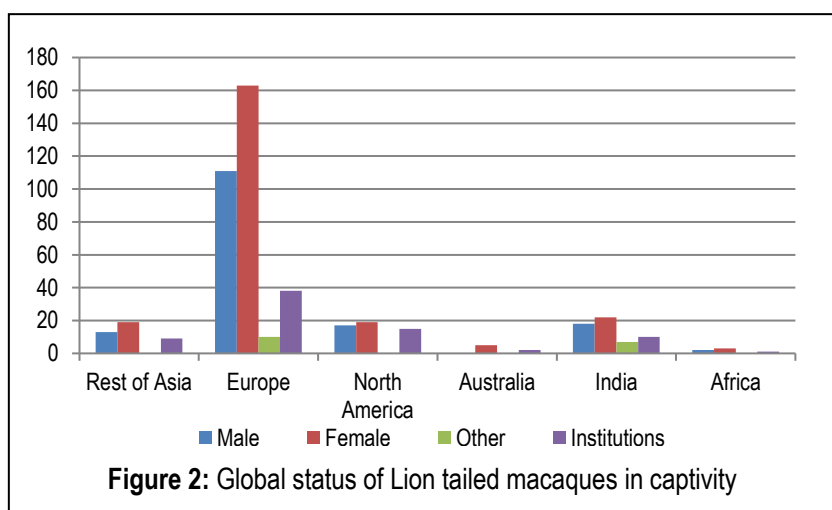


Figure 2: Global status of Lion tailed macaques in captivity

European Endangered Species Breeding Programmes (EEP), to develop and maintain viable populations in captivity. The total global captive population comprises of 409 (160.231.17) individuals housed at 75 institutions across 5 regions including 1 in Africa, 19 in Asia, 2 in Australia, 38 in Europe and 15 in North America (ZIMS data until April 2018) (Figure 2). The record includes information from 10 Indian zoos.

The Wildlife Institute of India has been maintaining the National studbook of the species to assist in this *ex-situ* conservation attempt since 2003. The first edition was developed by Choudhury *et al.* in 2003; this was updated and revised by Malviya *et al.*, in 2011. The third edition of the studbook based on the earlier editions includes information made available for all specimens held in Indian zoos includes 63 living individuals housed across 13 facilities with 6 institutions holding lone individuals. The current edition of the studbook records the presence of 70 (28.33.9) individuals living at 12 locations based on the information made available by holding institutions and the Species360 database.

Table 2: Status of lion tailed macaque in Indian zoos

Zoo	Species360				CZA Inventory				Studbook			
	Male	Female	Unsexed	Total	Male	Female	Unsexed	Total	Male	Female	Unsexed	Total
Bannergahta Biological Park, Bengaluru	0	1	0	1	0	1	0	1	0	1	0	1
Mahendra Chaudhary Zoological Park, Mohali	1	0	0	1	1	0	0	1	1	0	0	1
National Zoological Park, New Delhi !	3	1	1	5	4	1	0	5	4	3	3	10
Nehru Zoological Park, Hyderabad	1	1	0	2	1	1	0	2	1	1	0	2
Kanpur Zoological Park, Kanpur	2	2	0	4	--	--	--	--	--	--	--	--
Nawab Wazid Ali Shah Zoological Park, Lucknow	1	1	0	2	1	1	0	2	1	1	0	2
Arignar Anna Zool. Park, Chennai *	7	9	6	22	6	9	6	21	7	9	6	22
Dr. Shivaram Karnath Biological Park, Mangaluru	1	1	0	2	1	1	0	2	1	1	0	2
Sri Chamarajendra Zoological Park, Mysore	2	4	0	6	2	4	0	6	2	4	0	6
Veer mata Jijabai Bhosle Udyan & Zoo, Mumbai	0	2	0	2	--	--	--	--	--	--	--	--
Thrissur Zoo, Trichur	--	--	--	--	0	1	0	1	0	1	0	1
Thiruvananthapuram Zoo, Thiruvananthapuram	--	--	--	--	5	5	0	10	5	5	0	10
Total	18	22	7	47	21	24	6	51	22	26	9	57

! : Data for National Zoological Park, New Delhi, is based on records maintained by the zoo on the ZIMS platform.

* : Data for Arignar Anna Zool. Park, Chennai, is based on records provided by the zoo and that maintained by it on the ZIMS platform.

Methods

Pedigree data was collected by means of questionnaires, zoo visits and from the websites of CZA and ZIMS (Zoological Information Management System). Questionnaires were sent to the institutions housing lion tailed macaques in India, requesting information for each captive specimen. Data was entered in the Single Population Analysis and Records Keeping System (SPARKS v 1.66) (ISIS 2004) and subsequently exported to population management programme PMx v 1.2 (Ballou *et al.*, 2011) for further analysis.

Scope of the studbook and data quality

- The IV edition of the National Studbook of lion Tailed Macaque includes information on all captive specimens, held by Indian zoos currently and in the past. The studbook is current

through March 31 2018, and is based on data made available by the holding zoos and information from taxon reports from the Species360 website.

- The mnemonics included in the SPARKS software have been used for indicating locations of specimens in the studbook. The same are listed in the location glossary (Annexure IV).
- Recent molecular genetics studies have delineated the populations north and south of the Palghat gap as distinct evolutionary significant units. An attempt has been made to provide separate breeding recommendations for the northern and southern populations based on the information from Ram Ram et al. (2015).
- The captive population has; however, could not be completely segregated into the northern and southern populations as identification of origin of all the individuals (living and dead) on the basis of available information could not be carried out.

Analysis

Demographic Status

Historical population

Census trends: A historical population of 304 specimens (127.146.31) is documented in the current edition of the National Studbook. The population includes 120 (53.67) wild-born, 171 (69.71.31) captive-born, and 13 (5.8.0) unknown-origin individuals. The census trends of the population since 1949 is represented in Figure 3. The initial captive

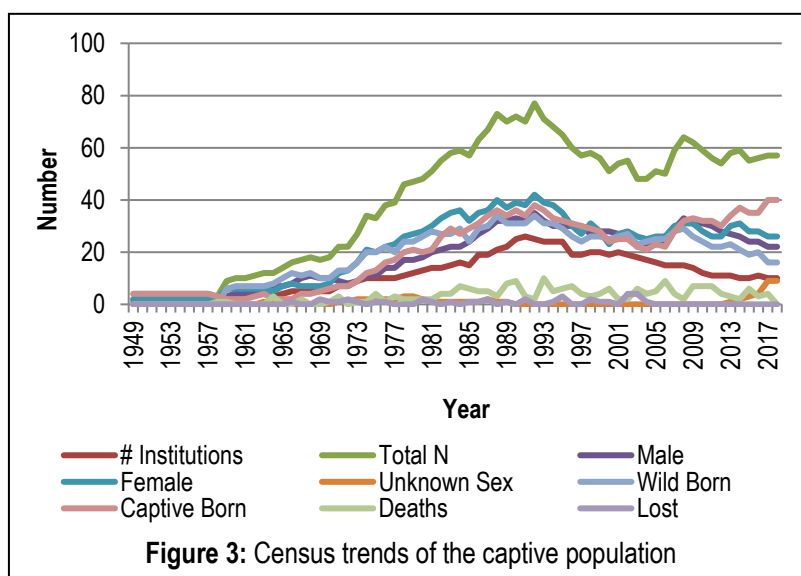


Figure 3: Census trends of the captive population

stock that included four (2.2.0) individuals housed at Veermata Jijabai Bhosale Udyan zoo, Mumbai was born to parents of unknown identification in 1949. These animals were transferred to Melbourne in the same year and no further record of the species in Indian zoos is available till 1959. The captive population was reestablished with the acquisition of 6 (2.4.0) wild-born individuals in Delhi zoo and one (1.0.0) unknown origin animal in Thrissur.

The census trends (Figure 3) indicate a consistent recruitment of wild origin animals and births in captivity leading to a peak population size of 74 (35.39.0) individuals in 1992. The

Table 3: Summary of the historical population

	Males	Females	Unknown	Total
Studbook size	127	146	31	304
Wild origin individuals	53	67	0	120
Captive births	69	71	31	171
Unknown origin individuals	5	8	0	13
Lost to follow up (Ltf)	19	19	0	38
Breeding individuals	31	49	0	80

population declined during 1993-2000 due to decline in captive births (n=14) that together with acquisition of wild origin animals did not compensate for mortalities (n=41) during the period. Post 2000, the population once again showed an increase in captive births that despite reduced acquisitions from wild was able to ensure an increase in population size till 2008. The population again declined during 2009 – 2012 due to an increased number of mortalities (n=25) and limited recruitment from wild (n=1).

Living population

The living population consists of a total of 57(22.26.9) individuals including 17 wild-born and 40(16.15.9) captive-born individuals. The living population is summarized in table 4 and details are presented in Annexure II. The population has 33% breeding individuals in the population; however, the small size of the population limits its rapid growth.

Table 4:Summary of the living captive population

	Males	Females	Unknown	Total
Living individuals	22	26	9	57
Wild-born individuals	6	11	0	17
Captive-born individuals	16	15	9	40
Breeding individuals	4	15	0	19

Age and sex structure

The living population includes 57 (22.26.9) individuals. The age-structure of the known-age individuals of this population is depicted in Figure 4. The figure indicates three distinct age-classes; the post-reproductive age-class (>20 years) comprising of 4 (1.3.0) individuals, the reproductive age class (3-20 years) comprising of 43 (19.20.4) individuals and the pre-reproductive age-class includes 10 (2.3.5) individuals. A perusal of the age structure (Figure 4) and the living population (Table 4) indicates that approximately 75%of animals are present in the reproductively active age class though only 19 (4.5.0) are proven breeders.

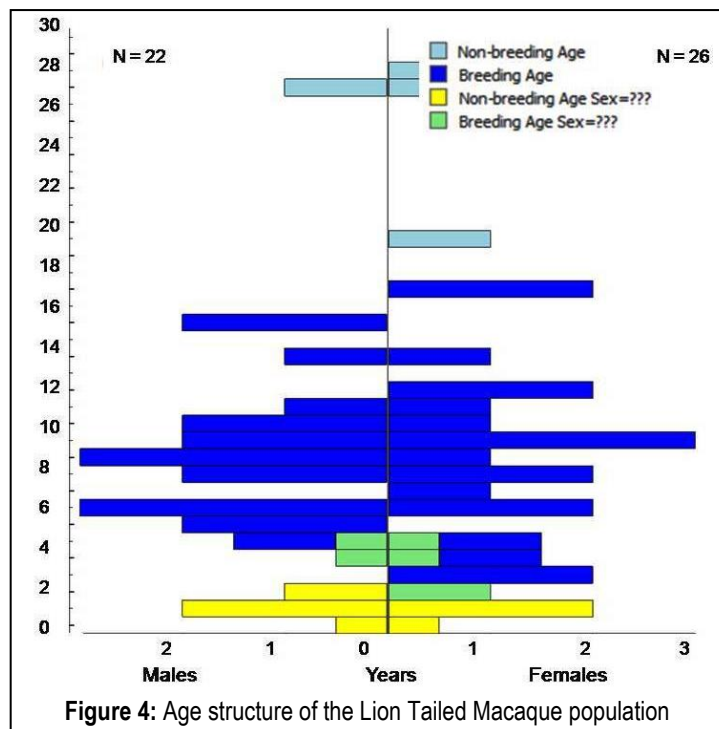


Figure 4: Age structure of the Lion Tailed Macaque population

Table 5: Life-table summary

	Male	Female	Total
Population growth rate (λ)	0.977	0.956	0.967
Mean generation time (T)	10.9 Yrs	9.9 Yrs	10.4 Yrs
N at 20 years	14	13.5	27.5

Population vital rates

Age-specific rates of survivorship and

fecundity obtained from life-tables are used to predict growth and changes in the age-structure of the population over time. The life table for the captive population of lion tailed macaque is based on a small sample size of, conclusions about life-history characteristics should be treated with caution. The vital rates for the population are summarized in Table 5.

The population growth rate (0.967) indicates a decline of approximately 3% annually in the population. The generation length calculated using the age-specific reproductive data available from the studbook was 10.9 years for males and 9.9 years for females. The analyses carried out suggests that the current population is not self-sustainable without supplementation using wild origin specimens and it is likely that it will decline to only 27.5(14.13.5) individuals over the next 20 years.

Genetic Status

The current population of 57 specimens includes contributions from 15 (0.6 living) founders. The founder animals are unequally represented in the population as is indicated by the low value of founder genome equivalents (3.29). The individuals in the population are closely related to each other (ranging between first cousins to half siblings) as is indicated by the high values of population mean kinship and mean inbreeding.

Table 6: Genetic summary

	Current
Living	57
Founders	15
Gene Diversity	0.8479
Pedigree known	88%
Founder Genome Equivalents	3.29
Population Mean Kinship	0.1521
Mean Inbreeding	0.1174
Ne/N	0.2567

Thus despite the population retaining 88% of the genetic diversity acquired from the wild close relationships between specimens with the small size of the population remain causes for concern.

Pairing Recommendations

The breeding recommendations for the captive population of lion-tailed macaques has been based on the delineation of the populations north and south of the Palghat gap as distinct evolutionary significant units (ESUs) (Ram et al. 2015). Identities of specimens in the captive population segregated into the two distinct evolutionary significant units (ESUs) were provided by Dr. G. Umapathy, (Personal Communication). Based on the identities of animals provided, attempts were made to segregate additional animals; in the parents as well as the offspring using the Pedigree Chart Report, Annexure III of the captive population. The details of animals segregated in the population are provided in table 7.

Table 7: Details of genetic affiliation of captive lion-tailed macaques in Indian zoos

Sample No.	Zoo	Name	Studbook no.	Genetic* affiliation	Sex	NSB #	Current age if alive	Descendants Male	Descendants Female	Descendants Unswexed	Remarks
B1	Mysore	Shanti	63AFBBC	North	F	184	Dead	0	0	0	Wild origin
B2	Mysore	Ashwath	63B2823	North	M	265	Dead	0	0	0	Wild origin
B4	Mysore	Ankitha	63B96F1	North	F	261	Alive 17 yrs	338 (0) dead	0	0	Wild origin
B5	Mysore	Priya	63B3B7F	North	F	175	Alive, Reproductively senescent	0	0	0	Wild origin
B6	Mysore	Nethra	63AFF83	North	F	86	Dead	0	0	0	Wild origin
B7	Mysore	SAM?	A315F?	North	M	Could not be identified based on data available					
M1	Mysore	Swathi	63B010B	North	F	281	Alive 13 yrs	0	344 (0) Alive 10 yrs	335(0) Dead	Wild origin
B11	Trivandrum	Ammu	6B717FD	North	F	Could not be identified based on data available					
TZ2	Trivandrum	Langur Moat		North	M	Could not be identified based on data available					
TZ3	Trivandrum	Mahi?		North	M	Could not be identified based on data available					
B3	Mysore	Geetha	63B1763	South	F	253	Dead	0	0	0	Wild origin
B8	Trivandrum	Manju	6B710ED	South	F	291	Alive 11 yrs	0	0	0	Sire 186 Dam 121
B9	Trivandrum	Pachi	611375A	South	F	172	Alive 22 yrs	0	0	0	Wild origin
B10	Trivandrum	Lakshmi	6B72963	South	F	116	Alive reproductively senescent	0	0	290(0) Dead	Wild origin
B12	Trivandrum	Kannan	6B73D81	South	M	280	Alive 13 yrs	0	0	0	Sire 186 Dam 121
B13	Trivandrum	Kuttan	6B71D39	South	M	313	Alive 12 yrs	0	0	0	Wild origin
B14	Trivandrum	Laxman	6B729E5	South	M	Could not be identified based on data available					
B15	Trivandrum	Radha	6B74651	South	F	312	Alive 18 yrs	0	0	0	Wild origin
B16	Trivandrum	Bindu	6B74634	South	F	121	Alive reproductively senescent,	280 (0) Alive 13 yrs	291(0) Alive 11 yrs		Wild origin
TZ1	Trivandrum	AM?		South	M	Could not be identified based on data available					
TZ4	Trivandrum	Rajesh	6B72552	South	M	266	Ltf	0	0	0	Wild origin
CB1	Chennai	Anitha		South	F	273	Alive 14 yrs	307(0) Alive 7 yrs	300 Alive 10 yrs, (3) nsb 346, 350, 354 346 Alive 4 yrs,	Offspring of 300 350 Dead 354 Alive 1 yrs	Sire 182 Dam 191

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CB2	Chennai	Mala		South	F	190	Alive 20 yrs		274(0) Dead, 279(0) Alive 13 yrs	295(0) Dead	Sire 120 Dam 110
CB3	Chennai	Veni		South	F	187	Alive 23 yrs	263 Alive 16 yrs 299 Offspring of 263 Dead 271 Dead Offspring of 271 336 Alive 7 yrs, 337 Alive 7 yrs, 342 Dead, 286(0) Dead, 287(0) Dead, 299(0) Dead, 301(0) Alive 10 yrs, 336(0) Alive 7 yrs, 337(0) alive 7 yrs, 342(0) Dead	Offspring of 271 343 Dead 277(0) Alive 14 yrs 343(0) Dead	293(0) Dead	
CB4	Chennai	Rahavi		South	F	Could not be identified based on data available					
CB5	Chennai	Sandhya		South	F	Could not be identified based on data available					
CB6	Chennai	Amala		South	F	300		Alive 10 yrs; 346(0) Alive 4 yrs, 350(0) Dead, 354 Alive 1 yrs,			Sire 182 Dam 273
CB7	Chennai	Sindhu		South	F	277		Alive 14 yrs 0			Sire 182 Dam 187
D1	Delhi	Radha		South	F	Could not be identified based on data available					
D2	Delhi	Karthik		South	M	Could not be identified based on data available					
D3	Delhi	Lokesh		South	M	Could not be identified based on data available					
D4	Delhi	Ravi		South	M	Could not be identified based on data available					

*-North – North of Palghat Gap; South – South of Palghat gap.

Areas shaded in grey in table 7 indicate data provided by LaCONES – CZA

Numbers in the Descendants columns indicate the national studbook numbers of identified specimens

Numbers in () in the Descendants columns indicate the number of offspring of particular specimen

The segregation of the two ESUs while limiting mating choices ensures maintenance of distinctness of each. Based on the pairing choices available amongst the identified animals and the Mate Suitability Index (MSI) scores obtained, the pairing choices for the southern population are provided in table 8 below however for the northern population no males could be identified and therefore the choices are not included in the studbook. The mating choices proposed would lead to an increase of 1.773% in the genetic diversity retained by the captive population.

Table 8: Pairing options for the captive lion tailed macaque northern population

Dam	Dam Location	Sire	Sire Location	F	dGD	MSI
312	Trivandrum	313	Trivandrum	0.0000	0.0143	1
191	Madras	280	Trivandrum	0.0000	0.0366	1
291	Trivandrum	313	Trivandrum	0.0000	0.0062	2
187	Madras	284	Madras	0.0625	0.0415	4
190	Madras	284	Madras	0.0625	0.0398	4
272	Delhi	284	Madras	0.0625	0.0389	4

F: Inbreeding coefficient; dGD: Change in genetic diversity; MSI: Mate suitability index

Targets for Population Management

The current captive population of lion tailed macaque includes 57 (22.26.9) individuals with a large proportion of specimens in the reproductively-active age classes (19.20.4). The population is declining and at the rate of approximately 3% per year. It retains a gene diversity of 84.79% of the 15 founders, with a high level of relatedness among individuals as indicated by the mean kinship value of specimens and the mean inbreeding coefficient (MK= 0.1521, F= 0.1174). Multiple simulations were run using PMx to determine the fate of the current population, the effects of increased population growth rate and supplementation with wild origin animals that are effective founders; over the next 100 years.

Scenario I:

The simulation was run keeping the current population variables with no supplementation. The outcomes indicate that the population was unlikely to survive over the next 100 years and would be unable to achieve the goal of maintaining a demographically and genetically viable population in captivity. The population variables used and the outcomes of the simulation are presented in Figure 5.

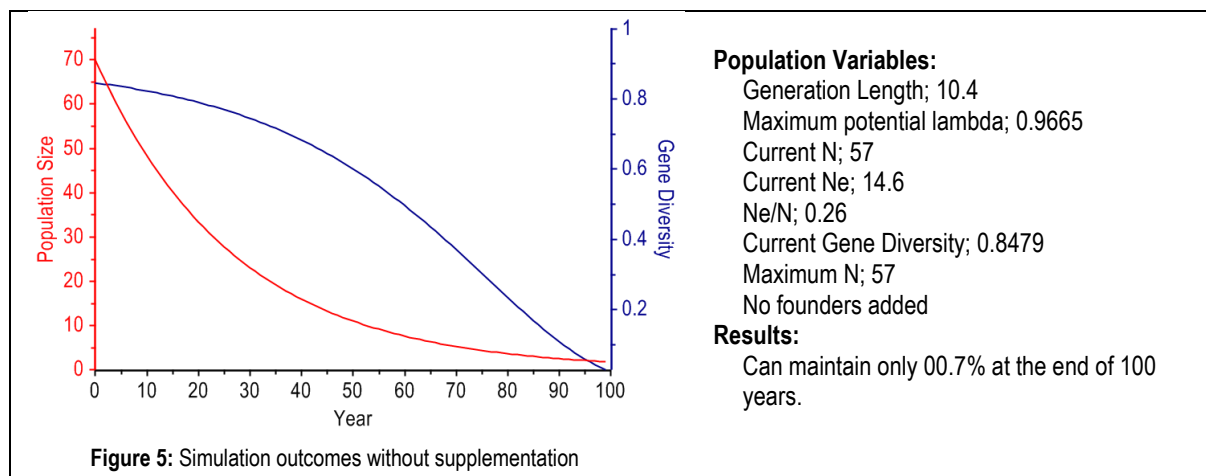
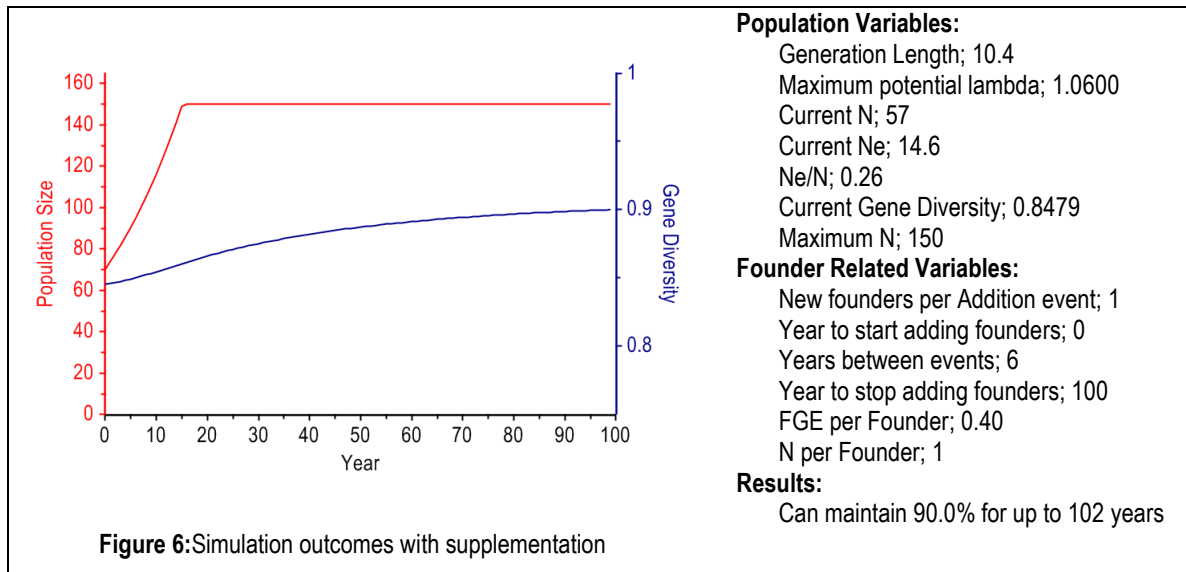


Figure 5: Simulation outcomes without supplementation

Scenario II:

The outcomes of the simulation that was run using a maximum potential lambda of 1.0600, increasing the maximum size of the population to 150 specimens and supplementation with one effective founder every seven years indicates an effective means of maintaining a sustainable population in captivity. The population and founder related variables, and the simulation outcome are presented as Figures 6. The outcomes indicate that the population would be able to achieve its goals over the next 15 years with subsequent supplementation ensuring that it retains 90% genetic diversity over the next 100 years.



Conclusions and Recommendations

Lion tailed macaques are a primate species endemic to the Western Ghats of south-western India. The species in its range is threatened by a variety of reasons and is listed as endangered in the IUCN Red List. The threat perception of the species is further enhanced by delineation of the population into two evolutionary significant units (ESUs) north and south of the Palghat Gap by Ram et al. (2015). The maintenance of genetically viable and demographically stable *ex-situ* populations of the two ESUs is thus critical towards ensuring the long term survival of the species.

The current captive population of 57(22.26.9) is characterized by a declining trend with a negative growth rate ($\lambda = 0.967$) and sub-optimal genetic diversity of 84.79% and relatedness at half-sibling to full sibling level as is evinced by mean inbreeding and mean kinship of the population ($F = 0.1174$; $MK = 0.1521$).

Analysis of the pedigree database also shows the following:

- Delineation of specimens based on available information indicates the presence of 2 living females of the northern population of which only one has reproduced. No living males could be identified for the northern ESU in the captive population.

- For the southern population 10 living females with 7 in reproductively active age classes and 3 males all in reproductively active age classes could be identified.
- The population includes a large number (N = 98) of wild origin animals that have not contributed to the captive gene pool. It further, has a small size due to the low reproductive output of the captive population.
- A possible reason for the low founder representation could be inadequate socialization process prior to introduction to captive troops, reproductively unfit and aged animals and suboptimal housing and husbandry conditions being practiced at holding zoos.

Intensive management interventions are needed for achieving *ex-situ* conservation goals.

1. As a first step in this direction efforts at identifying the ESUs to which specimens belong and possible hybrids need to be identified based on molecular genetic analysis. Accurate identification of specimens based on identifiers and markings used by holding zoos for each specimen is necessary for delineation of the populations.
2. Shortcomings in husbandry and housing based on a review of existing practices should form the basis for practices to be adopted in future.
3. Species appropriate social structure of the troops should be maintained in captivity. This can be ensured by transferring animals living in unviable social groupings to locations with adequate infrastructure (appropriate housing). As a prerequisite towards ensuring effective socialization, all new introductions should be in controlled conditions and supervision.

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Historical population of Lion tailed macaque (*Macaca silenus*)

Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
1	M	~ 1955	WILD	WILD	INDIA ASSAM	~ 1966 21-Sep-66 10-Apr-71	Capture Transfer Death	Donated
6	M	~ 1957	WILD	WILD	INDIA DELHI	~ 1959 11-Sep-59 20-Sep-90	Capture Transfer Death	Donated
7	F	~ 1957	WILD	WILD	INDIA DELHI	~ 1959 11-Sep-59 04-Oct-70	Capture Transfer Death	Donated
8	F	~ 1957	WILD	WILD	INDIA DELHI BURMA	~ 1959 23-Oct-59 06-Nov-69	Capture Transfer lft	Donated
9	M	~ 1957	WILD	WILD	INDIA DELHI BURMA	~ 1959 23-Oct-59 06-Nov-69	Capture Transfer lft	Donated
10	F	~ 1957	WILD	WILD	INDIA DELHI	~ 1959 23-Oct-59 31-Dec-76	Capture Transfer Death	
11	F	~ 1957	WILD	WILD	INDIA DELHI	~ 1959 23-Oct-59 23-Nov-67	Capture Transfer Death	
12	F	~ 1958	WILD	WILD	INDIA ASSAM	~ 1966 21-Sep-66	Capture lft	
13	M	~ 1960	WILD	WILD	INDIA HYDERABAD	~ 1960 20-Feb-64 24-Jul-83	Capture Transfer Death	
14	M	~ 1960	WILD	WILD	INDIA HYDERABAD	~ 1964 20-Feb-64 24-Jul-83	Capture Transfer Death	
16	M	18-Mar-62	6	7	DELHI	18-Mar-62 10-Oct-77	Birth Death	
19	F	~ 1963	WILD	WILD	INDIA NANDANKAN	~ 1965 29-Jan-66 16-Jun-84	Capture Transfer Death	
20	F	~ 1963	WILD	WILD	INDIA NANDANKAN	~ 1965 29-Jan-66 18-May-67	Capture Transfer Death	
21	F	~ 1964	WILD	WILD	INDIA DELHI	~ 1966 29-Apr-66 20-Nov-77	Capture Transfer Death	Donated
23	M	~ 1965	WILD	WILD	INDIA NANDANKAN	~ 1967 29-Mar-67 15-Nov-75	Capture Transfer Death	
26 171042 ANGEL	F	13-Jun-67	6	7	DELHI SANDIEGOZ	13-Jun-67 09-Mar-71 06-Jan-93	Birth Transfer Death	
27 171041 LINUS	M	01-Mar-67	6	10	DELHI SANDIEGOZ	01-Mar-67 09-Mar-71 02-Apr-93	Birth Transfer Death	
28	F	~ 1968	WILD	WILD	INDIA DELHI	~Mar 1970ñ1m 26-Mar-70 08-Nov-85	Capture Transfer Death	
29	F	07-Jan-69	6	7	DELHI	07-Jan-69 13-Aug-82	Birth Death	

Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
31	F	15-Jun-69	WILD	WILD	INDIA CALCUTTA ADELAIDE	~ 1971 ~ 1971 18-Oct-71 18-Jul-85	Capture Transfer Transfer Death	
32	F	~ 1969	WILD	WILD	INDIA CALCUTTA ADELAIDE	~ 1971 ~ 1971 18-Oct-71 09-Feb-96	Capture Transfer Transfer Death	
34	F	~ 1970	WILD	WILD	INDIA ASSAM	~ 1973 14-Aug-73 12-Apr-77	Capture Transfer Death	Bought from Patna Animal Dealer
35	F	19-May-70	6	10	DELHI	19-May-70 16-Mar-79	Birth Death	
36 2301 KALLOO	M	~ 1970	WILD	WILD	INDIA KANPUR	30-Jun-73 06-Oct-73 03-Feb-94	Capture Transfer Death	Bought from Patna Animal Dealer
37	M	~ 1971	WILD	WILD	INDIA ASSAM	~ 1973 08-Oct-73 08-Oct-73	Capture Transfer Death	Bought from Patna Animal Dealer
38	?	07-May-71	16	10	DELHI	07-May-71 01-Dec-81	Birth Death	
39	M	09-Sep-71	16	21	DELHI	09-Sep-71 06-Nov-84	Birth Death	
40	M	~ 1972	WILD	WILD	INDIA NANDANKAN	~ 1974 13-Feb-74 10-Feb-82	Capture Transfer Death	Bought from Mysore Animal Dealer
41	F	~ 1972	WILD	WILD	INDIA NANDANKAN	~ 1974 13-Feb-74 29-Aug-75	Capture Transfer Death	Bought from Mysore Animal Dealer
42	F	01-Apr-72	16	10	DELHI	01-Apr-72	Birth Ltf	
43 2302 BHOLA	M	~ 1972	WILD	WILD	INDIA KANPUR	~ 1974 ~ 1974 31-Mar-87	Capture Transfer Death	Bought from Patna Animal Dealer
44 2303 BUDHA	M	~ 1972	WILD	WILD	INDIA KANPUR	~ 1974 06-Nov-74 21-Jun-93	Capture Transfer Death	Bought from Patna Animal Dealer
45 2304 MEETA	F	~ 1973	WILD	WILD	INDIA KANPUR	~ 1974 20-Jan-75 11-Aug-90	Capture Transfer Death	Bought from Patna Animal Dealer
46	?	14-Apr-73	16	21	DELHI	14-Apr-73 11-Jun-79	Birth Death	
47	F	28-Sep-73	16	10	DELHI	28-Sep-73 17-Jun-89	Birth Death	
48	F	24-Sep-74	16	29	DELHI	24-Sep-74 01-Dec-87	Birth Death	
49	F	10-Nov-74	16	10	DELHI	10-Nov-74 12-Nov-85	Birth Death	
50	F	24-May-75	16	21	DELHI	24-May-75 21-May-87	Birth Death	
51	M	~ 1976	WILD	WILD	INDIA TRIVANDRU CHATBIR Z	~ 1978 01-Jul-78 06-Mar-79 29-Sep-84	Capture Transfer Transfer Death	
52	F	~ 1976	WILD	WILD	INDIA TRIVANDRU CHATBIR Z	~ 1978 ~ 1978 06-Mar-79 01-Jul-81	Capture Transfer Transfer Death	

Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
53	M	23-Mar-76	16	29	DELHI JAIPUR	23-Mar-76 27-May-87 14-Oct-94	Birth Transfer Death	
54 RAM LTM6	M	26-May-76	16	35	DELHI NANDANKAN	26-May-76 20-Jan-82 06-Mar-01	Birth Transfer Death	
55	F	13-Nov-76	16	21	DELHI	13-Nov-76 27-Aug-89	Birth Death	
56	F	20-Feb-77	78	79	TRIVANDRU	20-Feb-77 03-Sep-84	Birth Death	
57	F	18-Jul-77	16	42	DELHI NANDANKAN	18-Jul-77 20-Jan-82 24-Aug-96	Birth Transfer Death	
58	M	26-Apr-78	39	35	DELHI JAIPUR	26-Apr-78 11-Feb-81 16-Oct-82	Birth Transfer Death	
59	F	29-Apr-78	39	29	DELHI BHILAI	29-Apr-78 ???? ~ 1991	Birth Transfer Lf	
60	?	11-Aug-78	39	35	DELHI	11-Aug-78 03-Sep-90	Birth Death	
61	F	29-Sep-78	78	79	TRIVANDRU	29-Sep-78 13-Aug-84	Birth Death	
62	?	01-Oct-78	39	42	DELHI	01-Oct-78 21-Oct-78	Birth Death	
63	?	17-Oct-78	39	48	DELHI	17-Oct-78 17-Oct-78	Birth Death	
64 5	F	~ 1979	WILD	WILD	INDIA HYDERABAD	~ 1983 12-Sep-83 10-Sep-85	Capture Transfer Death	
65	F	29-Jul-79	39	48	DELHI	29-Jul-79 16-Apr-91	Birth Death	
66 2305 NEETA	F	05-Aug-79	36	45	KANPUR	05-Aug-79 ~ 2000	Birth Death	
67	M	11-Sep-79	39	48	DELHI BHILAI	11-Sep-79 ???? ~ 1991	Birth Transfer Lf	
68	?	01-Oct-79	39	42	DELHI	01-Oct-79 03-Jan-80	Birth Death	
78	M	~ 1973	WILD	WILD	INDIA TRIVANDRU JAIPUR	30-Jun-75 09-Dec-75 12-May-81 18-Nov-96	Capture Transfer Transfer Death	
79	F	~ 1973	WILD	WILD	INDIA TRIVANDRU JAIPUR	~ 1975 16-Dec-75 12-May-81 10-Jun-90	Capture Transfer Transfer Death	
81 SONI	F	~ 1980	WILD	WILD	INDIA CHATBIR Z	~ 1981 26-Oct-81 16-Sep-89	Capture Transfer Death	Bought from Hyderabad Animal Dealer
82 MAHIWAL BUGGA	M	~ 1980	WILD	WILD	INDIA CHATBIR Z	~ 1981 26-Oct-81 16-Sep-89	Capture Transfer Death	
83 101 RAM	M	????	WILD	WILD	INDIA BANNERGHA	28-Dec-06 28-Dec-06 11-Feb-17	Capture Transfer Death	Captured from Bhagmandala, Kodagu

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Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
86 NETHRA 00063AFF83 M00036	F	~ 1982	WILD	WILD	INDIA BANNERGHA MYSORE	???? ???? 20-Jan-92 12-Mar-15	Capture Transfer Transfer Death	
87	M	04-Apr-80	39	47	DELHI	04-Apr-80	Birth Ltf	
88	?	10-Nov-80	39	49	DELHI	10-Nov-80 13-Nov-80	Birth Death	
91	F	01-May-81	39	42	DELHI	01-May-81 06-Feb-00	Birth Death	
92	F	10-Jul-81	39	49	DELHI	10-Jul-81	Birth Ltf	
93 ML0001 PAVAN	M	~ 1982	WILD	WILD	INDIA HYDERABAD	~ 1983 12-Jul-83 21-Oct-90	Capture Transfer Death	Bought from Madras Animal Dealer
94 ML0002 SUMITRA	F	~ 1982	WILD	WILD	INDIA HYDERABAD	~ 1984 08-Mar-84 02-Feb-90	Capture Transfer Death	
95	F	~ 1982	WILD	WILD	INDIA HYDERABAD	~ 1984 08-Mar-84 14-Jan-97	Capture Transfer Death	
96 MOHAN	M	~ 1982	WILD	WILD	INDIA TRIVANDRU	~ 1987 22-Apr-87	Capture Transfer Ltf	
97 10029	F	31-Mar-82	154	56	TRIVANDRU VEERMATA	31-Mar-82 22-Dec-92 09-Nov-93	Birth Transfer Death	
98 KALUA 1KAN3	M	28-Apr-82	39	47	DELHI LUCKNOW KANPUR	28-Apr-82 24-Mar-88 23-Jan-96 ~ 2000	Birth Transfer Transfer Death	
99	F	02-Jul-82	39	48	DELHI CHATBIR Z	02-Jul-82 21-Oct-89 17-Aug-95	Birth Transfer Death	
100	F	26-Aug-82	39	42	DELHI LUCKNOW	26-Aug-82 24-Mar-88 10-Jun-88	Birth Transfer Death	
101 240001	M	02-Dec-82	39	50	DELHI	02-Dec-82 02-Apr-98	Birth Death	
102	M	~ 1983	WILD	WILD	INDIA PESHWE PUNE	~ 1983 ~ 1983 11-Jan-84 27-Dec-06	Capture Transfer Transfer Death	
103 BORI	F	26-Nov-82	78	79	JAIPUR TRIPURA	26-Nov-82 26-Apr-90 03-Aug-00	Birth Transfer Death	
104 JAYA	F	~ 1983	WILD	WILD	INDIA MADRAS ASSAM	???? ???? 15-Jun-86 31-Jan-92	Capture Transfer Transfer Death	
105 RAMAN	M	~ 1983	WILD	WILD	INDIA KODANAD	~ 1995 14-Nov-95	Capture Ltf	Captured from Nilambar Range, Kodanadu
106 RAJU	M	24-Jan-83	154	61	TRIVANDRU	24-Jan-83 10-Nov-06	Birth Death	

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Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
107 891092 91049 SIMBA	M	14-May-83	39	47	DELHI NY BRONX BALTIMORE	14-May-83 31-Mar-89 15-May-91 24-Sep-03	Birth Transfer Transfer Death	
108	M	17-Jul-83	36	45	KANPUR	17-Jul-83 18-Jul-83	Birth Death	
109 FEMAL2	F	04-Oct-83	54	57	NANDANKAN	04-Oct-83 24-Aug-96	Birth Death	
110 100001 MOHAN	M	~ 1984	WILD	WILD	INDIA MADRAS	~15-May- 198526-May- 1985 09-Apr-2015	Capture Transfer Death	Captured from Valparai
111 RAJA	M	~ 1984	WILD	WILD	INDIA PARASSINI	~ 1986 01-Feb-86	Capture Transfer Lf	
112 RAMA 20487 502160 000634EA4C	M	19-Feb-84	WILD	161	TRIVANDRU MYSORE TORONTO SANDIEGOZ SD-WAP SANDIEGOZ	19-Feb-84 04-Aug-84 09-Mar-86 05-Jun-02 25-Jul-02 06-Jun-05 18-Sep-13	Birth Transfer Transfer Transfer Transfer Transfer Death	Tattoo: F617
113	F	22-Jun-84	36	45	KANPUR	22-Jun-84 23-Jun-84	Birth Death	
114	?	21-Nov-84	39	42	DELHI	21-Nov-84 21-Nov-84	Birth Death	
116 LAXMI	F	~ 1985	WILD	WILD	INDIA KODANAD TRIVANDRU	~ 1988 05-Sep-88 15-Dec-02	Capture Transfer Transfer	
117 MANI 0006B73EB1	F	~ 1985	WILD	WILD	INDIA TRIVANDRU HYDERABAD	~ 1987 13-Jul-87 24-Sep-03	Capture Transfer Lf	
118 891093 91M059 102005 SALSA	F	20-Feb-85	67	50	DELHI NY BRONX COLO SPRG GARDENCTY	20-Feb-85 31-Mar-89 13-Aug-91 17-May-02 28-Jan-04	Birth Transfer Transfer Transfer Death	
119 FEMAL3	F	28-Mar-85	54	57	NANDANKAN	28-Mar-85 09-Apr-91	Birth Death	
120 BHAMA 00-0610-DG53	F	~ 1986	WILD	WILD	INDIA GUINDY MADRAS	~ 1990 07-Apr-90 26-May-90 09-Dec-10	Capture Transfer Transfer Death	
121 BINDU	F	~ 1986	WILD	WILD	INDIA TRIVANDRU	~ 1988 25-May-88	Capture Transfer	
123 MAJNU	M	01-Apr-86	82	81	CHATBIR Z	01-Apr-86	Birth	
124	M	06-May-86	36	45	KANPUR	06-May-86 07-May-86	Birth Death	
125	F	????	UNK	UNK	UNKNOWN BANNERGHA	???? ????	Birth Lf	
126 GANESH	M	~ 1986	WILD	WILD	INDIA TRIVANDRU	~ 1989 18-May-89	Capture Transfer Lf	
127 GUNJAN	M	~ 1987	WILD	WILD	INDIA KODANAD TRIVANDRU	~ 1989 13-Dec-89 15-Dec-02	Capture Transfer Transfer Lf	Captured from Nirimangalam Range, Kodanadu

Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
128	M	19-Jan-87	54	109	NANDANKAN	19-Jan-87 19-Jan-87	Birth Death	
129 MALE2	M	21-Jan-87	54	57	NANDANKAN	21-Jan-87 26-May-91	Birth Death	
131 LAILA	M	14-Nov-87	82	81	CHATBIR Z	14-Nov-87 25-Sep-90	Birth Death	
132 RUKUMANI	F	~ 1988	WILD	WILD	INDIA MADRAS	~ 1990 26-May-90 25-May-97	Capture Transfer Death	
133 RAMU 00-0611-IA D5	M	~ 1988	WILD	WILD	INDIA MADRAS GUINDY	~ 1994 20-Jun-94 07-May-04 10-May-09	Capture Transfer Transfer Death	
134 RANJAN	M	~ 1988	WILD	WILD	INDIA KODANAD TRIVANDRU	~ 1989 23-Sep-89 15-Dec-02 27-Aug-03	Capture Transfer Transfer Death	Captured from Paingulam Range
135 MUNI	F	31-Jan-88	330	332	ASSAM	31-Jan-88 ????	Birth Death	
136 THARA	F	13-Mar-88	106	97	TRIVANDRU HYDERABAD	13-Mar-88 22-Sep-03	Birth Lf	
137	?	01-Jun-87	67	47	DELHI	01-Jun-87 11-Jun-88	Birth Death	
138 240004	M	19-Jul-88	67	42	DELHI	19-Jul-88 26-May-15	Birth Death	
140	M	03-Nov-88	54	57	NANDANKAN	03-Nov-88 20-Aug-89	Birth Death	
141	M	14-Nov-88	54	109	NANDANKAN	14-Nov-88 14-Nov-88	Birth Death	
142 BABU	M	30-Jun-90	215	203	TRICHUR TRIVANDRU HYDERABAD	30-Jun-90 16-Nov-94 22-Sep-03	Birth Transfer Lf	
143 MALE3 NALU	M	25-Jan-89	54	119	NANDANKAN	25-Jan-89 03-Jul-10	Birth Death	
145	F	????	UNK	UNK	CALCUTTA RANGOON	???? 20-Feb-71	Birth Lf	
146	F	????	UNK	UNK	CALCUTTA KUALA LUM	???? 15-Dec-70	Birth Lf	
148	F	????	WILD	WILD	INDIA MADRAS	~ 1983 09-Feb-83	Capture Lf	
154 KISHORE	M	~ 1975	WILD	WILD	INDIA TRIVANDRU MADRAS	~ 1980 03-Jun-80 18-Sep-85	Capture Transfer Lf	
159 ZAK02 MANJA	M	????	WILD	WILD	INDIA TRIVANDRU MYSORE	???? ???? 07-Dec-82 30-Mar-03	Capture Transfer Transfer Death	
160 LEENA	F	????	WILD	WILD	INDIA TRIVANDRU	~ 1980 14-May-85 05-Aug-85	Capture Transfer Death	
161 20488 SITA	F	~ 1980	WILD	WILD	INDIA TRIVANDRU MYSORE TORONTO	~ 1984 14-Feb-84 04-Aug-84 09-Mar-86 15-Nov-99	Capture Transfer Transfer Transfer Death	

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Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
162	F	04-Nov-88	78	79	JAIPUR	04-Nov-88 16-Sep-99	Birth Death	
165 RAJAN	M	????	WILD	WILD	INDIA TRIVANDRU	~ 1987 21-Jun-87 16-Aug-87	Capture Transfer Death	
166	M	09-Jan-90	54	109	NANDANKAN	09-Jan-90 29-Sep-94	Birth Death	
167 3 GEETA	F	19-Feb-90	67	59	BHILAI	19-Feb-90 06-Sep-04	Birth Death	
168	F	16-Mar-90	54	57	NANDANKAN	16-Mar-90 05-Sep-99	Birth Death	
170 ML0003 SHAHIDHAR	M	28-May-90	110	243	MADRAS HYDERABAD	28-May-90 27-Aug-92 10-Feb-11	Birth Transfer Death	
172 PACHI	F	~ 1996	WILD	WILD	INDIA TRIVANDRU	~ 1998 20-Nov-98 25-Sep-17	Capture Transfer Death	
173 MALAR	F	31-Dec-91	110	120	MADRAS	31-Dec-91 08-Sep-94	Birth Death	
174 SEKAR	M	~ 1992	WILD	WILD	INDIA MADRAS	~ 1993 02-May-93 08-Aug-93	Capture Transfer Death	
175 M00038 PRIYA 00063B3B7F	F	~ 1982	WILD	WILD	INDIA BANNERGHA MYSORE	~ 1990 ~ 1990 10-Oct-92 02-Aug-14	Capture Transfer Transfer Death	
176 ZAK05 RAMA	M	~ 1990	WILD	WILD	INDIA SHIMOGA MYSORE	~ 1990 ~ 1990 13-Mar-96 31-Jan-98	Capture Transfer Transfer Death	
177 LTM17 LTMP1 KRISHNA	M	12-Jan-92	54	57	NANDANKAN PATNA	12-Jan-92 23-Mar-95 10-Nov-12	Birth Transfer Death	
178 GEETHA	F	14-Jan-92	110	132	MADRAS	14-Jan-92 21-Jul-95	Birth Death	
179 LTM18 LTMP2	F	29-Jan-92	54	109	NANDANKAN PATNA	29-Jan-92 26-Mar-95 11-Dec-00	Birth Transfer Death	
180 PADAN SANKAR	M	18-Aug-92	110	120	MADRAS	18-Aug-92 21-Jun-95	Birth Death	
182 100003 VIJAYAN 00-0611-8273	M	01-Oct-93	110	132	MADRAS	01-Oct-93 02-Sep-12	Birth Death	
183 UMAR	M	21-Dec-93	110	120	MADRAS GUINDY	21-Dec-93 07-Aug-98	Birth Ltf	
184 M00037 SHANTHI 00063AFBBC	F	~ 1990	WILD	WILD	INDIA MANGALORE MYSORE	~ 1992 ~ 1992 13-Mar-96 15-Jul-11	Capture Transfer Transfer Death	
185 RANI	F	~ 1994	WILD	WILD	INDIA PARASSINI	~ 1995 07-Sep-95 ~Oct-2015	Capture Transfer Ltf	
186 SEENU 00-0611-7E4A	M	04-Jan-95	110	132	MADRAS TRIVANDRU	04-Jan-95 27-Dec-03	Birth Transfer Ltf	

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Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
187 100004 Veni AAZP13	F	14-Jun-95	110	120	MADRAS	14-Jun-95	Birth	
188 100005 AAZP29 RANI	F	13-Jul-96	110	132	MADRAS GUINDY MADRAS	13-Jul-96 07-Aug-98 12-Mar-04 26-Aug-2015	Birth Transfer Transfer Death	
189 LINGAN 00-0611-7E09	M	17-Sep-96	110	120	MADRAS MYSORE	17-Sep-96 18-Dec-03 ????	Birth Transfer Death	
190 100006 AAZP-17 MALA 00.0611.41 BE	F	27-May-98	110	120	MADRAS	27-May-98	Birth	
191 100007 APSARA 00.00611-1F1F	F	~ 1997	WILD	WILD	INDIA MADRAS	04-Aug-99 04-Aug-99	Capture Transfer	
192 MANI	M	26-Oct-99	110	120	MADRAS	26-Oct-99 28-Sep-02	Birth Death	
193	F	????	WILD	WILD	INDIA RENUKA CHATBIR Z	???? ???? 21-Apr-95	Capture Transfer Lf	
194	M	????	WILD	WILD	INDIA CALCUTTA	~ 1992 30-Sep-92 03-Jan-01	Capture Transfer Death	
195	F	????	WILD	WILD	INDIA CALCUTTA	~ 1992 20-Feb-92 09-Sep-08	Capture Transfer Death	
196	M	~ 1980	WILD	WILD	INDIA VOC PKZOO	~ 1980 ~ 1980	Capture Lf	
197	F	11-Dec-93	78	162	JAIPUR	11-Dec-93 30-Jan-04	Birth Death	
198	?	20-May-94	78	162	JAIPUR	20-May-94 15-Jun-94	Birth Death	
199	M	15-Oct-95	78	162	JAIPUR	15-Oct-95	Birth	
200	M	10-Jun-99	199	197	JAIPUR	10-Jun-99	Birth Lf	
201	F	????	WILD	WILD	INDIA TRICHUR	~ 1988 17-Apr-88 07-Mar-93	Capture Transfer Death	
203	F	30-Apr-74	208	204	TRICHUR	30-Apr-74 24-Jan-96	Birth Death	
204	F	~ 1967	WILD	WILD	INDIA TRICHUR	~ 1973 05-Sep-73 01-Aug-82	Capture Transfer Death	
208	M	~ 1955	WILD	WILD	INDIA TRICHUR	~ 1968 14-Sep-68 19-Apr-74	Capture Transfer Death	
209	?	11-Oct-63	MULT	MULT	DELHI	11-Oct-63 22-Nov-64	Birth Death	
211 SEETA	F	~ 1977	WILD	WILD	INDIA JAIPUR JODHPUR JAIPUR KANPUR	~ 1978 15-Mar-78 07-Mar-84 17-Oct-92 10-Sep-93 14-Jan-03	Capture Transfer Transfer Transfer Death	
212	M	~ 1977	WILD	WILD	INDIA	~ 1978	Capture	Bought from

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Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
					JAIPUR	15-Mar-78 17-Dec-83	Transfer Death	Hyderabad Animal Dealer
215	M	~ 1984	WILD	WILD	INDIA TRICHUR	~ 1986 01-May-86 23-Oct-03	Capture Transfer Death	
216	F	05-Jun-84	78	79	JAIPUR	05-Jun-84 24-Aug-92	Birth Death	
217	F	30-Jan-86	78	79	JAIPUR	30-Jan-86 01-Dec-86	Birth Death	
218	M	~ 1986	WILD	WILD	INDIA TRICHUR	~ 1988 11-Aug-88 28-Feb-05	Capture Transfer Death	
219 1 RAM	M	26-Feb-86	67	59	BHILAI	26-Feb-86 08-Jan-11	Birth Death	
220 1004	M	~ 1987	WILD	WILD	INDIA TRICHUR	05-Feb-90 05-Feb-90 ~Oct-2017	Capture Transfer Death	
221 2 SHYAM	M	10-Apr-87	67	59	BHILAI	10-Apr-87 21-Apr-11	Birth Death	
222	F	04-May-87	78	79	JAIPUR	04-May-87 15-Oct-97	Birth Death	
226	F	19-Jul-92	78	162	JAIPUR	19-Jul-92 11-Mar-93	Birth Death	
228	M	????	UNK	UNK	UNKNOWN TRICHUR	???? 22-Mar-59 29-Oct-71	Birth Transfer Death	Purchased from Animal Dealer
229	M	????	UNK	UNK	UNKNOWN TRICHUR TRIVANDRU	???? 09-Jul-64 05-Jan-72	Birth Transfer Lf	Donated
230	F	????	UNK	UNK	TRIVANDRU TRICHUR	???? 08-Sep-64 06-Jun-71	Birth Transfer Death	
231	F	????	UNK	UNK	UNKNOWN TRICHUR	???? 08-Dec-71 15-Jan-75	Birth Transfer Death	
232	F	????	UNK	UNK	UNKNOWN TRICHUR	???? 23-Jun-72 16-Aug-75	Birth Transfer Death	
233	F	????	UNK	UNK	UNKNOWN TRICHUR	???? 18-Feb-73	Birth Lf	
234 10023 REENA	F	~ 1970	WILD	WILD	INDIA VEERMATA	~ 1971 ~ 1971 06-Nov-86	Capture Transfer Death	
235	M	????	UNK	UNK	TRIVANDRU TRICHUR	???? 12-Jun-76	Birth Lf	
236	M	????	UNK	UNK	TRIVANDRU TRICHUR	???? 11-Oct-75	Birth Lf	
237	F	????	UNK	UNK	UNKNOWN TRICHUR	???? 31-Mar-77 24-Jan-96	Birth Transfer Death	
238 M15 MEENA	F	~ 1974	WILD	WILD	INDIA VEERMATA	22-Nov-76 22-Nov-76 01-May-95	Capture Transfer Death	
239 10026 JANI	M	~ 1975	WILD	WILD	INDIA VEERMATA	~ 1976 22-Nov-76 30-Jun-93	Capture Transfer Death	
240	F	????	UNK	UNK	UNKNOWN TRICHUR	???? 08-May-89 18-Jan-99	Birth Transfer Death	Donated

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Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
241	M	????	UNK	UNK	UNKNOWN TRICHUR	???? 19-Jul-85 03-May-86	Birth Transfer Death	Donated
242	M	????	UNK	UNK	UNKNOWN TRICHUR	???? 03-Jul-89 18-Jul-90	Birth Transfer Death	Donated
243 RADHA	F	~ 1985	WILD	WILD	INDIA GUINDY MADRAS	07-Apr-90 07-Apr-90 26-May-90 16-Nov-95	Capture Transfer Transfer Death	
244 RAVI	M	31-Mar-86	UNK	UNK	TRIVANDRU	31-Mar-86 20-Apr-86	Birth Death	
245 10028 RAMU	M	13-Jul-81	239	238	VEERMATA	13-Jul-81 13-Sep-93	Birth Death	
246 KAMRAJ	M	~ 1991	WILD	WILD	INDIA GUINDY MADRAS	???? ???? 12-Mar-04 13-Dec-06	Capture Transfer Transfer Death	
248 M00035 KRISHNA 00063B2551 / Neck	M	~ 1991	WILD	WILD	KARNATAKA MYSORE	~ 4 Nov 2001 04-Nov-01 30-Sep-12	Capture Transfer Death	
251 LTMP6 BASANTI	F	~ 1993	WILD	WILD	INDIA PATNA	15-Jul-98 15-Jul-98 12-Jan-17	Capture Transfer Death	
252 MANI/RAGAV	M	~ 1997	WILD	WILD	INDIA MADRAS	~14 May 2005 14-May-05 10-May-09	Capture Transfer Death	
253 M00005 GEETHA 00063B1763/ Neck	F	10-Jan-91	WILD	WILD	INDIA MANGALORE MYSORE	10-Jan-01 10-Jan-01 28-Oct-06 14-Nov-11	Capture Transfer Transfer Death	
254 LTMP3	F	29-Sep-97	177	179	PATNA	29-Sep-97 29-Sep-97	Birth Death	
255 LTMP4	F	~ Sep 1992	WILD	WILD	INDIA PATNA	06-Mar-98 06-Mar-98 13-Apr-00	Capture Transfer Death	
256 VENKET	M	15-Jun-00	182	120	MADRAS	15-Jun-00 11-Dec-09	Birth Death	
258	F	????	WILD	WILD	INDIA PARASSINI	~ 2008 ~ 2008 ~ 2010	Capture Transfer Death	
259 VIJI	F	14-Apr-01	110	120	MADRAS	14-Apr-01 16-Feb-10	Birth Death	
260 AAZP50 RAMYA #981098102057903	F	~ 2001	WILD	WILD	INDIA MADRAS	~12 Sep 2008 12-Sep-08 24-Apr-09	Capture Transfer Death	
261 M00003 ANKITHA 00063B96F1/ Neck	F	~ 2001	WILD	WILD	KARNATAKA MYSORE	~20 Oct 2007 20-Oct-07	Capture Transfer	Donated
262 4 RAJKUMARI	F	16-Dec-01	219	167	BHILAI	16-Dec-01 05-Jan-09	Birth Death	
263 100455 240006 DASS	M	17-Jan-02	182	187	MADRAS DELHI	17-Jan-02 01-Oct-06 05-Jan-10	Birth Transfer Death	

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Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
264	?	10-Jul-02	186	120	MADRAS	10-Jul-02 10-Jul-02	Birth Death	
265 M00006 ASHWATH 00063B2623/ Neck	M	~ 2002	WILD	WILD	INDIA MYSORE SINGAPORE	~21 Jul 2007 21-Jul-07 27-Oct-13 22-Apr-14	Capture Transfer Transfer Death	
266 RAJESH	M	????	WILD	WILD	INDIA TRIVANDRU	~16 Aug 2002 16-Aug-02	Capture Transfer Lf	
267 KIRAN	M	????	WILD	WILD	INDIA TRIVANDRU	~15 Dec 2002 15-Dec-02	Capture Transfer Lf	
268 240005 RANI	F	~ 1995	WILD	WILD	INDIA TRIVANDRU DELHI	~15 Dec 2002 15-Dec-02 24-Mar-04 05-Jan-10	Capture Transfer Transfer Death	
269	M	09-Jan-03	189	191	MADRAS	09-Jan-03 09-Jan-03	Birth Death	
270 RAMAN	M	????	WILD	WILD	INDIA TRIVANDRU	~ 8 Feb 2005 08-Feb-05	Capture Transfer	
271 100010 MURUGAN 981098102056880	M	23-Jul-03	182	187	MADRAS	23-Jul-03 28-Jan-13	Birth Death	
272 BANU	F	25-Nov-03	186	120	MADRAS DELHI	25-Nov-03 01-Oct-06	Birth Transfer	
273 100011 M01320 ANITHA	F	04-Jan-04	182	191	MADRAS MYSORE	04-Jan-04 17-Jun-17	Birth Transfer	
274 SUMI	F	11-Feb-04	182	190	MADRAS	11-Feb-04 15-Feb-04	Birth Death	
275 5 KUMARI	F	01-Jul-04	219	167	BHILAI	01-Jul-04 ~Oct-2012	Birth Lf	
276 M00034 APPU 00063B1431/ Neck	M	~ 2004	WILD	WILD	INDIA MYSORE	~ 6 Nov 2006 06-Nov-06 28-Nov-16	Capture Transfer Death	Captured from Sakaleshapura Range, Hassan
277 100012 SINDHU 981098102058213	F	16-Aug-04	182	187	MADRAS LUCKNOW	16-Aug-04 13-Feb-15	Birth Transfer	
278	?	11-Feb-05	256	188	MADRAS	11-Feb-05 12-Feb-05	Birth Death	
279 100014 AAZP-36 SANDHYA 981098102058155	F	05-Apr-05	182	190	MADRAS	05-Apr-05 21-Jun-2015	Birth Death	
280 KANNAN	M	13-May-05	186	121	TRIVANDRU	13-May-05	Birth	
281 M00004 SWATHI 00063B010B/ Neck	F	~ 2005	WILD	WILD	INDIA MYSORE	~21 Jul 2007 21-Jul-07	Capture Transfer	Received from Karkala WLD
282	?	16-Jul-05	256	120	MADRAS	16-Jul-05 23-Jul-05	Birth Death	
283	?	11-Aug-05	256	259	MADRAS	11-Aug-05 03-Sep-05	Birth Death	
284 100015	M	05-Nov-05	182	191	MADRAS	05-Nov-05	Birth	

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
ANAND 981098100801445								
285 GUNA	F	13-May-06	256	188	MADRAS	13-May-06 19-Sep-10	Birth Death	
286	M	02-Jul-06	182	187	MADRAS	02-Jul-06 ~ 2 Jul 2006	Birth Death	
287	M	02-Jul-06	182	187	MADRAS	02-Jul-06 ~ 2 Jul 2006	Birth Death	
288 M00007 ABHI 00063B4C07/ Neck	M	~Aug 2006ñ1m	WILD	WILD	INDIA MYSORE	~ 5 Nov 2006 05-Nov-06	Capture Transfer	
289	M	25-Aug-06	256	120	MADRAS	25-Aug-06 02-Sep-06	Birth Death	
290	?	21-Oct-06	186	116	TRIVANDRU	21-Oct-06 24-Oct-06	Birth Death	
291 MANJU	F	01-Mar-07	186	121	TRIVANDRU	01-Mar-07	Birth	
292 100017 AAZP-41 VIMALA	F	25-Apr-07	256	259	MADRAS	25-Apr-07	Birth	
293	?	14-May-07	182	187	MADRAS	14-May-07 28-May-07	Birth Death	
294 100018 AAZP-43 ASOK	M	09-Jun-07	182	191	MADRAS	09-Jun-07	Birth	
295 AAZP44	?	18-Jun-07	182	190	MADRAS	18-Jun-07 19-Jun-07	Birth Death	
296 AAZP45	?	02-Aug-07	256	120	MADRAS	02-Aug-07 02-Aug-07	Birth Death	
297	?	02-Aug-07	256	120	MADRAS	02-Aug-07 02-Aug-07	Birth Death	
298 100019 AAZP-46 RAVI	M	01-Sep-07	256	188	MADRAS	01-Sep-07	Birth	
299	M	27-Sep-07	263	272	DELHI	27-Sep-07 12-Nov-10	Birth Death	
300 100020 AAZP-47 AMALA	F	20-Mar-08	182	273	MADRAS	20-Mar-08	Birth	
301 100021 M01321 RAJA	M	05-Apr-08	182	187	MADRAS MYSORE	05-Apr-08 17-Jun-17	Birth Transfer	
302 100022 VINODH	M	11-Aug-08	256	259	MADRAS	11-Aug-08 03-Dec-09	Birth Death	
303	M	20-Nov-08	UNK	272	DELHI	20-Nov-08	Birth	
304 100024 AAZP-51 ANJALI	F	19-Feb-09	182	191	MADRAS	19-Feb-09	Birth	
305 100025	F	16-Apr-09	256	188	MADRAS	16-Apr-09	Birth	

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
RAGAVI								
306 AAZP55 RANJANI	F	10-Dec-09	256	188	MADRAS	10-Dec-09 26-Apr-12	Birth Death	
307 100026 AAZP-53 ARUN	M	02-Aug-10	182	273	MADRAS HYDERABAD	02-Aug-10 22-Jul-17	Birth Transfer	
308 100027 AAZP-54 AKASH	M	12-Aug-10	182	191	MADRAS	12-Aug-10	Birth	
309 240010	F	07-Sep-10	138	272	DELHI	07-Sep-10	Birth	
310 LTMP5 RADHA	F	~ 1992	WILD	WILD	INDIA PATNA	18-Nov-98 19-Nov-98 01-Nov-08	Capture Transfer Death	
311 72390	F	????	UNK	UNK	UNKNOWN PATNA	???? ????	Birth Ltf	Rescued from Circus
312 RADHA	F	????	WILD	WILD	INDIA TRIVANDRU	~15 Jun 2002 15-Jun-02	Capture Transfer	
313 KUTTAN	M	????	WILD	WILD	INDIA TRIVANDRU	~26 May 2008 26-May-08	Capture Transfer	
314 43	F	????	WILD	WILD	INDIA SHILLONG	~12 May 1998 13-May-98	Capture Ltf	
315 33	F	????	WILD	WILD	INDIA SHILLONG	~ 6 Jun 1994 07-Jun-94	Capture Ltf	
316 44	M	????	WILD	WILD	INDIA SHILLONG	~ 1 Mar 2000 02-Mar-00	Capture Ltf	
317 130 RAJA	M	~ 1999	WILD	WILD	INDIA LUCKNOW	01-Aug-03 01-Aug-03	Capture Transfer	
318 10030 490000	M	~ 1949	UNK	UNK	VEERMATA MELBOURNE	~ 1949 01-Dec-49 01-Aug-58	Birth Transfer Death	
319 10031 490001	M	~ Jul 1949	UNK	UNK	VEERMATA MELBOURNE	~ Jul 1949 01-Dec-49 01-Jan-59	Birth Transfer Death	
320 10032 490002	F	~ Jul 1949	UNK	UNK	VEERMATA MELBOURNE	~ Jul 1949 01-Dec-49 01-Jun-64	Birth Transfer Death	
321 10033 490003	F	~ Jul 1949	UNK	UNK	VEERMATA MELBOURNE	~ Jul 1949 01-Dec-49 01-Jul-64	Birth Transfer Death	
322 10024 KUNDA	F	~ 1969	WILD	WILD	INDIA VEERMATA	~ 1971 29-Nov-71 17-Jul-89	Capture Transfer Death	
323 M16 10027 TEENA	F	~ 1973	WILD	WILD	INDIA VEERMATA	22-Nov-76 22-Nov-76 11-Sep-85	Capture Transfer Death	
324 M14 RAJA	M	~ 1977	UNK	UNK	UNKNOWN VEERMATA	~ 1977 08-May-85 10-Jun-93	Birth Transfer Death	
325 SHARAVATHI	F	~ 1979	WILD	WILD	INDIA MYSORE	~ 1981 ~ 1981 ~ 1998	Capture Transfer Death	
326	F	05-Sep-82	UNK	UNK	DELHI	05-Sep-82	Birth	

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
240002						16-Jul-06	Death	
327 PUNE01	M	~ 1983	WILD	WILD	INDIA PUNE	11-Jan-84 11-Jan-84 27-Dec-06	Capture Transfer Death	
328 31	M	~ 1985	UNK	UNK	MADRAS VADODARA	~ 1985 06-Mar-89 ~ 1995	Birth Transfer Death	
329 32	F	~ 1984	WILD	WILD	INDIA VADODARA	~ 1986 17-Mar-86 ~ 1996	Capture Transfer Death	
330 ZOMBO/JAMBO	M	????	WILD	WILD	INDIA MADRAS ASSAM	???? ???? 15-Jun-86 07-Sep-89	Capture Transfer Transfer Death	
331 GUNO	F	????	WILD	WILD	INDIA MADRAS ASSAM	???? ???? 15-Jun-86 25-Apr-89	Capture Transfer Transfer Death	
332 JAMINI	F	????	WILD	WILD	INDIA MADRAS ASSAM	???? ???? 15-Jun-86 22-Oct-90	Capture Transfer Transfer Death	
333 100002	F	????	WILD	WILD	INDIA MADRAS	26-May-87 26-May-87 09-Dec-09	Capture Transfer Death	
334 BEENA 0006B72390	F	????	UNK	UNK	UNKNOWN HYDERABAD	???? 12-Oct-01	Birth Transfer	
335	?	17-Mar-11	248	281	MYSORE	17-Mar-11 17-Mar-11	Birth Death	
336 100349 VIMAL	M	19-Jun-11	271	292	MADRAS	19-Jun-11	Birth	
337 100348 RAMESH	M	02-Sep-11	271	188	MADRAS	02-Sep-11	Birth	
338 M00765	M	10-Sep-11	248	261	MYSORE	10-Sep-11 27-Oct-11	Birth Death	
339 100347 ARJUN	M	05-Jan-12	182	191	MADRAS	05-Jan-12	Birth	
340 102 RENUKA	F	~ 2011	WILD	WILD	INDIA BANNERGHA	~ 1 May 2012 02-May-12	Capture Transfer	Captured from Himagiri Range, Kodagu
341	?	06-Mar-13	UNK	272	DELHI	06-Mar-13	Birth	
342 100420	M	15-Mar-13	271	305	MADRAS	15-Mar-13 17-Mar-13	Birth Death	
343 100421 VALLI	F	19-Mar-13	271	292	MADRAS	19-Mar-13 19-Oct-16	Birth Death	
344 M01042 SWAPNA	F	08-May-13	276	281	MYSORE	08-May-13	Birth	
345 100422 AAZP-61	F	22-May-13	294	304	MADRAS	22-May-13 29-Mar-15	Birth Death	
346	F	01-May-14	294	300	MADRAS	01-May-14	Birth	

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Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
100526 AMUDHA								
347 100527 AAZP63 MARAN	?	25-May-14	298	305	MADRAS	25-May-14	Birth	
348 SITHA	F	????	WILD	WILD	INDIA TRICHUR	03-Jan-13 03-Jan-13	Capture Transfer	
349 100557 ANANDHI	F	23-Mar-15	294	304	MADRAS	23-Mar-15	Birth	
350 100558	?	15-Nov-15	294	300	MADRAS	15-Nov-15 26-Mar-16	Birth Death	
351 100586	?	26-Mar-16	298	305	MADRAS	26-Mar-16	Birth	
352 100587	?	08-Jul-16	298	292	MADRAS	08-Jul-16	Birth	
353 100623	?	16-Jun-17	298	305	MADRAS	16-Jun-17	Birth	
354 100624	?	30-Jun-17	294	300	MADRAS	30-Jun-17	Birth	
355 100642	?	20-Sep-17	294	304	MADRAS	20-Sep-17	Birth	
356 240008	M	27-Sep-07	UNK	UNK	MADRAS DELHI	27-Sep-07 27-Sep-07	Birth Transfer	
357 240012	F	15-Jul-14	356	UNK	DELHI	15-Jul-14	Birth	
358 240013	?	14-Feb-17	356	357	DELHI	14-Feb-17	Birth	
359 240009	M	03-Mar-09	UNK	UNK	DELHI	03-Mar-09	Birth	
361 240013	?	14-Feb-17	356	357	DELHI	14-Feb-17	Birth	
362 100181 RAJA	M	01-Jan-00	WILD	WILD	INDIA MANGALORE	01-Jan-16 20-Jan-16	Capture Transfer	
363 RANI	F	20-Jan-10	WILD	WILD	INDIA MANGALORE	???? 20-Jan-16	Capture Transfer	
364 LEKSHMAN 0006B729K5	M	~ 2006	WILD	WILD	INDIA TRIVANDRU	~ 1 Mar 2009 10 Mar 2009	Capture Transfer	Rescued from Kasargod
365 AMMU 0006B717FD	F	~ 2007	WILD	WILD	INDIA TRIVANDRU	~ 1 Jun 2010 7 Jun 2010	Capture Transfer	Rescued from Muthanga, Wynad
366 RAMU	M	2 Apr 2013	266	365	TRIVANDRU	2 Apr 2013	Birth	
TOTALS:304(127.146.31)								

Annexure II

Living population of Lion tailed macaque (*Macaca silenus*)

Stud# Local ID Name Transponder	Sex	Birth Date	Sire	Dam	Location	Date	Event	Remarks
Bannergahta Biological Park, Bengaluru								
340 102 RENUKA	F	~ 2011	WILD	WILD	INDIA BANNERGHA	~ 1 May 2012 02-May-12	Capture Transfer	Captured from Himagiri Range, Kodagu
Total: 1(0.1.0)								
Mahendra Chaudhary Zoological Park, Mohali								
123 MAJNU	M	01-Apr-86	82	81	CHATBIR Z	01-Apr-86	Birth	
Total: 1 (1.0.0)								
National Zoological Park, New Delhi								
263 100455 240006 DASS	M	17-Jan-02	182	187	MADRAS DELHI	17-Jan-02 01-Oct-06	Birth Transfer	
272 BANU	F	25-Nov-03	186	120	MADRAS DELHI	25-Nov-03 01-Oct-06	Birth Transfer	
303	M	20-Nov-08	UNK	272	DELHI	20-Nov-08	Birth	
309 240010	F	07-Sep-10	138	272	DELHI	07-Sep-10	Birth	
341	?	06-Mar-13	UNK	272	DELHI	06-Mar-13	Birth	
356 240008	M	27-Sep-07	UNK	UNK	MADRAS DELHI	27-Sep-07 27-Sep-07	Birth Transfer	
357 240012	F	15-Jul-14	356	UNK	DELHI	15-Jul-14	Birth	
358 240013	?	14-Feb-17	356	357	DELHI	14-Feb-17	Birth	
359 240009	M	03-Mar-09	UNK	UNK	DELHI	03-Mar-09	Birth	
361 240013	?	14-Feb-17	356	357	DELHI	14-Feb-17	Birth	
Total: 10 (4.3.3)								
Nehru Zoological Park, Hyderabad								
307 100026 AAZP-53 ARUN	M	02-Aug-10	182	273	MADRAS HYDERABAD	02-Aug-10 22-Jul-17	Birth Transfer	
334 BEENA 0006B72390	F	????	UNK	UNK	UNKNOWN HYDERABAD	???? 12-Oct-01	Birth Transfer	
Total: 2(1.1.0)								
Nawab Wazid Ali Shah Zoological Park, Lucknow								
277 100012 SINDHU 9.81098102058213	F	16-Aug-04	182	187	MADRAS LUCKNOW	16-Aug-04 13-Feb-15	Birth Transfer	
317 130 RAJA	M	~ 1999	WILD	WILD	INDIA LUCKNOW	01-Aug-03 01-Aug-03	Capture Transfer	
Total: 2 (1.1.0)								

Arignar Anna Zool. Park, Chennai								
187 100004 AAZP13	F	14-Jun-95	110	120	MADRAS	14-Jun-95	Birth	
190 100006 AAZP-17 MALA 00.0611.41 BE	F	27-May-98	110	120	MADRAS	27-May-98	Birth	
191 100007 APSARA 00.00611-1F1F	F	~ 1997	WILD	WILD	INDIA MADRAS	04-Aug-99 04-Aug-99	Capture Transfer	
284 100015 ANAND 981098100801445	M	05-Nov-05	182	191	MADRAS	05-Nov-05	Birth	
292 100017 AAZP-41 VIMALA	F	25-Apr-07	256	259	MADRAS	25-Apr-07	Birth	
294 100018 AAZP-43 ASOK	M	09-Jun-07	182	191	MADRAS	09-Jun-07	Birth	
298 100019 AAZP-46	M	01-Sep-07	256	188	MADRAS	01-Sep-07	Birth	
300 100020 AAZP-47 AMALA	F	20-Mar-08	182	273	MADRAS	20-Mar-08	Birth	
304 100024 AAZP-51 ANJALI	F	19-Feb-09	182	191	MADRAS	19-Feb-09	Birth	
305 100025 RAGAVI	F	16-Apr-09	256	188	MADRAS	16-Apr-09	Birth	
308 100027 AAZP-54 AKASH	M	12-Aug-10	182	191	MADRAS	12-Aug-10	Birth	
336 100349 VIMAL	M	19-Jun-11	271	292	MADRAS	19-Jun-11	Birth	
337 100348 RAMESH	M	02-Sep-11	271	188	MADRAS	02-Sep-11	Birth	
339 100347 ARJUN	M	05-Jan-12	182	191	MADRAS	05-Jan-12	Birth	
346 100526 AMUDHA	F	01-May-14	294	300	MADRAS	01-May-14	Birth	
347 100527 AAZP63 MARAN	?	25-May-14	298	305	MADRAS	25-May-14	Birth	
349	F	23-Mar-15	294	304	MADRAS	23-Mar-15	Birth	

100557 ANANDHI								
351 100586	?	26-Mar-16	298	305	MADRAS	26-Mar-16	Birth	
352 100587	?	08-Jul-16	298	292	MADRAS	08-Jul-16	Birth	
353 100623	?	16-Jun-17	298	305	MADRAS	16-Jun-17	Birth	
354 100624	?	30-Jun-17	294	300	MADRAS	30-Jun-17	Birth	
355 100642	?	20-Sep-17	294	304	MADRAS	20-Sep-17	Birth	
Total: 22 (7.9.6)								
Dr. Shivaram Karnath Biological Park, Mangaluru								
362 100181 RAJA	M	01-Jan-00	WILD	WILD	INDIA MANGALORE	01-Jan-16 20-Jan-16	Capture Transfer	
363 RANI	F	20-Jan-10	WILD	WILD	INDIA MANGALORE	???? 20-Jan-16	Capture Transfer	
Total: 2 (1.1.0)								
Sri Chamarajendra Zoological Park, Mysore								
261 M00003 ANKITHA 00063B96F1/ Neck	F	~ 2001	WILD	WILD	KARNATAKA MYSORE	~20 Oct 2007 20-Oct-07	Capture Transfer	Donated
273 100011 M01320 ANITHA	F	04-Jan-04	182	191	MADRAS MYSORE	04-Jan-04 17-Jun-17	Birth Transfer	
281 M00004 SWATHI 00063B010B/ Neck	F	~ 2005	WILD	WILD	INDIA MYSORE	~21 Jul 2007 21-Jul-07	Capture Transfer	Received from Karkala WLD
288 M00007 ABHI 00063B4C07/ Neck	M	~Aug 2006ñ1m	WILD	WILD	INDIA MYSORE	~ 5 Nov 2006 05-Nov-06	Capture Transfer	
301 100021 M01321 RAJA	M	05-Apr-08	182	187	MADRAS MYSORE	05-Apr-08 17-Jun-17	Birth Transfer	
344 M01042 SWAPNA	F	08-May-13	276	281	MYSORE	08-May-13	Birth	
Total: 6 (2.4.0)								
Thrissur Zoo, Trichur								
348 SITHA	F	????	WILD	WILD	INDIA TRICHUR	03-Jan-13 03-Jan-13	Capture Transfer	
Total: 1 (0.1.0)								
Thiruvananthapuram Zoo, Thiruvananthapuram								
116 LAXMI	F	~ 1985	WILD	WILD	INDIA KODANAD TRIVANDRU	~ 1988 05-Sep-88 15-Dec-02	Capture Transfer Transfer	
121 BINDU	F	~ 1986	WILD	WILD	INDIA TRIVANDRU	~ 1988 25-May-88	Capture Transfer	
270	M	????	WILD	WILD	INDIA	~ 8 Feb 2005	Capture	

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RAMAN					TRIVANDRU	08-Feb-05	Transfer	
280 KANNAN	M	13-May-05	186	121	TRIVANDRU	13-May-05	Birth	
291 MANJU	F	01-Mar-07	186	121	TRIVANDRU	01-Mar-07	Birth	
312 RADHA	F	????	WILD	WILD	INDIA TRIVANDRU	~15 Jun 2002 15-Jun-02	Capture Transfer	
313 KUTTAN	M	????	WILD	WILD	INDIA TRIVANDRU	~26 May 2008 26-May-08	Capture Transfer	
364 LEKSHMAN 0006B729K5	M	~ 2006	WILD	WILD	INDIA TRIVANDRU	~ 1 Mar 2009 10 Mar 2009	Capture Transfer	Rescued from Kasargod
365 AMMU 0006B717FD	F	~ 2007	WILD	WILD	INDIA TRIVANDRU	~ 1 Jun 2010 7 Jun 2010	Capture Transfer	Rescued from Muthanga, Wynad
366 RAMU	M	2 Apr 2013	266	365	TRIVANDRU	2 Apr 2013	Birth	
Total 10 (5.5.0)								
Total Living: 56 (22.25.9)								

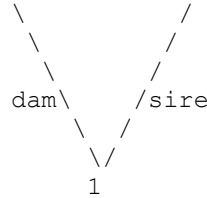
Pedigree Chart Report Lion-Tailed Macaque (*Macaca silenus*)

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 Taxon Name: MACACA SILENUS
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Studbook Number: 1
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WILD

WILD



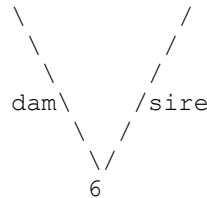
Sex: Male
 Birth Date: ~ 1955
 Last Location: ASSAM (dead)
 House Name:
 Tattoo:
 Tag/Band:

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 Taxon Name: MACACA SILENUS
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Studbook Number: 6
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WILD

WILD



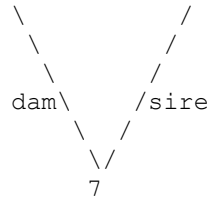
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 Birth Date: ~ 1957
 Last Location: DELHI (dead)
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 Tattoo:
 Tag/Band:

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Studbook Number: 7
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WILD

WILD



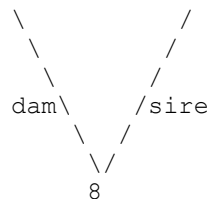
Sex: Female
 Birth Date: ~ 1957
 Last Location: DELHI (dead)
 House Name:
 Tattoo:
 Tag/Band:

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 Taxon Name: MACACA SILENUS
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Studbook Number: 8
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WILD

WILD



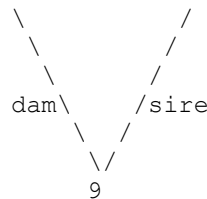
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 Birth Date: ~ 1957
 Last Location: BURMA
 House Name:
 Tattoo:
 Tag/Band:

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 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 9
 =====

WILD

WILD



Sex: Male
 Birth Date: ~ 1957
 Last Location: BURMA
 House Name:
 Tattoo:
 Tag/Band:

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 Taxon Name: MACACA SILENUS
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Studbook Number: 10
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WILD

WILD



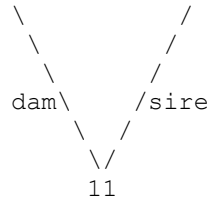
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 Birth Date: ~ 1957
 Last Location: DELHI (dead)
 House Name:
 Tattoo:
 Tag/Band:

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 Taxon Name: MACACA SILENUS
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Studbook Number: 11
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WILD

WILD



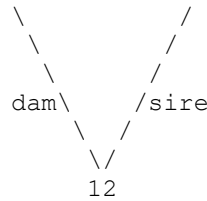
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 Birth Date: ~ 1957
 Last Location: DELHI (dead)
 House Name:
 Tattoo:
 Tag/Band:

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 Taxon Name: MACACA SILENUS
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Studbook Number: 12
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WILD

WILD



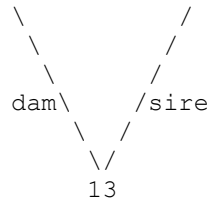
Sex: Female
 Birth Date: ~ 1958
 Last Location: ASSAM
 House Name:
 Tattoo:
 Tag/Band:

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Studbook Number: 13
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WILD

WILD



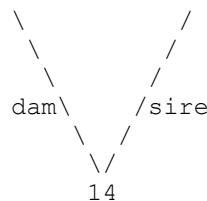
Sex: Male
 Birth Date: ~ 1960
 Last Location: HYDERABAD (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 14
 =====

WILD

WILD



Sex: Male
 Birth Date: ~ 1960
 Last Location: HYDERABAD (dead)
 House Name:
 Tattoo:
 Tag/Band:

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 16
=====
WILD      dam\      /sire      WILD      WILD      dam\      /sire      WILD
           \  /          \  /          \  /          \  /
            7      +          6      +
                               Sex: Male
                               Birth Date: 18 Mar 1962
                               Last Location: DELHI      (dead)
                               House Name:
                               Tattoo:
                               Tag/Band:
+ Wild-caught...
                               16
=====

```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 19
=====
WILD      dam\      /sire      WILD
           \  /          \  /          \  /
            19
                               Sex: Female
                               Birth Date: ~ 1963
                               Last Location: NANDANKAN (dead)
                               House Name:
                               Tattoo:
                               Tag/Band:
=====

```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 20
=====
WILD      dam\      /sire      WILD
           \  /          \  /          \  /
            20
                               Sex: Female
                               Birth Date: ~ 1963
                               Last Location: NANDANKAN (dead)
                               House Name:
                               Tattoo:
                               Tag/Band:
=====

```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 21
=====
WILD      dam\      /sire      WILD
           \  /          \  /          \  /
            21
                               Sex: Female
                               Birth Date: ~ 1964
                               Last Location: DELHI      (dead)
                               House Name:
                               Tattoo:
                               Tag/Band:
=====

```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 23
=====
WILD      dam\      /sire      WILD
           \  /          \  /          \  /
            23
                               Sex: Male
                               Birth Date: ~ 1965
                               Last Location: NANDANKAN (dead)
                               House Name:
                               Tattoo:
                               Tag/Band:
=====

```

=====
 Taxon Name: MACACA SILENUS Studbook Number: 26
 =====

WILD	dam\ \ /	WILD	/sire	WILD	dam\ \ /	WILD	/sire
	7		+		6		+
					Sex: Female		
					Birth Date: 13 Jun 1967		
					Last Location: SANDIEGOZ (dead)		
					House Name: angel		
					Tattoo:		
					Tag/Band:		
				26			

+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS Studbook Number: 27
 =====

WILD	dam\ \ /	WILD	/sire	WILD	dam\ \ /	WILD	/sire
	10		+		6		+
					Sex: Male		
					Birth Date: 1 Mar 1967		
					Last Location: SANDIEGOZ (dead)		
					House Name: LINUS		
					Tattoo:		
					Tag/Band:		
				27			

+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS Studbook Number: 28
 =====

WILD	dam\ \ /	WILD	/sire	WILD	dam\ \ /	WILD	/sire
					Sex: Female		
					Birth Date: ~ 1968		
					Last Location: DELHI (dead)		
					House Name:		
					Tattoo:		
					Tag/Band:		
				28			

=====
 Taxon Name: MACACA SILENUS Studbook Number: 29
 =====

WILD	dam\ \ /	WILD	/sire	WILD	dam\ \ /	WILD	/sire
	7		+		6		+
					Sex: Female		
					Birth Date: 7 Jan 1969		
					Last Location: DELHI (dead)		
					House Name:		
					Tattoo:		
					Tag/Band:		
				29			

+ Wild-caught...

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 31
=====
WILD                                             WILD
                                                Sex: Female
                                                Birth Date: 15 Jun 1969
                                                Last Location: ADELAIDE (dead)
                                                House Name:
                                                Tattoo:
                                                Tag/Band:
    \      /
   dam\  /sire
      \  /
       31
  
```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 32
=====
WILD                                             WILD
                                                Sex: Female
                                                Birth Date: ~ 1969
                                                Last Location: ADELAIDE (dead)
                                                House Name:
                                                Tattoo:
                                                Tag/Band:
    \      /
   dam\  /sire
      \  /
       32
  
```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 34
=====
WILD                                             WILD
                                                Sex: Female
                                                Birth Date: ~ 1970
                                                Last Location: ASSAM (dead)
                                                House Name:
                                                Tattoo:
                                                Tag/Band:
    \      /
   dam\  /sire
      \  /
       34
  
```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 35
=====
WILD      WILD      WILD      WILD
dam\      /sire      dam\      /sire
  \      /          \      /
   10  +          6  +
                    Sex: Female
                    Birth Date: 19 May 1970
                    Last Location: DELHI (dead)
                    House Name:
                    Tattoo:
                    Tag/Band:
    \      /
   dam\  /sire
      \  /
       35
+ Wild-caught...
  
```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 36
=====
WILD                                             WILD
                                                Sex: Male
                                                Birth Date: ~ 1970
                                                Last Location: KANPUR (dead)
                                                House Name: KALLOO
                                                Tattoo:
                                                Tag/Band:
    \      /
   dam\  /sire
      \  /
       36
  
```

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====

Taxon Name: MACACA SILENUS Studbook Number: 37

=====

WILD WILD

Sex: Male

Birth Date: ~ 1971

Last Location: ASSAM (dead)

House Name:

Tattoo:

Tag/Band:

dam \ /

37

=====

Taxon Name: MACACA SILENUS Studbook Number: 38

=====

WILD WILD WILD WILD

Sex: Unknown

Birth Date: 7 May 1971

Last Location: DELHI (dead)

House Name:

Tattoo:

Tag/Band:

dam \ /

38

+ Wild-caught...

=====

Taxon Name: MACACA SILENUS Studbook Number: 39

=====

WILD WILD WILD WILD

Sex: Male

Birth Date: 9 Sep 1971

Last Location: DELHI (dead)

House Name:

Tattoo:

Tag/Band:

dam \ /

39

+ Wild-caught...

=====

Taxon Name: MACACA SILENUS Studbook Number: 40

=====

WILD WILD

Sex: Male

Birth Date: ~ 1972

Last Location: NANDANKAN (dead)

House Name:

Tattoo:

Tag/Band:

dam \ /

40

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 41
=====
WILD
dam \      /
      \    /
       \  /
        \ /
         \|/
          41
Sex: Female
Birth Date: ~ 1972
Last Location: NANDANKAN (dead)
House Name:
Tattoo:
Tag/Band:
    
```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 42
=====
WILD dam \      / WILD dam \      / WILD dam \      / WILD dam \      /
      \    /      \    /      \    /      \    /
       \  /        +   \  /        +   \  /        +   \  /
        \ /          +   \|/          +   \|/          +   \|/
         \|/          +   7           +   6           +   6           +
          10          +   dam \      /      dam \      /      dam \      /
                        \    /          \    /          \    /
                         \  /            \  /            \  /
                          \|/            \|/            \|/
                           42            16
Sex: Female
Birth Date: 1 Apr 1972
Last Location: DELHI
House Name:
Tattoo:
Tag/Band:
+ Wild-caught...
    
```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 43
=====
WILD
dam \      /
      \    /
       \  /
        \ /
         \|/
          43
Sex: Male
Birth Date: ~ 1972
Last Location: KANPUR (dead)
House Name: BHOLA
Tattoo:
Tag/Band:
    
```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 44
=====
WILD
dam \      /
      \    /
       \  /
        \ /
         \|/
          44
Sex: Male
Birth Date: ~ 1972
Last Location: KANPUR (dead)
House Name: BUDHA
Tattoo:
Tag/Band:
    
```



```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 45
=====
WILD
dam \      /
  \      /
   \    /
    \  /
     \ /
      V
      45
WILD
Sex: Female
Birth Date: ~ 1973
Last Location: KANPUR (dead)
House Name: MEETA
Tattoo:
Tag/Band:
    
```

```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 46
=====
WILD dam \      / WILD dam \      / WILD dam \      / WILD dam \      /
       \      /       \      /       \      /       \      /
        \    /         \    /         \    /         \    /
         \  /           \  /           \  /           \  /
          \ /            \ /            \ /            \ /
           V              V              V              V
            21            7              6              +
           +              +              +              +
WILD dam \      / WILD dam \      /
       \      /       \      /
        \    /         \    /
         \  /           \  /
          \ /            \ /
           V              V
            21            16
           +              +
+ Wild-caught...
dam \      /
  \      /
   \    /
    \  /
     \ /
      V
      46
Sex: Unknown
Birth Date: 14 Apr 1973
Last Location: DELHI (dead)
House Name:
Tattoo:
Tag/Band:
    
```

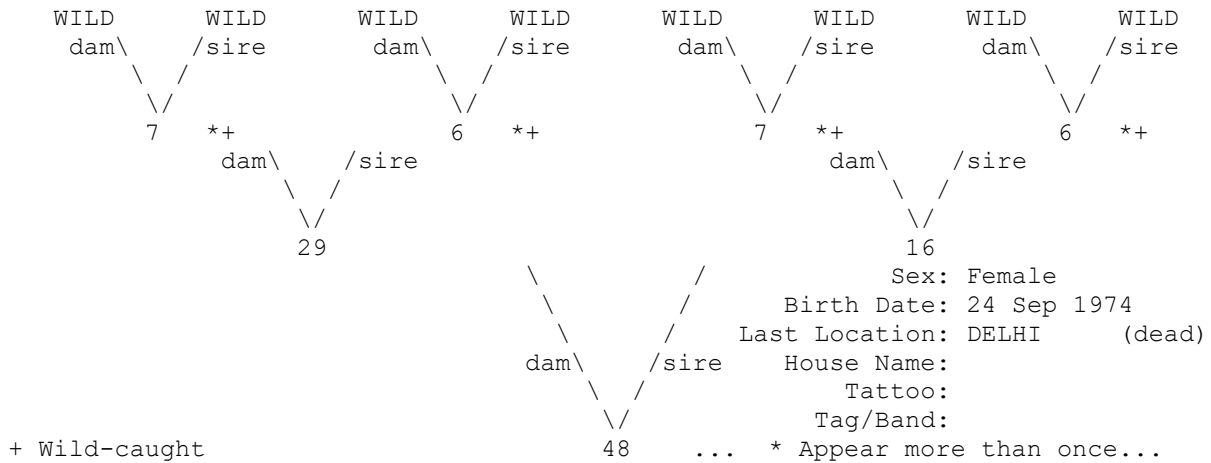
```

=====
Taxon Name: MACACA SILENUS                      Studbook Number: 47
=====
WILD dam \      / WILD dam \      / WILD dam \      / WILD dam \      /
       \      /       \      /       \      /       \      /
        \    /         \    /         \    /         \    /
         \  /           \  /           \  /           \  /
          \ /            \ /            \ /            \ /
           V              V              V              V
            10            7              6              +
           +              +              +              +
WILD dam \      / WILD dam \      /
       \      /       \      /
        \    /         \    /
         \  /           \  /
          \ /            \ /
           V              V
            10            16
           +              +
+ Wild-caught...
dam \      /
  \      /
   \    /
    \  /
     \ /
      V
      47
Sex: Female
Birth Date: 28 Sep 1973
Last Location: DELHI (dead)
House Name:
Tattoo:
Tag/Band:
    
```

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

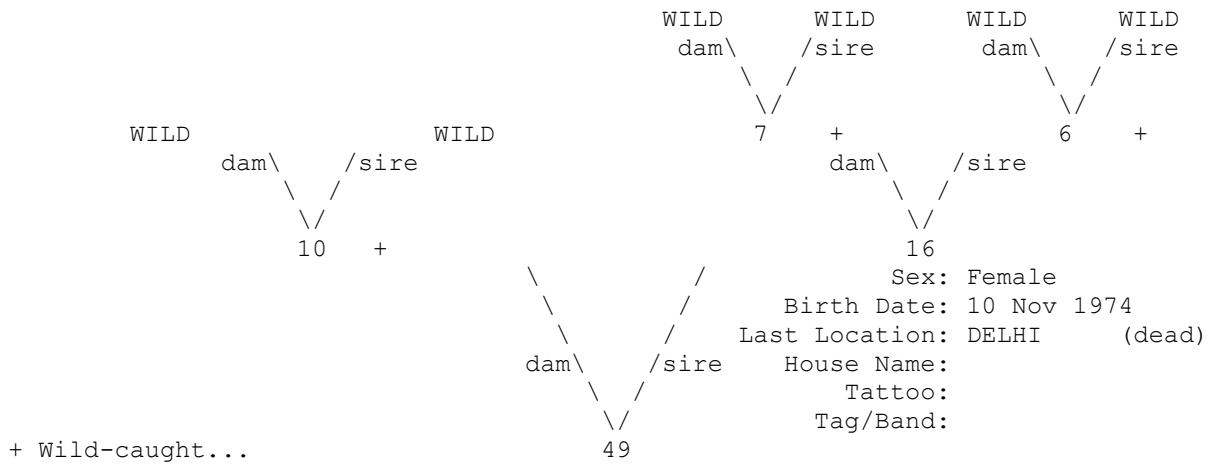
=====
 Taxon Name: MACACA SILENUS

Studbook Number: 48
 =====



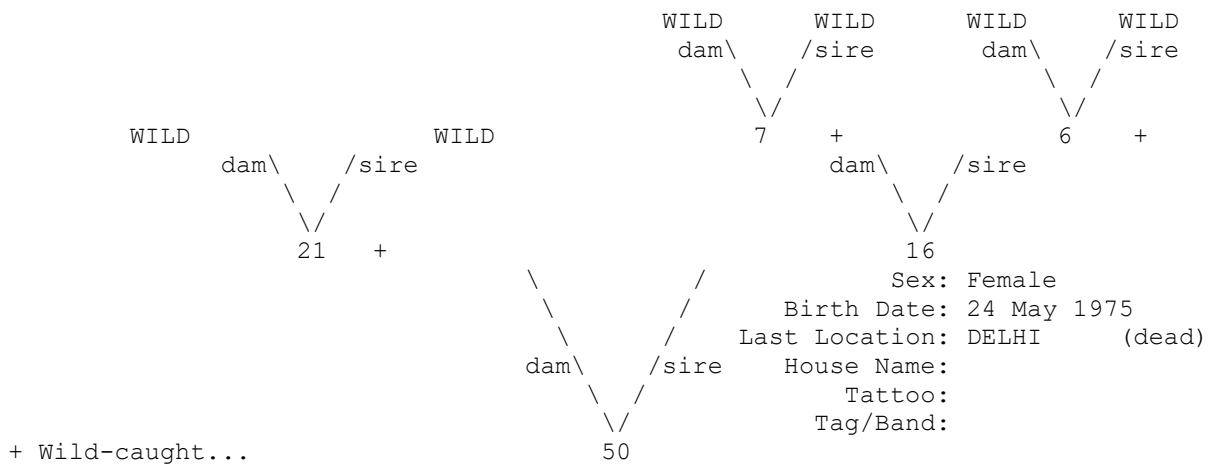
=====
 Taxon Name: MACACA SILENUS

Studbook Number: 49
 =====



=====
 Taxon Name: MACACA SILENUS

Studbook Number: 50
 =====

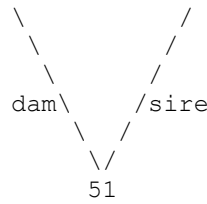


NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 51
 =====

WILD



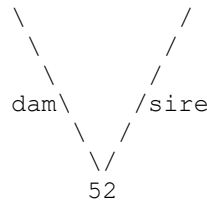
WILD

Sex: Male
 Birth Date: ~ 1976
 Last Location: CHATBIR Z (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 52
 =====

WILD

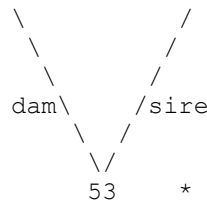
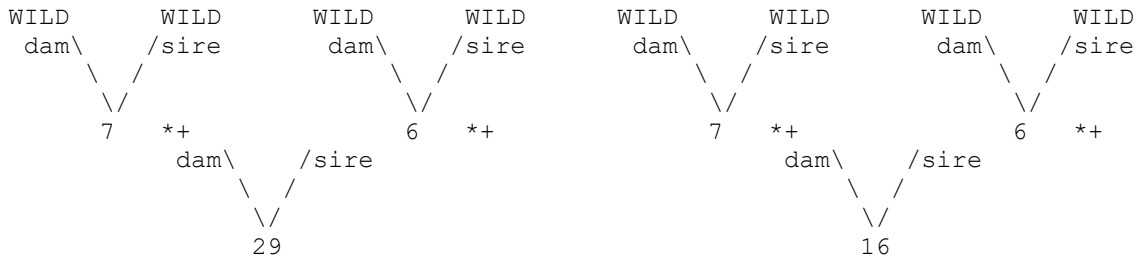


WILD

Sex: Female
 Birth Date: ~ 1976
 Last Location: CHATBIR Z (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 53
 =====



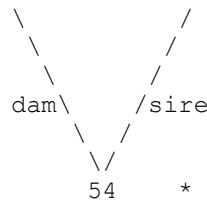
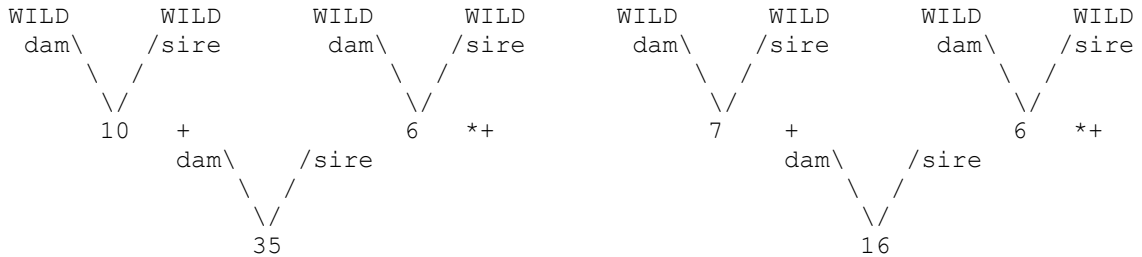
Sex: Male
 Birth Date: 23 Mar 1976
 Last Location: JAIPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

* Appear more than once...

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 54
 =====



Sex: Male
 Birth Date: 26 May 1976
 Last Location: NANDANKAN (dead)
 House Name: RAM
 Tattoo:
 Tag/Band:

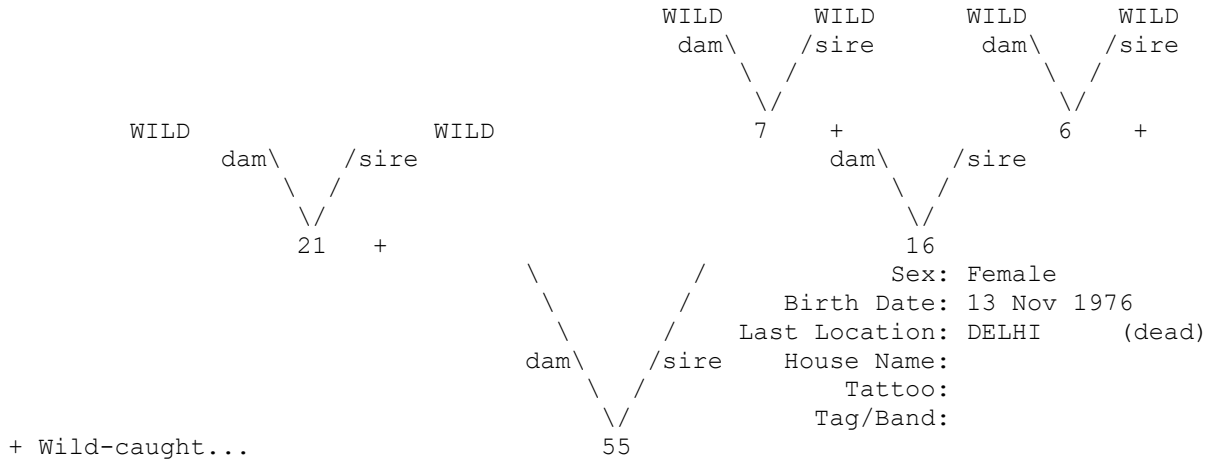
+ Wild-caught...

* Appear more than once...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

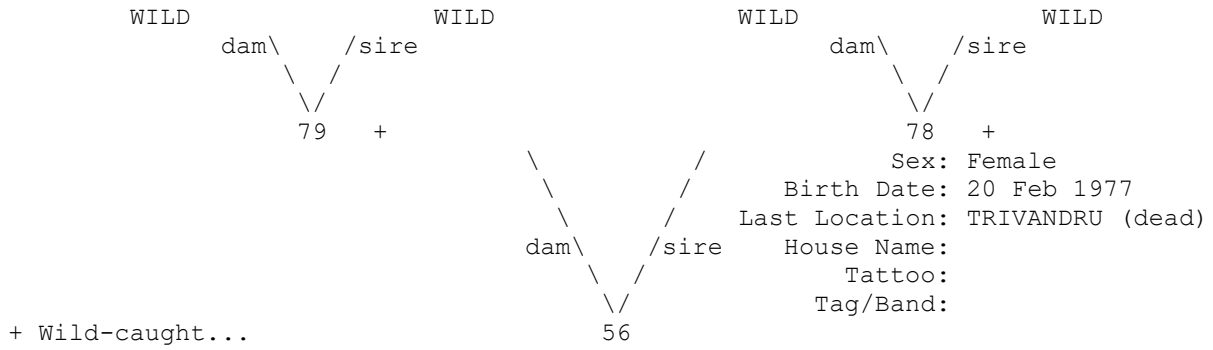
Taxon Name: *MACACA SILENUS*

Studbook Number: 55



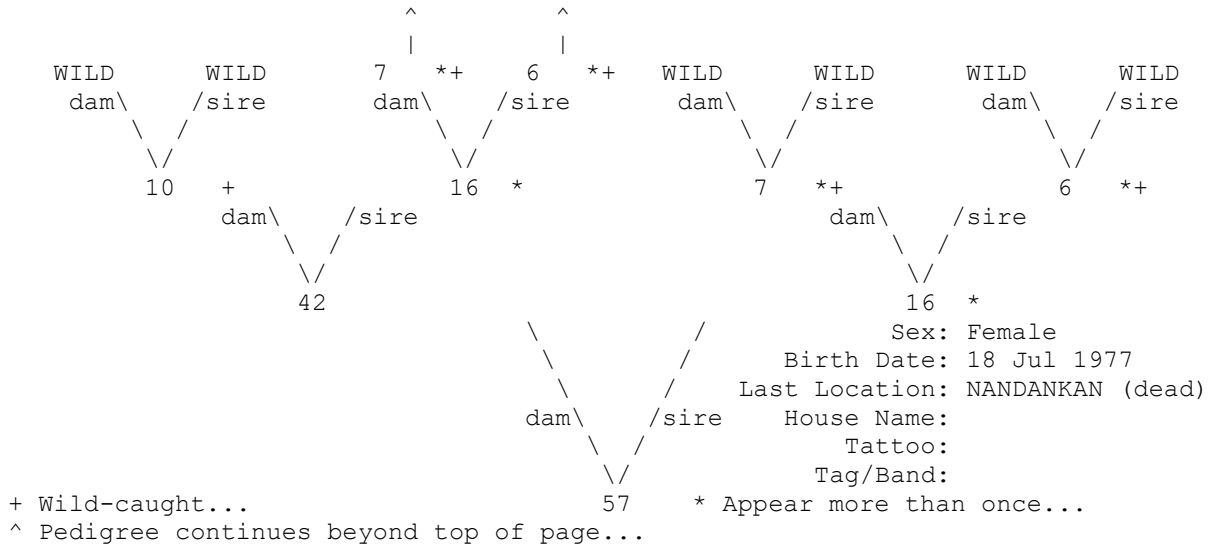
Taxon Name: *MACACA SILENUS*

Studbook Number: 56



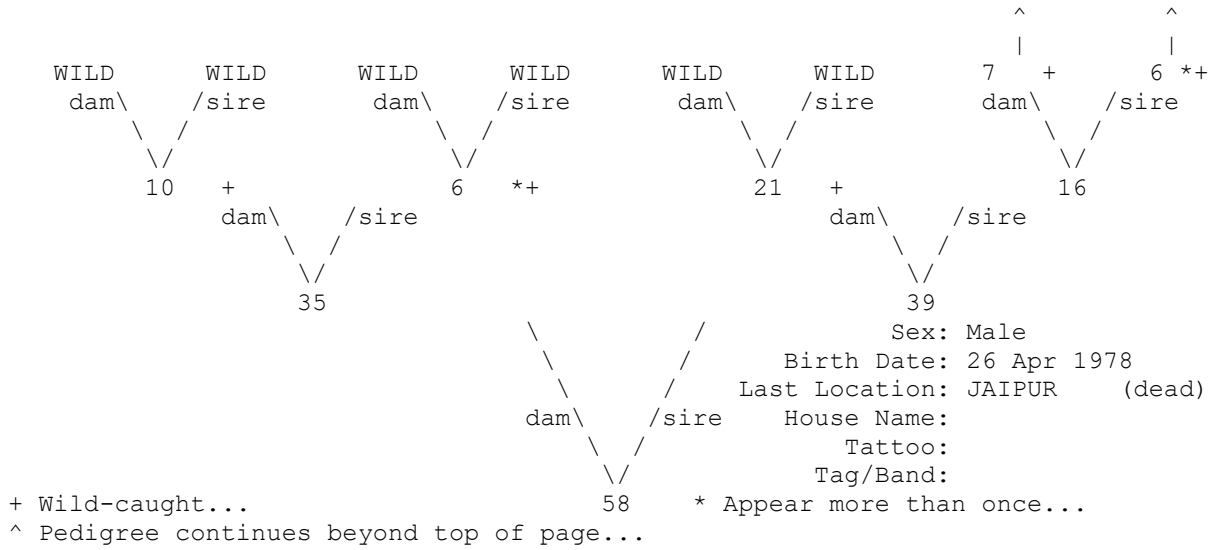
Taxon Name: *MACACA SILENUS*

Studbook Number: 57



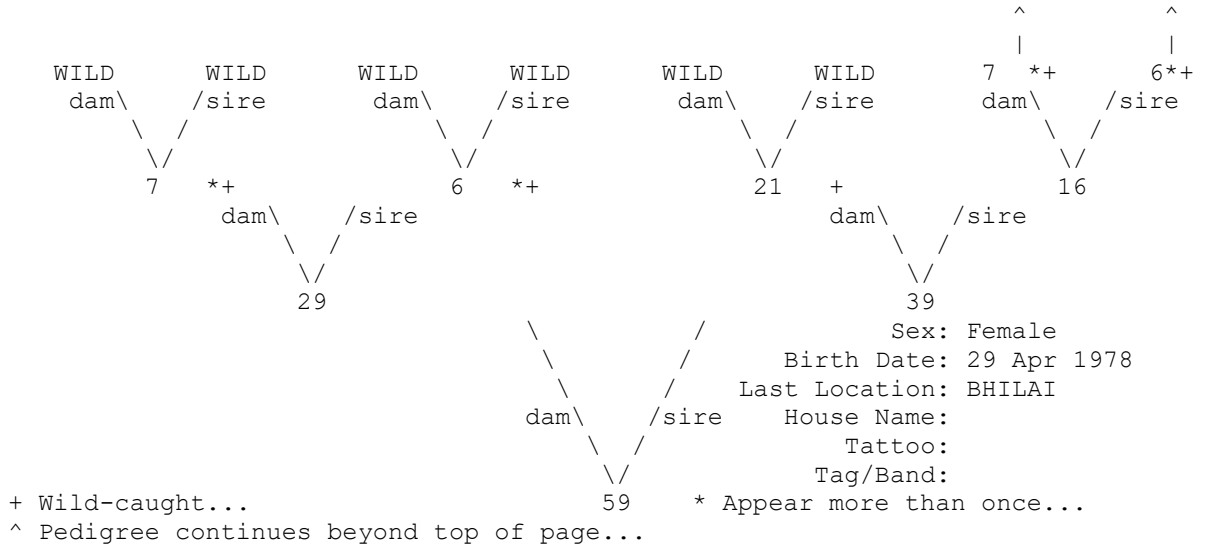
=====
 Taxon Name: MACACA SILENUS

Studbook Number: 58
 =====



=====
 Taxon Name: MACACA SILENUS

Studbook Number: 59
 =====

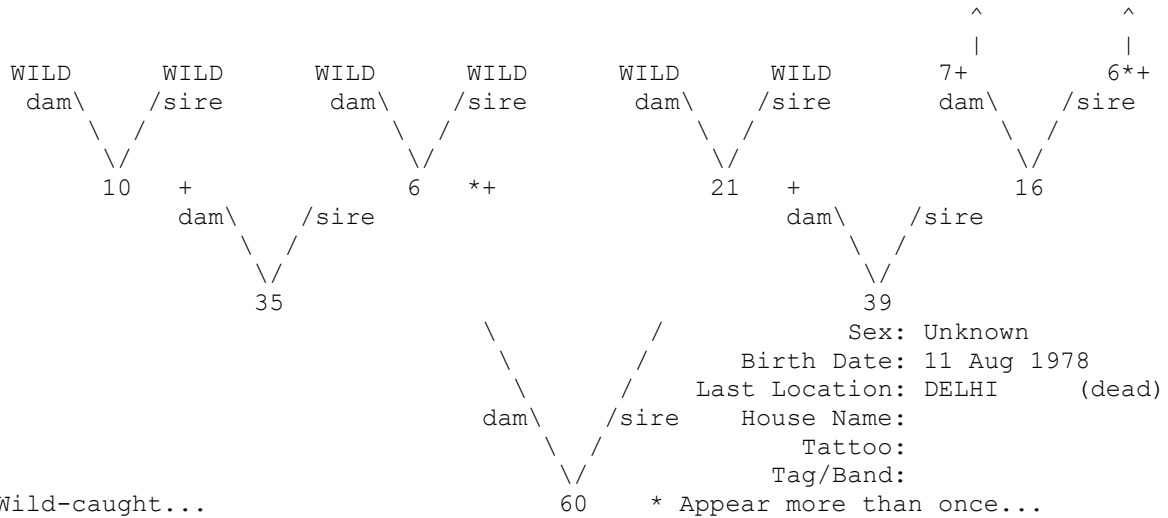


=====

Taxon Name: MACACA SILENUS

Studbook Number: 60

=====



+ Wild-caught...

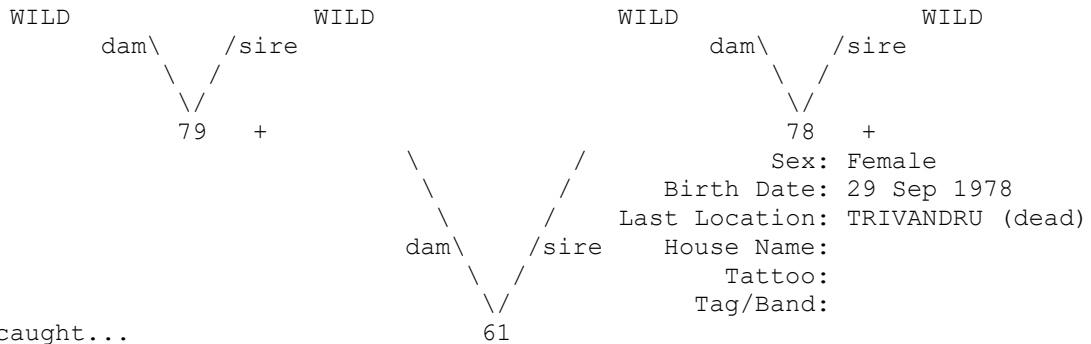
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=====

Taxon Name: MACACA SILENUS

Studbook Number: 61

=====



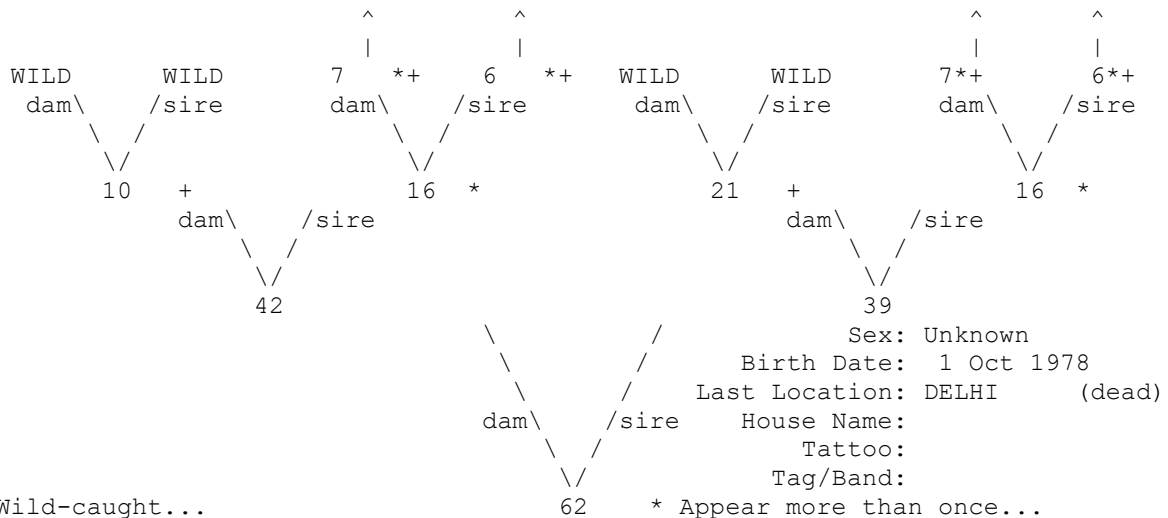
+ Wild-caught...

=====

Taxon Name: MACACA SILENUS

Studbook Number: 62

=====

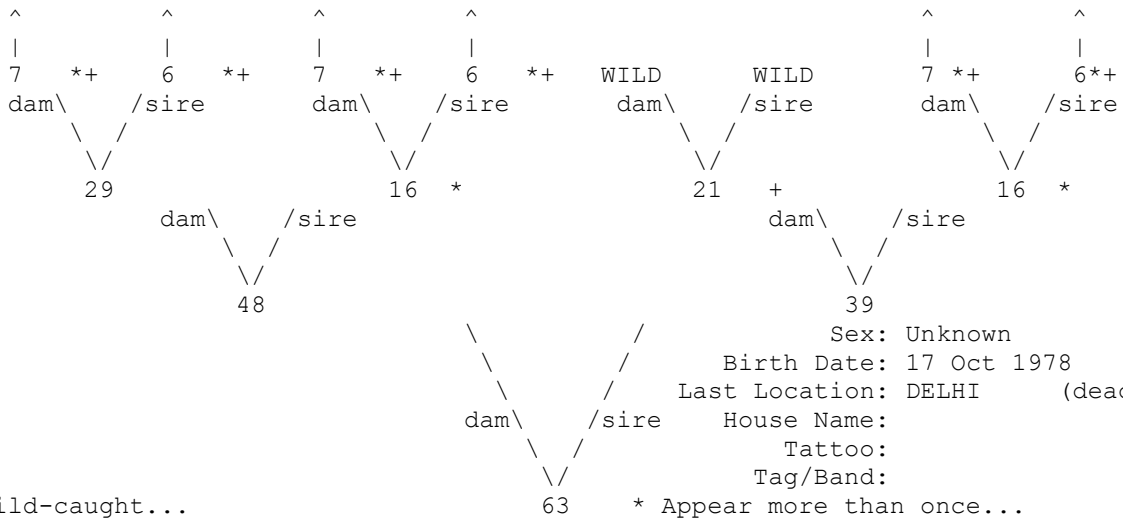


+ Wild-caught...

^ Pedigree continues beyond top of page...

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 63
 =====



Sex: Unknown
 Birth Date: 17 Oct 1978
 Last Location: DELHI (dead)
 House Name:
 Tattoo:
 Tag/Band:

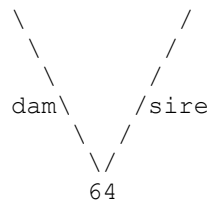
+ Wild-caught...

^ Pedigree continues beyond top of page...

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 64
 =====

WILD

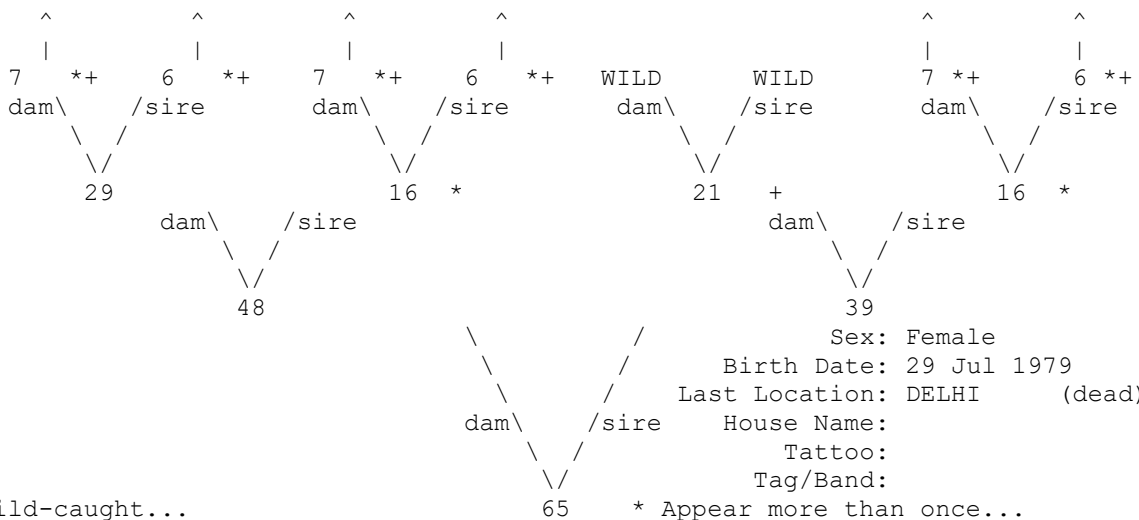


WILD

Sex: Female
 Birth Date: ~ 1979
 Last Location: HYDERABAD (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 65
 =====



Sex: Female
 Birth Date: 29 Jul 1979
 Last Location: DELHI (dead)
 House Name:
 Tattoo:
 Tag/Band:

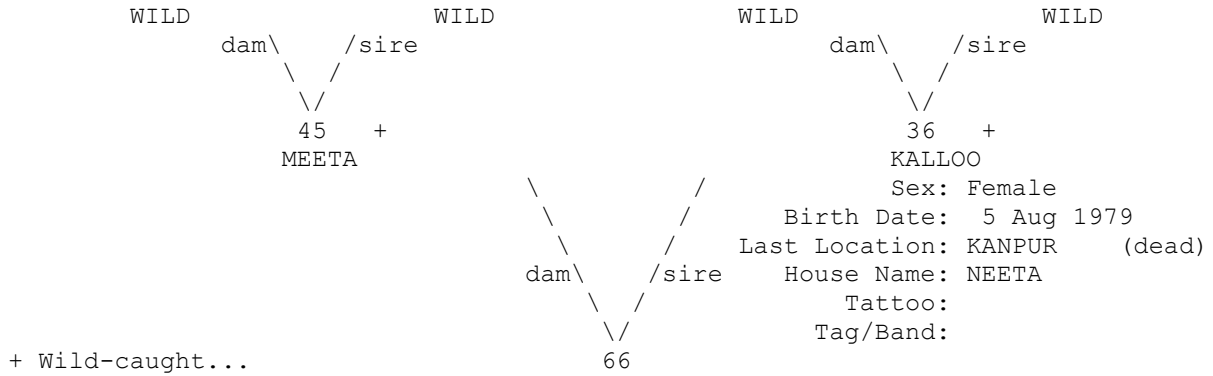
+ Wild-caught...

^ Pedigree continues beyond top of page...

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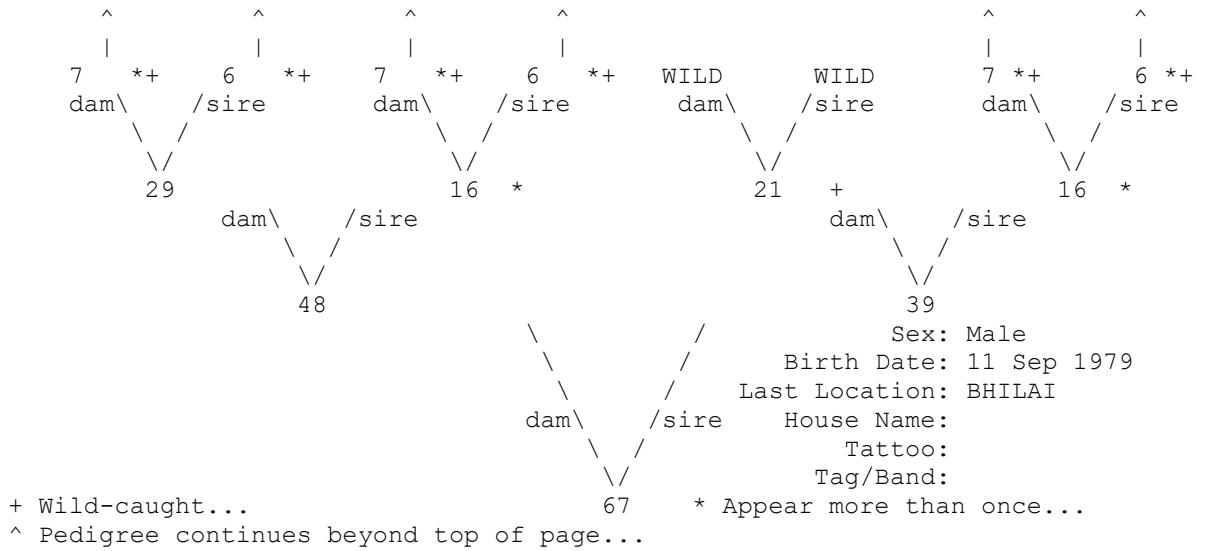
=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 66
 =====



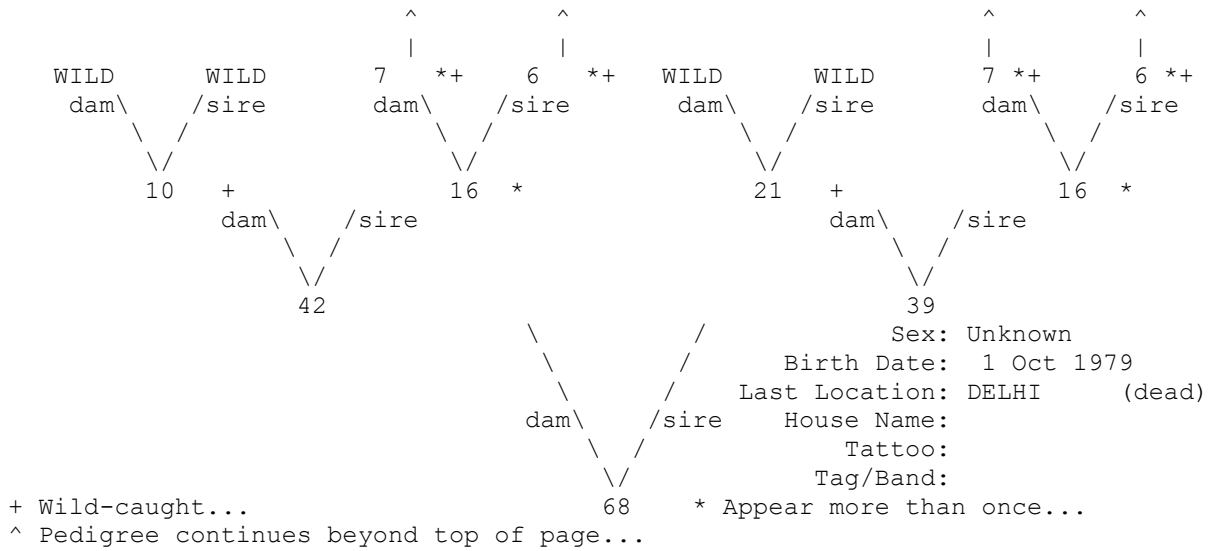
=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 67
 =====



=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 68
 =====



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

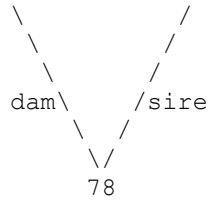
=====

Taxon Name: MACACA SILENUS

Studbook Number: 78

=====

WILD



WILD

Sex: Male
 Birth Date: ~ 1973
 Last Location: JAIPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

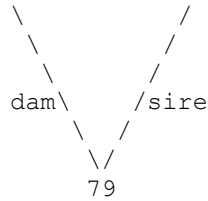
=====

Taxon Name: MACACA SILENUS

Studbook Number: 79

=====

WILD



WILD

Sex: Female
 Birth Date: ~ 1973
 Last Location: JAIPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

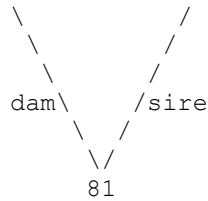
=====

Taxon Name: MACACA SILENUS

Studbook Number: 81

=====

WILD



WILD

Sex: Female
 Birth Date: ~ 1980
 Last Location: CHATBIR Z (dead)
 House Name: SONI
 Tattoo:
 Tag/Band:

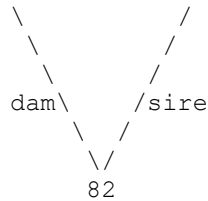
=====

Taxon Name: MACACA SILENUS

Studbook Number: 82

=====

WILD



WILD

Sex: Male
 Birth Date: ~ 1980
 Last Location: CHATBIR Z (dead)
 House Name: MAHIWAL/BUGGA
 Tattoo:
 Tag/Band:

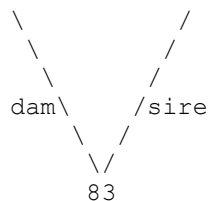
=====

Taxon Name: MACACA SILENUS

Studbook Number: 83

=====

WILD



WILD

Sex: Male
 Birth Date: ????
 Last Location: BANNERGHA (dead)
 House Name: RAM
 Tattoo:
 Tag/Band:

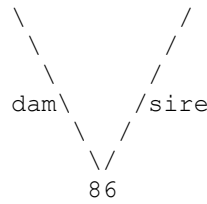
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Taxon Name: *MACACA SILENUS*

Studbook Number: 86

WILD

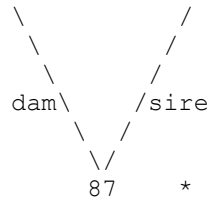
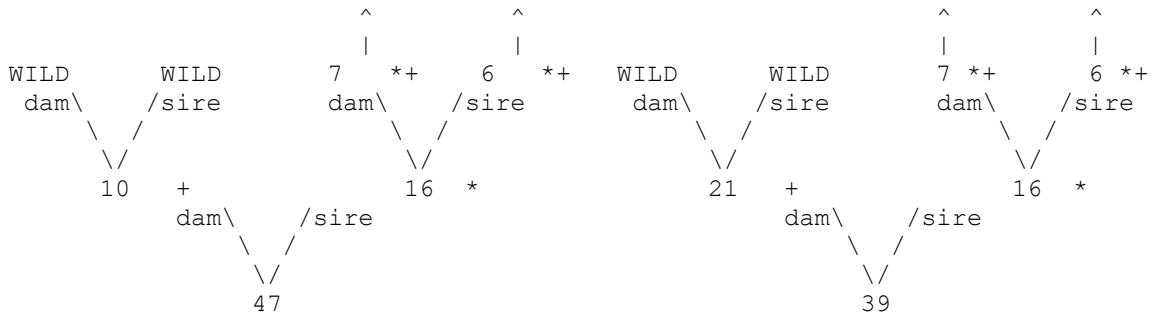
WILD



Sex: Female
 Birth Date: ~ 1982
 Last Location: MYSORE (dead)
 House Name: NETHRA
 Tattoo:
 Tag/Band:

Taxon Name: *MACACA SILENUS*

Studbook Number: 87



Sex: Male
 Birth Date: 4 Apr 1980
 Last Location: DELHI
 House Name:
 Tattoo:
 Tag/Band:

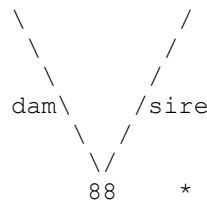
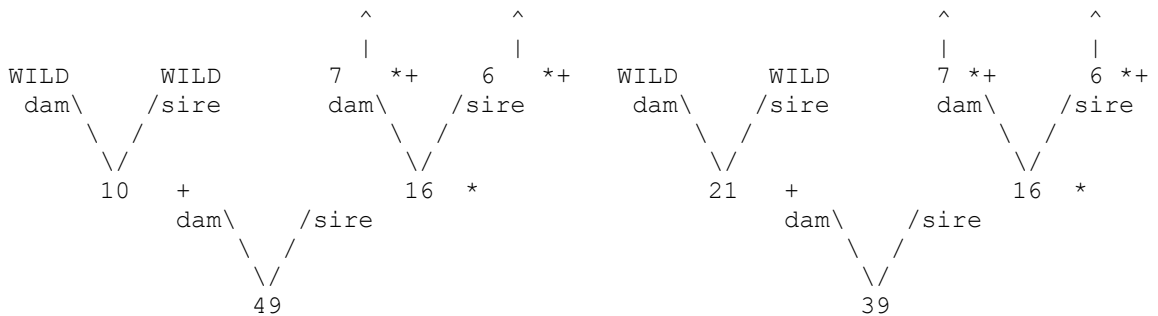
+ Wild-caught...

^ Pedigree continues beyond top of page...

* Appear more than once...

Taxon Name: *MACACA SILENUS*

Studbook Number: 88



Sex: Unknown
 Birth Date: 10 Nov 1980
 Last Location: DELHI (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

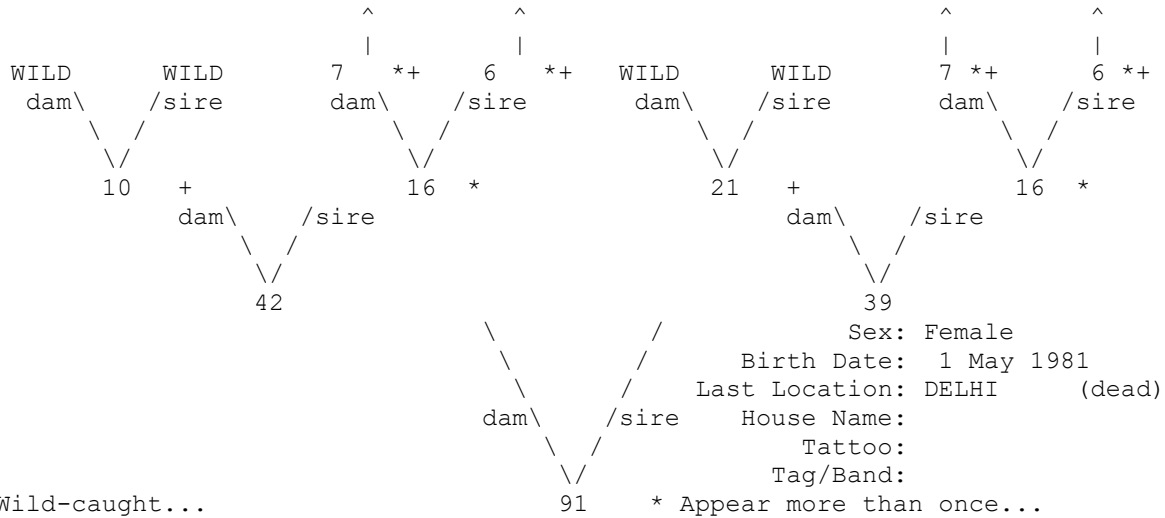
^ Pedigree continues beyond top of page...

* Appear more than once...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 91
 =====

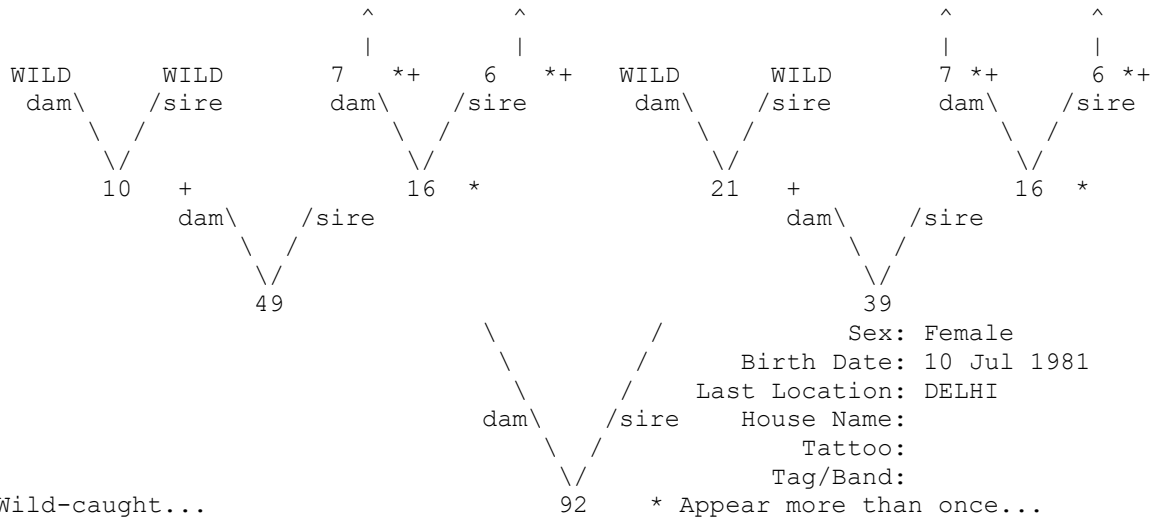


+ Wild-caught...

^ Pedigree continues beyond top of page...

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 92
 =====



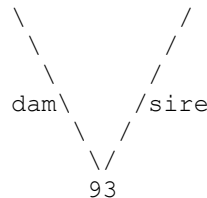
+ Wild-caught...

^ Pedigree continues beyond top of page...

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 93
 =====

WILD



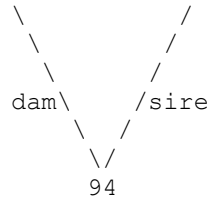
WILD

Sex: Male
 Birth Date: ~ 1982
 Last Location: HYDERABAD (dead)
 House Name: PAVAN
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 94
 =====

WILD



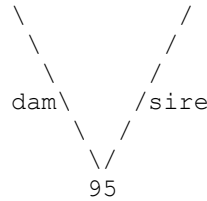
WILD

Sex: Female
 Birth Date: ~ 1982
 Last Location: HYDERABAD (dead)
 House Name: SUMITRA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 95
 =====

WILD



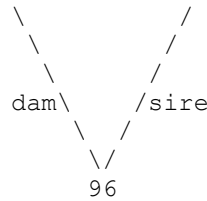
WILD

Sex: Female
 Birth Date: ~ 1982
 Last Location: HYDERABAD (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 96
 =====

WILD

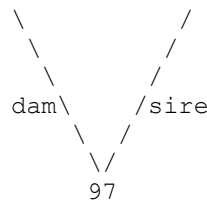
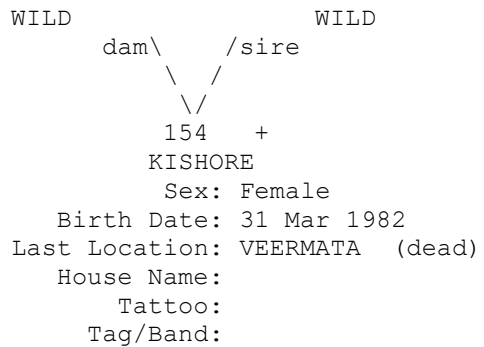
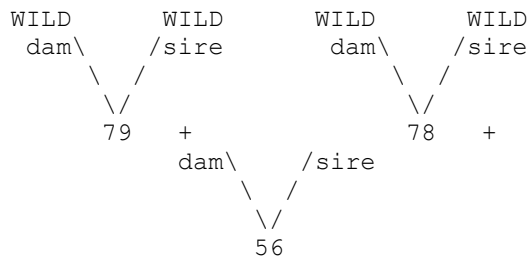


WILD

Sex: Male
 Birth Date: ~ 1982
 Last Location: TRIVANDRU
 House Name: MOHAN
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 97
 =====

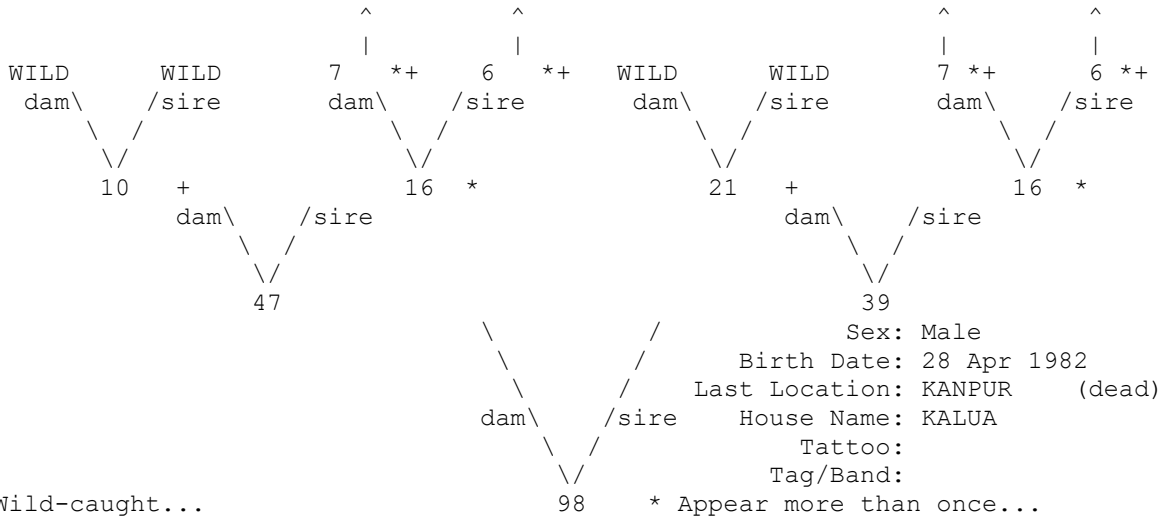


+ Wild-caught...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Taxon Name: *MACACA SILENUS*

Studbook Number: 98

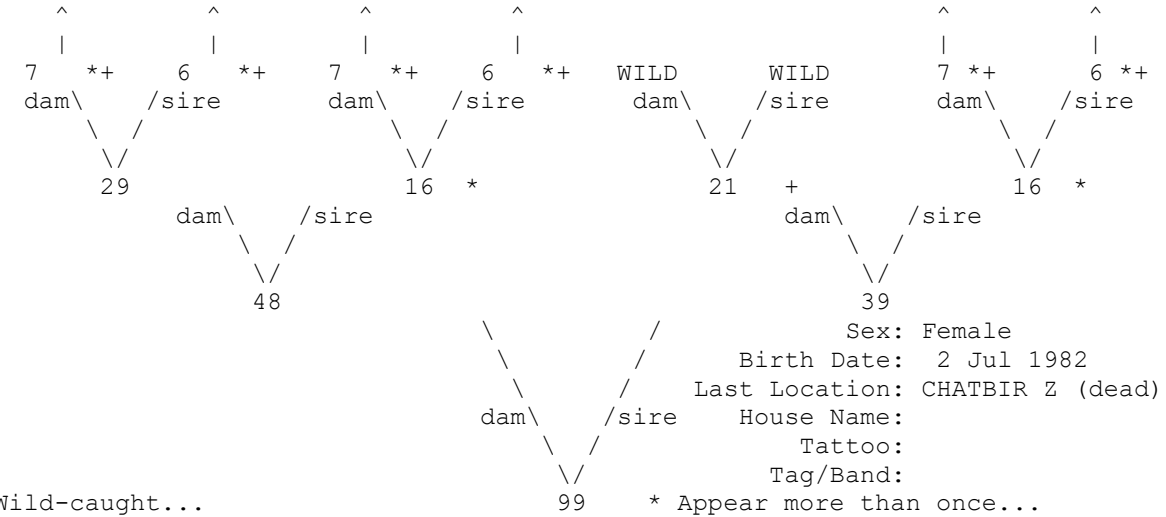


+ Wild-caught...

^ Pedigree continues beyond top of page...

Taxon Name: *MACACA SILENUS*

Studbook Number: 99



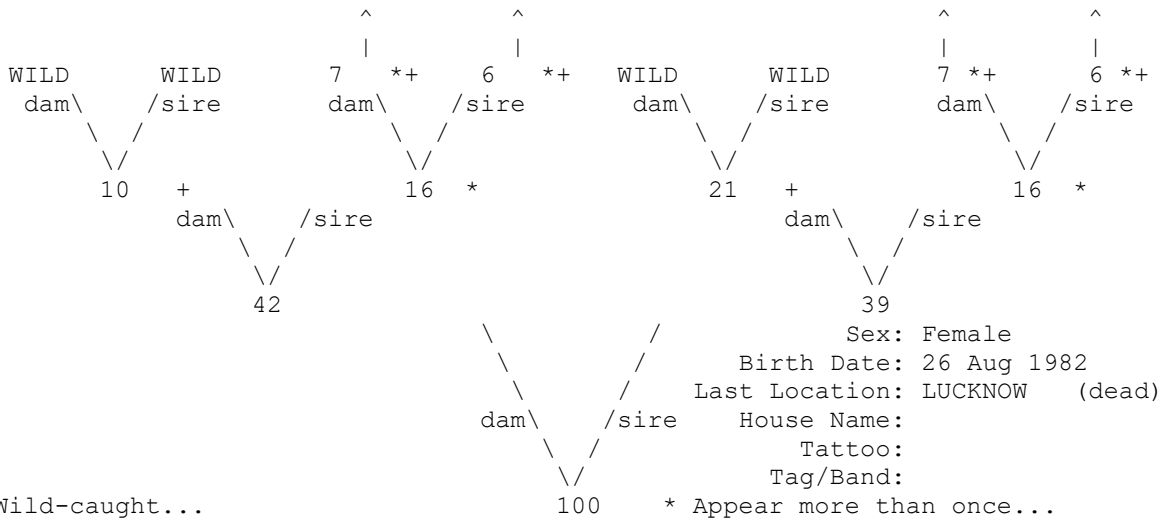
+ Wild-caught...

^ Pedigree continues beyond top of page...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Taxon Name: MACACA SILENUS

Studbook Number: 100

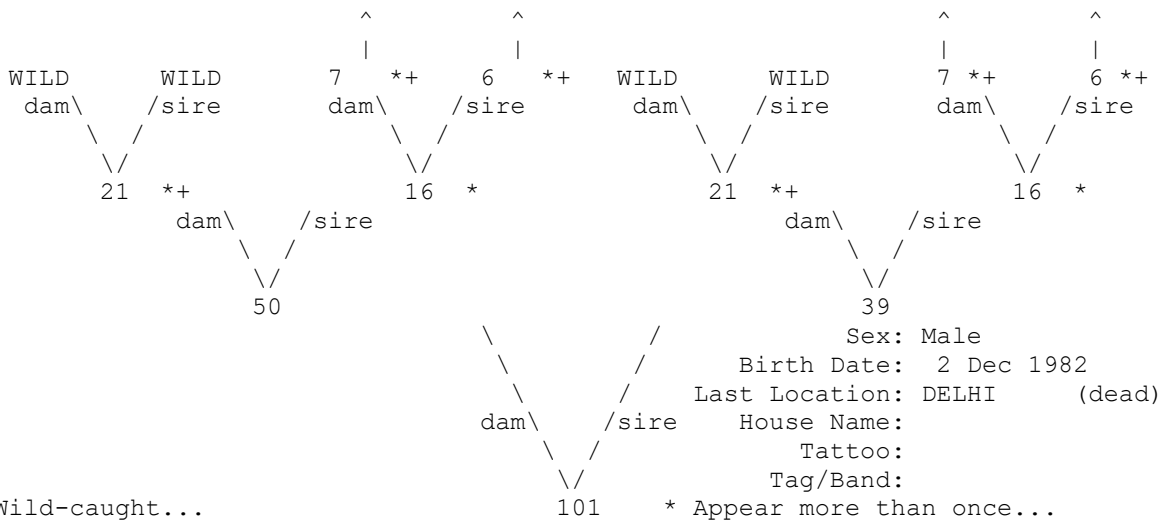


+ Wild-caught...

^ Pedigree continues beyond top of page...

Taxon Name: MACACA SILENUS

Studbook Number: 101



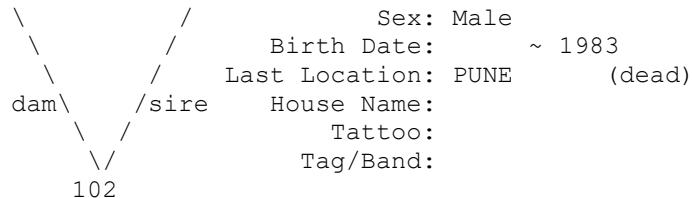
+ Wild-caught...

^ Pedigree continues beyond top of page...

Taxon Name: MACACA SILENUS

Studbook Number: 102

WILD



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 103
 =====

WILD	dam\ \ \ \ 79 +	WILD	dam\ \ \ \ 103	WILD	dam\ \ \ \ 78 +	WILD
					Sex: Female Birth Date: 26 Nov 1982 Last Location: TRIPURA (dead) House Name: BORI Tattoo: Tag/Band:	

+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 104
 =====

WILD	dam\ \ \ \ 104	WILD	dam\ \ \ \ 104	WILD	dam\ \ \ \ 104	WILD
					Sex: Female Birth Date: ~ 1983 Last Location: ASSAM (dead) House Name: JAYA Tattoo: Tag/Band:	

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 105
 =====

WILD	dam\ \ \ \ 105	WILD	dam\ \ \ \ 105	WILD	dam\ \ \ \ 105	WILD
					Sex: Male Birth Date: ~ 1983 Last Location: KODANAD House Name: RAMAN Tattoo: Tag/Band:	

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 106
 =====

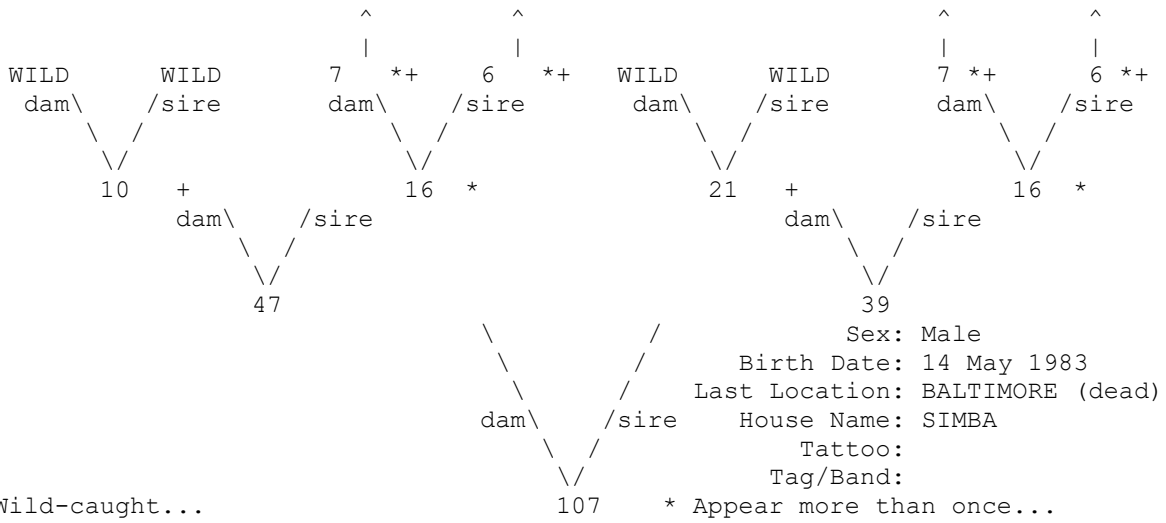
WILD	dam\ \ \ \ 79 +	WILD	dam\ \ \ \ 61 +	WILD	dam\ \ \ \ 78 +	WILD	dam\ \ \ \ 154 +	WILD
							KISHORE Sex: Male Birth Date: 24 Jan 1983 Last Location: TRIVANDRU (dead) House Name: RAJU Tattoo: Tag/Band:	

+ Wild-caught...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Taxon Name: MACACA SILENUS

Studbook Number: 107



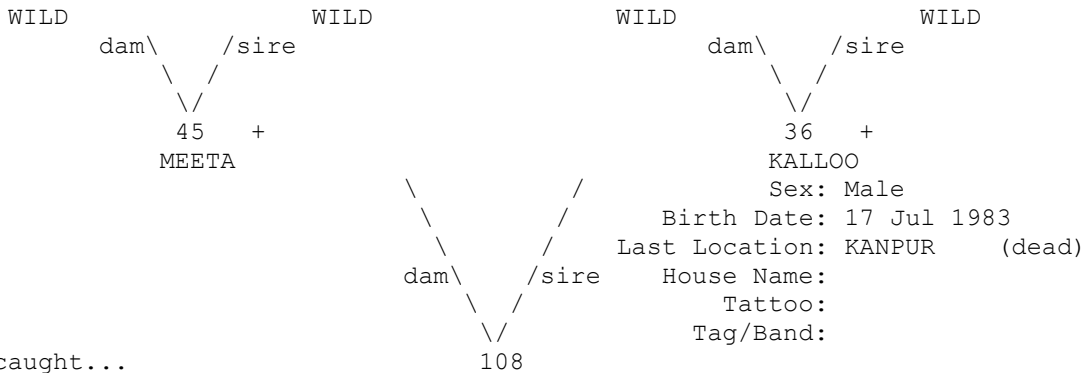
+ Wild-caught...

^ Pedigree continues beyond top of page...

Sex: Male
 Birth Date: 14 May 1983
 Last Location: BALTIMORE (dead)
 House Name: SIMBA
 Tattoo:
 Tag/Band:

Taxon Name: MACACA SILENUS

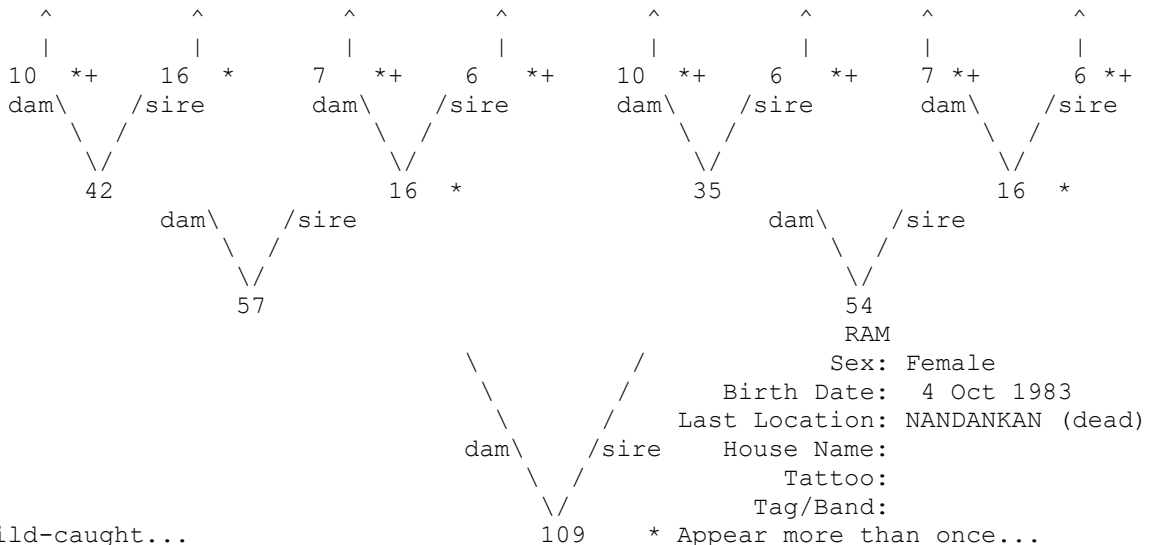
Studbook Number: 108



+ Wild-caught...

Taxon Name: MACACA SILENUS

Studbook Number: 109



+ Wild-caught...

^ Pedigree continues beyond top of page...

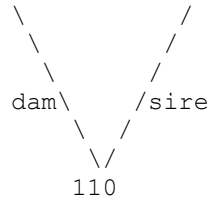
RAM
 Sex: Female
 Birth Date: 4 Oct 1983
 Last Location: NANDANKAN (dead)
 House Name:
 Tattoo:
 Tag/Band:

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 110
 =====

WILD



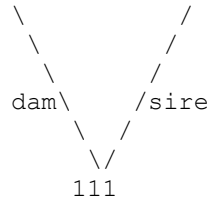
WILD

Sex: Male
 Birth Date: ~ 1984
 Last Location: MADRAS
 House Name: MOHAN
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 111
 =====

WILD



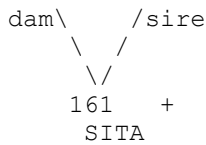
WILD

Sex: Male
 Birth Date: ~ 1984
 Last Location: PARASSINI
 House Name: Raja
 Tattoo:
 Tag/Band:

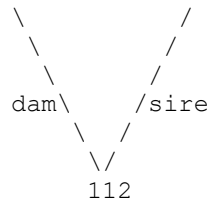
=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 112
 =====

WILD



WILD



WILD

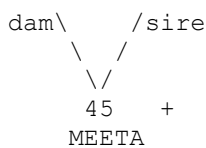
Sex: Male
 Birth Date: 19 Feb 1984
 Last Location: SANDIEGOZ (dead)
 House Name: RAMA
 Tattoo: F617 (UNK)
 Tag/Band:

+ Wild-caught...

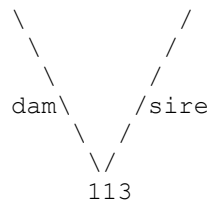
=====
 Taxon Name: MACACA SILENUS
 =====

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 Studbook Number: 113
 =====

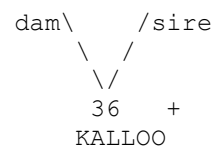
WILD



WILD



WILD



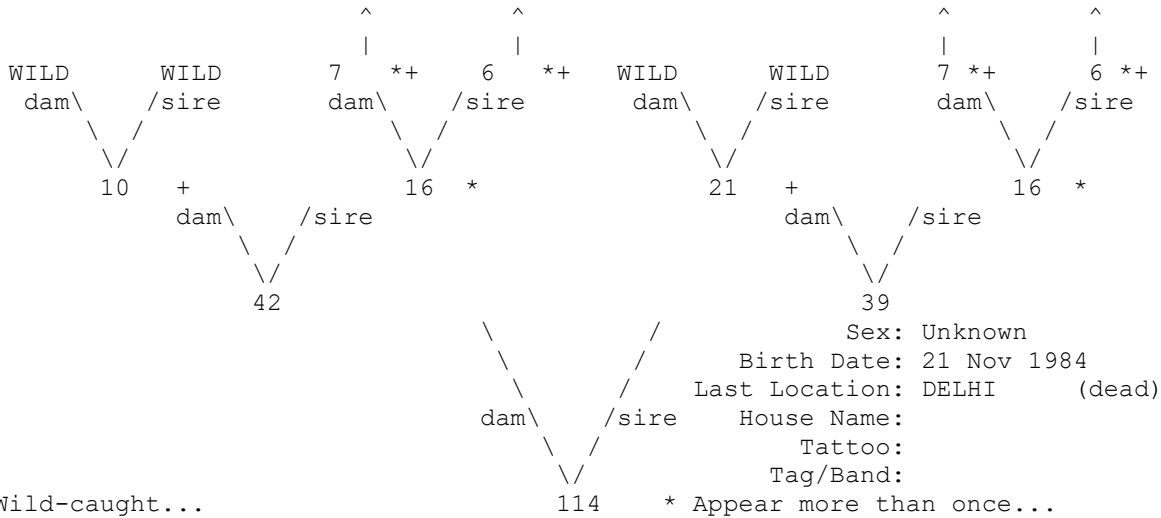
WILD

Sex: Female
 Birth Date: 22 Jun 1984
 Last Location: KANPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

Taxon Name: MACACA SILENUS

Studbook Number: 114



+ Wild-caught...

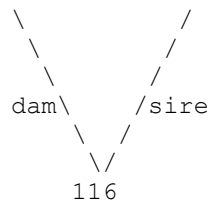
^ Pedigree continues beyond top of page...

Sex: Unknown
 Birth Date: 21 Nov 1984
 Last Location: DELHI (dead)
 House Name:
 Tattoo:
 Tag/Band:

Taxon Name: MACACA SILENUS

Studbook Number: 116

WILD



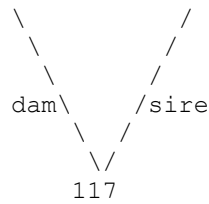
WILD

Sex: Female
 Birth Date: ~ 1985
 Last Location: TRIVANDRU
 House Name: LAXMI
 Tattoo:
 Tag/Band:

Taxon Name: MACACA SILENUS

Studbook Number: 117

WILD

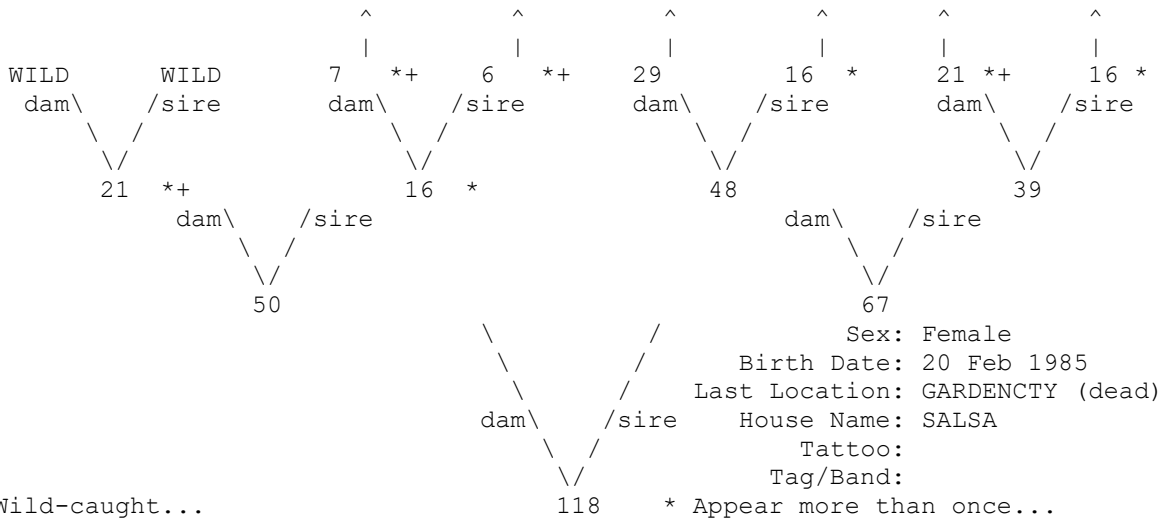


WILD

Sex: Female
 Birth Date: ~ 1985
 Last Location: HYDERABAD
 House Name: MANI
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 118
 =====

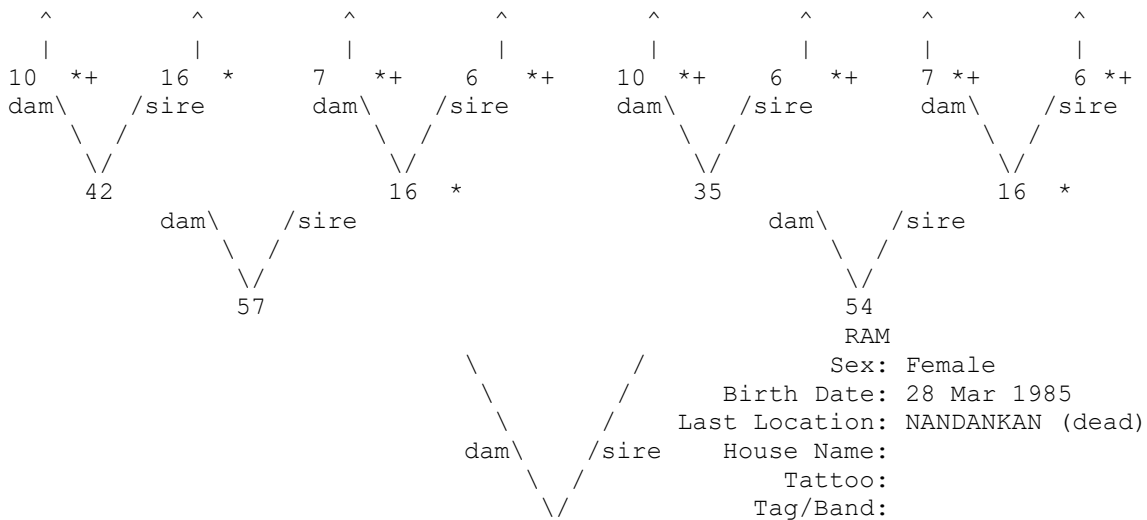


+ Wild-caught...

^ Pedigree continues beyond top of page...

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 Taxon Name: MACACA SILENUS

Studbook Number: 119
 =====



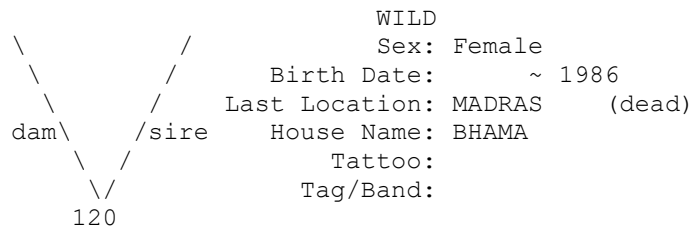
+ Wild-caught...

^ Pedigree continues beyond top of page...

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 120
 =====

WILD



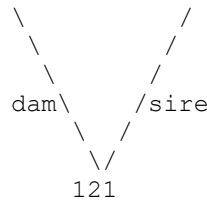
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 121
 =====

WILD

WILD



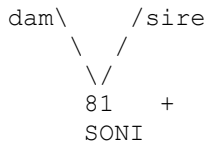
Sex: Female
 Birth Date: ~ 1986
 Last Location: TRIVANDRU
 House Name: BINDU
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 123
 =====

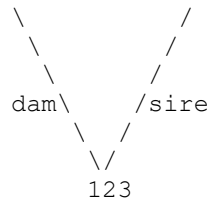
WILD

WILD



WILD

WILD



Sex: Male
 Birth Date: 1 Apr 1986
 Last Location: CHATBIR Z
 House Name: MAJNU
 Tattoo:
 Tag/Band:

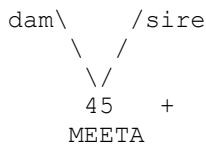
+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 124
 =====

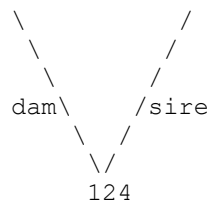
WILD

WILD



WILD

WILD



Sex: Male
 Birth Date: 6 May 1986
 Last Location: KANPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

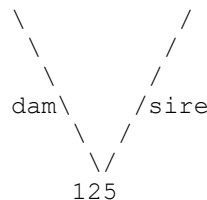
+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 125
 =====

UNK

UNK

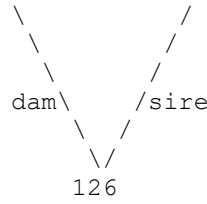


Sex: Female
 Birth Date: ????
 Last Location: BANNERGHA
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 126
 =====

WILD



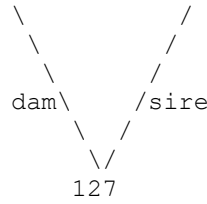
WILD

Sex: Male
 Birth Date: ~ 1986
 Last Location: TRIVANDRU
 House Name: GANESH
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 127
 =====

WILD

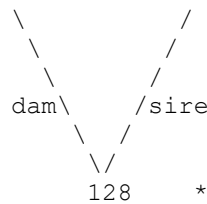
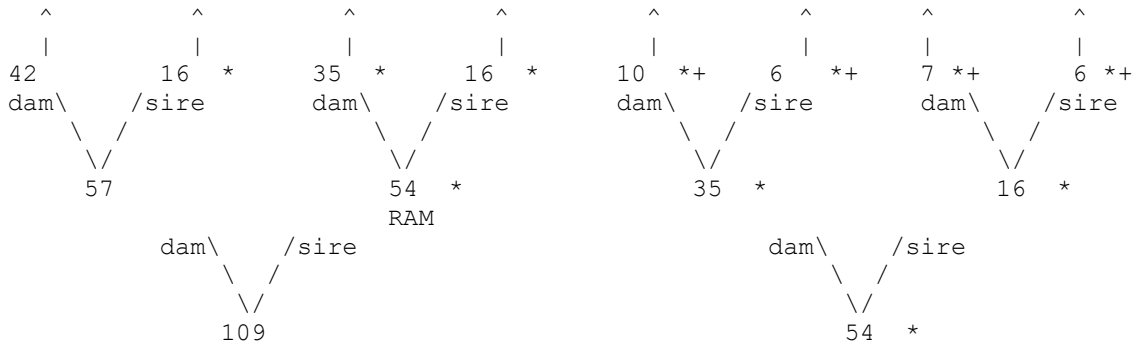


WILD

Sex: Female
 Birth Date: ~ 1987
 Last Location: TRIVANDRU
 House Name: GUNJAN
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 128
 =====



Sex: Male
 Birth Date: 19 Jan 1987
 Last Location: NANDANKAN (dead)
 House Name:
 Tattoo:
 Tag/Band:

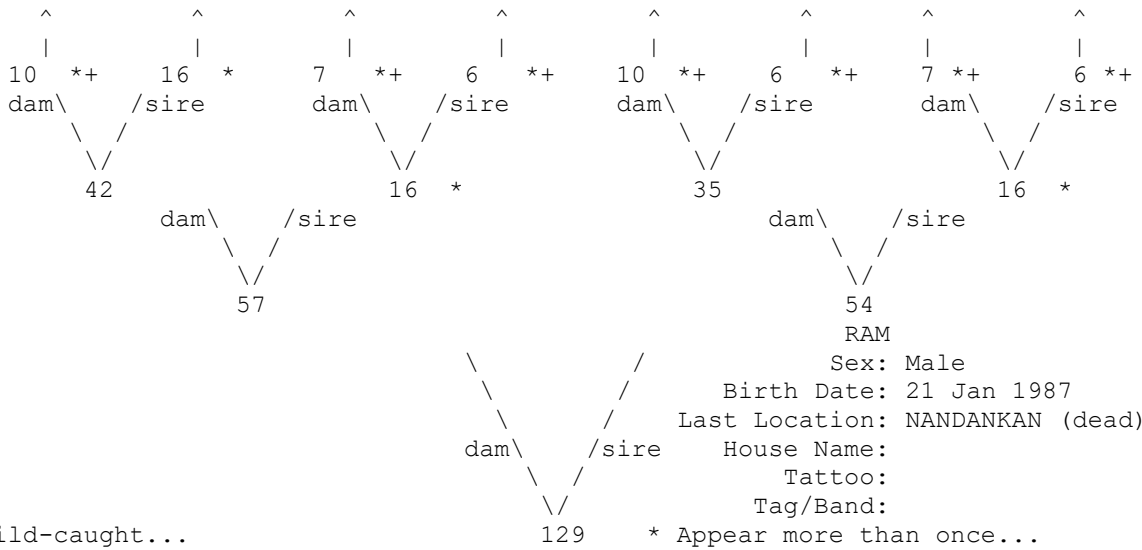
+ Wild-caught...

^ Pedigree continues beyond top of page...

* Appear more than once...

=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 129

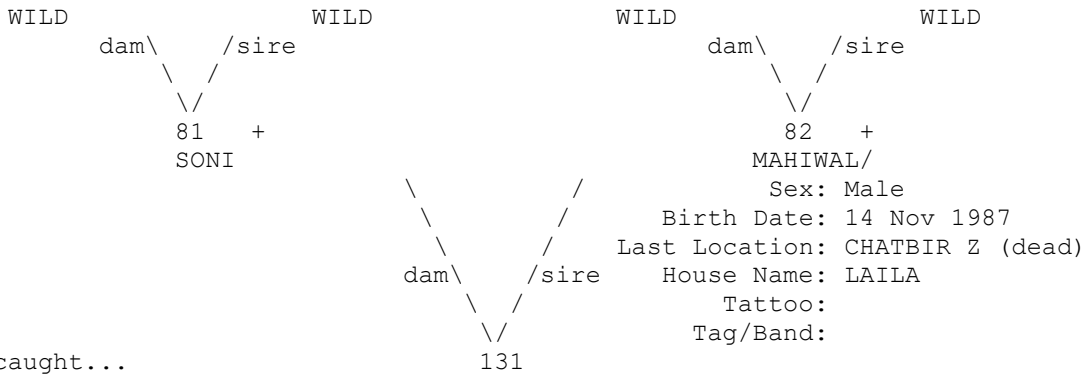


+ Wild-caught...

^ Pedigree continues beyond top of page...

=====
 Taxon Name: MACACA SILENUS

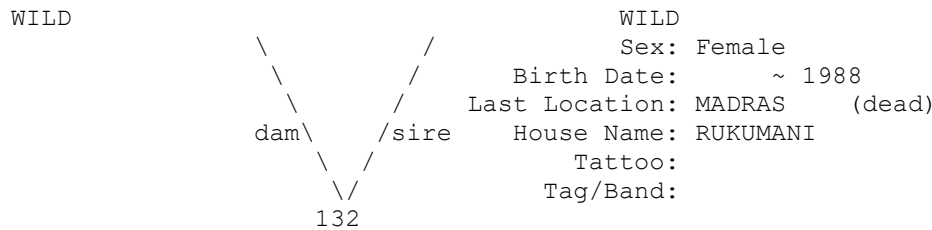
=====
 Studbook Number: 131



+ Wild-caught...

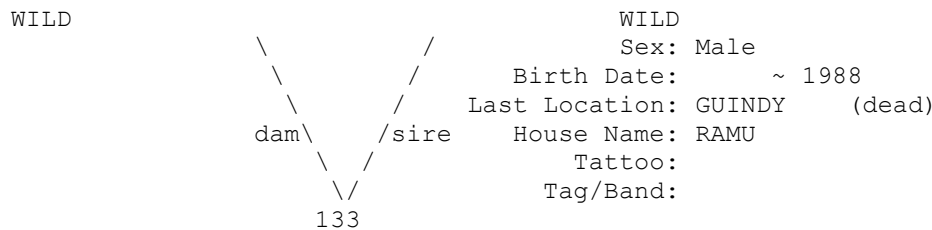
=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 132



=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 133

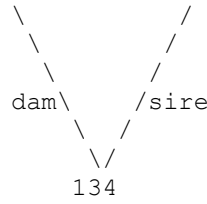


NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Taxon Name: MACACA SILENUS

Studbook Number: 134

WILD



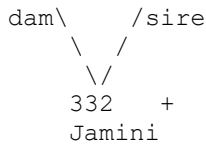
WILD

Sex: Male
 Birth Date: ~ 1988
 Last Location: TRIVANDRU (dead)
 House Name: RANJAN
 Tattoo:
 Tag/Band:

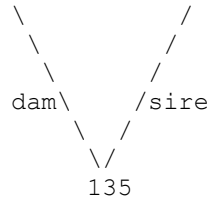
Taxon Name: MACACA SILENUS

Studbook Number: 135

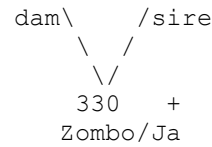
WILD



WILD



WILD



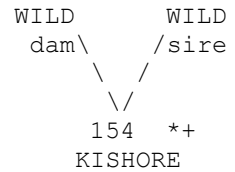
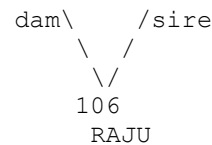
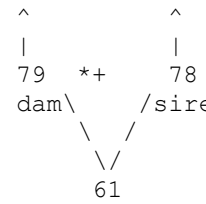
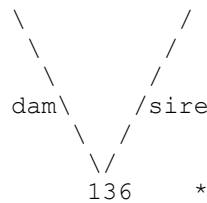
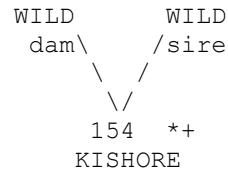
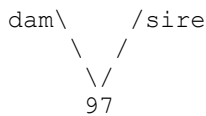
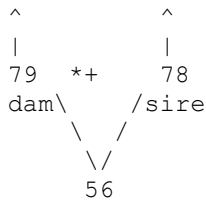
WILD

Sex: Female
 Birth Date: 31 Jan 1988
 Last Location: ASSAM (dead)
 House Name: MUNI
 Tattoo:
 Tag/Band:

+ Wild-caught...

Taxon Name: MACACA SILENUS

Studbook Number: 136



Sex: Female
 Birth Date: 13 Mar 1988
 Last Location: HYDERABAD
 House Name: THARA
 Tattoo:
 Tag/Band:

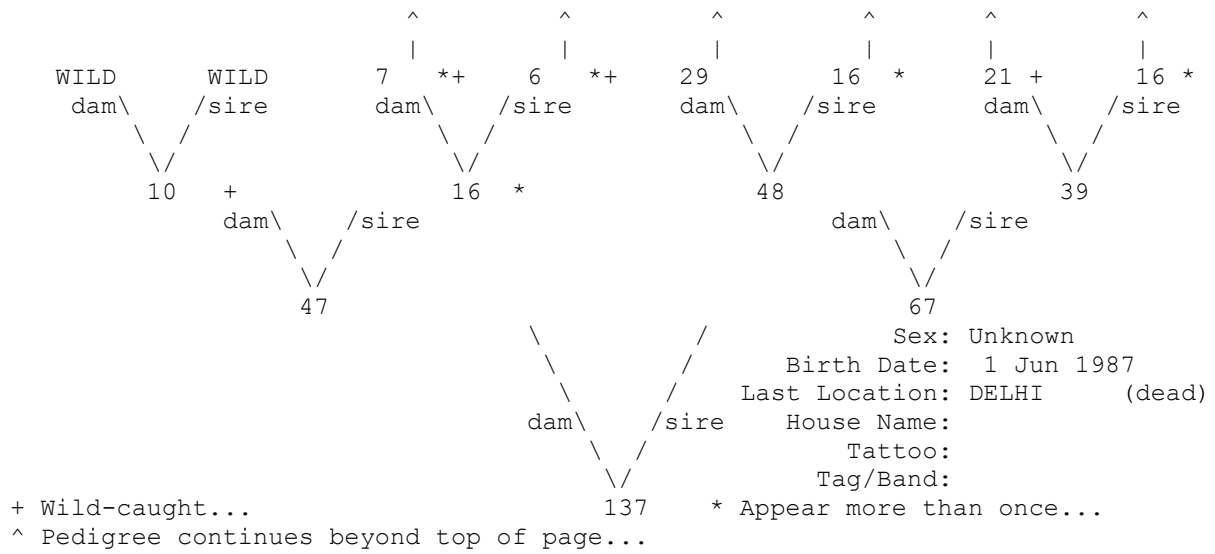
+ Wild-caught...

^ Pedigree continues beyond top of page...

* Appear more than once...

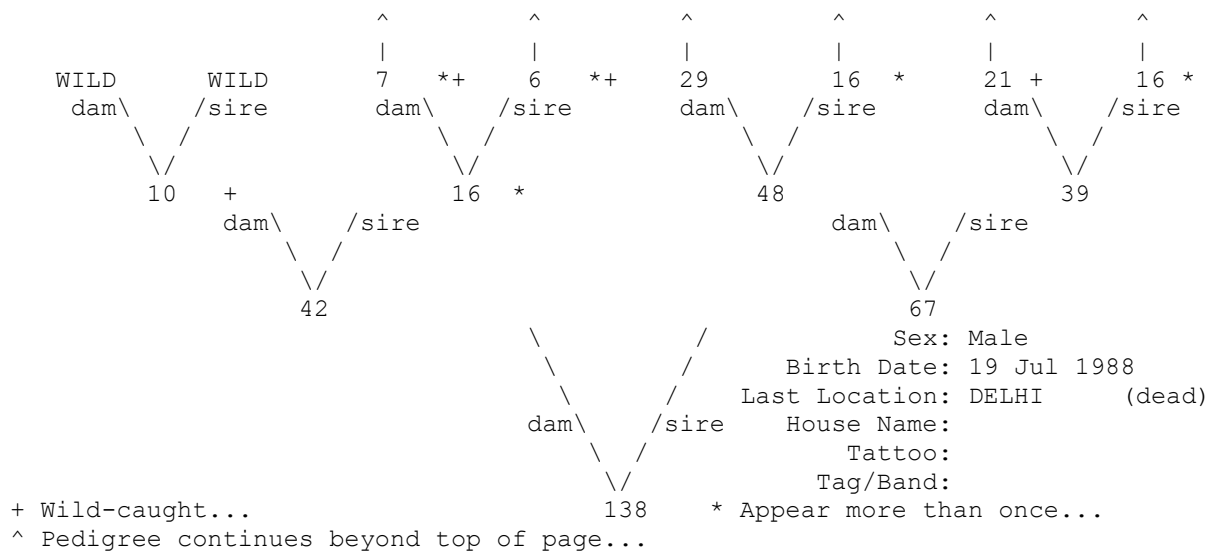
Taxon Name: *MACACA SILENUS*

Studbook Number: 137



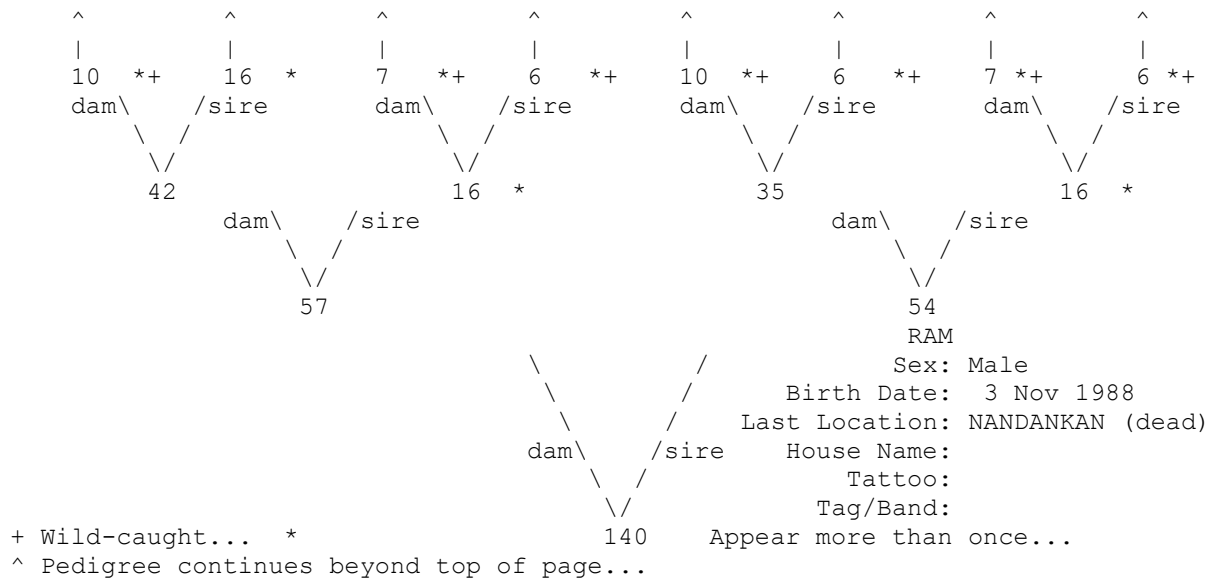
Taxon Name: *MACACA SILENUS*

Studbook Number: 138



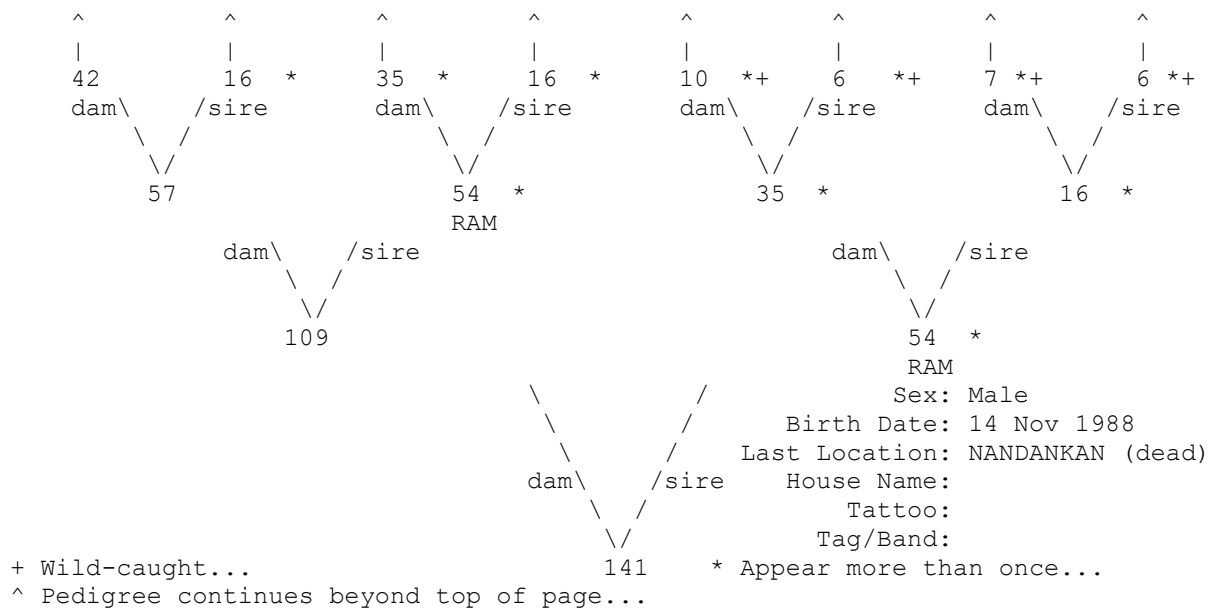
Taxon Name: MACACA SILENUS

Studbook Number: 140



Taxon Name: MACACA SILENUS

Studbook Number: 141



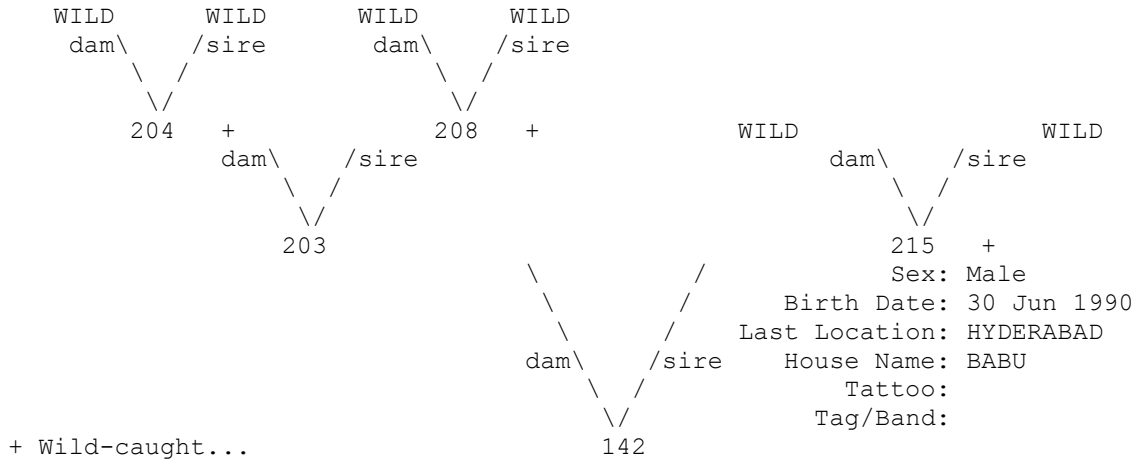
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====

Taxon Name: *MACACA SILENUS*

Studbook Number: 142

=====

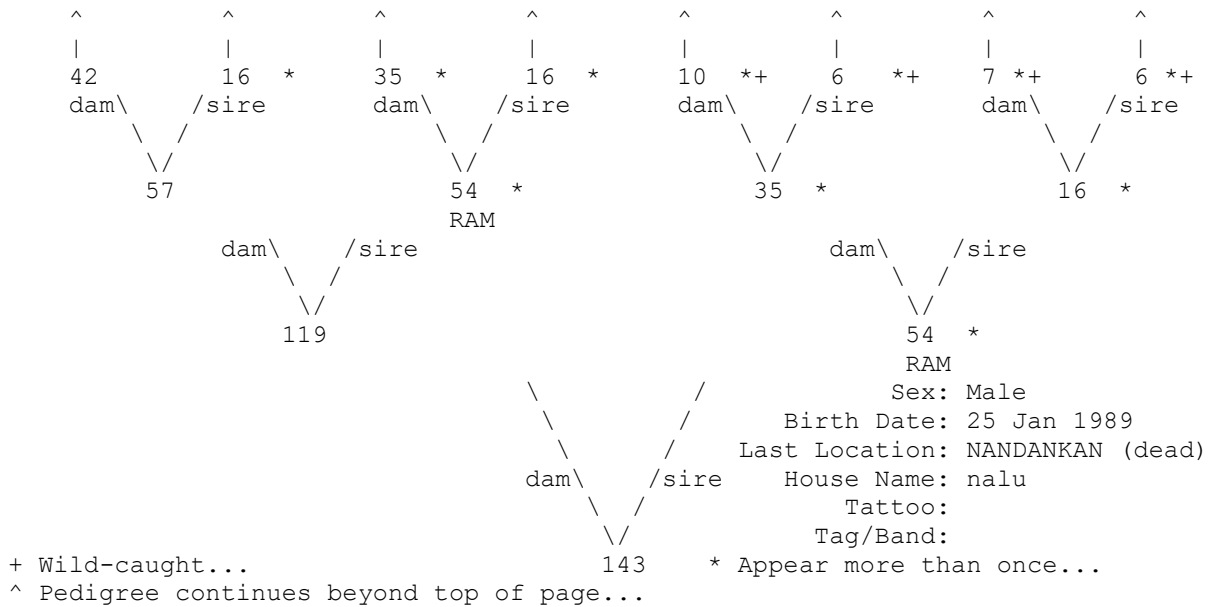


=====

Taxon Name: *MACACA SILENUS*

Studbook Number: 143

=====

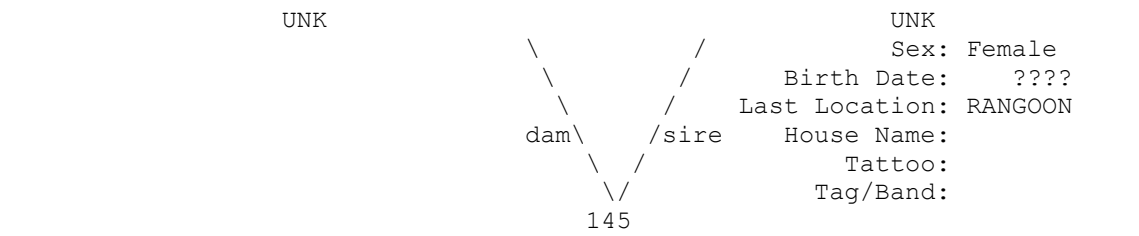


=====

Taxon Name: *MACACA SILENUS*

Studbook Number: 145

=====

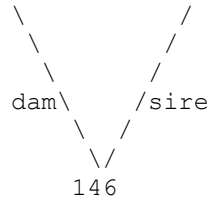


NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 146
 =====

UNK



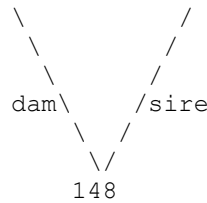
UNK

Sex: Female
 Birth Date: ????
 Last Location: KUALA LUM
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 148
 =====

WILD



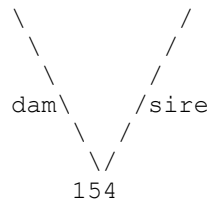
WILD

Sex: Female
 Birth Date: ????
 Last Location: MADRAS
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 154
 =====

WILD



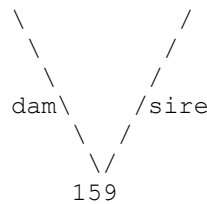
WILD

Sex: Male
 Birth Date: ~ 1975
 Last Location: MADRAS
 House Name: KISHORE IN TRIV
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 159
 =====

WILD



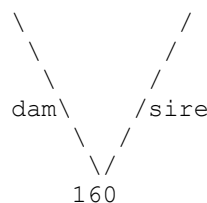
WILD

Sex: Male
 Birth Date: ????
 Last Location: MYSORE (dead)
 House Name: MANJA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 160
 =====

WILD



WILD

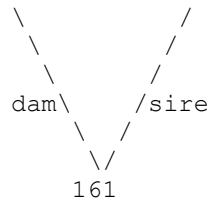
Sex: Female
 Birth Date: ????
 Last Location: TRIVANDRU (dead)
 House Name: LEENA
 Tattoo:
 Tag/Band:

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 161
 =====

WILD



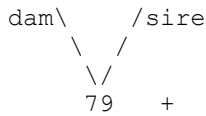
WILD

Sex: Female
 Birth Date: ~ 1980
 Last Location: TORONTO (dead)
 House Name: SITA
 Tattoo:
 Tag/Band:

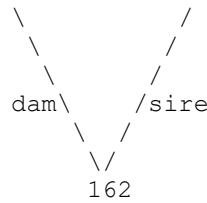
=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 162
 =====

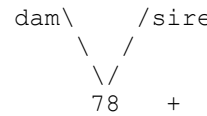
WILD



WILD



WILD



WILD

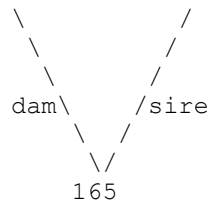
Sex: Female
 Birth Date: 4 Nov 1988
 Last Location: JAIPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 165
 =====

WILD

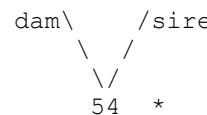
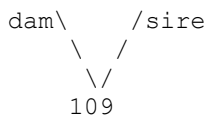
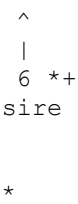
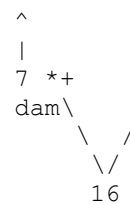
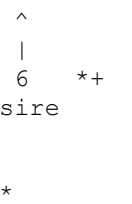
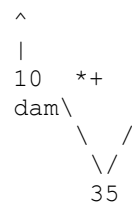
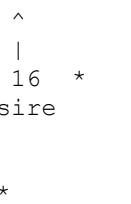
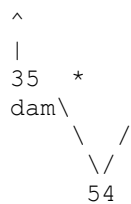
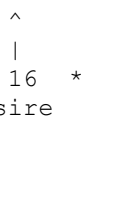
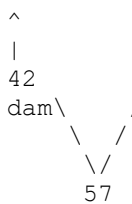


WILD

Sex: Male
 Birth Date: ????
 Last Location: TRIVANDRU (dead)
 House Name: RAJAN
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 166
 =====



RAM
 Sex: Male
 Birth Date: 9 Jan 1990
 Last Location: NANDANKAN (dead)
 House Name:
 Tattoo:
 Tag/Band:

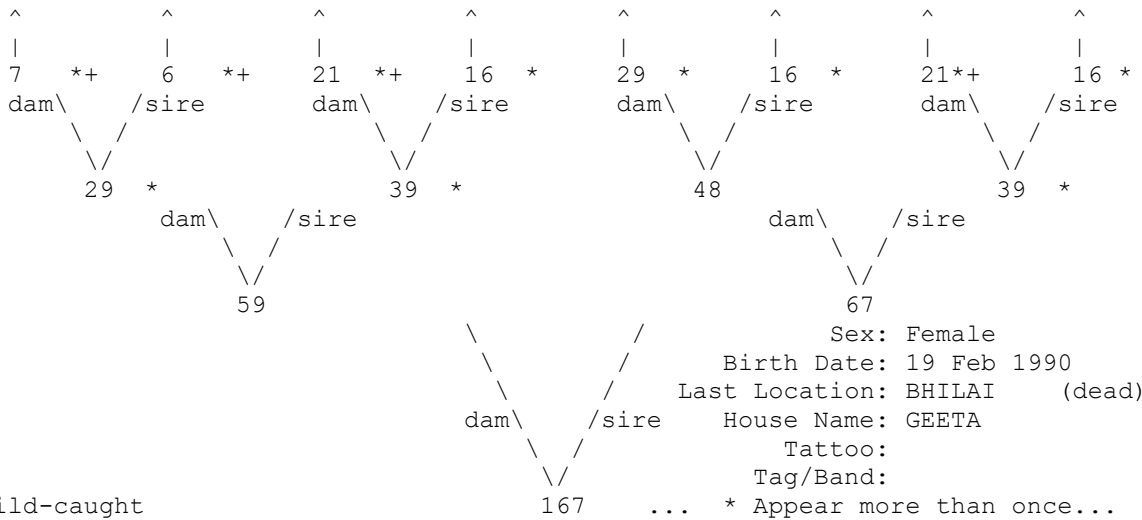
+ Wild-caught...

* Appear more than once...

^ Pedigree continues beyond top of page...

Taxon Name: MACACA SILENUS

Studbook Number: 167

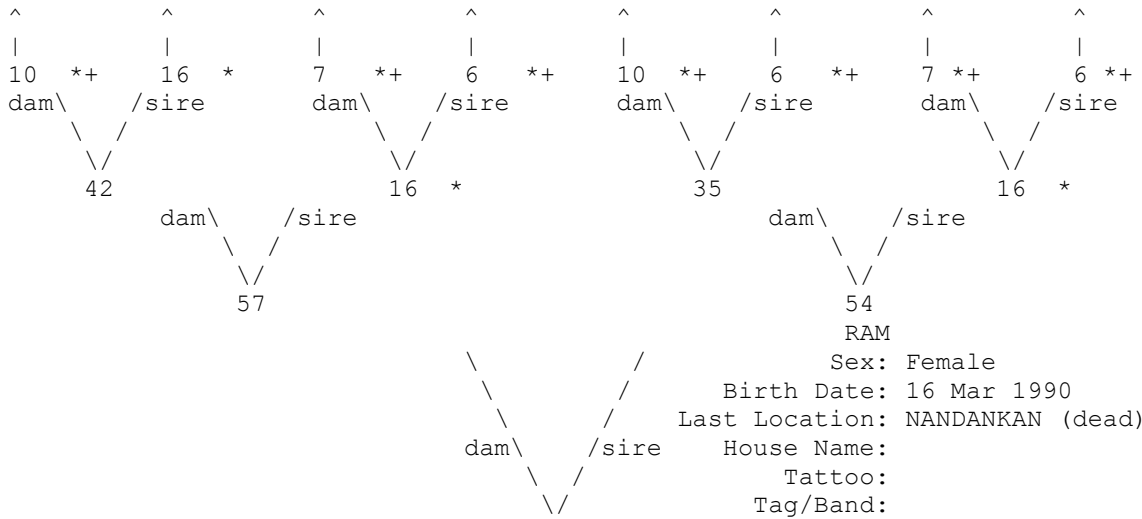


Sex: Female
 Birth Date: 19 Feb 1990
 Last Location: BHILAI (dead)
 House Name: GEETA
 Tattoo:
 Tag/Band:
 ... * Appear more than once...

+ Wild-caught
 ^ Pedigree continues beyond top of page...

Taxon Name: MACACA SILENUS

Studbook Number: 168

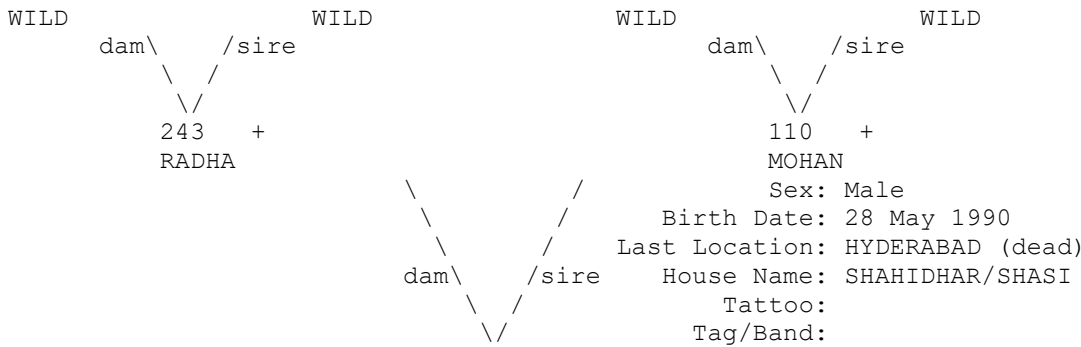


RAM
 Sex: Female
 Birth Date: 16 Mar 1990
 Last Location: NANDANKAN (dead)
 House Name:
 Tattoo:
 Tag/Band:
 * Appear more than once...

+ Wild-caught...
 ^ Pedigree continues beyond top of page...

Taxon Name: MACACA SILENUS

Studbook Number: 170



Sex: Male
 Birth Date: 28 May 1990
 Last Location: HYDERABAD (dead)
 House Name: SHAHIDHAR/SHASI
 Tattoo:
 Tag/Band:

+ Wild-caught...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====

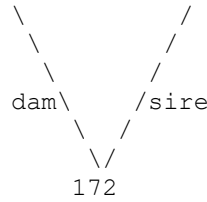
Taxon Name: MACACA SILENUS

=====

Studbook Number: 172

=====

WILD



WILD

Sex: Female
 Birth Date: ~ 1996
 Last Location: TRIVANDRU (dead)
 House Name: PACHI
 Tattoo:
 Tag/Band:

=====

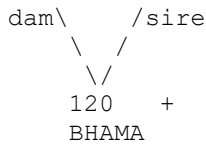
Taxon Name: MACACA SILENUS

=====

Studbook Number: 173

=====

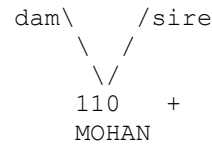
WILD



WILD



WILD



WILD

Sex: Female
 Birth Date: 31 Dec 1991
 Last Location: MADRAS (dead)
 House Name: MALAR
 Tattoo:
 Tag/Band:

+ Wild-caught...

=====

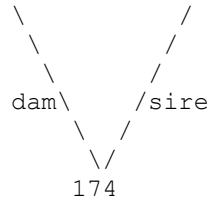
Taxon Name: MACACA SILENUS

=====

Studbook Number: 174

=====

WILD



WILD

Sex: Male
 Birth Date: ~ 1992
 Last Location: MADRAS (dead)
 House Name: SEKAR
 Tattoo:
 Tag/Band:

=====

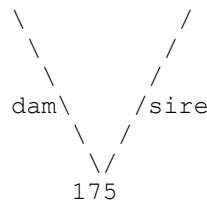
Taxon Name: MACACA SILENUS

=====

Studbook Number: 175

=====

WILD



WILD

Sex: Female
 Birth Date: ~ 1982
 Last Location: MYSORE (dead)
 House Name: PRIYA
 Tattoo:
 Tag/Band:

=====

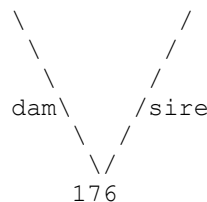
Taxon Name: MACACA SILENUS

=====

Studbook Number: 176

=====

WILD



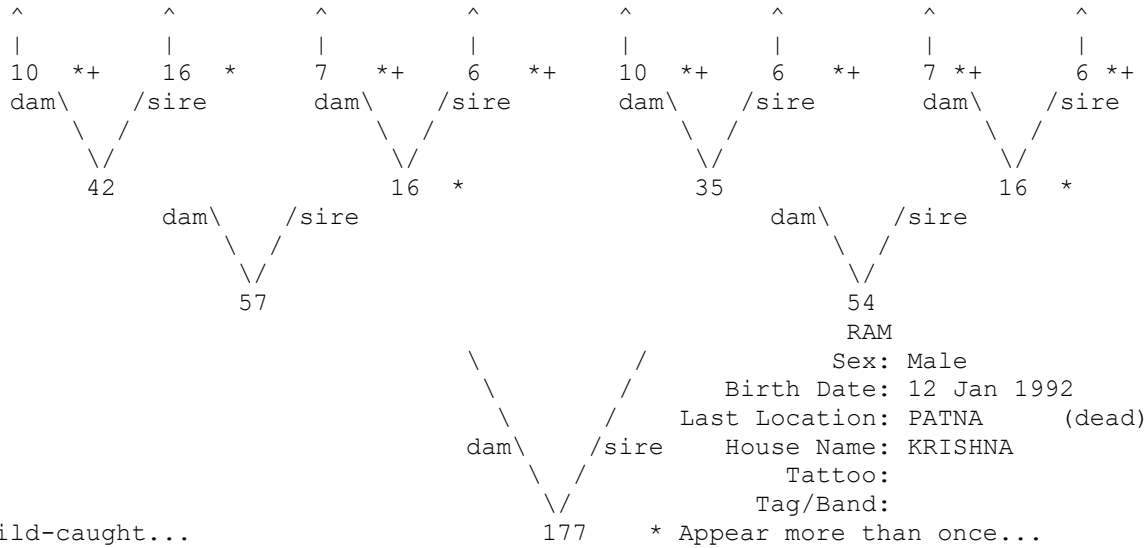
WILD

Sex: Male
 Birth Date: ~ 1990
 Last Location: MYSORE (dead)
 House Name: RAMA
 Tattoo:
 Tag/Band:

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Taxon Name: MACACA SILENUS

Studbook Number: 177

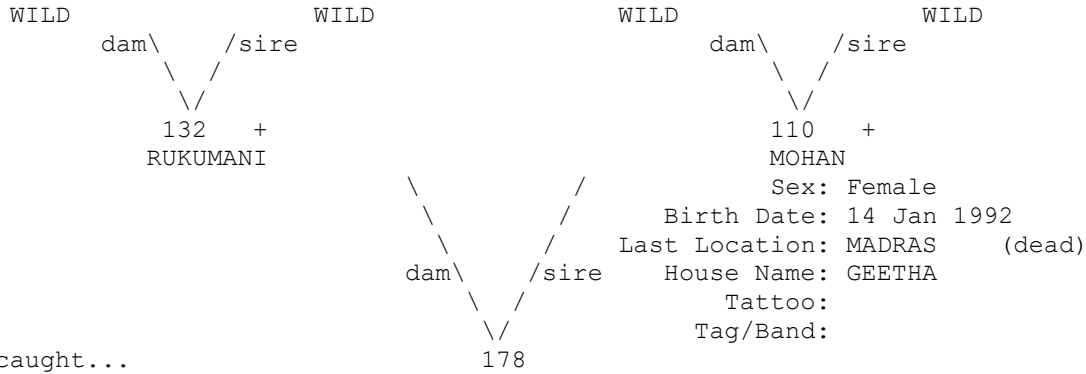


+ Wild-caught...

^ Pedigree continues beyond top of page...

Taxon Name: MACACA SILENUS

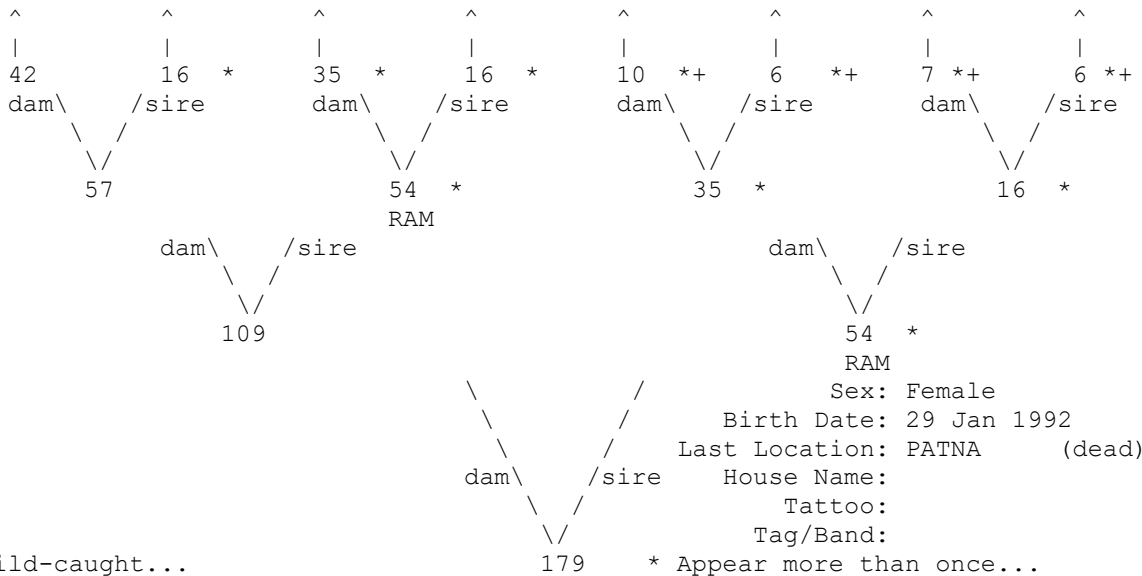
Studbook Number: 178



+ Wild-caught...

Taxon Name: *MACACA SILENUS*

Studbook Number: 179

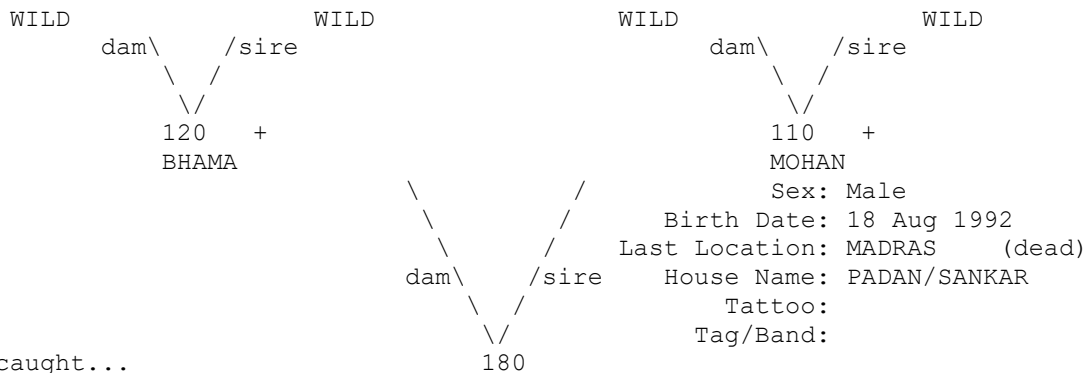


+ Wild-caught...

^ Pedigree continues beyond top of page...

Taxon Name: *MACACA SILENUS*

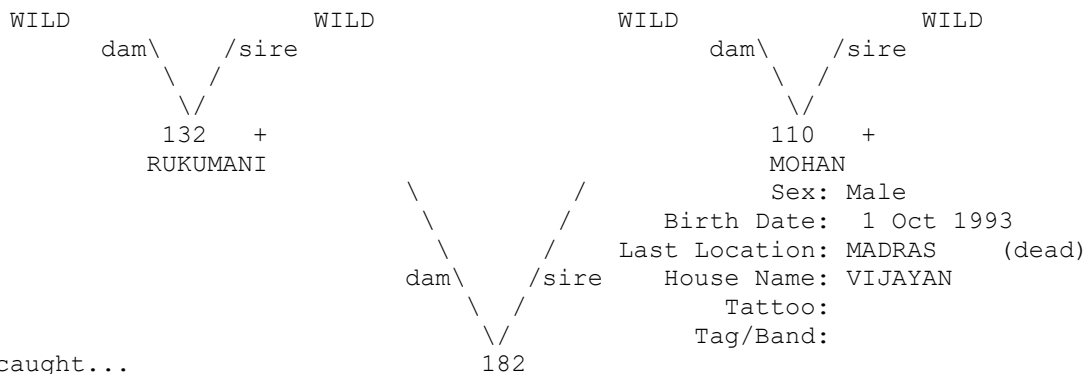
Studbook Number: 180



+ Wild-caught...

Taxon Name: *MACACA SILENUS*

Studbook Number: 182



+ Wild-caught...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 183
 =====

WILD	dam\ \ \ 120 + BHAMA	/sire	WILD	dam\ \ \ 183	/sire	WILD	dam\ \ \ 110 + MOHAN Sex: Male Birth Date: 21 Dec 1993 Last Location: GUINDY House Name: UMAR Tattoo: Tag/Band:	WILD
------	----------------------------------	-------	------	-----------------------	-------	------	---	------

+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 184
 =====

WILD	dam\ \ \ 184	/sire	WILD	Sex: Female Birth Date: ~ 1990 Last Location: MYSORE (dead) House Name: SHANTHI Tattoo: Tag/Band:
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=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 185
 =====

WILD	dam\ \ \ 185	/sire	WILD	Sex: Female Birth Date: ~ 1994 Last Location: PARASSINI House Name: Rani Tattoo: Tag/Band:
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=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 186
 =====

WILD	dam\ \ \ 132 + RUKUMANI	/sire	WILD	dam\ \ \ 186	/sire	WILD	dam\ \ \ 110 + MOHAN Sex: Male Birth Date: 4 Jan 1995 Last Location: TRIVANDRU House Name: SEENU Tattoo: Tag/Band:	WILD
------	-------------------------------------	-------	------	-----------------------	-------	------	--	------

+ Wild-caught...

=====

Taxon Name: MACACA SILENUS

=====

Studbook Number: 187

=====

WILD	dam\ \ \ 120 + BHAMA	WILD	/sire / / 187	WILD	dam\ \ \ 110 + MOHAN	WILD	/sire / / Sex: Female Birth Date: 14 Jun 1995 Last Location: MADRAS House Name: AAZP13 Tattoo: Tag/Band:
------	----------------------------------	------	------------------------	------	----------------------------------	------	--

+ Wild-caught...

=====

Taxon Name: MACACA SILENUS

=====

Studbook Number: 188

=====

WILD	dam\ \ \ 132 + RUKUMANI	WILD	/sire / / 188	WILD	dam\ \ \ 110 + MOHAN	WILD	/sire / / Sex: Female Birth Date: 13 Jul 1996 Last Location: MADRAS (dead) House Name: AAZP29 Tattoo: Tag/Band:
------	-------------------------------------	------	------------------------	------	----------------------------------	------	---

+ Wild-caught...

=====

Taxon Name: MACACA SILENUS

=====

Studbook Number: 189

=====

WILD	dam\ \ \ 120 + BHAMA	WILD	/sire / / 189	WILD	dam\ \ \ 110 + MOHAN	WILD	/sire / / Sex: Male Birth Date: 17 Sep 1996 Last Location: MYSORE (dead) House Name: LINGAN Tattoo: Tag/Band:
------	----------------------------------	------	------------------------	------	----------------------------------	------	---

+ Wild-caught...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

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Taxon Name: MACACA SILENUS

=====

Studbook Number: 190

=====

WILD	dam\ \ \ 120 + BHAMA	WILD	WILD	dam\ \ \ 110 + MOHAN	WILD
				Sex: Female Birth Date: 27 May 1998 Last Location: MADRAS House Name: AAZP-17 Tattoo: Tag/Band:	
		dam\ \ \ 190	WILD		

+ Wild-caught...

=====

Taxon Name: MACACA SILENUS

=====

Studbook Number: 191

=====

WILD	dam\ \ \ 191	WILD	WILD	dam\ \ \ 110 + MOHAN	WILD
				Sex: Female Birth Date: ~ 1997 Last Location: MADRAS House Name: APSARA Tattoo: Tag/Band:	

=====

Taxon Name: MACACA SILENUS

=====

Studbook Number: 192

=====

WILD	dam\ \ \ 120 + BHAMA	WILD	WILD	dam\ \ \ 110 + MOHAN	WILD
				Sex: Male Birth Date: 26 Oct 1999 Last Location: MADRAS (dead) House Name: MANI Tattoo: Tag/Band:	
		dam\ \ \ 192	WILD		

+ Wild-caught...

=====

Taxon Name: MACACA SILENUS

=====

Studbook Number: 193

=====

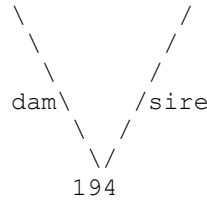
WILD	dam\ \ \ 193	WILD	WILD	dam\ \ \ 110 + MOHAN	WILD
				Sex: Female Birth Date: ???? Last Location: CHATBIR Z House Name: Tattoo: Tag/Band:	

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 194
 =====

WILD



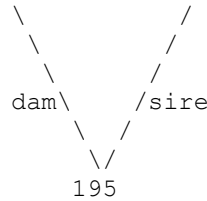
WILD

Sex: Male
 Birth Date: ????
 Last Location: CALCUTTA (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 195
 =====

WILD



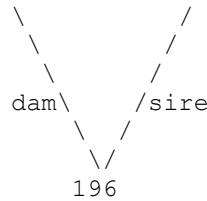
WILD

Sex: Female
 Birth Date: ????
 Last Location: CALCUTTA (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 196
 =====

WILD

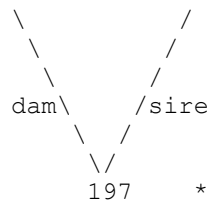
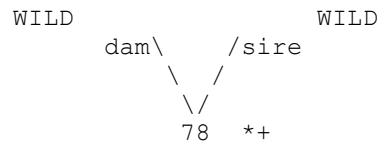
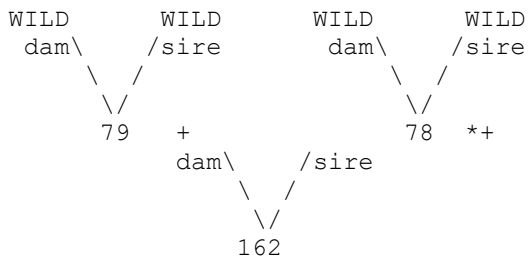


WILD

Sex: Male
 Birth Date: ~ 1980
 Last Location: VOC PKZOO
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 197
 =====



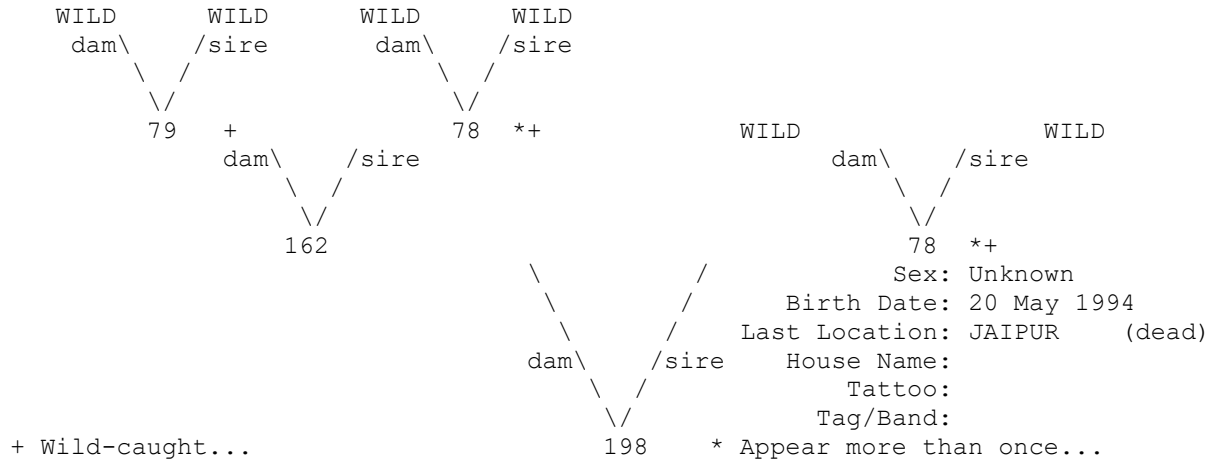
Sex: Female
 Birth Date: 11 Dec 1993
 Last Location: JAIPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

* Appear more than once...

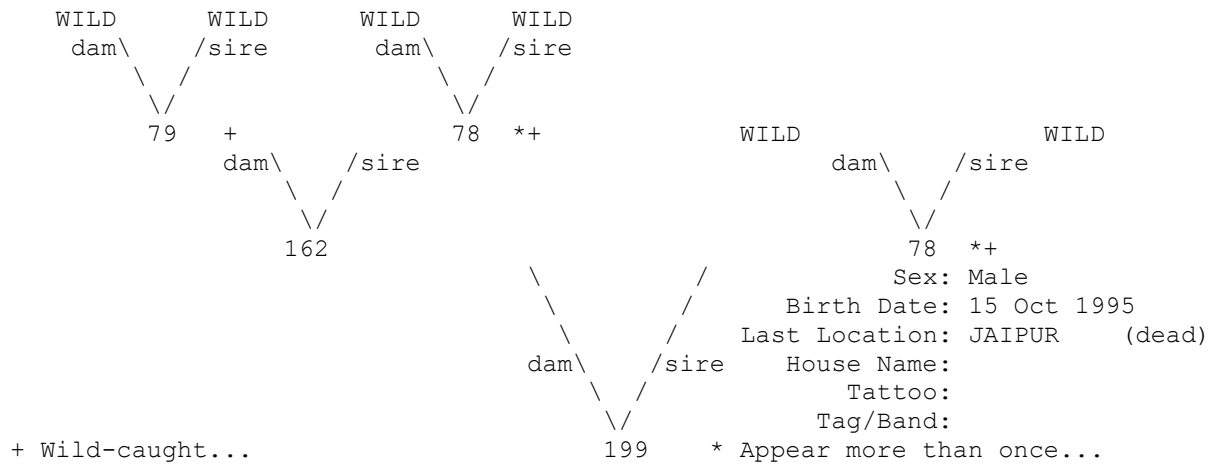
Taxon Name: MACACA SILENUS

Studbook Number: 198



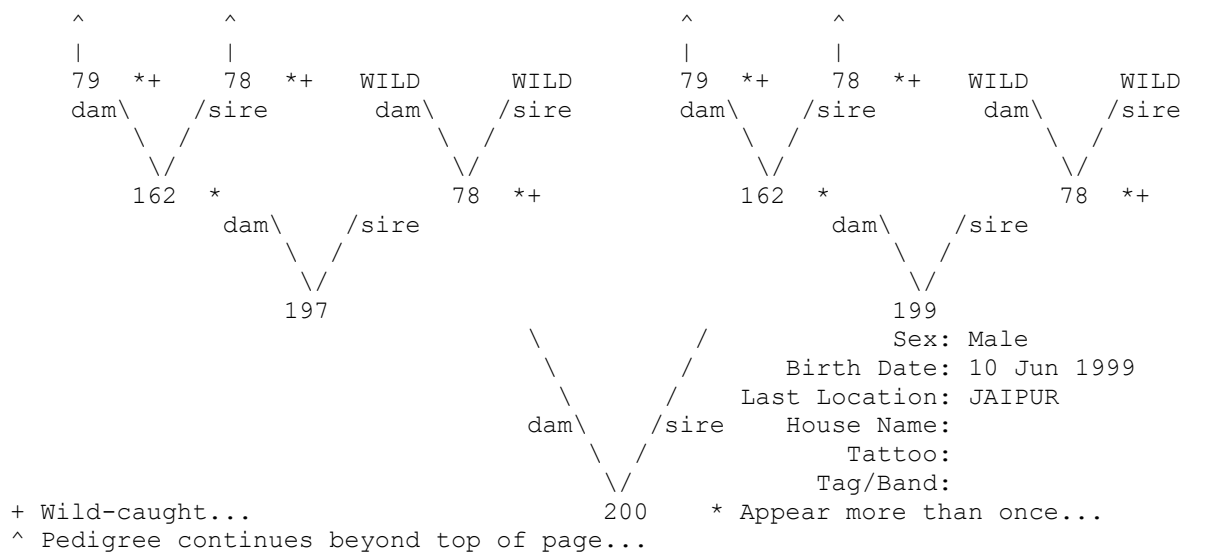
Taxon Name: MACACA SILENUS

Studbook Number: 199



Taxon Name: MACACA SILENUS

Studbook Number: 200



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

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 Taxon Name: MACACA SILENUS
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=====
 Studbook Number: 201
 =====

WILD

WILD



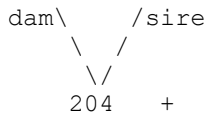
Sex: Female
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 203
 =====

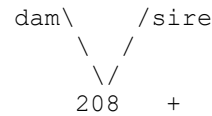
WILD

WILD



WILD

WILD



Sex: Female
 Birth Date: 30 Apr 1974
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 204
 =====

WILD

WILD



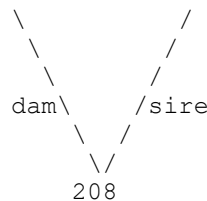
Sex: Female
 Birth Date: ~ 1967
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 208
 =====

WILD

WILD



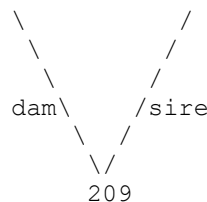
Sex: Male
 Birth Date: ~ 1955
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 209
 =====

MULT *

MULT *



Sex: Unknown
 Birth Date: 11 Oct 1963
 Last Location: DELHI (dead)
 House Name:
 Tattoo:
 Tag/Band:

* Appear more than once...

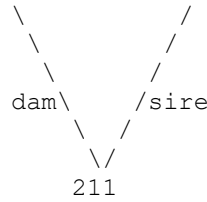
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 211
 =====

WILD

WILD



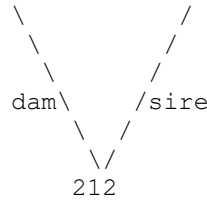
Sex: Female
 Birth Date: ~ 1977
 Last Location: KANPUR (dead)
 House Name: SEETA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 212
 =====

WILD

WILD



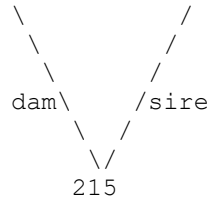
Sex: Male
 Birth Date: ~ 1977
 Last Location: JAIPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 215
 =====

WILD

WILD



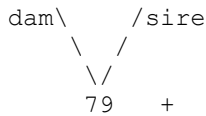
Sex: Male
 Birth Date: ~ 1984
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 216
 =====

WILD

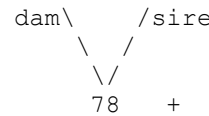
WILD



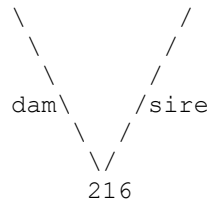
+

WILD

WILD



+



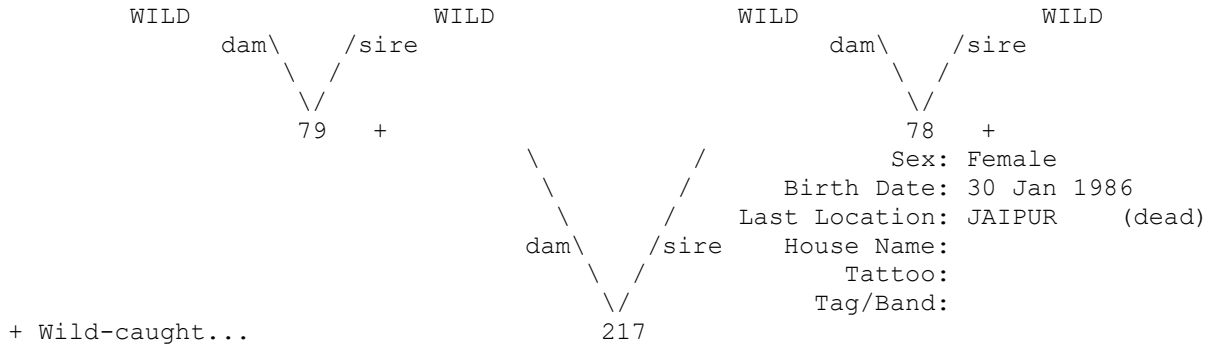
Sex: Female
 Birth Date: 5 Jun 1984
 Last Location: JAIPUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

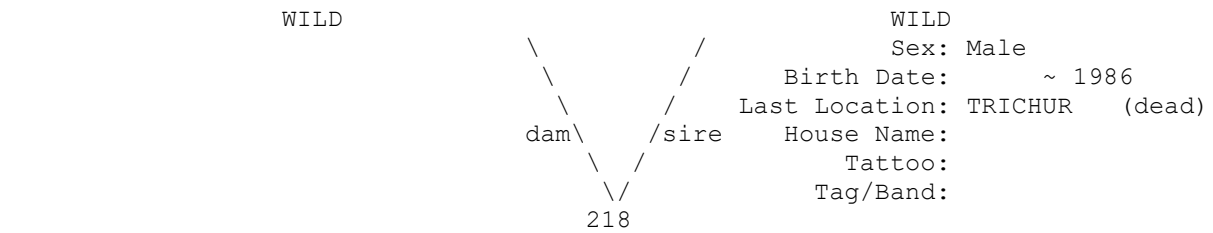
=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 217
 =====



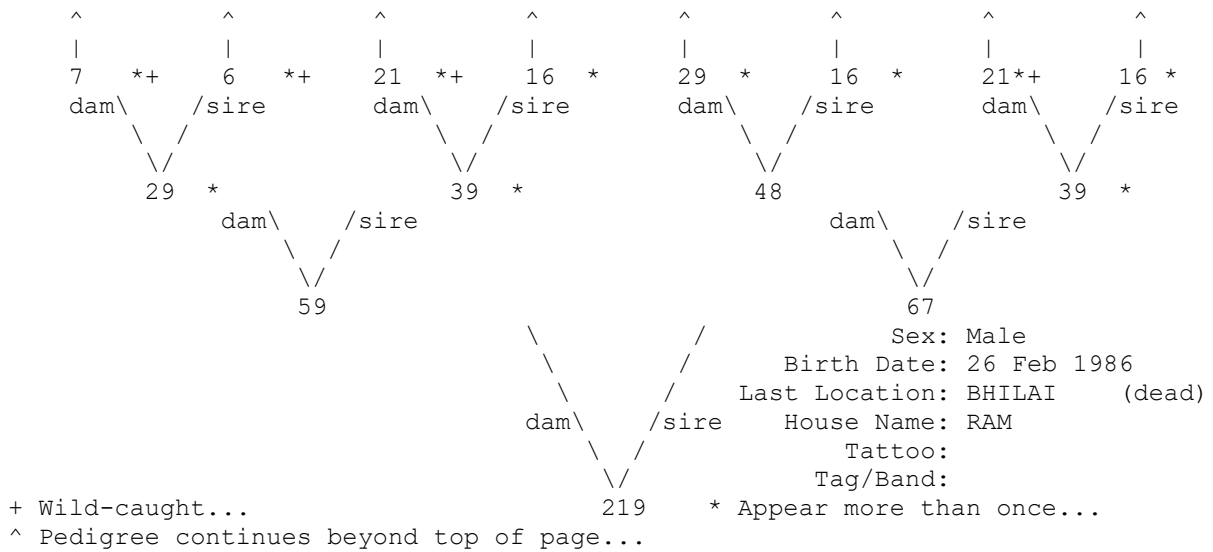
=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 218
 =====



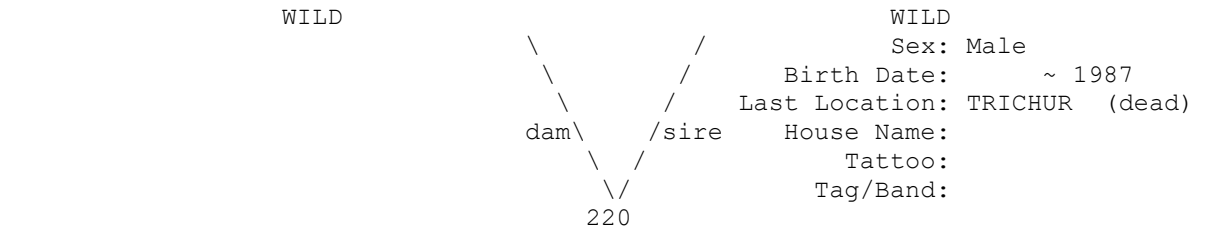
=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 219
 =====



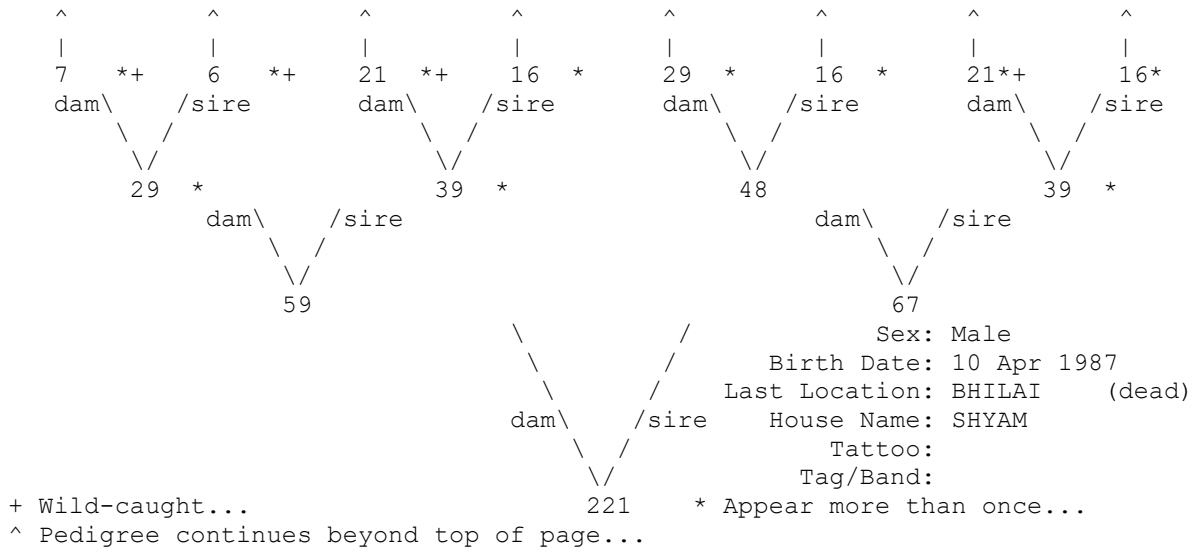
=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 220
 =====



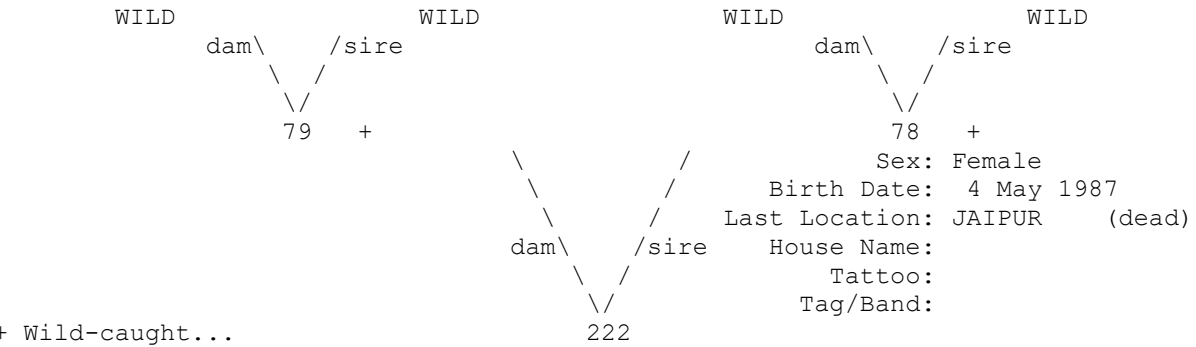
=====
 Taxon Name: MACACA SILENUS

Studbook Number: 221
 =====



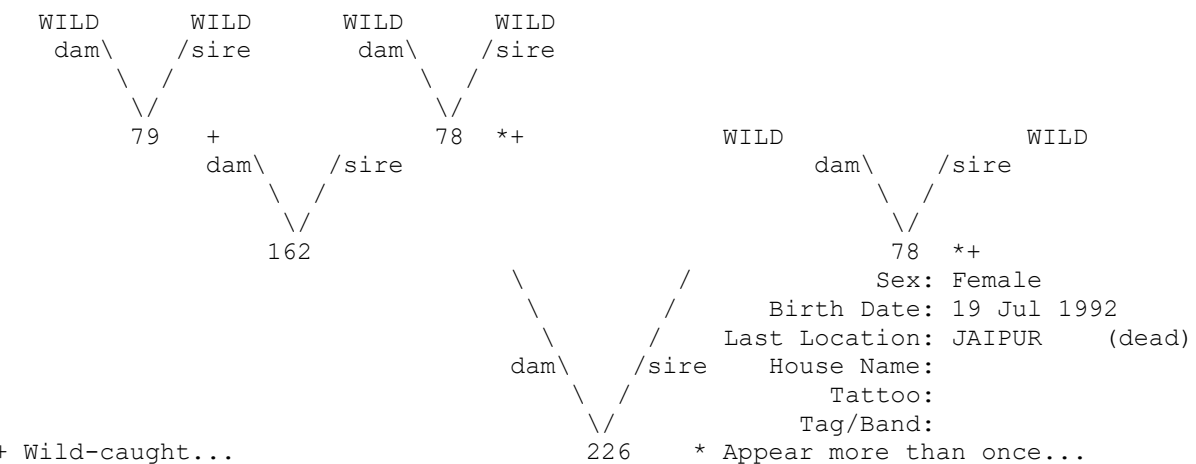
=====
 Taxon Name: MACACA SILENUS

Studbook Number: 222
 =====



=====
 Taxon Name: MACACA SILENUS

Studbook Number: 226
 =====

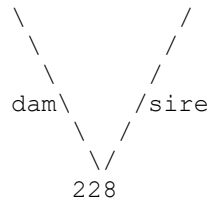


NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 228
 =====

UNK



UNK

Sex: Male
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 229
 =====

UNK



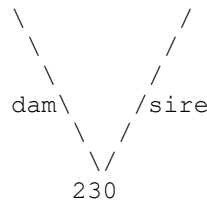
UNK

Sex: Male
 Birth Date: ????
 Last Location: TRIVANDRU
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 230
 =====

UNK



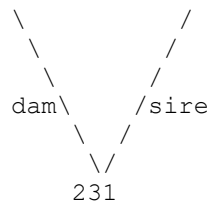
UNK

Sex: Female
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 231
 =====

UNK



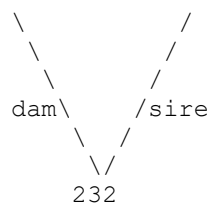
UNK

Sex: Female
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 232
 =====

UNK



UNK

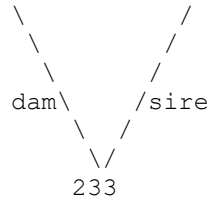
Sex: Female
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 233
 =====

UNK



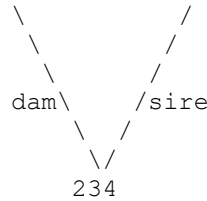
UNK

Sex: Female
 Birth Date: ????
 Last Location: TRICHUR
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 234
 =====

WILD



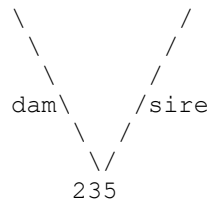
WILD

Sex: Female
 Birth Date: ~ 1970
 Last Location: VEERMATA (dead)
 House Name: REENA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 235
 =====

UNK



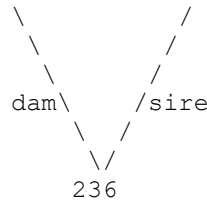
UNK

Sex: Male
 Birth Date: ????
 Last Location: TRICHUR
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 236
 =====

UNK



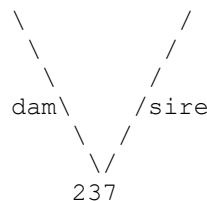
UNK

Sex: Male
 Birth Date: ????
 Last Location: TRICHUR
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 237
 =====

UNK



UNK

Sex: Female
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

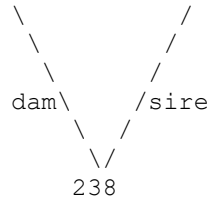
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 238
 =====

WILD

WILD



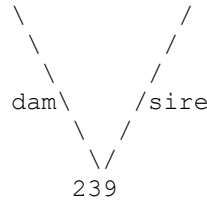
Sex: Female
 Birth Date: ~ 1974
 Last Location: VEERMATA (dead)
 House Name: MEENA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 239
 =====

WILD

WILD



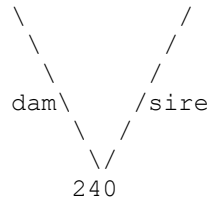
Sex: Male
 Birth Date: ~ 1975
 Last Location: VEERMATA (dead)
 House Name: JANI
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 240
 =====

UNK

UNK



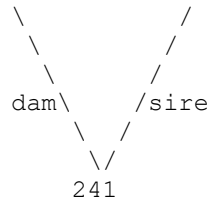
Sex: Female
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 241
 =====

UNK

UNK



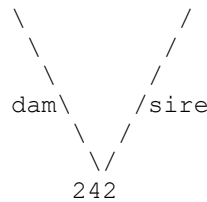
Sex: Male
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 242
 =====

UNK

UNK



Sex: Male
 Birth Date: ????
 Last Location: TRICHUR (dead)
 House Name:
 Tattoo:
 Tag/Band:

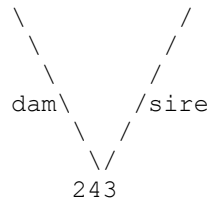
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 243
 =====

WILD

WILD



Sex: Female
 Birth Date: ~ 1985
 Last Location: MADRAS (dead)
 House Name: RADHA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 244
 =====

UNK

UNK



Sex: Male
 Birth Date: 31 Mar 1986
 Last Location: TRIVANDRU (dead)
 House Name: RAVI
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

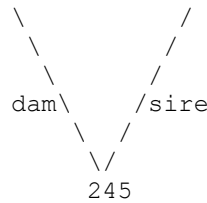
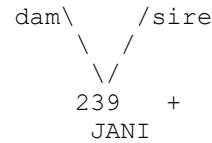
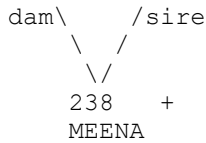
Studbook Number: 245
 =====

WILD

WILD

WILD

WILD



Sex: Male
 Birth Date: 13 Jul 1981
 Last Location: VEERMATA (dead)
 House Name: RAMU
 Tattoo:
 Tag/Band:

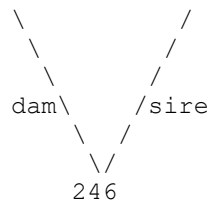
+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 246
 =====

WILD

WILD



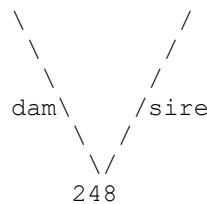
Sex: Male
 Birth Date: ~ 1991
 Last Location: MADRAS (dead)
 House Name: KAMRAJ
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 248
 =====

WILD

WILD



Sex: Male
 Birth Date: ~ 1991
 Last Location: MYSORE (dead)
 House Name: KRISHNA
 Tattoo:
 Tag/Band:

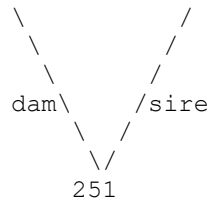
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 251
 =====

WILD

WILD



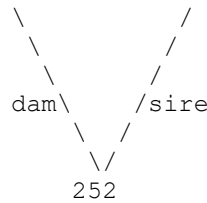
Sex: Female
 Birth Date: ~ 1993
 Last Location: PATNA (dead)
 House Name: BASANTI
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 252
 =====

WILD

WILD



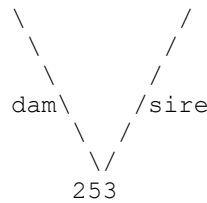
Sex: Male
 Birth Date: ~ 1997
 Last Location: MADRAS (dead)
 House Name: MANI/ragav
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 253
 =====

WILD

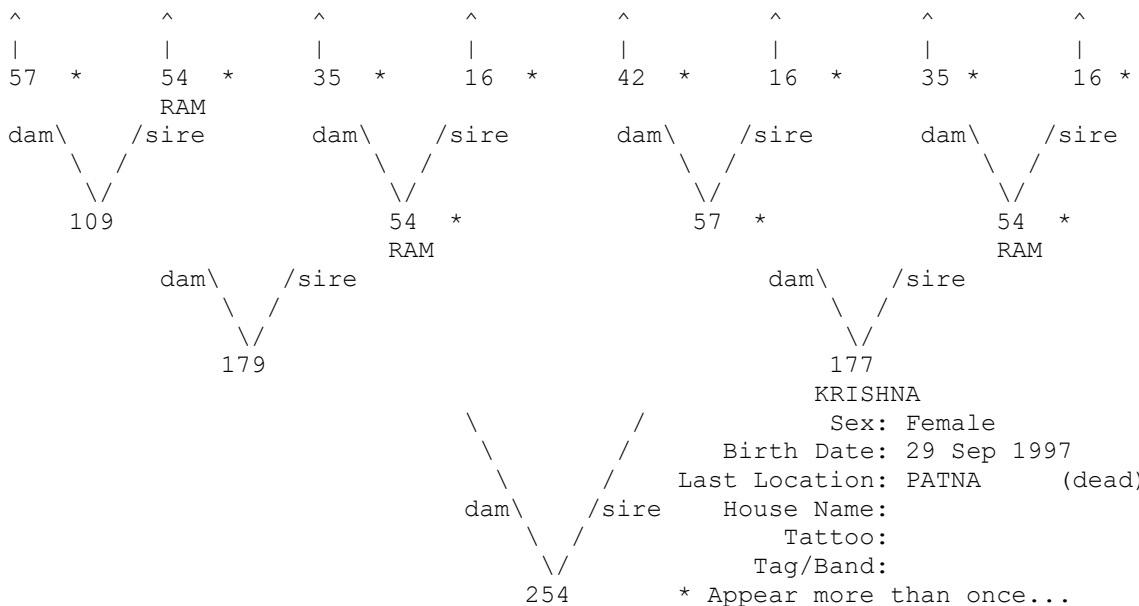
WILD



Sex: Female
 Birth Date: 10 Jan 1991
 Last Location: MYSORE (dead)
 House Name: GEETHA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 254
 =====



Sex: Female
 Birth Date: 29 Sep 1997
 Last Location: PATNA (dead)
 House Name:
 Tattoo:
 Tag/Band:
 * Appear more than once...

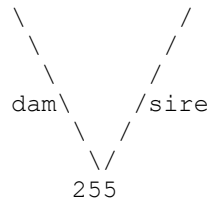
^ Pedigree continues beyond top of page...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 255
 =====

WILD



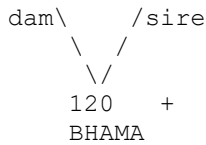
WILD

Sex: Female
 Birth Date: ~ Sep 1992
 Last Location: PATNA (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

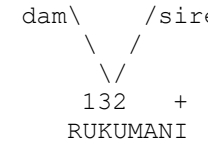
=====
 Studbook Number: 256
 =====

WILD



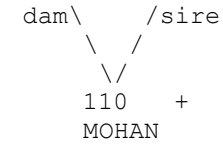
WILD

WILD



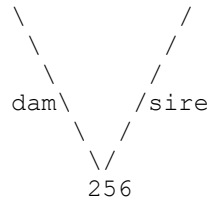
WILD

WILD



dam\ /sire

182
 VIJAYAN



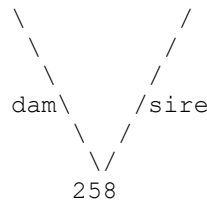
Sex: Male
 Birth Date: 15 Jun 2000
 Last Location: MADRAS (dead)
 House Name: VENKET
 Tattoo:
 Tag/Band:

+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 258
 =====

WILD



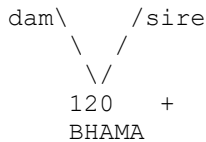
WILD

Sex: Female
 Birth Date: ????
 Last Location: PARASSINI (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

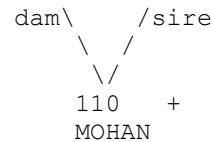
=====
 Studbook Number: 259
 =====

WILD



WILD

WILD



WILD



Sex: Female
 Birth Date: 14 Apr 2001
 Last Location: MADRAS (dead)
 House Name: VIJI
 Tattoo:
 Tag/Band:

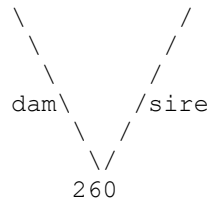
+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 260
 =====

WILD

WILD



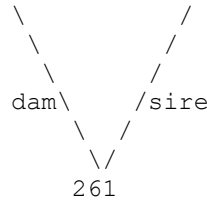
Sex: Female
 Birth Date: ~ 2001
 Last Location: MADRAS (dead)
 House Name: RAMYA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 261
 =====

WILD

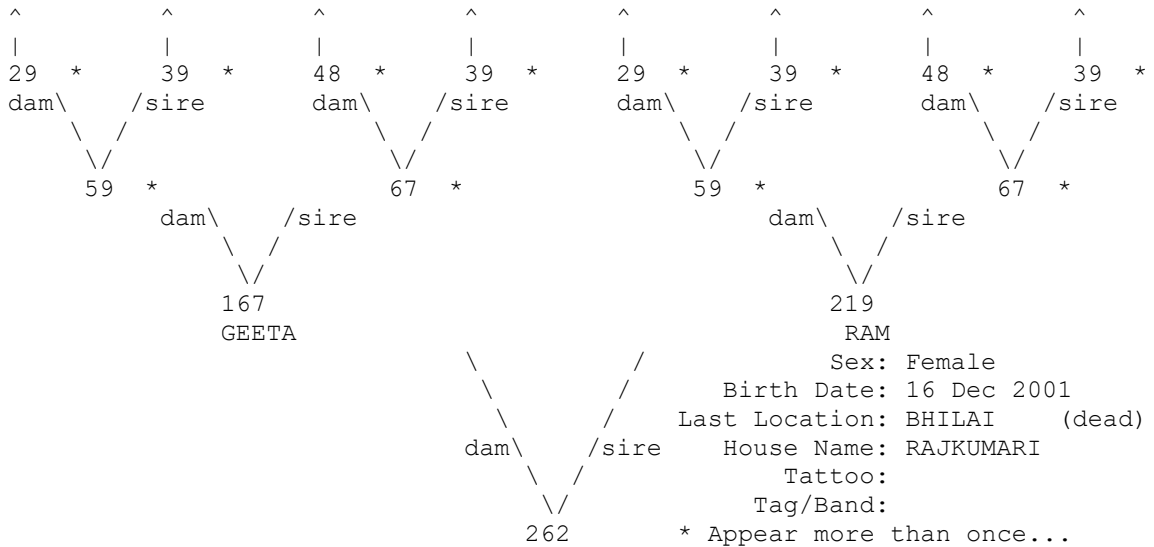
WILD



Sex: Female
 Birth Date: ~ 2001
 Last Location: MYSORE
 House Name: ANKITHA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 262
 =====



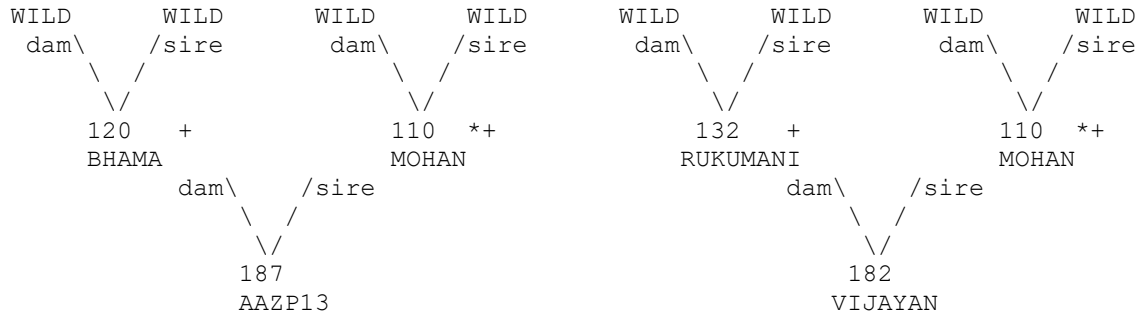
Sex: Female
 Birth Date: 16 Dec 2001
 Last Location: BHILAI (dead)
 House Name: RAJKUMARI
 Tattoo:
 Tag/Band:
 * Appear more than once...

^ Pedigree continues beyond top of page...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 263
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     dam\  /sire
        \  /
         263
    
```

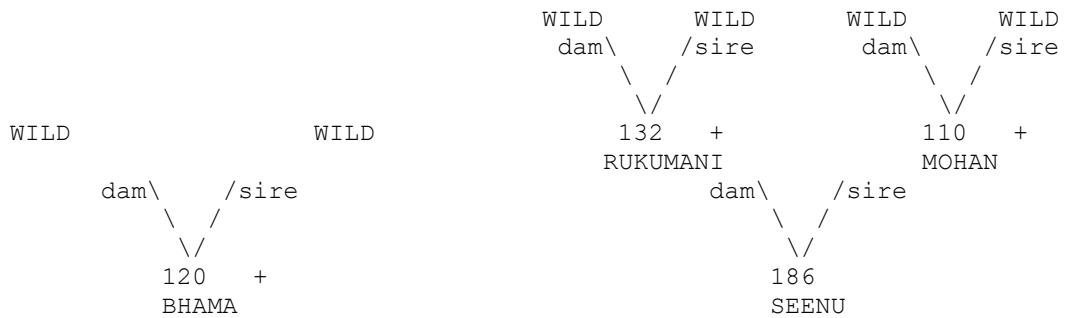
Sex: Male
 Birth Date: 17 Jan 2002
 Last Location: DELHI
 House Name: DASS
 Tattoo:
 Tag/Band:

+ Wild-caught...

* Appear more than once...

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 264
 =====



```

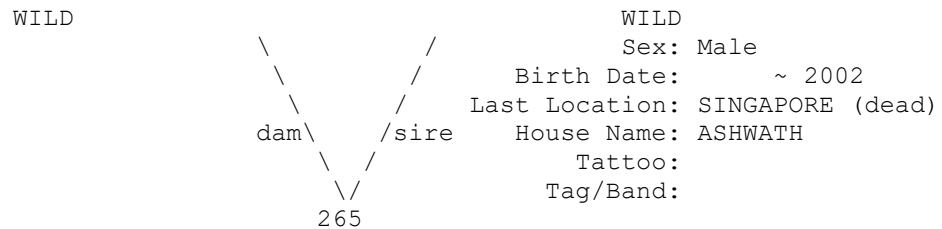
    \      /
     dam\  /sire
        \  /
         264
    
```

Sex: Unknown
 Birth Date: 10 Jul 2002
 Last Location: MADRAS (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 265
 =====



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

Taxon Name: MACACA SILENUS

Studbook Number: 266

WILD



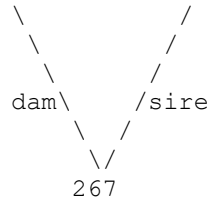
WILD

Sex: Male
 Birth Date: ????
 Last Location: TRIVANDRU
 House Name: RAJESH
 Tattoo:
 Tag/Band:

Taxon Name: MACACA SILENUS

Studbook Number: 267

WILD



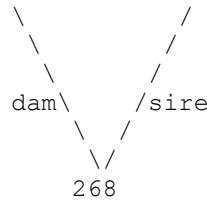
WILD

Sex: Male
 Birth Date: ????
 Last Location: TRIVANDRU
 House Name: KIRAN
 Tattoo:
 Tag/Band:

Taxon Name: MACACA SILENUS

Studbook Number: 268

WILD



WILD

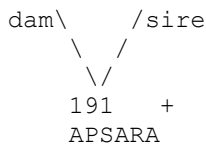
Sex: Female
 Birth Date: ~ 1995
 Last Location: DELHI (dead)
 House Name: RANI
 Tattoo:
 Tag/Band:

Taxon Name: MACACA SILENUS

Studbook Number: 269

WILD

WILD

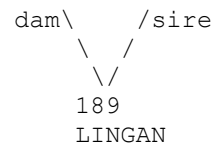
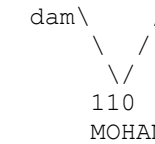
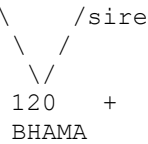


WILD

WILD

WILD

WILD



Sex: Male
 Birth Date: 9 Jan 2003
 Last Location: MADRAS (dead)
 House Name:
 Tattoo:
 Tag/Band:

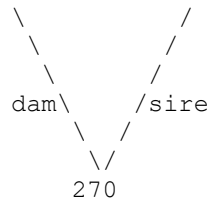
+ Wild-caught...

Taxon Name: *MACACA SILENUS*

Studbook Number: 270

WILD

WILD



Sex: Male
 Birth Date: ????
 Last Location: TRIVANDRU
 House Name: RAMAN
 Tattoo:
 Tag/Band:

Taxon Name: *MACACA SILENUS*

Studbook Number: 271

WILD
dam\
120
BHAMA

WILD
/sire

WILD
dam\
110
MOHAN

WILD
/sire

WILD
dam\
132
RUKUMANI

WILD
/sire

WILD
dam\
110
MOHAN

WILD
/sire

120 +
BHAMA

+

110 *+
MOHAN

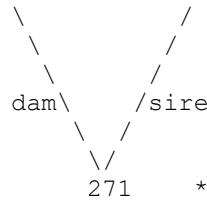
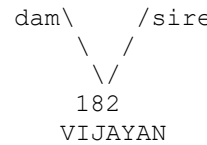
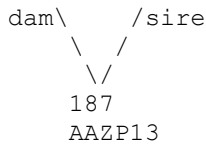
*+

132 +
RUKUMANI

+

110 *+
MOHAN

*+



Sex: Male
 Birth Date: 23 Jul 2003
 Last Location: MADRAS (dead)
 House Name: MURUGAN
 Tattoo:
 Tag/Band:

+ Wild-caught...

* Appear more than once...

Taxon Name: *MACACA SILENUS*

Studbook Number: 272

WILD

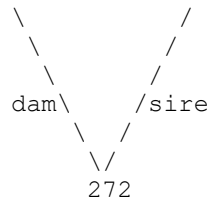
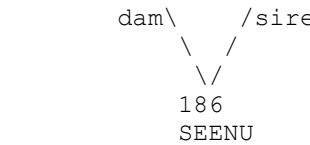
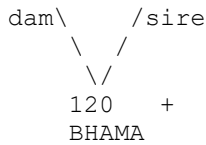
WILD

WILD
dam\
132
RUKUMANI

WILD
/sire

WILD
dam\
110
MOHAN

WILD
/sire

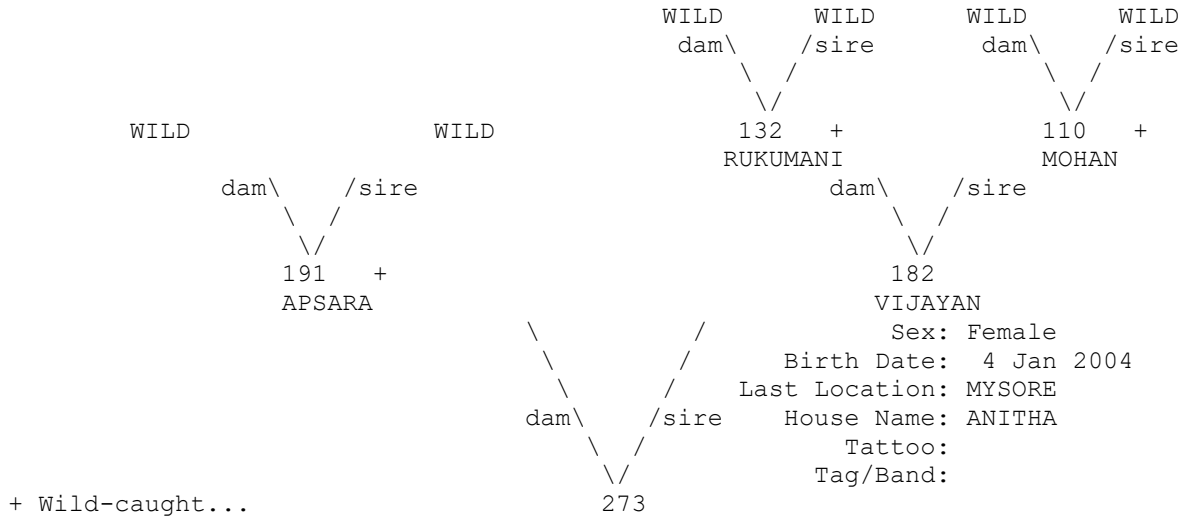


Sex: Female
 Birth Date: 25 Nov 2003
 Last Location: DELHI
 House Name: BANU
 Tattoo:
 Tag/Band:

+ Wild-caught...

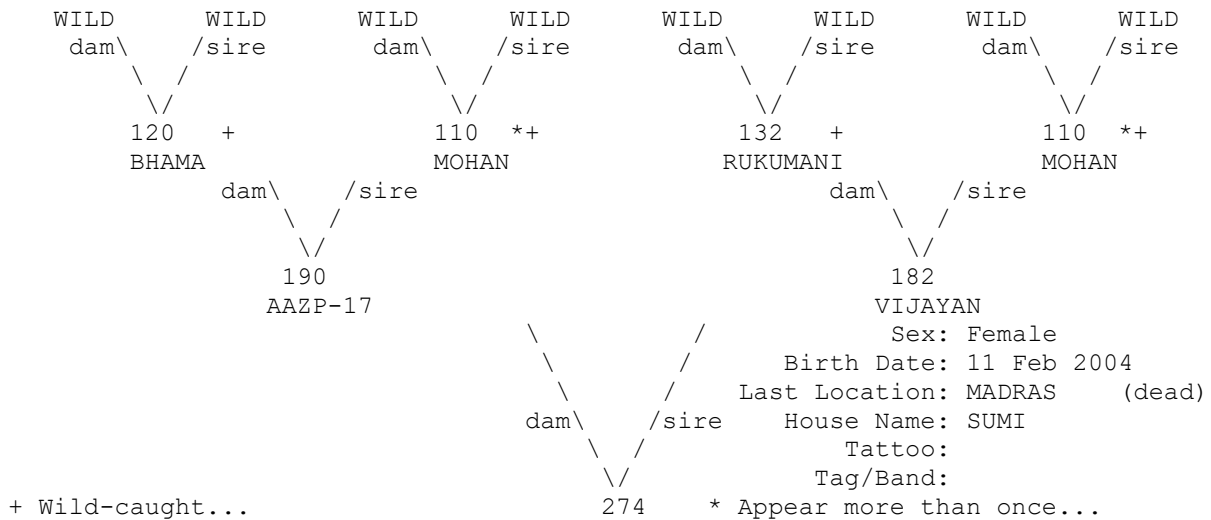
=====
 Taxon Name: MACACA SILENUS

Studbook Number: 273
 =====



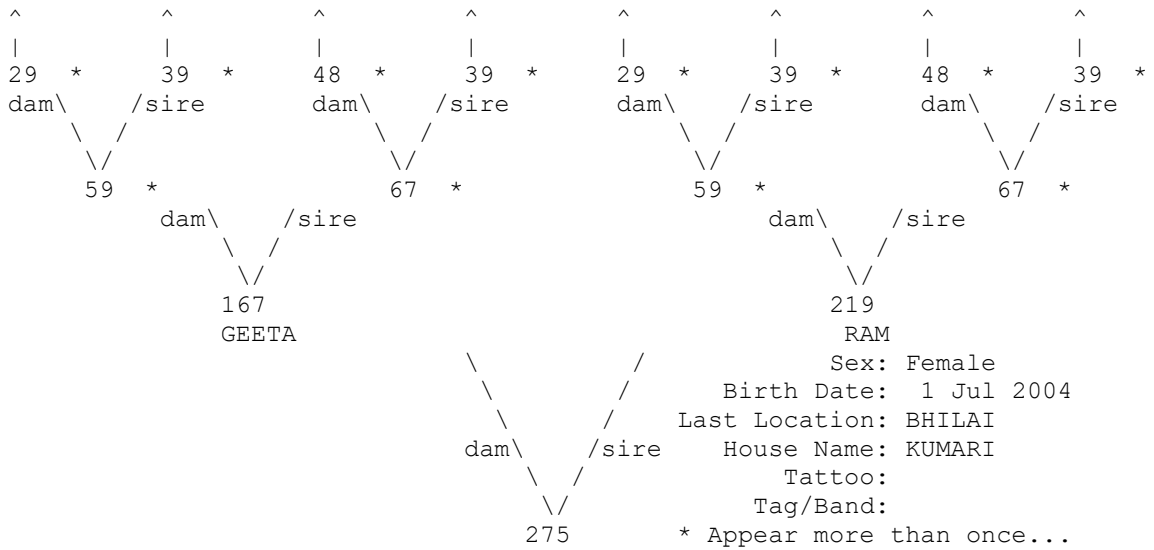
=====
 Taxon Name: MACACA SILENUS

Studbook Number: 274
 =====



Taxon Name: MACACA SILENUS

Studbook Number: 275



Sex: Female
 Birth Date: 1 Jul 2004
 Last Location: BHILAI
 House Name: KUMARI
 Tattoo:
 Tag/Band:
 * Appear more than once...

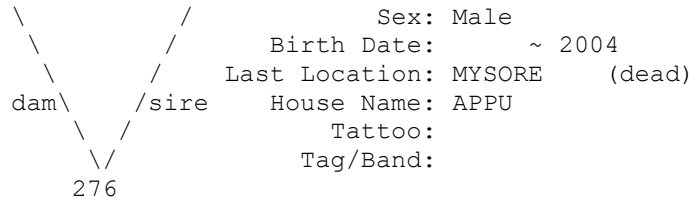
^ Pedigree continues beyond top of page...

Taxon Name: MACACA SILENUS

Studbook Number: 276

WILD

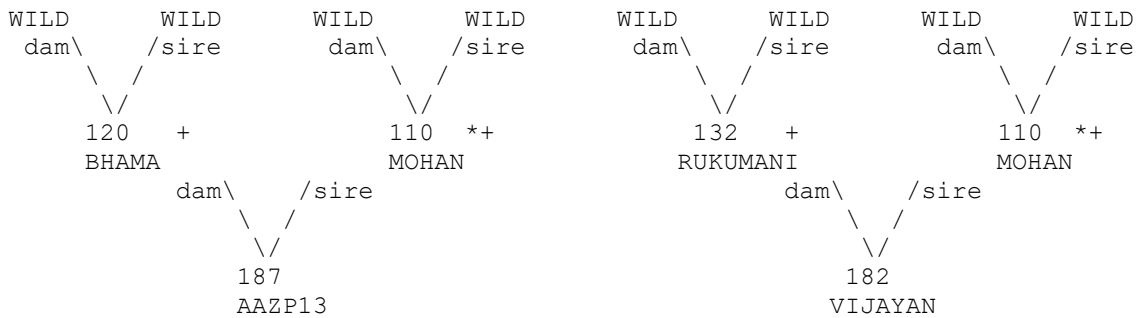
WILD



Sex: Male
 Birth Date: ~ 2004
 Last Location: MYSORE (dead)
 House Name: APPU
 Tattoo:
 Tag/Band:

Taxon Name: MACACA SILENUS

Studbook Number: 277

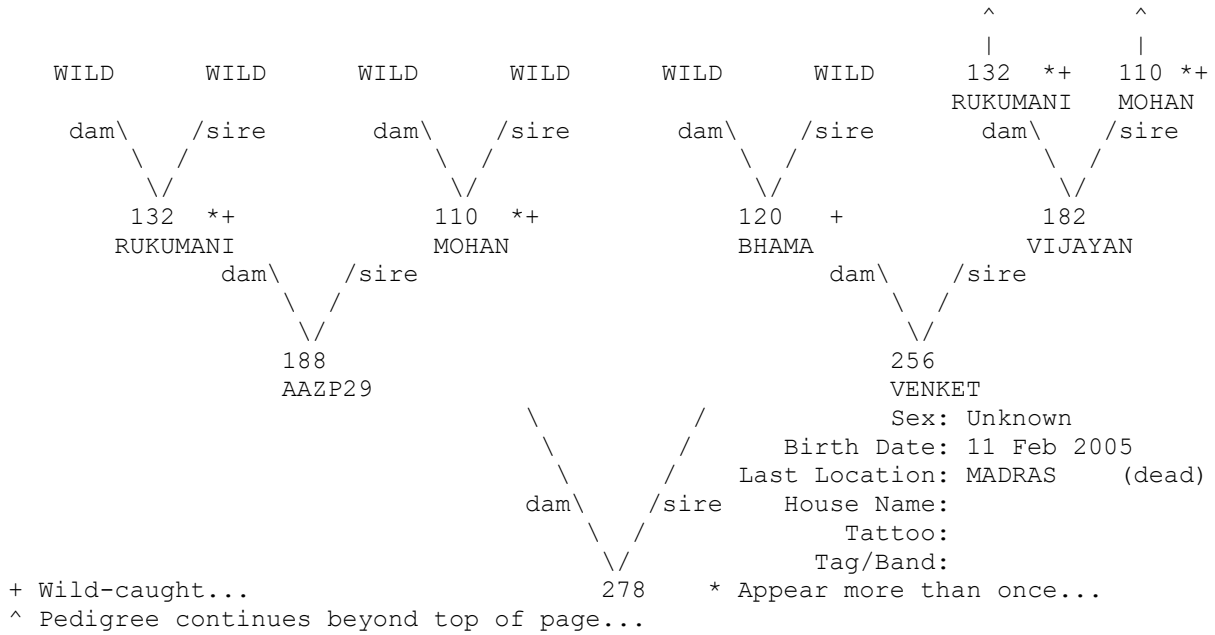


Sex: Female
 Birth Date: 16 Aug 2004
 Last Location: LUCKNOW
 House Name: SINDHU
 Tattoo:
 Tag/Band:
 * Appear more than once...

+ Wild-caught...

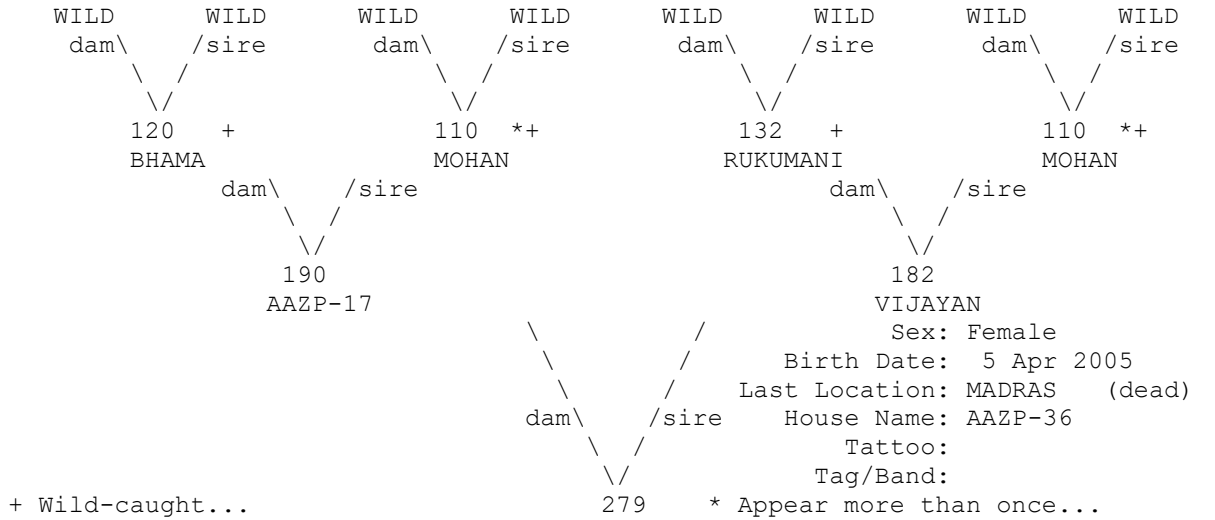
Taxon Name: MACACA SILENUS

Studbook Number: 278



Taxon Name: MACACA SILENUS

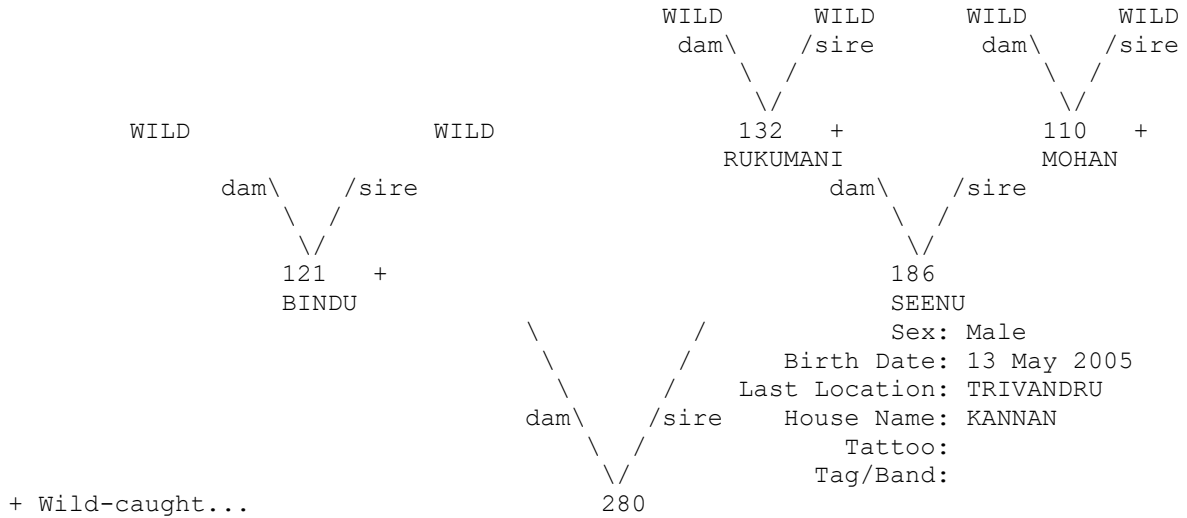
Studbook Number: 279



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

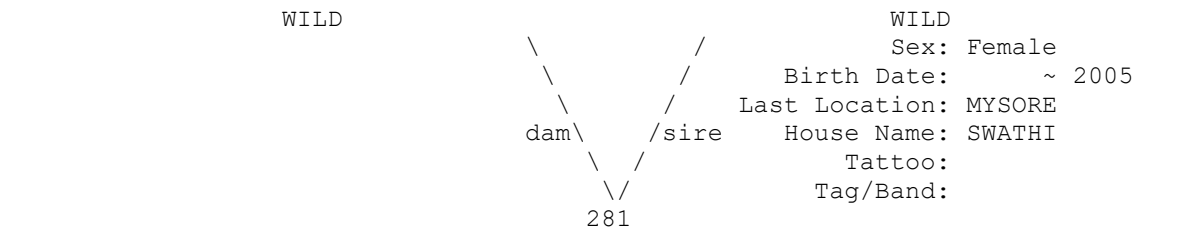
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 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 280



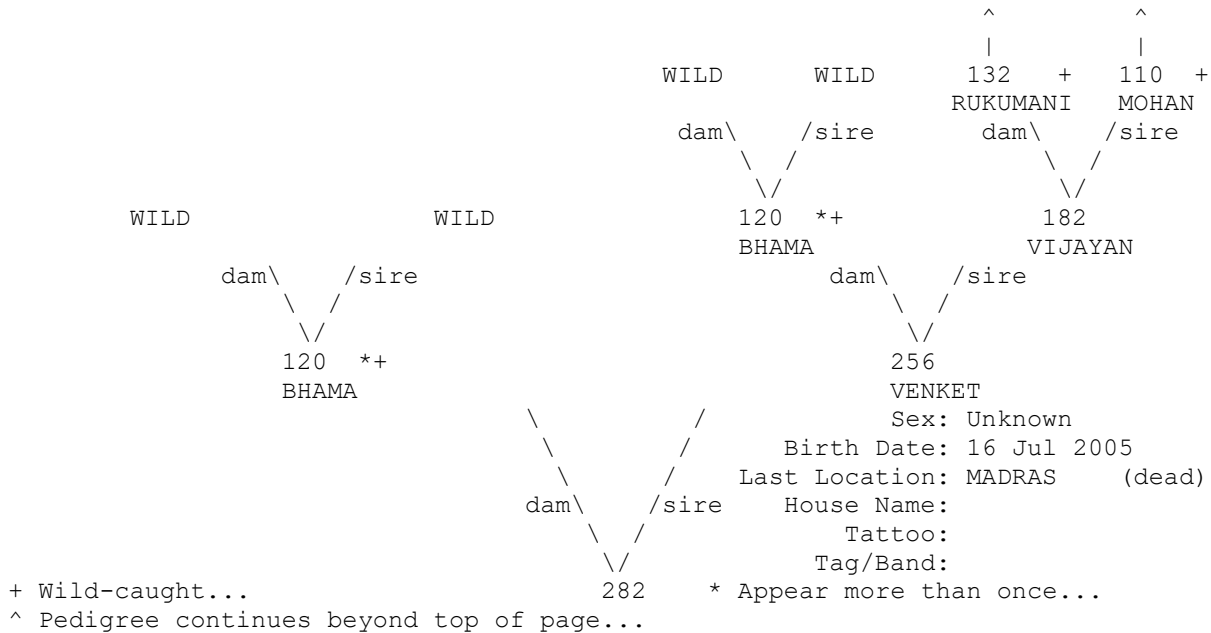
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 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 281



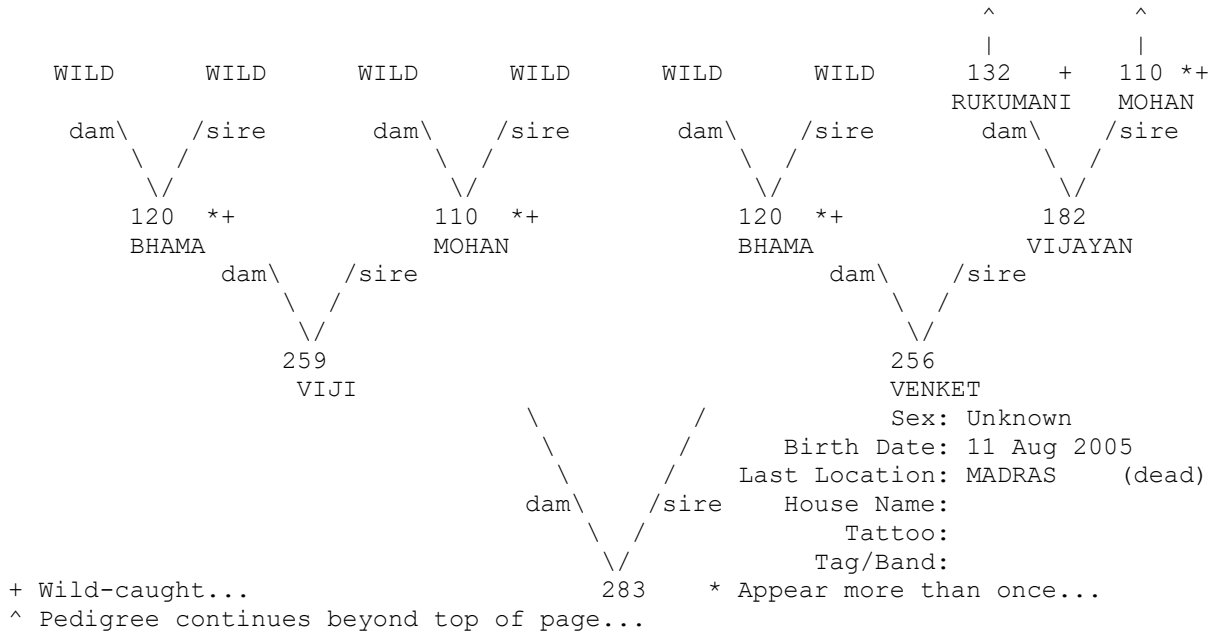
=====
 Taxon Name: MACACA SILENUS

=====
 Studbook Number: 282



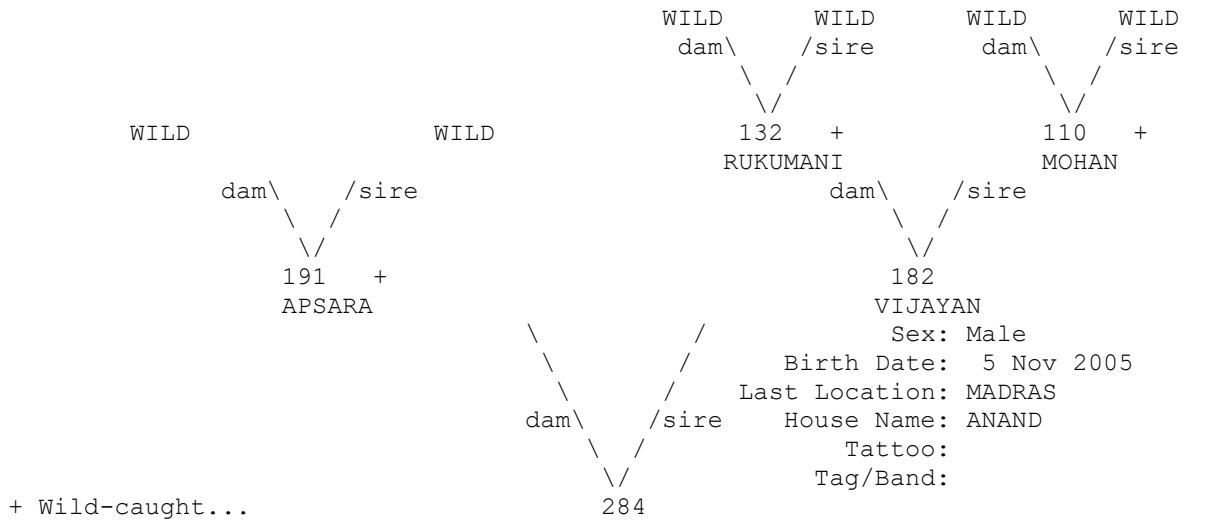
Taxon Name: MACACA SILENUS

Studbook Number: 283



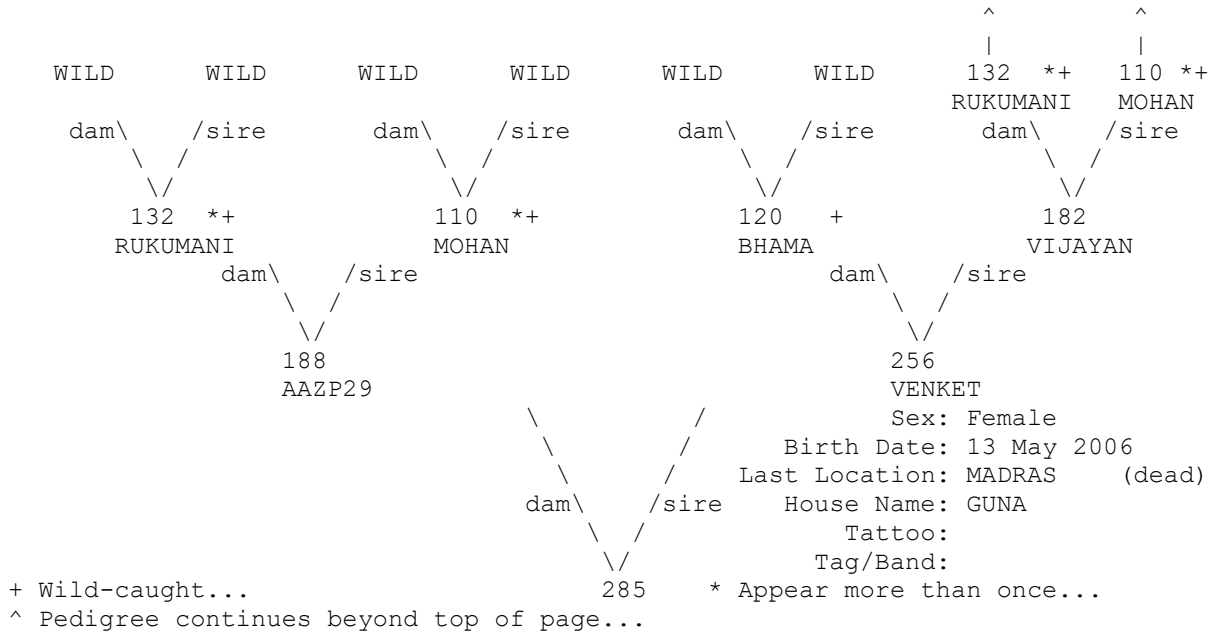
Taxon Name: MACACA SILENUS

Studbook Number: 284



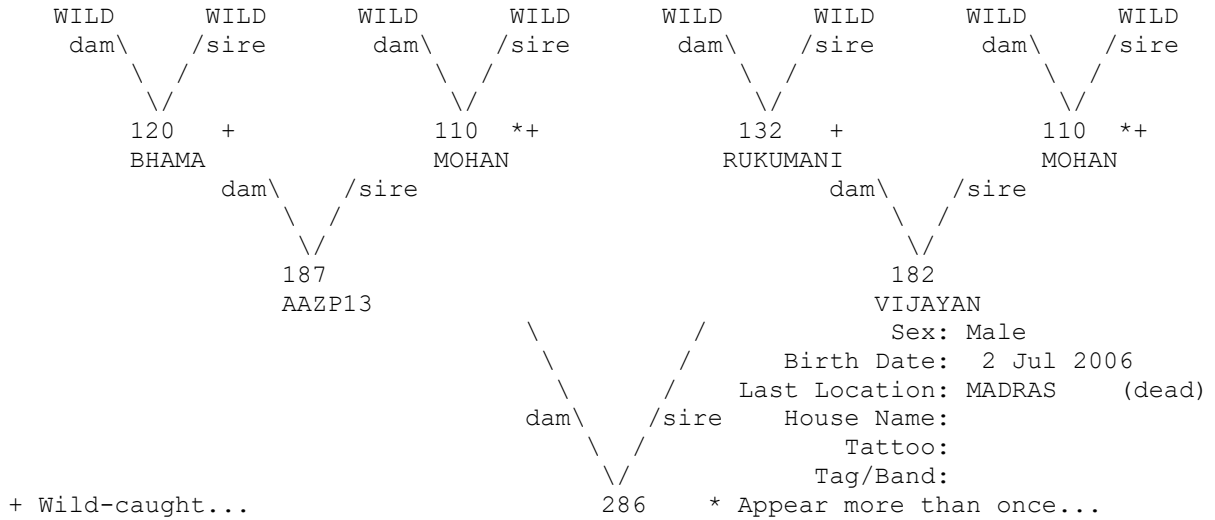
Taxon Name: MACACA SILENUS

Studbook Number: 285



Taxon Name: MACACA SILENUS

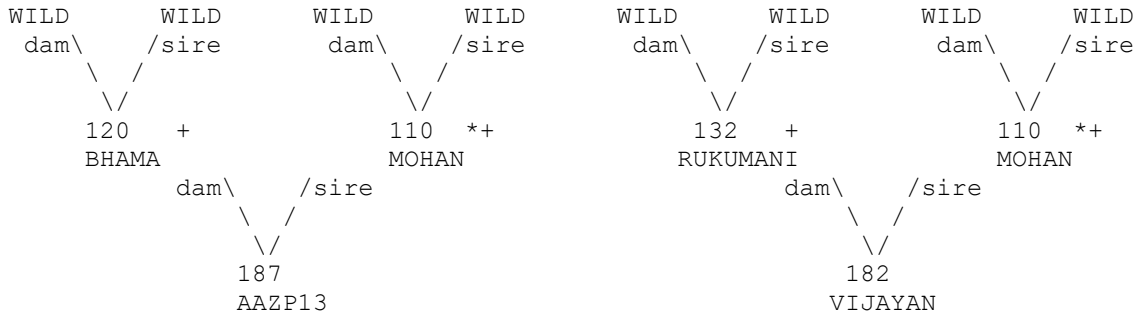
Studbook Number: 286



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 287
 =====



```

    \      /
     dam\  /sire
        \  /
         287
    
```

Sex: Male
 Birth Date: 2 Jul 2006
 Last Location: MADRAS (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

* Appear more than once...

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 288
 =====

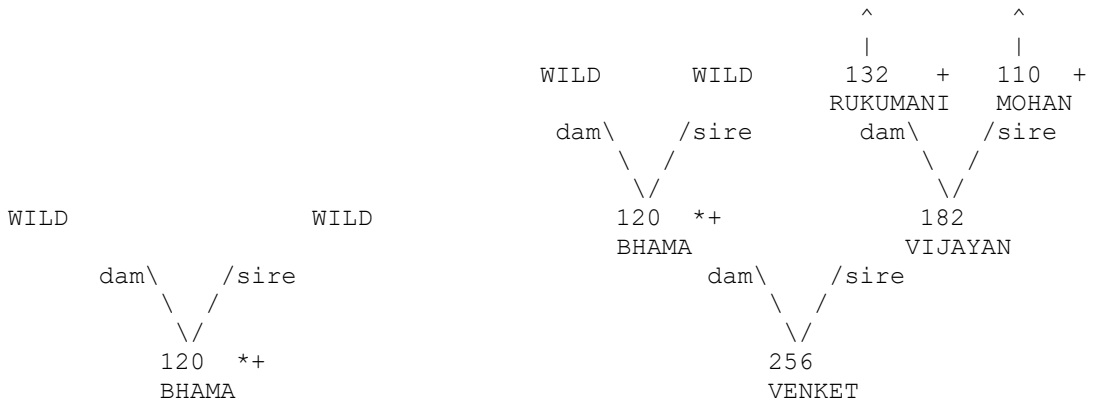
WILD



WILD
 Sex: Male
 Birth Date: ~Aug 2006ñ1m
 Last Location: MYSORE
 House Name: ABHI
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS

Studbook Number: 289
 =====



```

    \      /
     dam\  /sire
        \  /
         289
    
```

Sex: Male
 Birth Date: 25 Aug 2006
 Last Location: MADRAS (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

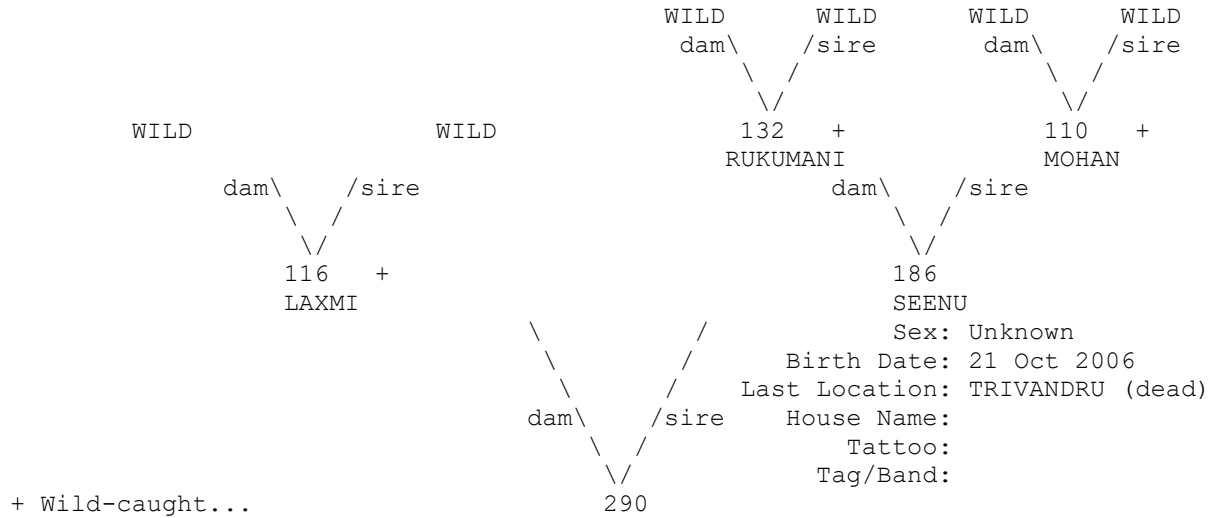
* Appear more than once...

^ Pedigree continues beyond top of page...

NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

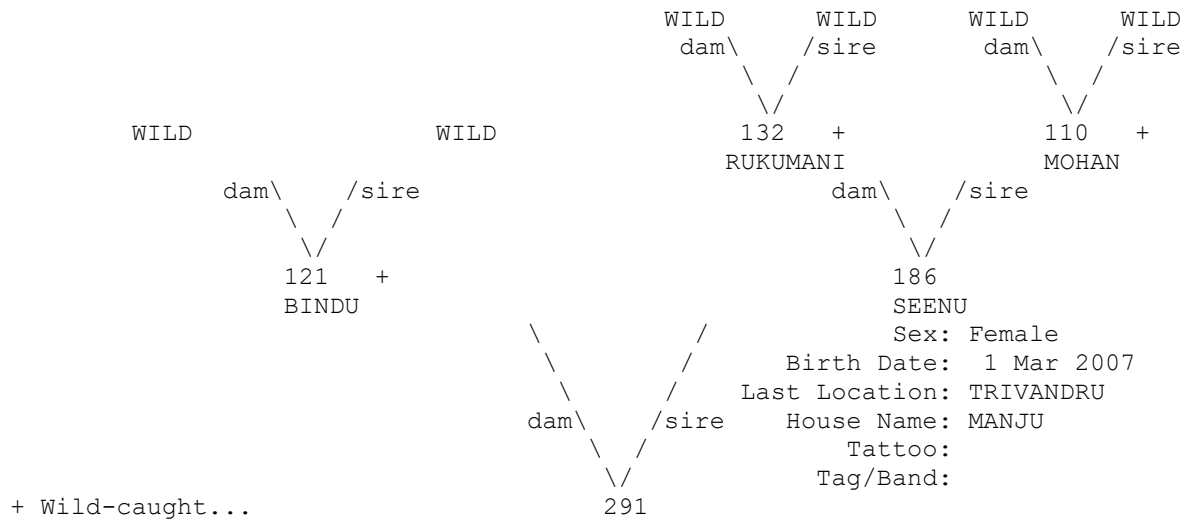
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 Taxon Name: MACACA SILENUS

Studbook Number: 290
 =====



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 Taxon Name: MACACA SILENUS

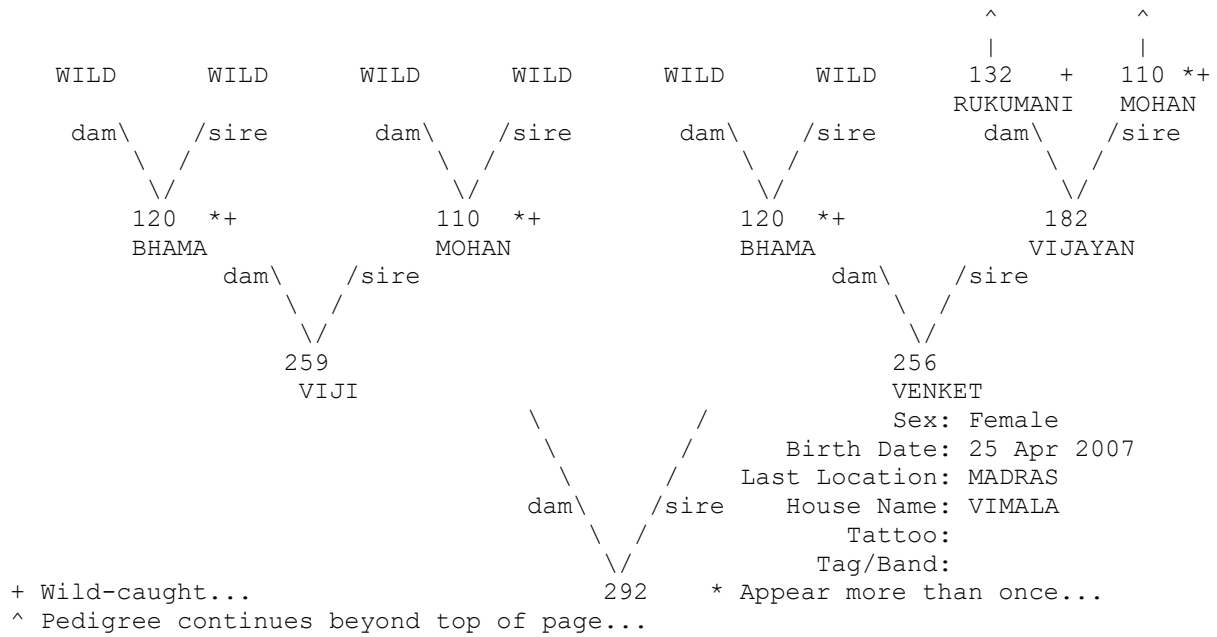
Studbook Number: 291
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NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

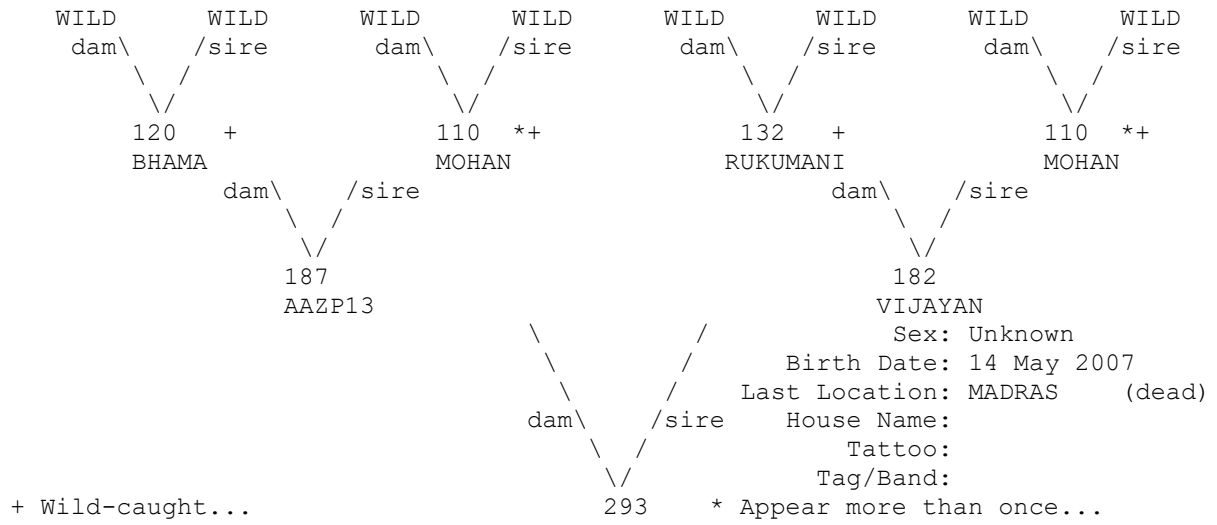
Taxon Name: MACACA SILENUS

Studbook Number: 292



Taxon Name: MACACA SILENUS

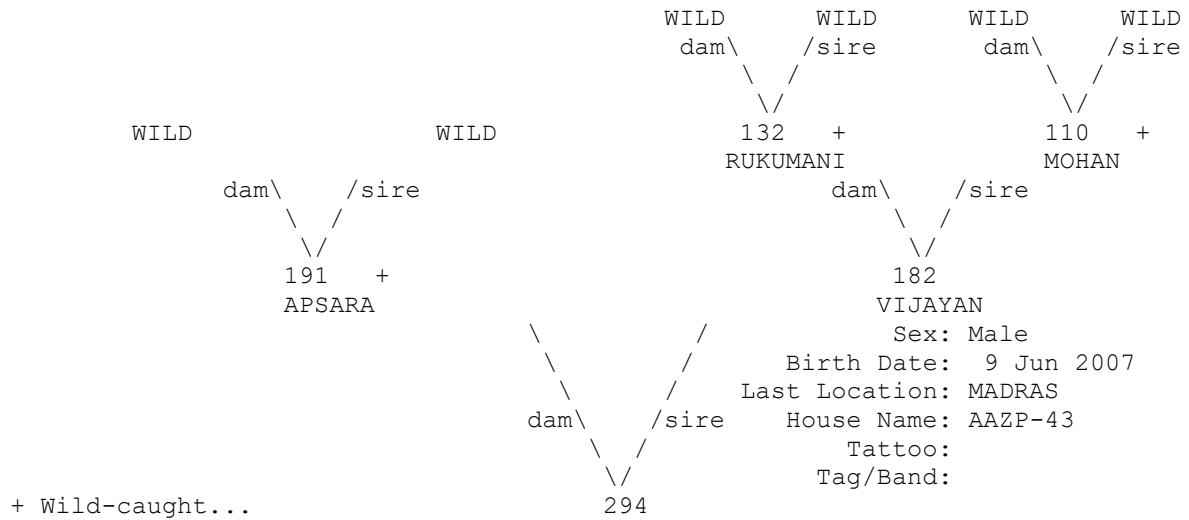
Studbook Number: 293



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

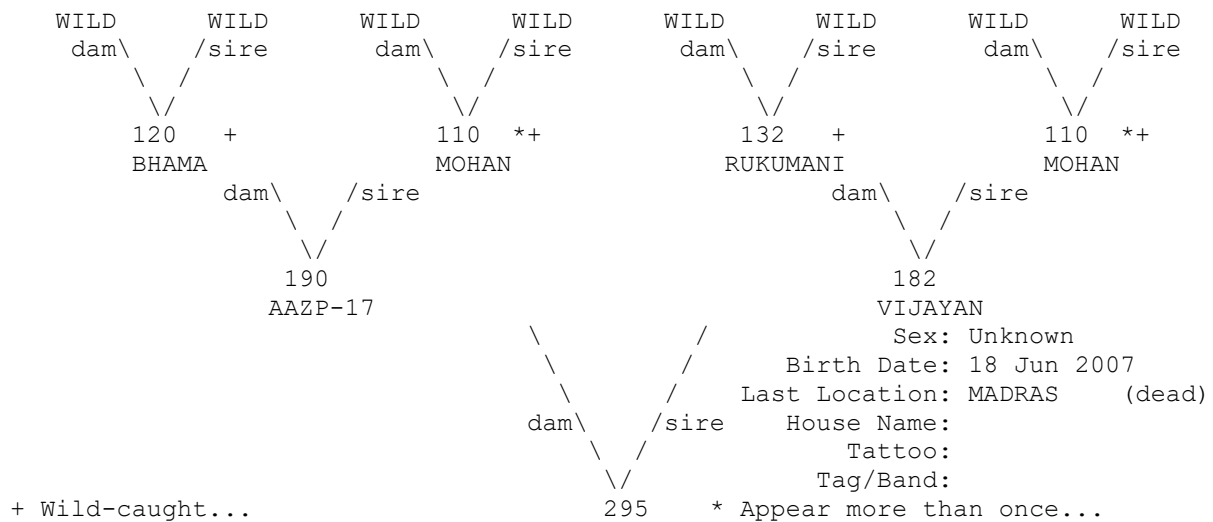
=====
 Taxon Name: MACACA SILENUS

Studbook Number: 294
 =====



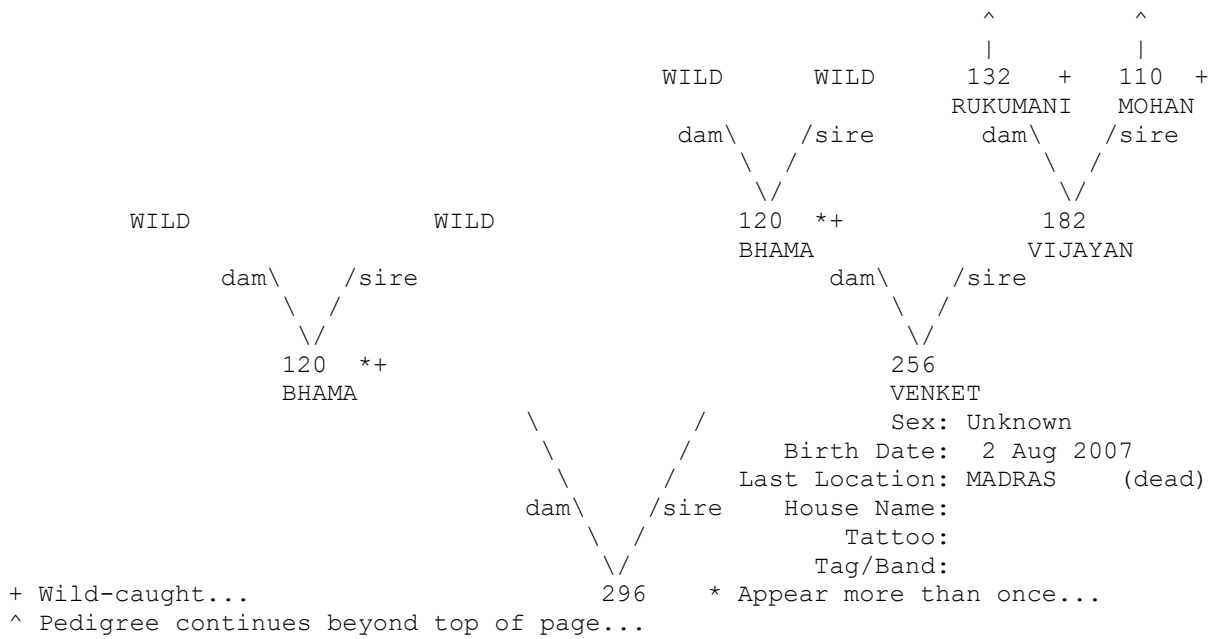
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 Taxon Name: MACACA SILENUS

Studbook Number: 295
 =====



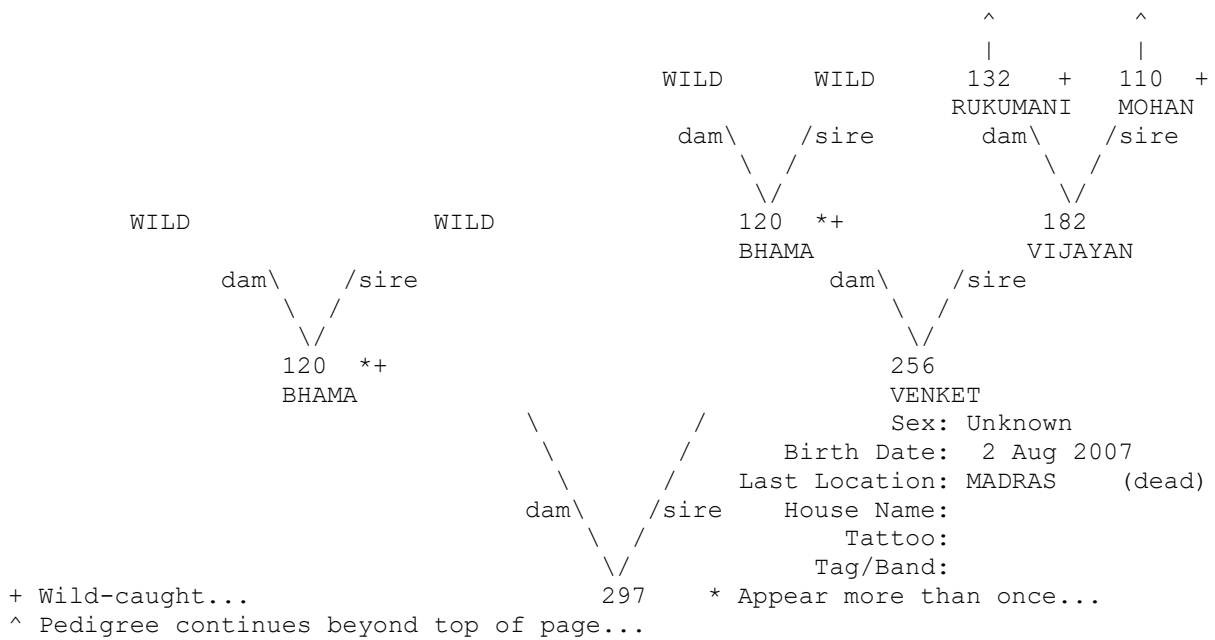
Taxon Name: MACACA SILENUS

Studbook Number: 296



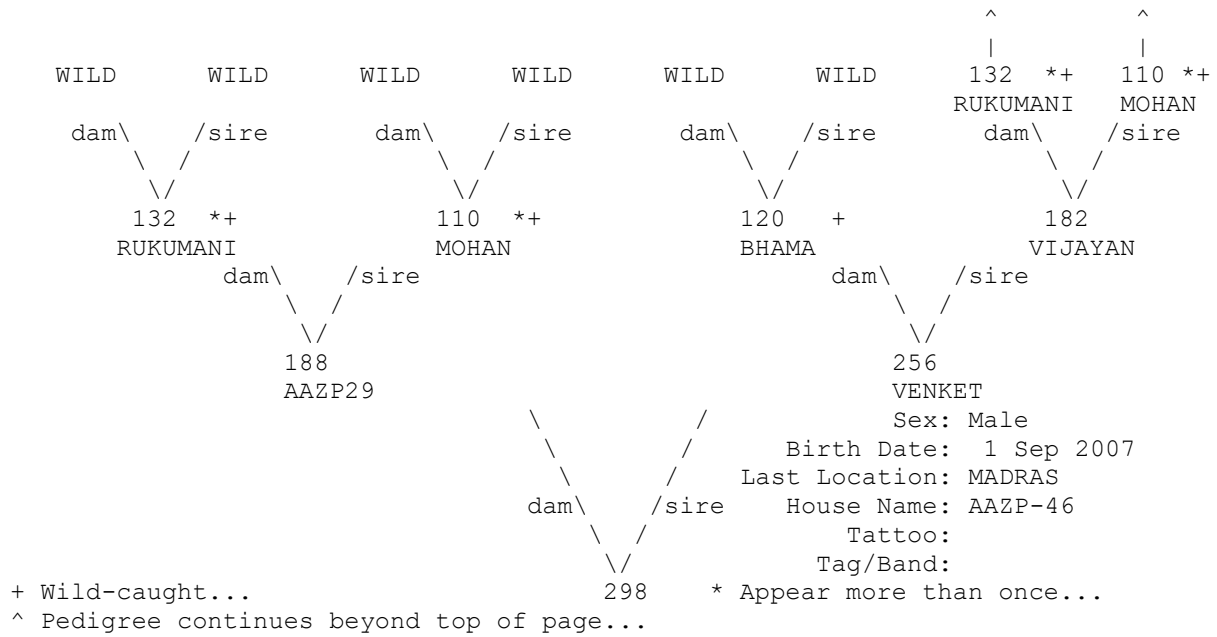
Taxon Name: MACACA SILENUS

Studbook Number: 297



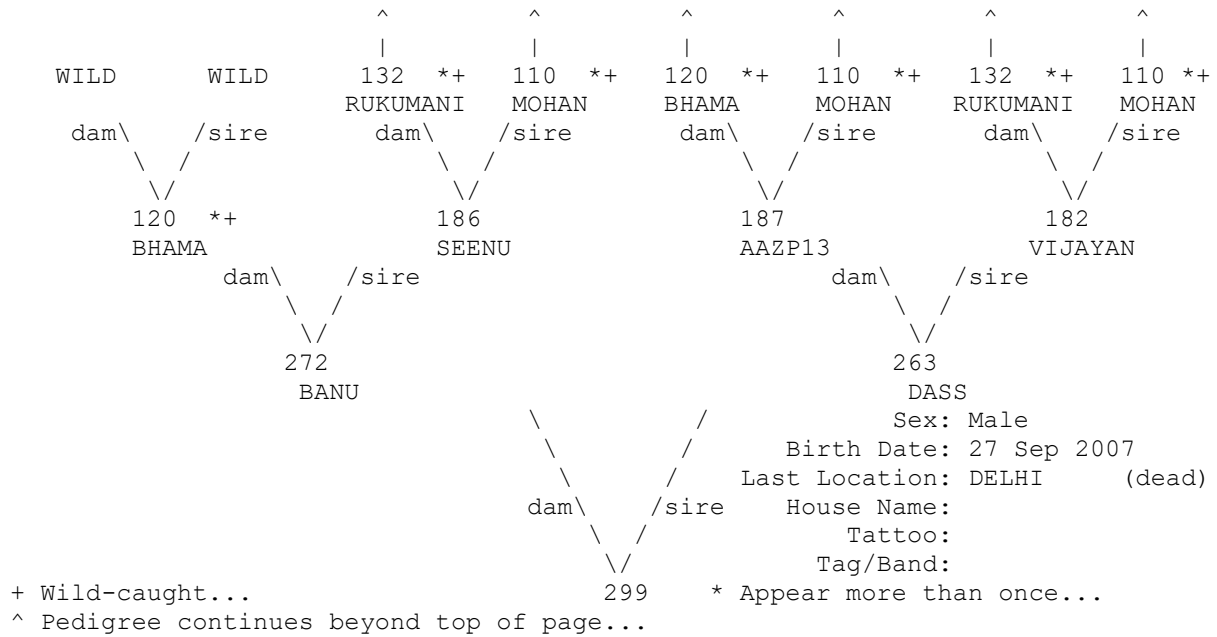
Taxon Name: MACACA SILENUS

Studbook Number: 298



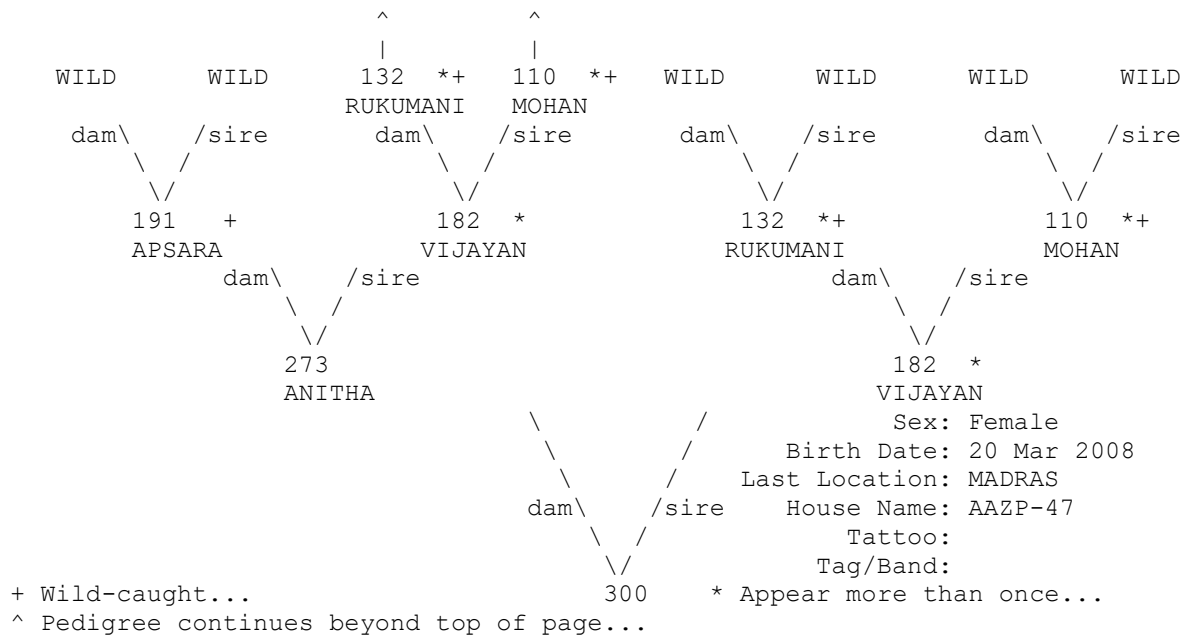
Taxon Name: MACACA SILENUS

Studbook Number: 299



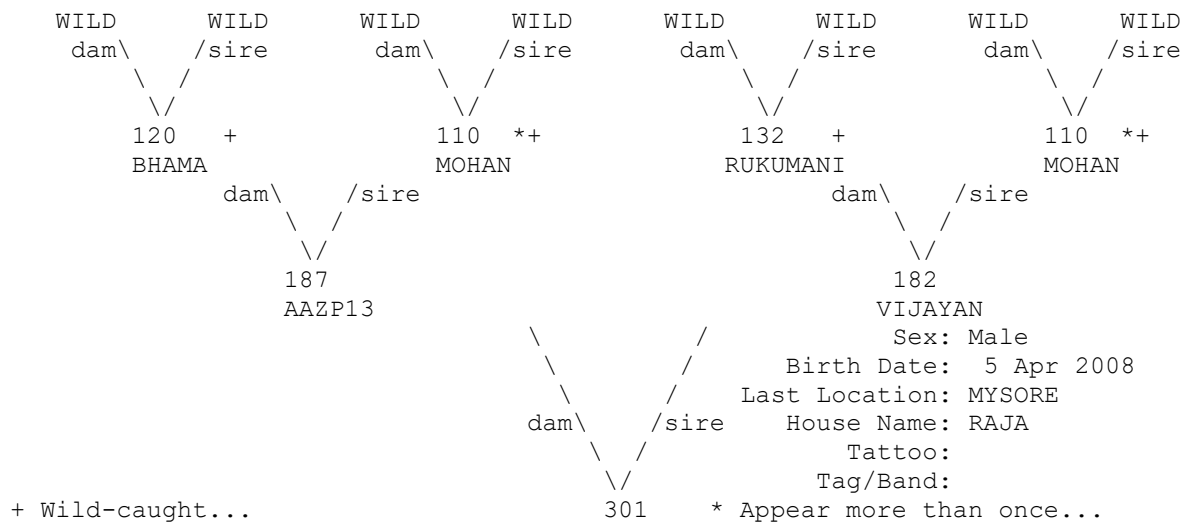
Taxon Name: MACACA SILENUS

Studbook Number: 300



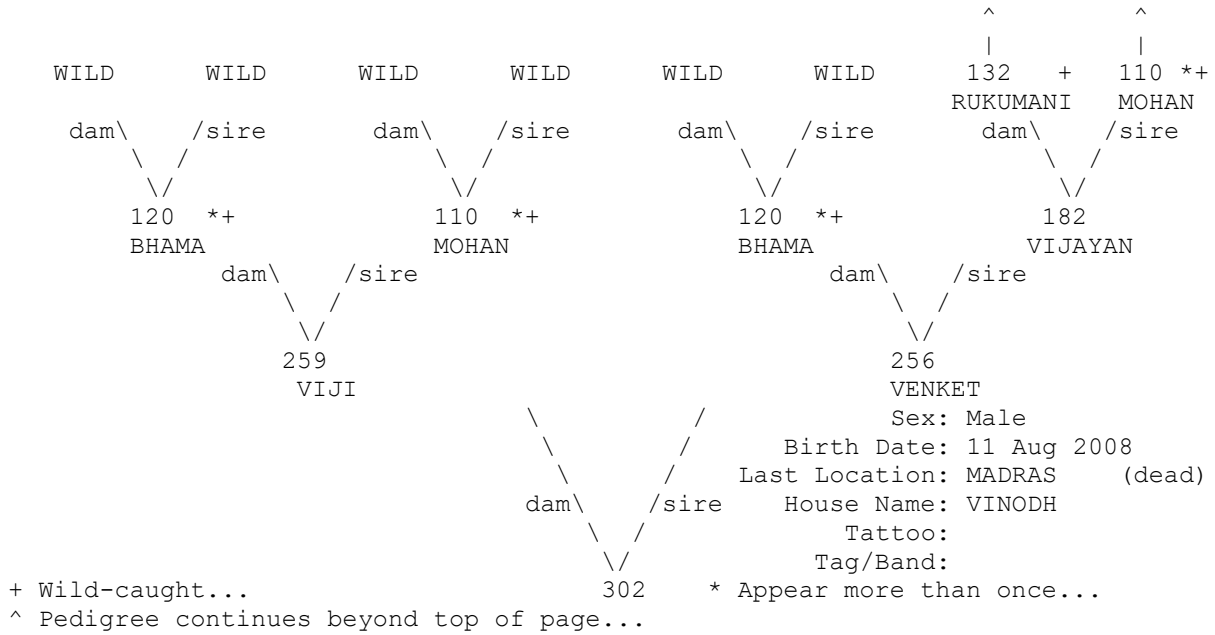
Taxon Name: MACACA SILENUS

Studbook Number: 301



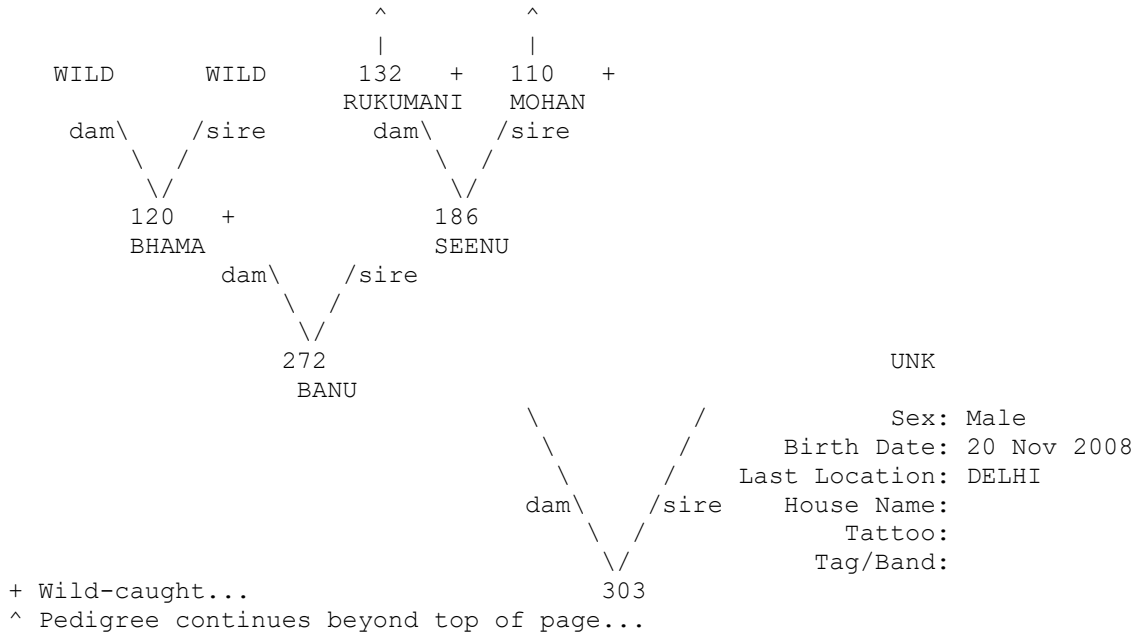
Taxon Name: MACACA SILENUS

Studbook Number: 302



Taxon Name: MACACA SILENUS

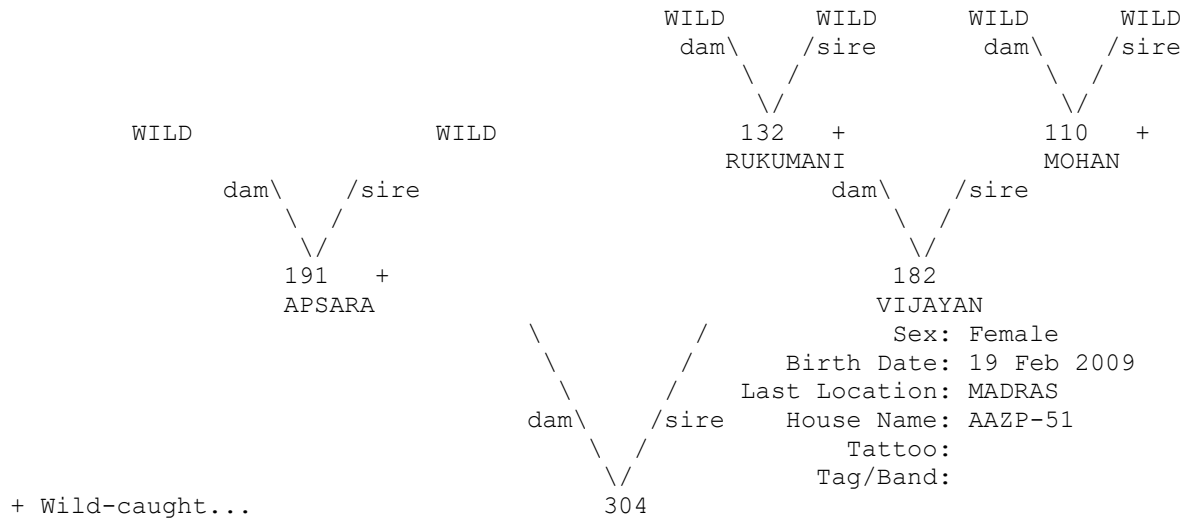
Studbook Number: 303



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

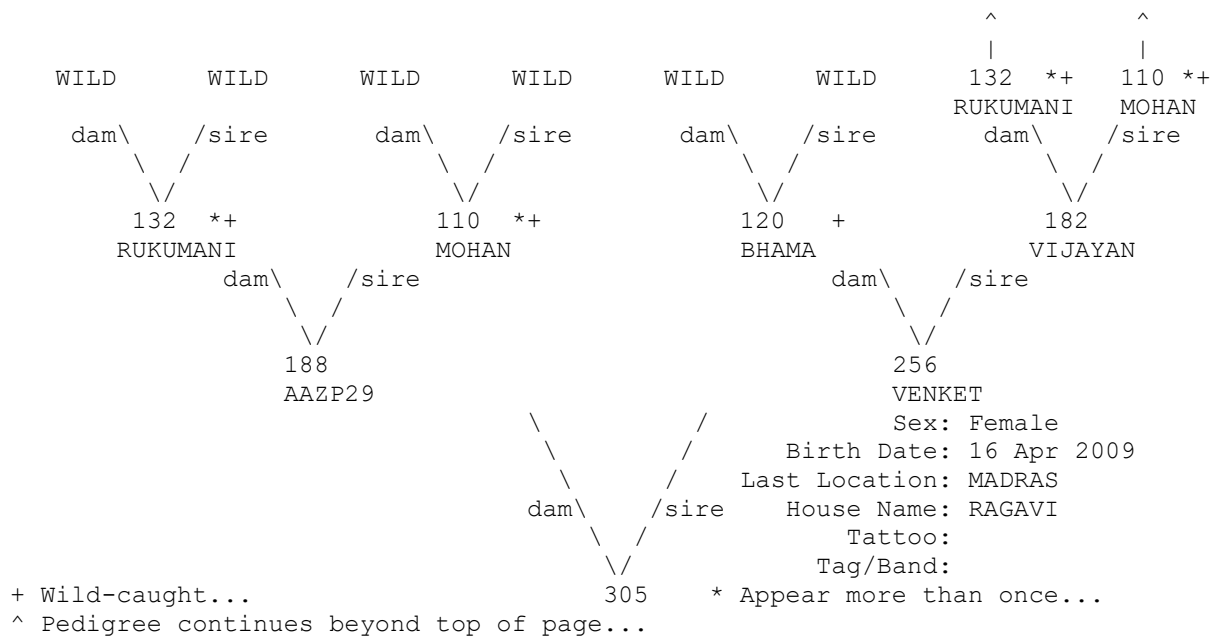
Taxon Name: MACACA SILENUS

Studbook Number: 304



Taxon Name: MACACA SILENUS

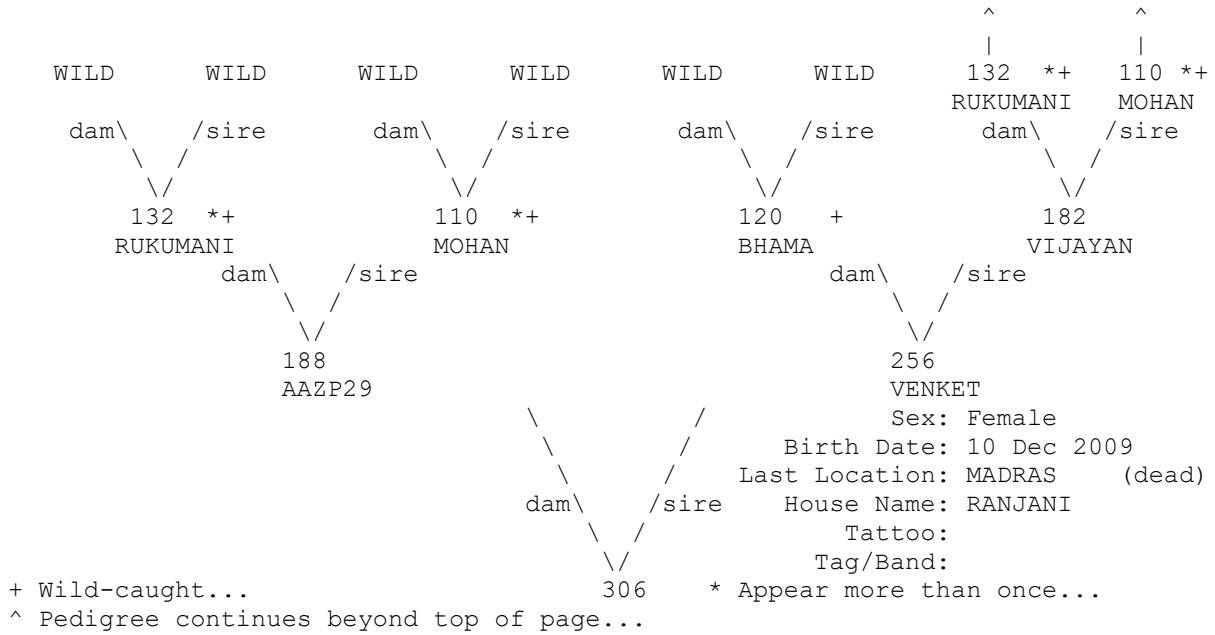
Studbook Number: 305



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

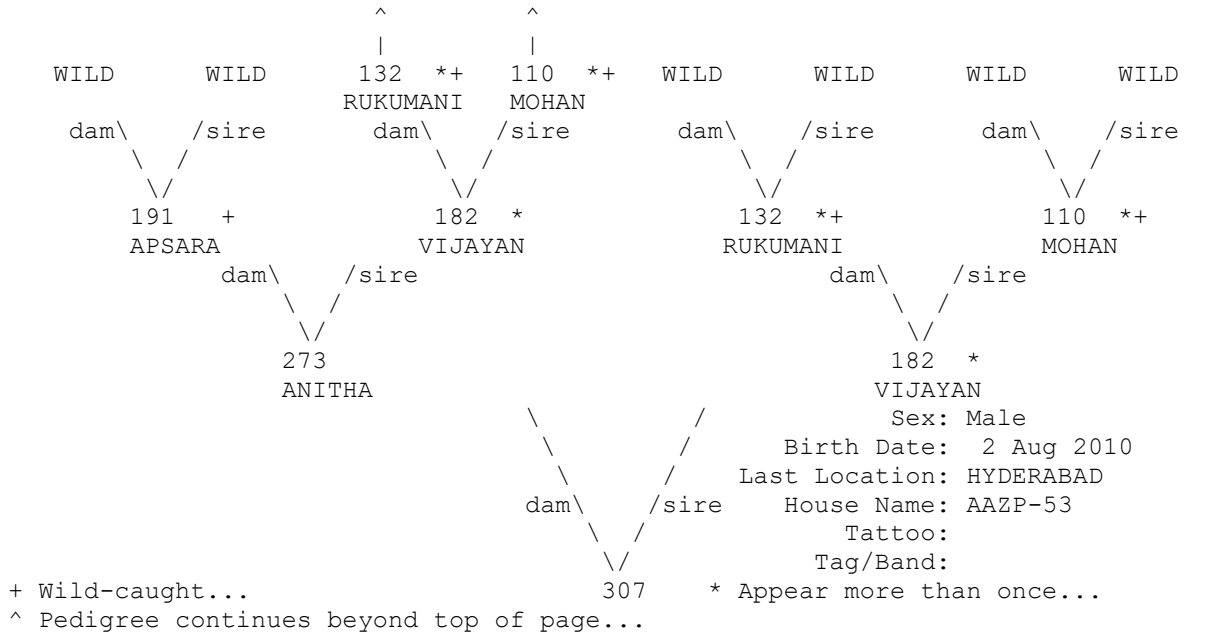
Taxon Name: MACACA SILENUS

Studbook Number: 306



Taxon Name: MACACA SILENUS

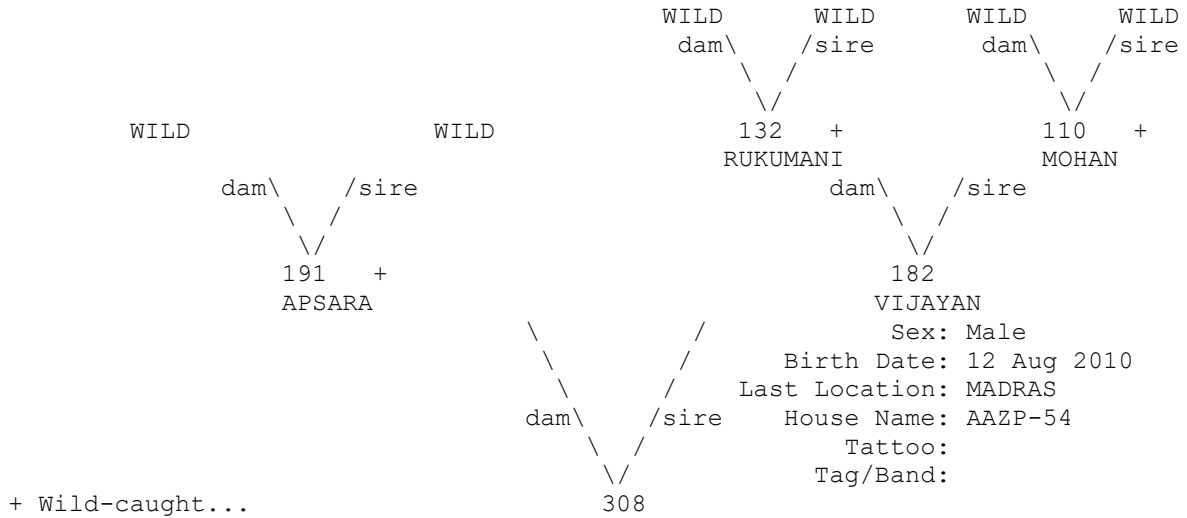
Studbook Number: 307



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

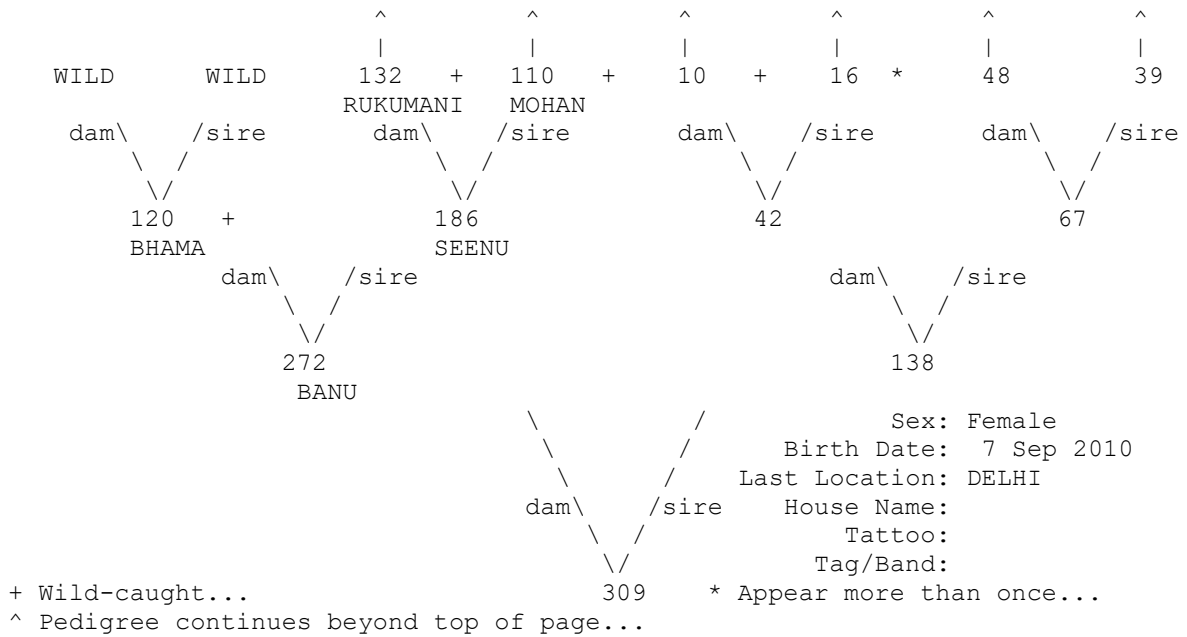
Taxon Name: MACACA SILENUS

Studbook Number: 308



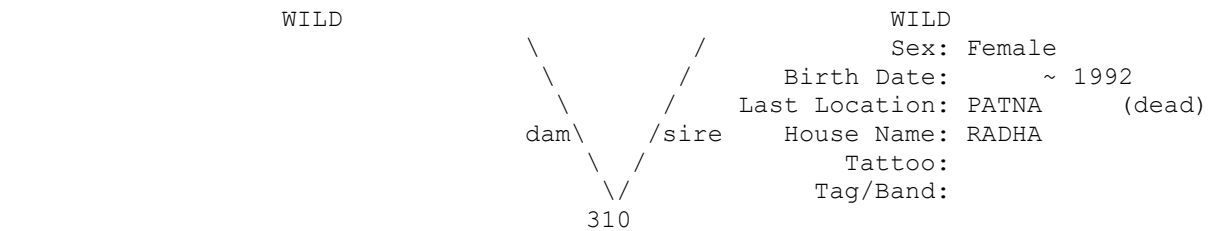
Taxon Name: MACACA SILENUS

Studbook Number: 309



Taxon Name: MACACA SILENUS

Studbook Number: 310



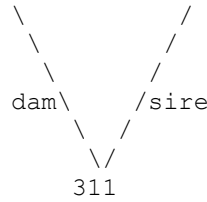
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 311
 =====

UNK

UNK



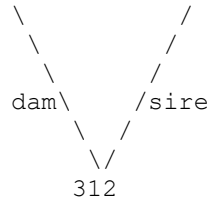
Sex: Female
 Birth Date: ????
 Last Location: PATNA
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 312
 =====

WILD

WILD



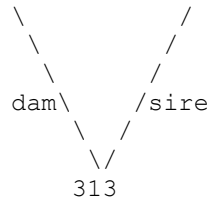
Sex: Female
 Birth Date: ????
 Last Location: TRIVANDRU
 House Name: RADHA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 313
 =====

WILD

WILD



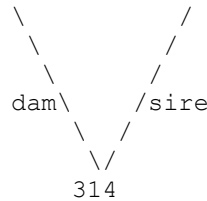
Sex: Male
 Birth Date: ????
 Last Location: TRIVANDRU
 House Name: KUTTAN
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 314
 =====

WILD

WILD



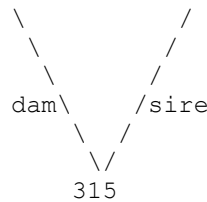
Sex: Female
 Birth Date: ????
 Last Location: SHILLONG
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 315
 =====

WILD

WILD



Sex: Female
 Birth Date: ????
 Last Location: SHILLONG
 House Name:
 Tattoo:
 Tag/Band:

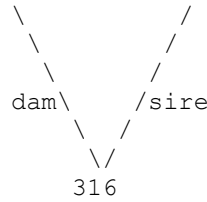
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 316
 =====

WILD

WILD



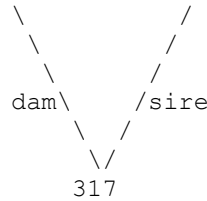
Sex: Male
 Birth Date: ????
 Last Location: SHILLONG
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 317
 =====

WILD

WILD



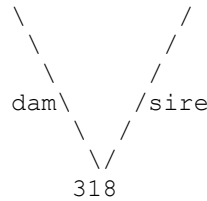
Sex: Male
 Birth Date: ~ 1999
 Last Location: LUCKNOW
 House Name: Raja
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 318
 =====

UNK

UNK



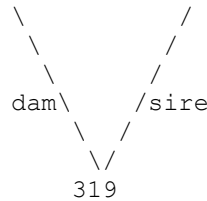
Sex: Male
 Birth Date: ~ 1949
 Last Location: MELBOURNE (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 319
 =====

UNK

UNK



Sex: Male
 Birth Date: ~ Jul 1949
 Last Location: MELBOURNE (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 320
 =====

UNK

UNK



Sex: Female
 Birth Date: ~ Jul 1949
 Last Location: MELBOURNE (dead)
 House Name:
 Tattoo:
 Tag/Band:

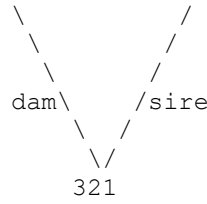
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 321
 =====

UNK

UNK



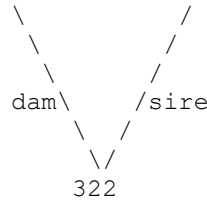
Sex: Female
 Birth Date: ~ Jul 1949
 Last Location: MELBOURNE (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 322
 =====

WILD

WILD



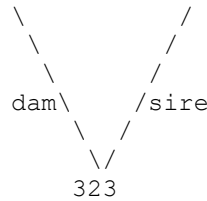
Sex: Female
 Birth Date: ~ 1969
 Last Location: VEERMATA (dead)
 House Name: KUNDA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 323
 =====

WILD

WILD



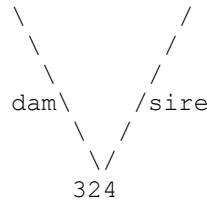
Sex: Female
 Birth Date: ~ 1973
 Last Location: VEERMATA (dead)
 House Name: TEENA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 324
 =====

UNK

UNK



Sex: Male
 Birth Date: ~ 1977
 Last Location: VEERMATA (dead)
 House Name: Raja
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

=====
 Studbook Number: 325
 =====

WILD

WILD



Sex: Female
 Birth Date: ~ 1979
 Last Location: MYSORE (dead)
 House Name: SHARAVATHI
 Tattoo:
 Tag/Band:

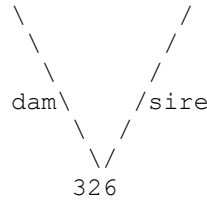
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 326
 =====

UNK

UNK



Sex: Female

Birth Date: 5 Sep 1982

Last Location: DELHI (dead)

House Name:

Tattoo:

Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 327
 =====

WILD

WILD



Sex: Male

Birth Date: ~ 1983

Last Location: PUNE (dead)

House Name:

Tattoo:

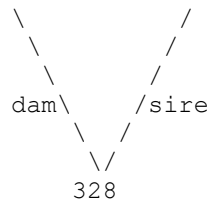
Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 328
 =====

UNK

UNK



Sex: Male

Birth Date: ~ 1985

Last Location: VADODARA (dead)

House Name:

Tattoo:

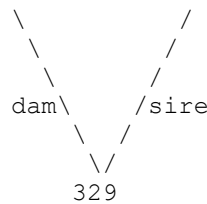
Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 329
 =====

WILD

WILD



Sex: Female

Birth Date: ~ 1984

Last Location: VADODARA (dead)

House Name:

Tattoo:

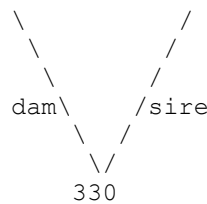
Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 330
 =====

WILD

WILD



Sex: Male

Birth Date: ????

Last Location: ASSAM (dead)

House Name: Zombo/Jambo

Tattoo:

Tag/Band:

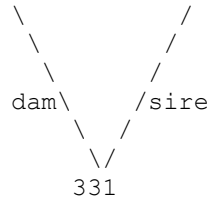
NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 331
 =====

WILD

WILD



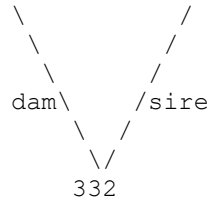
Sex: Female
 Birth Date: ????
 Last Location: ASSAM (dead)
 House Name: Guno
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 332
 =====

WILD

WILD



Sex: Female
 Birth Date: ????
 Last Location: ASSAM (dead)
 House Name: Jamini
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 333
 =====

WILD

WILD



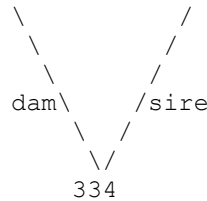
Sex: Female
 Birth Date: ????
 Last Location: MADRAS (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 334
 =====

UNK

UNK



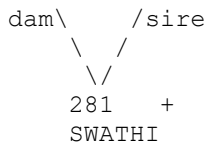
Sex: Female
 Birth Date: ????
 Last Location: HYDERABAD
 House Name: BEENA
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 335
 =====

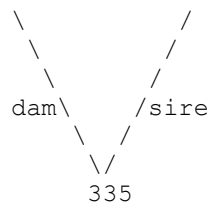
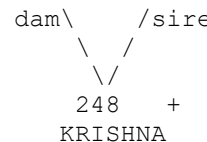
WILD

WILD



WILD

WILD

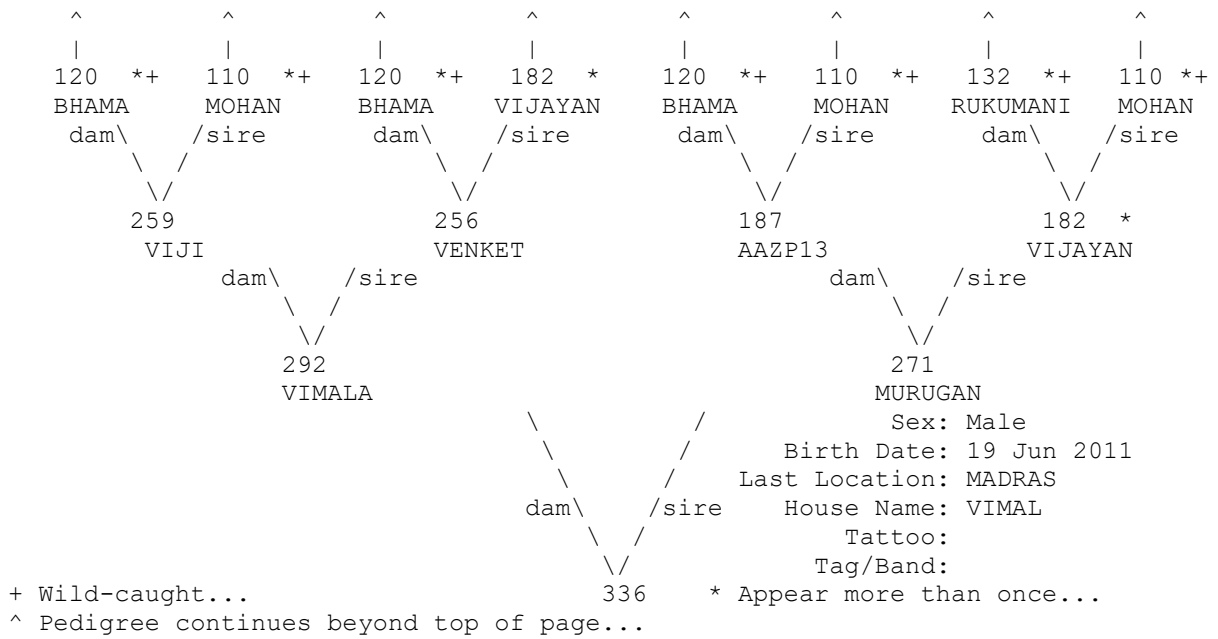


Sex: Unknown
 Birth Date: 17 Mar 2011
 Last Location: MYSORE (dead)
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

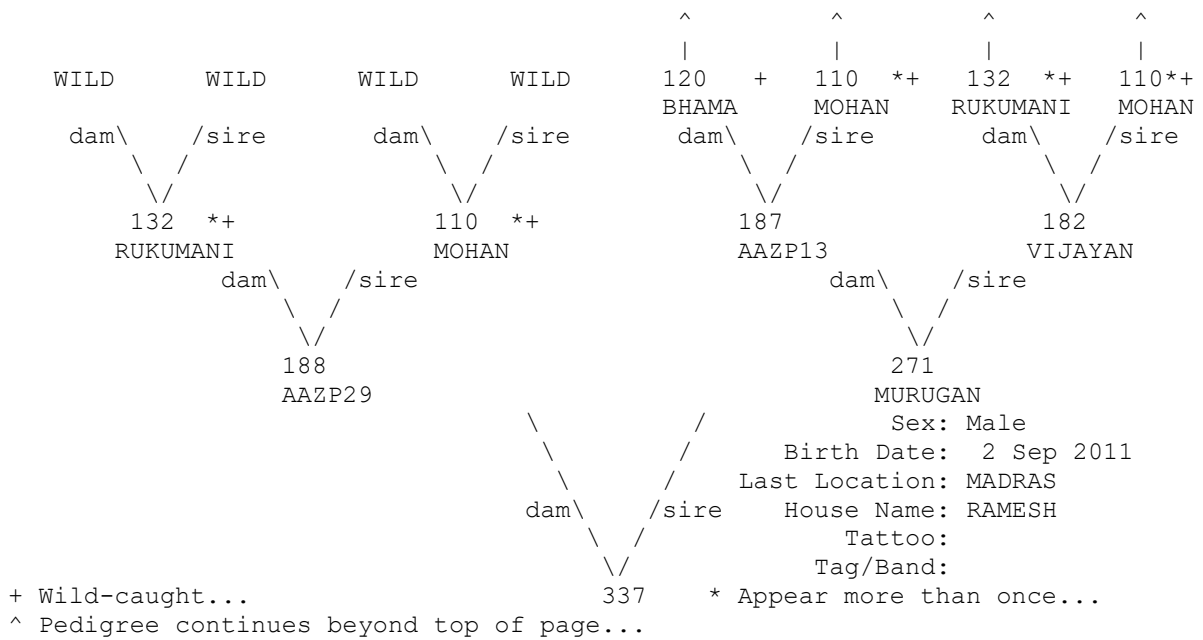
Taxon Name: MACACA SILENUS

Studbook Number: 336



Taxon Name: MACACA SILENUS

Studbook Number: 337



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

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Taxon Name: MACACA SILENUS

=====

Studbook Number: 338

=====

WILD	dam\ \ \ 261 + ANKITHA	WILD	dam\ \ \ 338	WILD	dam\ \ \ 248 + KRISHNA Sex: Male Birth Date: 10 Sep 2011 Last Location: MYSORE (dead) House Name: Tattoo: Tag/Band:	WILD
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+ Wild-caught...

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Taxon Name: MACACA SILENUS

=====

Studbook Number: 339

=====

WILD	dam\ \ \ 191 + APSARA	WILD	dam\ \ \ 339	WILD	dam\ \ \ 132 + RUKUMANI	WILD	dam\ \ \ 110 + MOHAN	WILD	dam\ \ \ 182 VIJAYAN Sex: Male Birth Date: 5 Jan 2012 Last Location: MADRAS House Name: ARJUN Tattoo: Tag/Band:
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+ Wild-caught...

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Taxon Name: MACACA SILENUS

=====

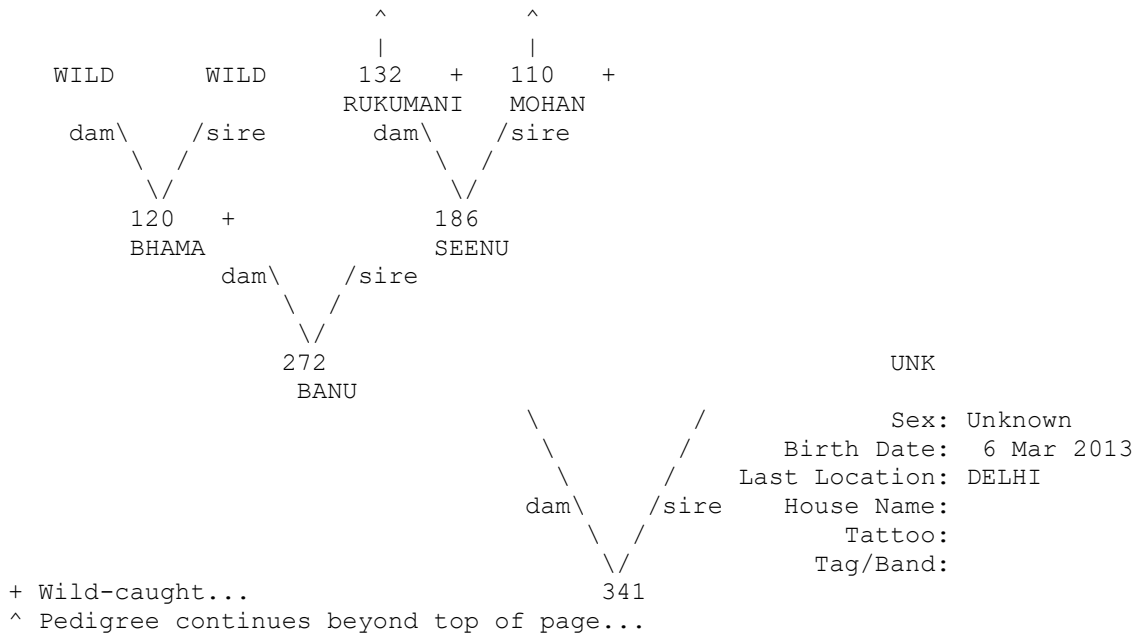
Studbook Number: 340

=====

WILD	dam\ \ \ 340	WILD	Sex: Female Birth Date: ~ 2011 Last Location: BANNERGHA House Name: RENUKA Tattoo: Tag/Band:
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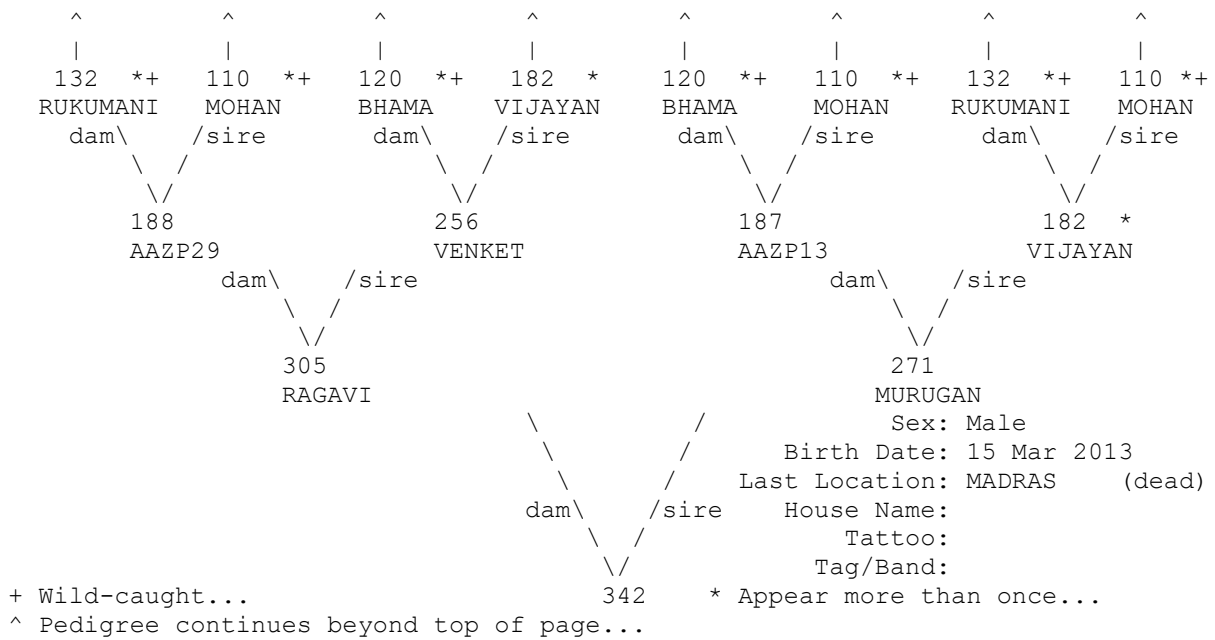
Taxon Name: MACACA SILENUS

Studbook Number: 341



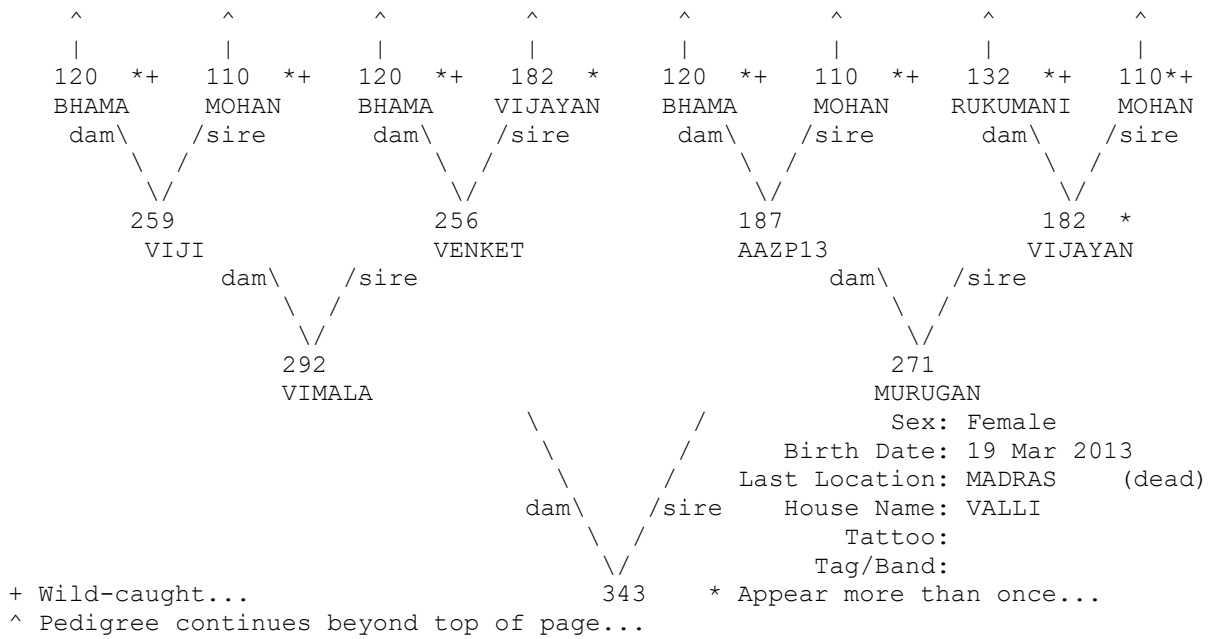
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Studbook Number: 342



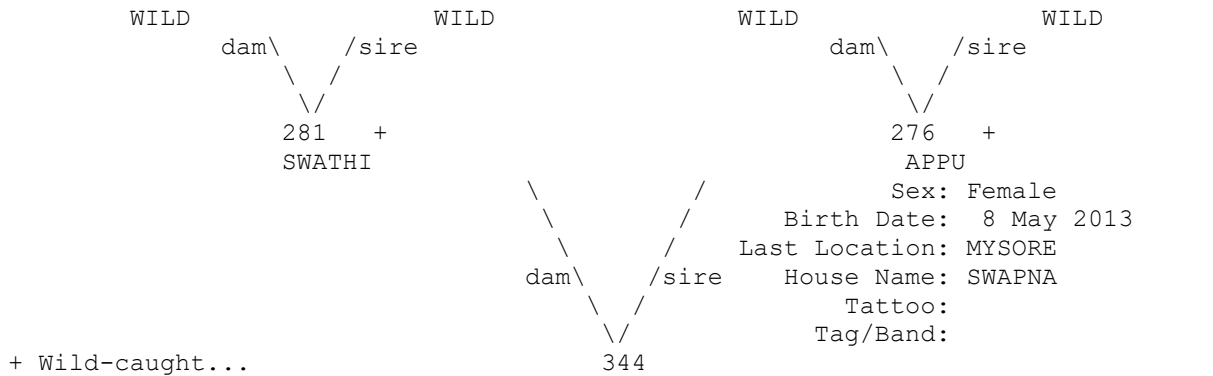
Taxon Name: MACACA SILENUS

Studbook Number: 343



Taxon Name: MACACA SILENUS

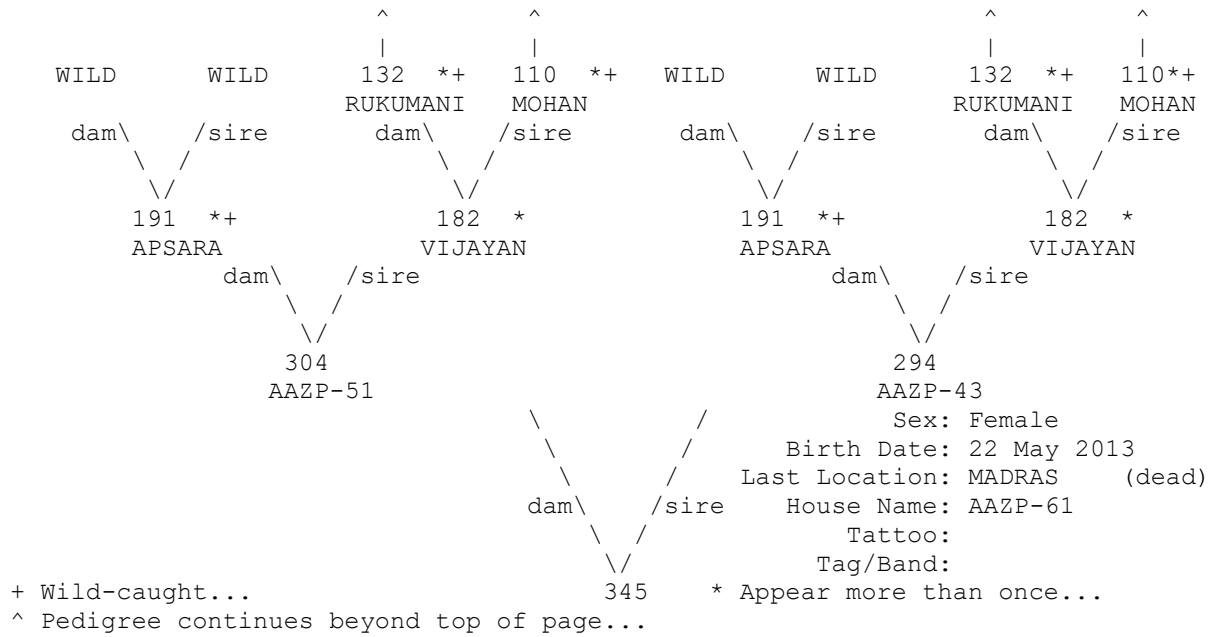
Studbook Number: 344



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

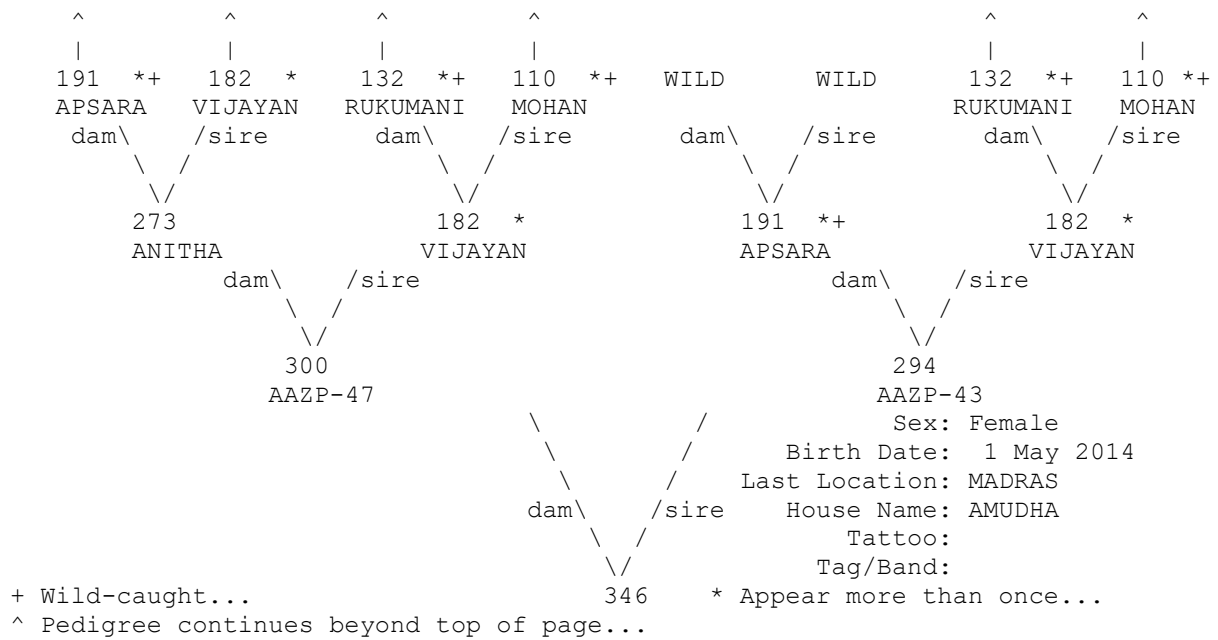
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Studbook Number: 345



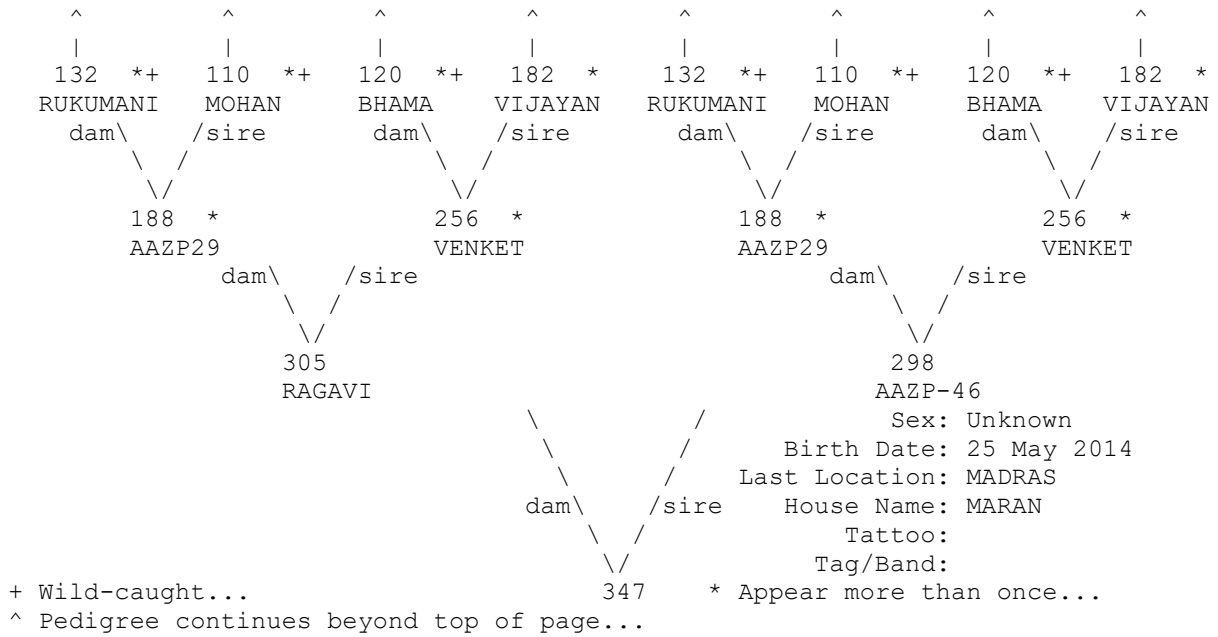
Taxon Name: MACACA SILENUS

Studbook Number: 346



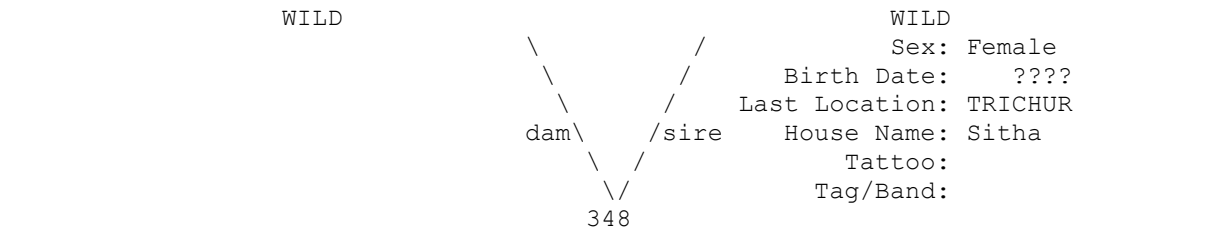
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Studbook Number: 347



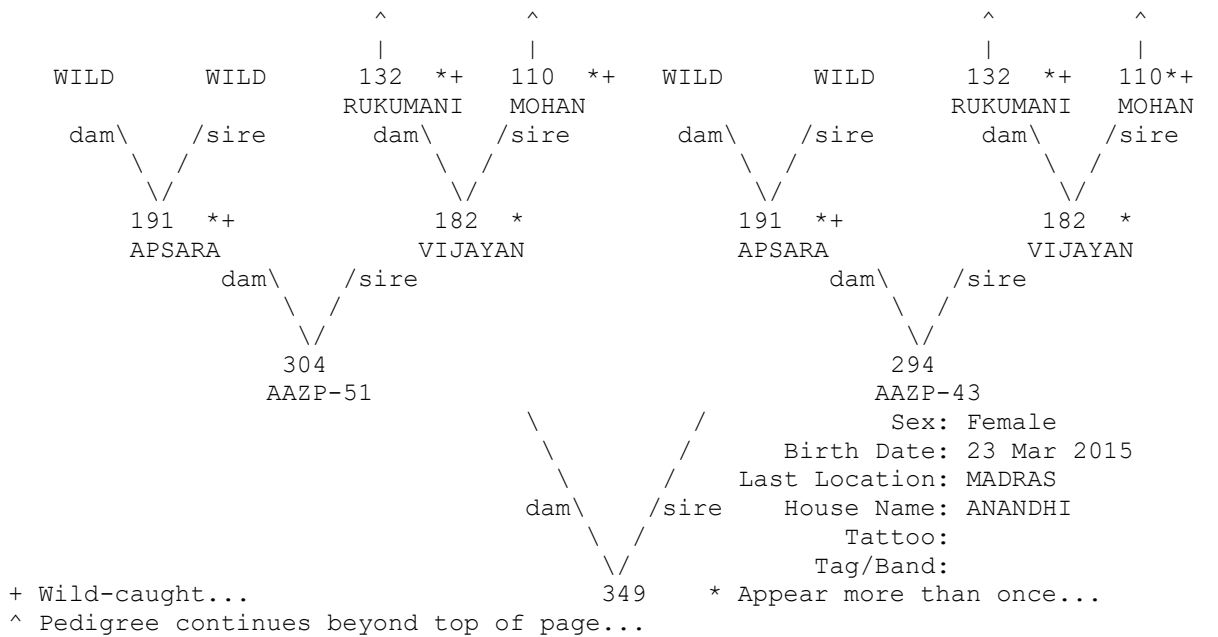
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Studbook Number: 348



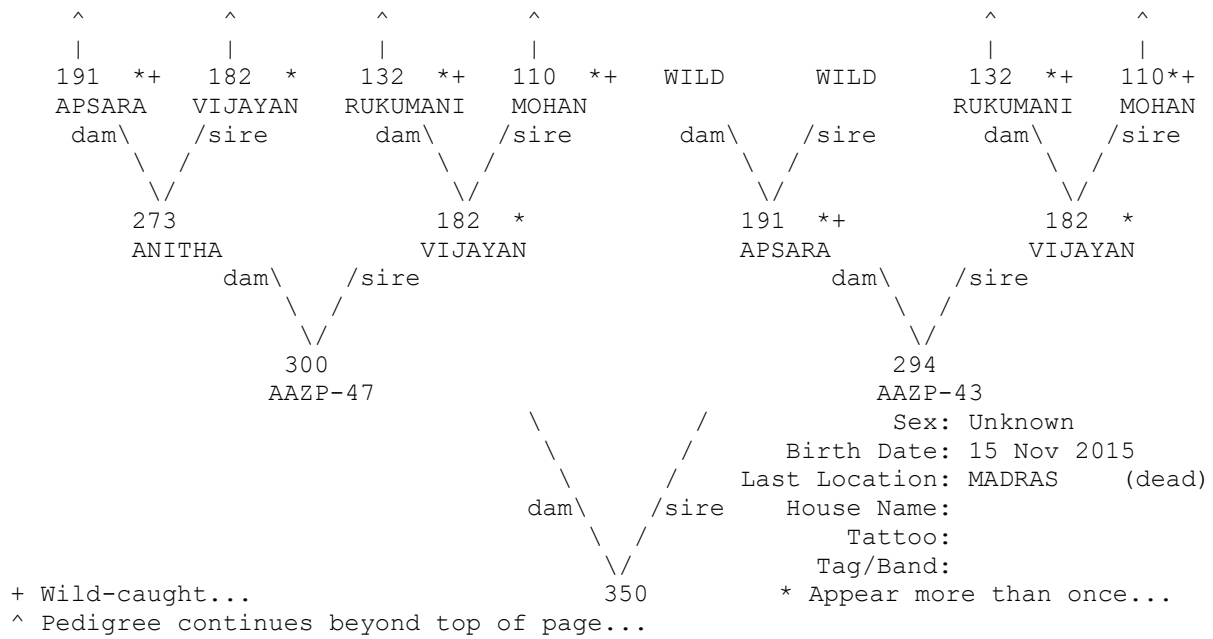
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Studbook Number: 349



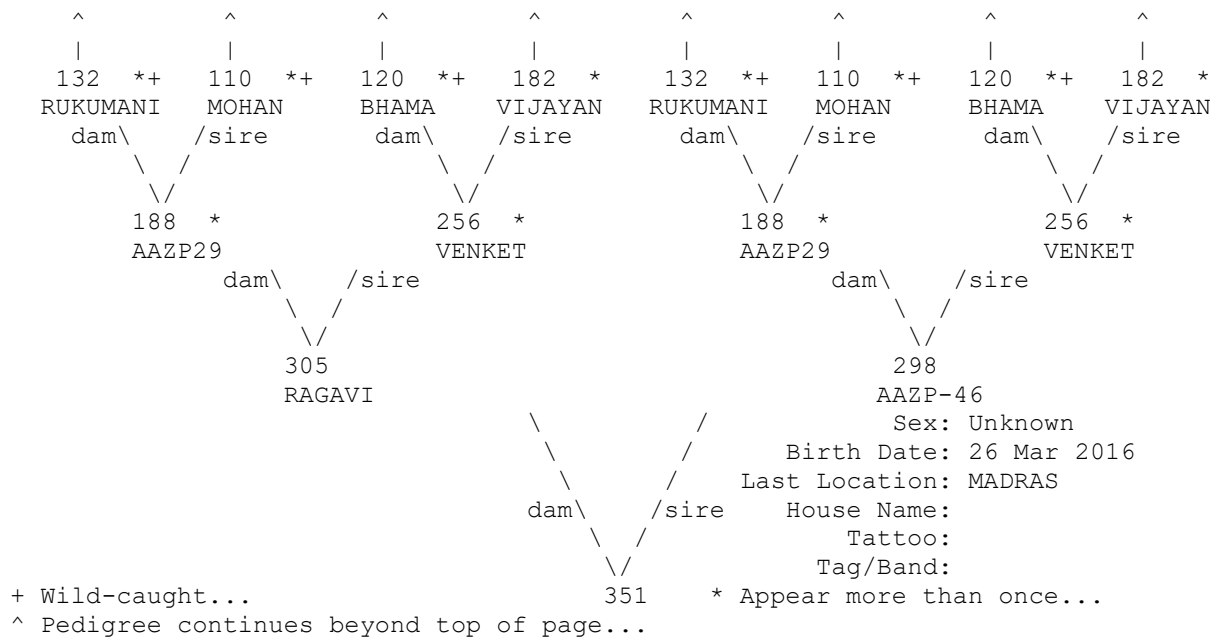
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Studbook Number: 350



Taxon Name: MACACA SILENUS

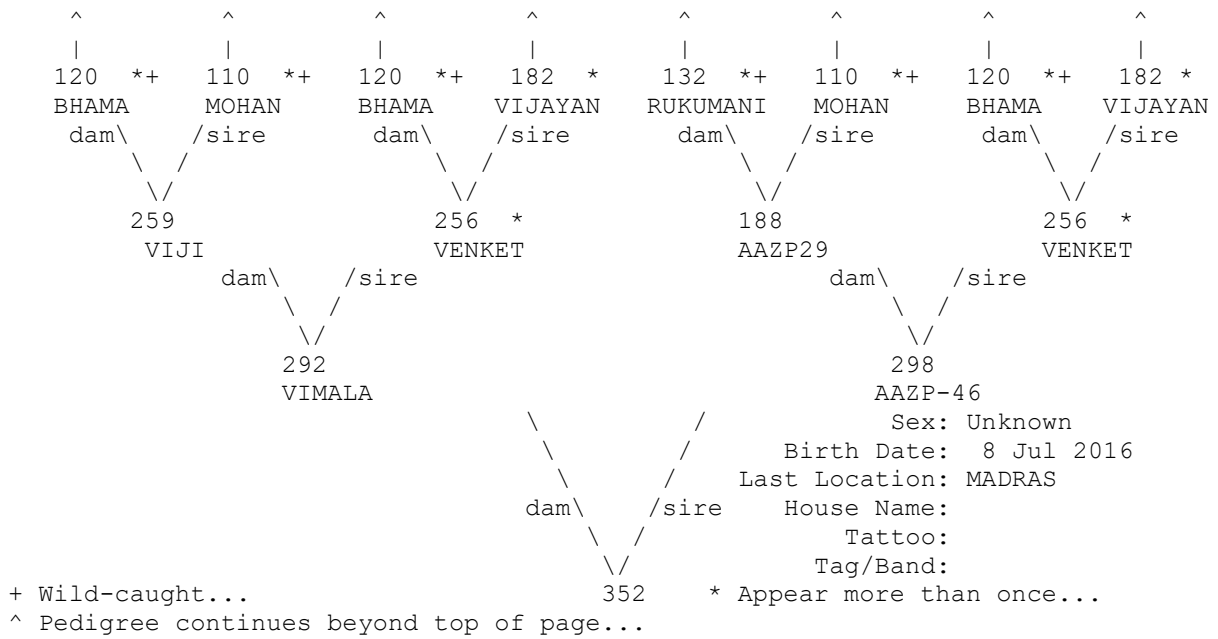
Studbook Number: 351



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

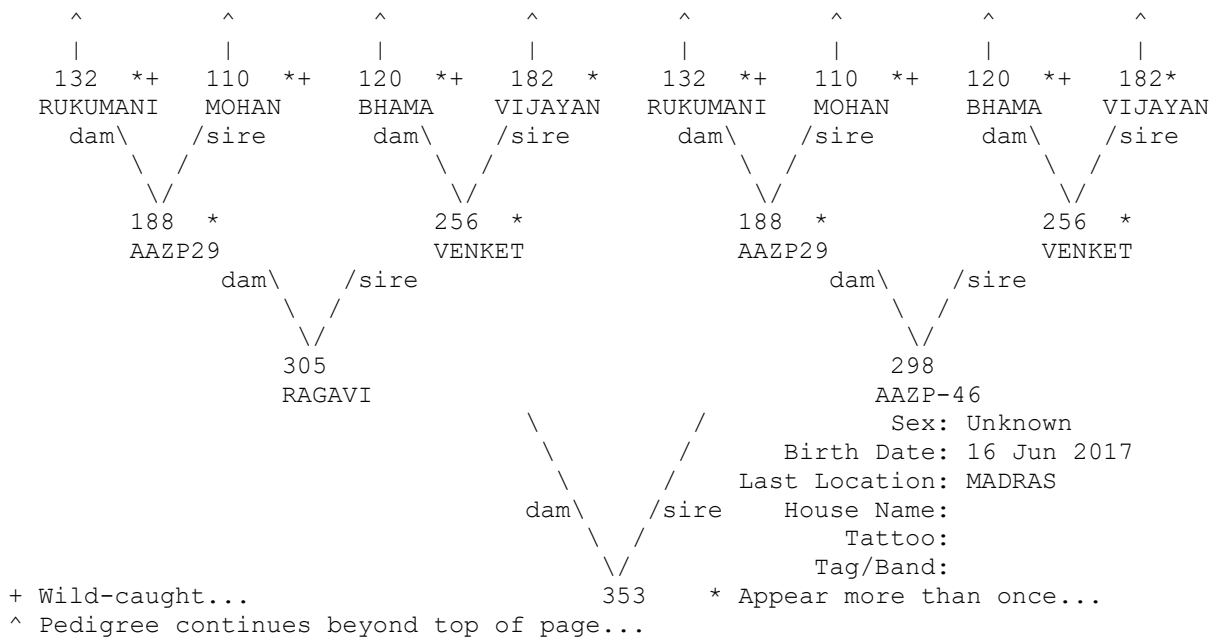
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Studbook Number: 352



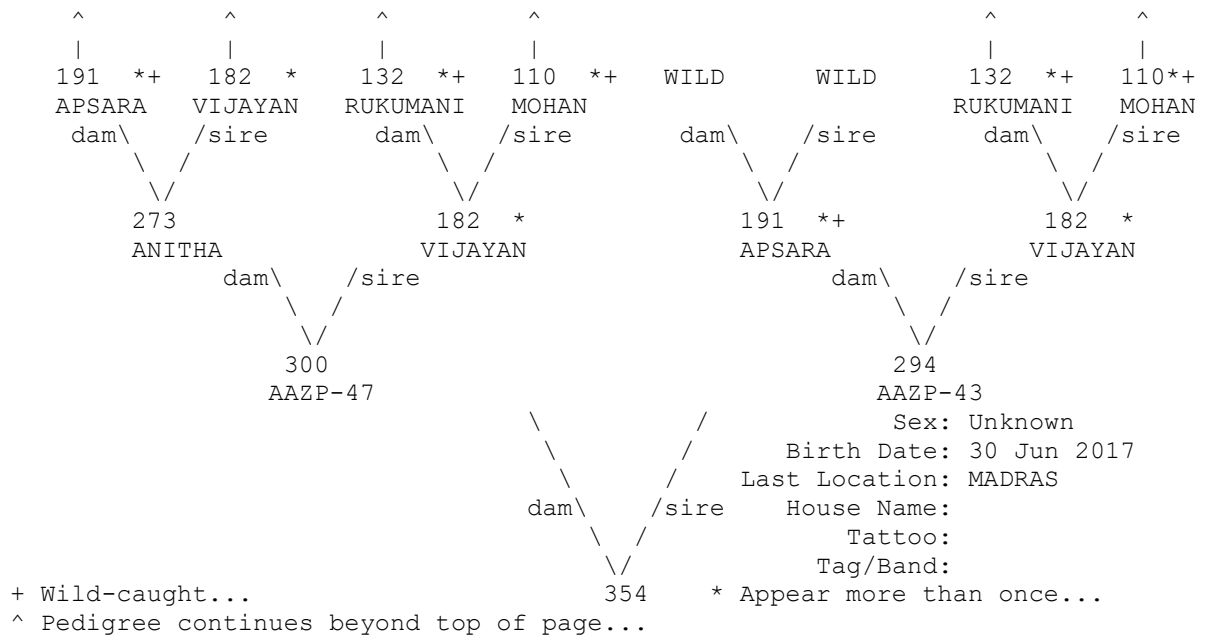
Taxon Name: MACACA SILENUS

Studbook Number: 353



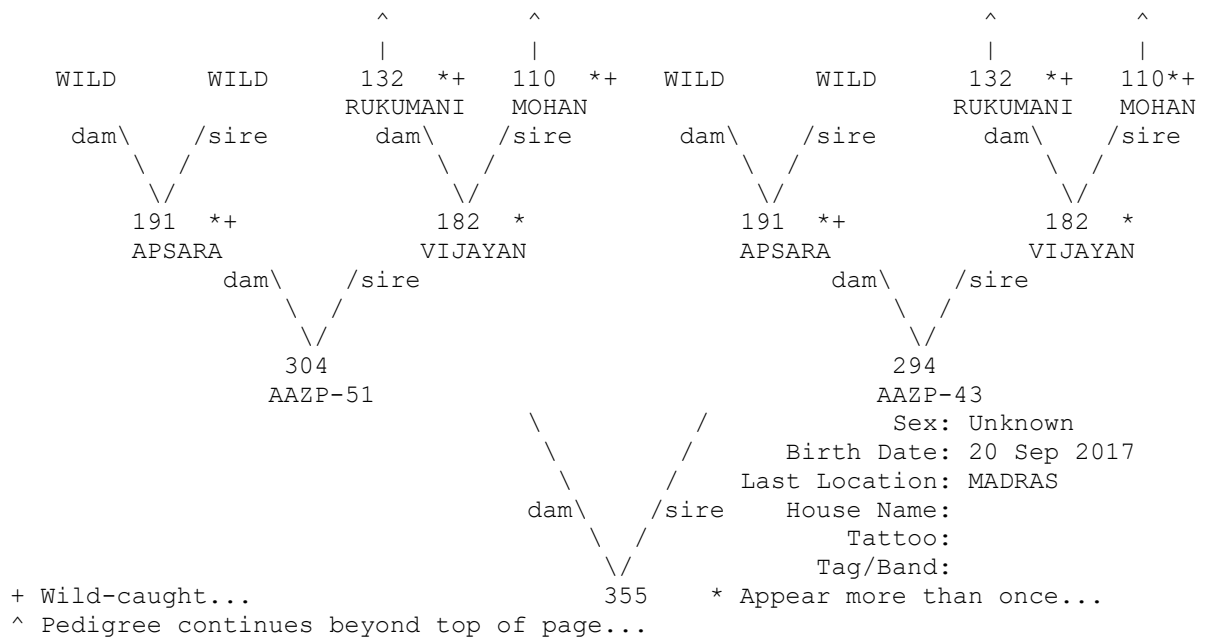
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Studbook Number: 354



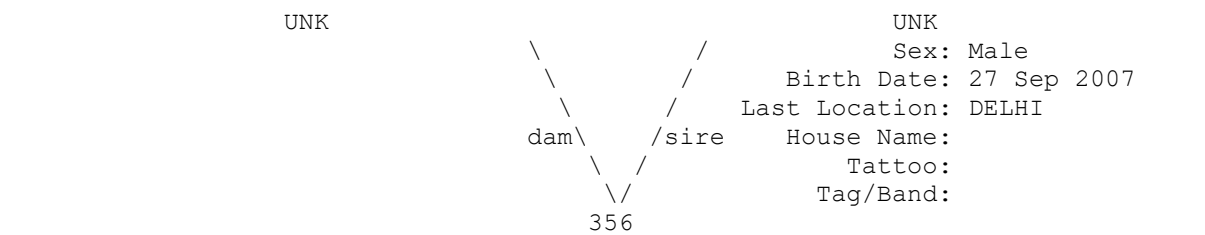
Taxon Name: MACACA SILENUS

Studbook Number: 355



Taxon Name: MACACA SILENUS

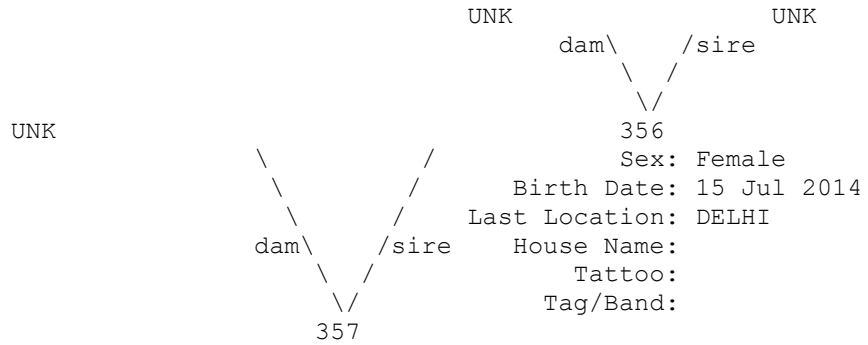
Studbook Number: 356



NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

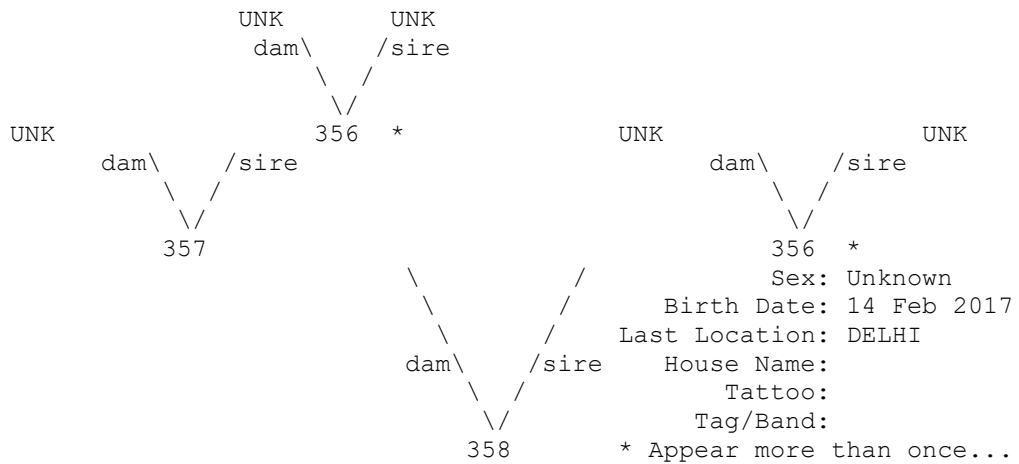
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Studbook Number: 357
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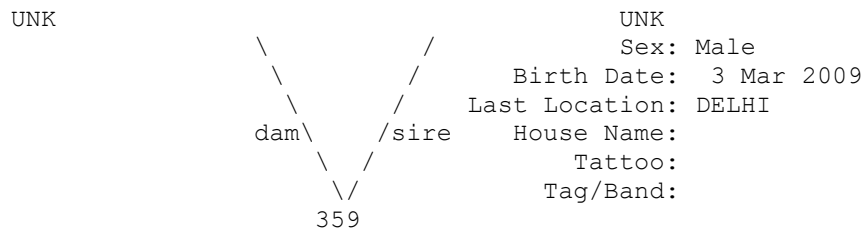
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 Taxon Name: MACACA SILENUS
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Studbook Number: 358
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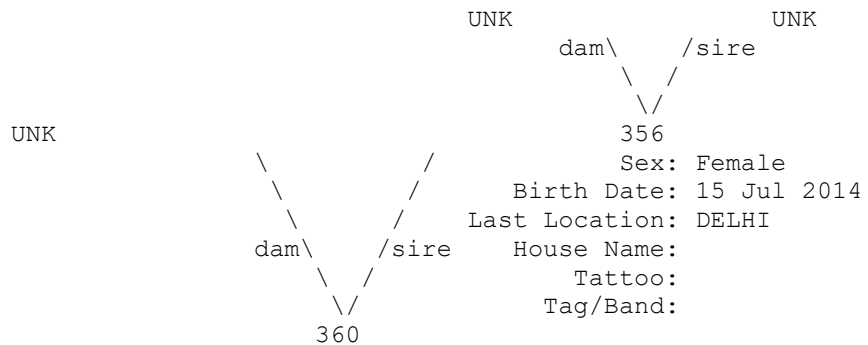
=====
 Taxon Name: MACACA SILENUS
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Studbook Number: 359
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 Taxon Name: MACACA SILENUS
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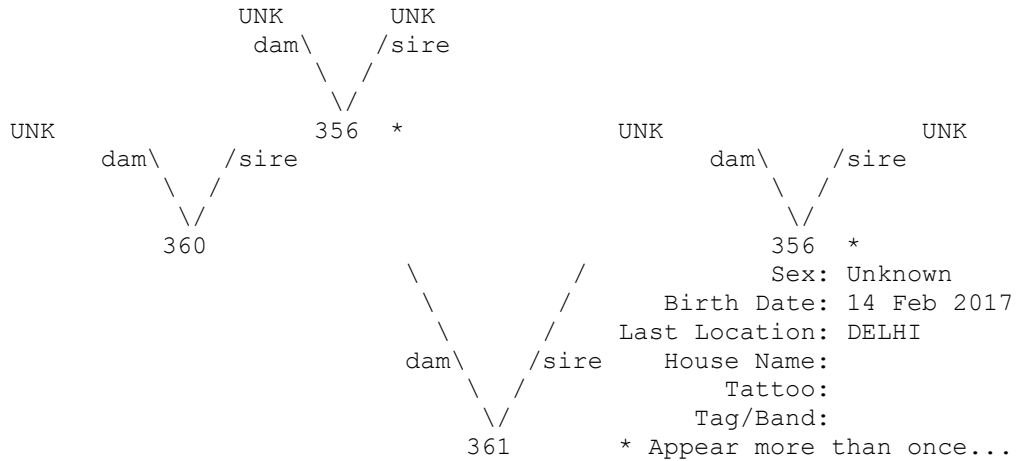
Studbook Number: 360
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NATIONAL STUDBOOK OF LION TAILED MACAQUE (*MACACA SILENUS*) – IV EDITION

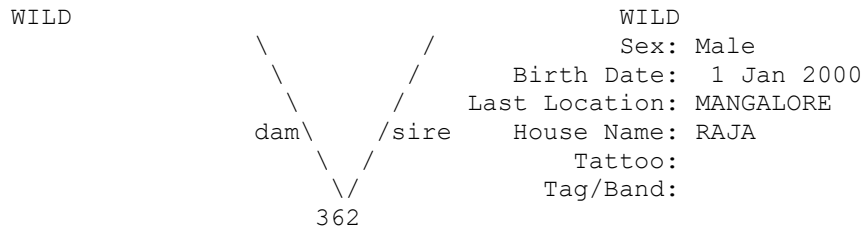
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Studbook Number: 361
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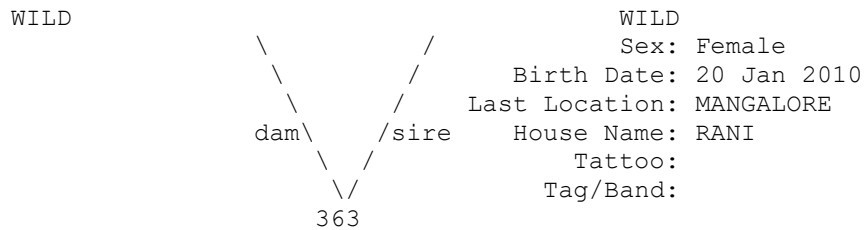
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Studbook Number: 362
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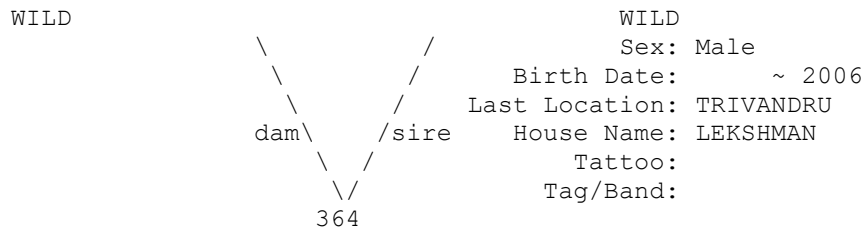
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 Taxon Name: MACACA SILENUS
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Studbook Number: 363
 =====



=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 364
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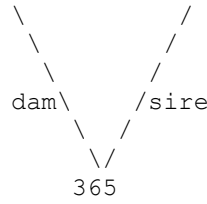


=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 365
 =====

WILD

WILD



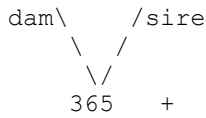
Sex: Female
 Birth Date: ~ 2007
 Last Location: TRIVANDRU
 House Name:
 Tattoo:
 Tag/Band:

=====
 Taxon Name: MACACA SILENUS
 =====

Studbook Number: 366
 =====

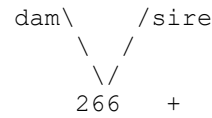
WILD

WILD



WILD

WILD



RAJESH
 Sex: Male
 Birth Date: 2 Apr 2013
 Last Location: TRIVANDRU
 House Name:
 Tattoo:
 Tag/Band:



+ Wild-caught...

Location Glossary

Mnemonic used	Location
ASSAM	Assam State Zoo cum Botanical Garden, Guwahati
BANNERGHA	Bannerghata Biological Park, Bengaluru
BHILAI	Maitri Bag Zoo, Bhilai
CALCUTTA	Alipore Zoological Garden, Kolkatta
CHATBIR Z	M.C. Zoological Park, Mohali
DELHI	National Zoological Park, New Delhi
GUINDY	Guindy Children's Park, Chennai
HYDERABAD	Nehru Zoological Park, Hyderabad
INDIA	Location of wild origin animals
JAIPUR	Jaipur Zoo, Jaipur
JODHPUR	Jodhpur Zoological Garden
KANPUR	Kanpur Zoological Park, Kanpur
KODANAD	Kodanadu Mini Zoo, Kodanadu
LUCKNOW	Nawab Wazid Ali Shah Zoological Garden, Lucknow
MADRAS	Arignar Anna Zoological Park, Chennai
MANGALORE	Dr. Sivaram Karanth Pilikula Biological Park Mangaloru
MYSORE	Sri Chamarajendra Zoological Garden, Mysuru
NANDANKAN	Nandankanan Biological Park, Bhubaneswar
PARASSINI	Parassinikkadavu Snake Park and Mini Zoo, Parassinikkadavu
PATNA	Sanjay Gandhi BiologicalPark, Patna
PUNE	Rajiv Gandhi Zool. Park and Research Centre, Pune
SHILLONG	Lady Hudari Park Zoo, Shillong
SHIMOGA	Lion and Tiger Safari, Shimoga
TRICHUR	State Museum and Zoo, Thrissur
TRIVANDRU	Thiruvananthapuram Zoo, Thiruvananthapuram
VADODARA	Sri Sayaji Baug Zoo, Vadodara
VEERMATA	Veermata Jijabai Bhosle Udyan, Mumbai
VOC PKZOO	V.O.C. Park Zoo, Coimbatore