

National Studbooks of *Gyps* Vultures

Gyps bengalensis

Gyps indicus

Gyps tenuirostris

[Component of Project titled “Development and maintenance of studbooks for selected endangered species in Indian zoos” awarded to the Wildlife Institute of India by Central Zoo Authority]

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FOREWORD

Drastic declines in populations of White-rumped vulture (*Gyps bengalensis*), Long-billed vulture (*Gyps indicus*), Slender-billed vulture (*Gyps tenuirostris*), Red-headed vulture (*Sarcogyps calvus*), and the Egyptian vulture (*Neophron percnopterus*) have been reported in the last two decades across the Indian subcontinent. Measures such as banning of veterinary use of drug diclofenac (one of the factors responsible for vulture decline) as well as *ex-situ* conservation programs are in place to support their conservation. Central Zoo Authority (CZA) in collaboration with the Indian zoos have initiated the *ex situ* programs primarily aimed at White-rumped Vulture (*Gyps bengalensis*), Long-billed Vulture (*Gyps indicus*) and Slender-billed Vulture (*Gyps tenuirostris*). Intensive *ex-situ* conservation efforts are required to ensure their long-term survival so that the population is genetically viable and demographically stable.

Pedigree information contained in studbooks forms the basis for scientific management. As a part of this endeavour, the Wildlife Institute of India has initiated compilation of studbooks of White-rumped vulture (*Gyps bengalensis*), Long-billed Vulture (*Gyps indicus*) and Slender-billed Vulture (*Gyps tenuirostris*) held in Indian zoos. The document provides the detailed information of the populations held in captivity including their species biology, status, threats, demography and genetic analysis and recommendations for long-term management in captivity. The holding institutions may adopt these recommendations and keep the WII informed of changes in their populations on a regular basis to enable the timely update of the studbook.

(Dr. D.N. Singh, I.F.S.)
Member Secretary
Central Zoo Authority

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Authors

CONTENTS

Species Biology	1
Species Accounts	2
Threats	9
Status in Captivity	10
Methods	10
Scope of the Studbook	11
Species Summary in Captivity	12
White-rumped vulture (<i>Gyps bengalensis</i>)	12
Demography	12
Genetic Status	14
Long-billed vulture (<i>Gyps indicus</i>)	15
Demography	15
Genetic Status	16
Slender-billed vulture (<i>Gyps tenuirostris</i>)	17
Demography	17
Genetic Status	17
Conclusions	19
Recommendations	19
References	20
Annexure I - Historical population of White-rumped vulture (<i>Gyps bengalensis</i>) in Indian zoos	23
Annexure II - Living population of White-rumped vulture (<i>Gyps bengalensis</i>) in Indian zoos	31
Annexure III - Pedigree Chart Report of White-rumped vulture (<i>Gyps bengalensis</i>) in Indian Zoos	40
Annexure IV - Historical population of Long-billed vulture (<i>Gyps indicus</i>) in Indian zoos	78
Annexure V - Pedigree Charts of Long-billed vulture (<i>Gyps indicus</i>)	83
Annexure VI - Population of Slender-billed vulture (<i>Gyps tenuirostris</i>) in Indian Zoos	109
Annexure VII - Pedigree Charts of Slender-billed vulture (<i>Gyps tenuirostris</i>) in Indian Zoos	111
Annexure VIII - Location Glossary for vultures (<i>Gyps spp.</i>) in Indian Zoos	117

SPECIES BIOLOGY

White-rumped vulture (*Gyps bengalensis*)

Long-billed vulture (*Gyps indicus*)

Slender-billed vulture (*Gyps tenuirostris*)

Vultures belong to the order Accipitriformes and are placed in the family Accipitridae that includes buzzards, eagles, harriers, hawks, kites and Old World vultures. India is home to nine species of vultures of which four are critically endangered species. These include the White-rumped vulture (*Gyps bengalensis*), Long-billed vulture (*Gyps indicus*), Slender-billed vulture (*Gyps tenuirostris*) and Red-headed vulture (*Sarcogyps calvus*)

The Egyptian vulture (*Neophron percnopterus*) falls under endangered species; the Cinereous vulture (*Aegypius monachus*), Bearded vulture (*Gypaetus barbatus*), Himalayan Griffon (*Gyps himalayensis*) are near threatened species, and the Griffon Vulture (*Gyps fulvus*) fall under the category of least concern (Birdlife International 2016). *Ex-situ* conservation efforts have been initiated for critically endangered White-rumped vulture, Slender-billed vulture and Long-billed vulture.

Taxonomy

Phylum : Chordata
Class : Aves
Order : Accipitriformes
Family : Accipitridae
Genus : *Gyps*
Species : *G. bengalensis* (Gmelin, 1788)
G. indicus (Scopoli, 1786)
G. tenuirostris (Gray, 1844)



Mixed flock of White rumped and Long billed vultures

Traditional taxonomy places diurnal raptors into five families, namely Accipitridae, Pandionidae, Sagittariidae, Falconidae and Cathartidae, in a common order: Falconiformes or Accipitriformes (del Hoyo *et al.* 1994). The family Accipitridae includes the old world vultures while Cathartidae includes the new world vultures. Phylogeny based on behavioural patterns and analyses of mitochondrial cytochrome b gene; however, indicate that new world vultures or cathartids to be closely related to storks than to vultures (Seibold, 1995). The phylogeny of old world vultures was further elucidated using Nuclear and mitochondrial DNA analyses that revealed the presence of two distinct clades viz. the *Neophron* – *Gypaetus* and the *Gyps* – *Aegypius* support for two separate subfamilies of different evolutionary origin: The *Gypaetinae* is the earlier diverging group and its constituent taxa (including *Gypohierax*, *Gypaetus*, *Eutriorchis*, and *Neophron*) (Lerner and Mindell, 2005).

Phylogenetic studies using mitochondrial cytb, ND2 and control region sequence data further, indicate the rapid diversification within the genus *Gyps*. during its recent evolutionary history with the first species to diverge being the White-rumped vulture. Additionally, the analyses supported the separation of Long-billed vulture (*G. indicus indicus*) and Slender-billed vulture (*G. i. tenuirostris*) as two distinct

species; *G. indicus* and *G. tenuirostris* respectively. The same has been further supported by morphometric studies (Johnson, *et al.* 2006).

Foraging

All three species have a gorge and fast feeding strategy (Naoroji, 2006) due to scattered availability of carrion. Communal roosting has a critical role in information transfer as birds monitor the movement of each other during flight. The first bird to descend is closely followed by the others to the feeding site (Dermody *et al.* 2011). Jackson and others (2008) based on studies carried out on African *Gyps* vultures suggested that the foraging efficiency of the vulture population drops rapidly towards zero below a threshold density. They also suggested that management strategies should also address the issue in reintroduction programmes in order to maintain effective foraging densities.



Gyps indicus feeding on buffalo carcass

Activity Patterns and Flight

The birds become active after three or more hours of sunrise to allow for the formation of thermals and return to roosting sites late in the afternoon usually two hours before dusk (Naoroji 2006). Soaring is indefinitely delayed in inclement weather until the thermals are formed. The birds remain in the air, soaring looking for carcasses. On locating a carcass, the first bird to sight starts descent with other birds taking a cue that following the bird (Naoroji 2006).



Long-billed vulture in flight

Species Accounts

Description




Table 1: Morphometric attributes of vultures (*G. bengalensis*, *G. indicus* and *G. tenuirostris*)

Attributes	Dimensions		
	Species		
	White-rumped vulture <i>G. bengalensis</i>	Long-billed vulture <i>G. indicus</i>	Slender-billed vulture <i>G. tenuirostris</i>
Length	75 – 85 cm	81 – 103 cm	77–103 cm
Wingspan	192 – 213 cm	196 – 258 cm	196–258 cm
Wing	53.5 – 60.8 cm	56 – 65 cm	59 – 63 cm
Tail	22 – 24 cm	24 – 31 c m	23.7 – 25.6 cm
Tarsus	9.0 – 12.4 cm	9.0 – 9.4 cm	c. 11.0 cm
Weight	3.5 – 5.7 kg	5.5 – 6.3 kg	--

Sources: (Ali and Ripley, 1978; Ferguson-Lees and Christie 2005; Naoroji 2006; Clark, *et al.* 2017; del Hoyo, *et al.* 2017)

They are medium sized vultures living close to human habitation and are characterized by their perching posture, with the neck and head withdrawn into their shoulders that gives them a humped appearance. They are monomorphic in appearance necessitating the use of molecular genetics tools for gender identification (Reddy, *et al.* 2007; Ghorpade, *et al.* 2012). The physical description of *G. bengalensis*, *G. indicus* and *G. tenuirostris* are summarized in table 2.

Table 2: Characters for identification of vultures (*G. bengalensis*, *G. indicus* and *G. tenuirostris*)

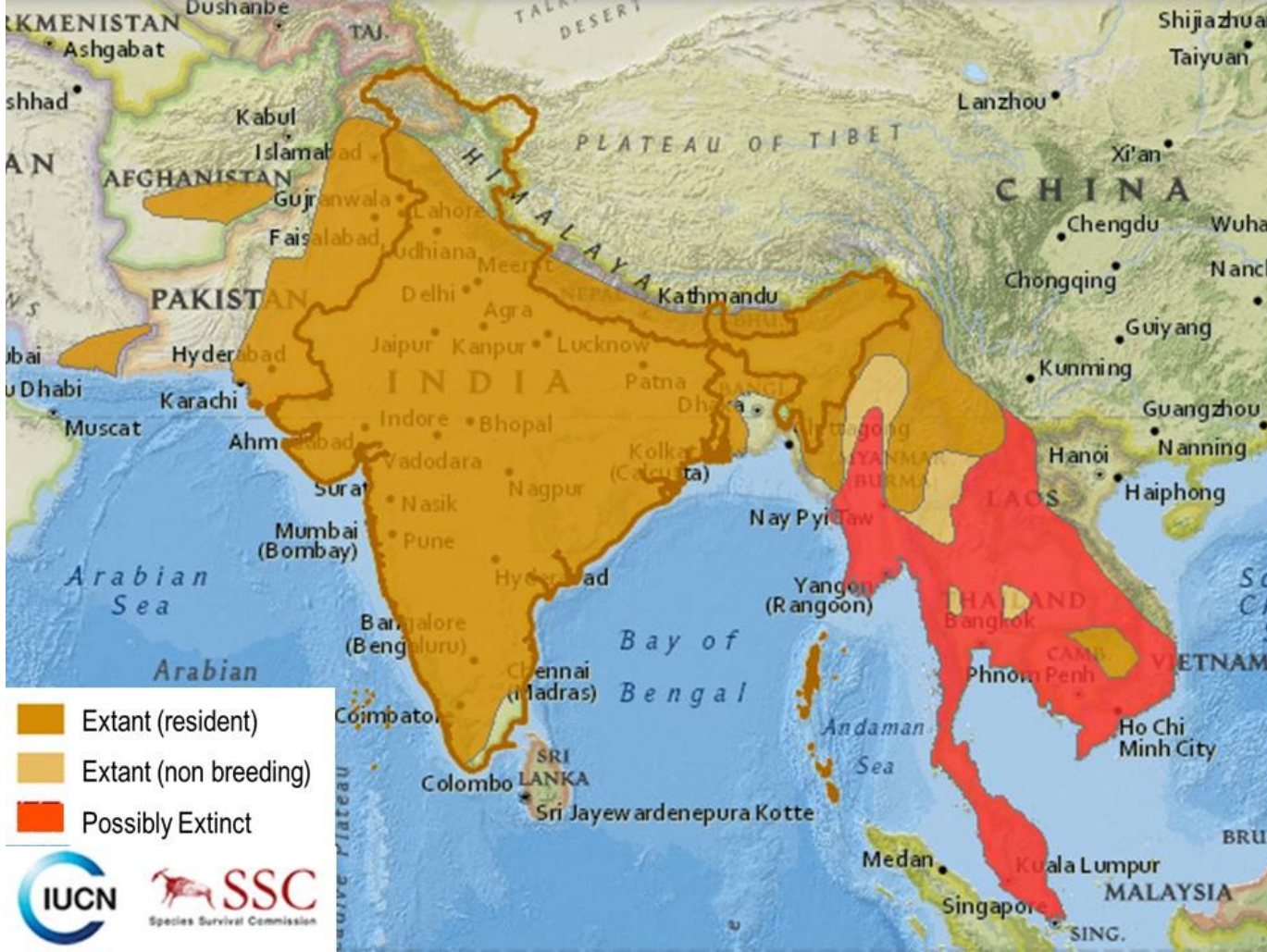
Attributes	Description		
	White-rumped vulture <i>Gyps bengalensis</i>	Long-billed vulture <i>Gyps indicus</i>	Slender-billed vulture <i>Gyps tenuirostris</i>
			
General description	They are medium sized vultures living close to human habitation characterized by their perching posture, with the neck and head withdrawn into their shoulders that gives them a humped appearance.	They are larger than white-rumped vultures and characterized by their naked dark-grey to grey-brown heads with a sparse covering of white down on their necks.	The species is marginally larger than <i>G. indicus</i> . The nostrils are less elongated with the head being longer and thinner than <i>G. indicus</i> .
Sexual dimorphism	Absent	Absent	Absent
Head	Naked, skin on head pink or maroon	Naked dark-grey to grey-brown. Measures (12.6–13.1 cm)	Darker in comparison to <i>G. indicus</i> . Crown covered with yellow bristles. Measures (13.5–14.5 cm)


Attributes	Description		
	White-rumped vulture <i>Gyps bengalensis</i>	Long-billed vulture <i>Gyps indicus</i>	Slender-billed vulture <i>Gyps tenuirostris</i>
Neck	Sparsely covered with light yellow-brown coloured down feathers. Base of neck covered with white ruff.	Sparsely covered with white down. Base of the neck covered with yellow-brown coloured ruff.	Completely naked and black, isolated tufts of down feathers on nape and the side of grizzled neck. Ruff darker in colour than <i>G. indicus</i> .
Crop patch	Dark grey encircled by white down feathers	Light shade of brown, surrounded by white down feathers	Bare, black in colour.
Eyes	Dark brown	Brown	Black
Beak	Upper mandible black, lower mandible dark shade of grey, Cere greyish-black and the bill is a shiny shade of light blue.	Bill light yellow, thinner and longer than that of <i>G. bengalensis</i> . Cere shades of green and grey	Bill black, thinner and longer than <i>G. indicus</i> . Cere black
Legs and feet	Greyish black with dark grey claws.	Blackish grey with yellow claws.	Longer than <i>G. indicus</i> and covered with white down. Claws are dark grey to black in colour.
Plumage	Dark brown to black	Dark brown (lighter than <i>G. bengalensis</i>)	Darker than <i>G. indicus</i> .
Back, upper wing coverts, outer primaries and tail	Shiny dark grey	Back: White with a mottled appearance Upperwing coverts: light brown with edges lighter in colour with a yellow tinge Outer primaries: Dark grey tending to black Tail: Upper part dark brown, lower lighter in colour	Back: Dark brown (darker than <i>G. indicus</i>) Upperwing coverts: Dark brown Outer primaries: Dark brown to black in colour
Secondaries and inner primaries	Light shade of shiny grey-brown.	Secondaries: Sepia tinged, edges and tips broad cream coloured	Dark blackish brown, edges and tips narrow dirty white coloured
Rump and upper tail coverts	Rump and upper-tail coverts: White	Rump and upper-tail coverts: White with a mottled appearance.	Rump and upper-tail coverts: Uniform grey-brown with a less mottled appearance.


Attributes	Description		
	White-rumped vulture <i>Gyps bengalensis</i>	Long-billed vulture <i>Gyps indicus</i>	Slender-billed vulture <i>Gyps tenuirostris</i>
Greater underwing coverts	Dark brown	Colour varies, but is always lighter with variable dark spots as compared to <i>G. tenuirostris</i>	Uniform shade of grey brown with coverts of darker shade as compared to <i>G. indicus</i> .
Median underwing coverts and axillaries	Form a prominent white band on the underwing	Light brown in colour	Uniform shade of grey brown with coverts of darker shade.
Juveniles	Brown and much lighter in colour than adult birds.	Darker in colouration than adults with the crown and necks completely covered with down feathers	Characterized by their longer, thinner and black necks and beaks. Beaks may have a lighter colour line on top.
Adult plumage	4 – 5 years	4 – 5 years	4 – 5 years

Sources: (Ali and Ripley, 1978; Rasmussen, *et al.* 2001; Naoroji, R. 2006 and BirdLife International 2001)

Table 3: Distribution of vultures (*G. bengalensis*, *G. indicus* and *G. tenuirostris*)

Species	Distribution range	Distribution map
<i>Gyps bengalensis</i> (White-rumped vulture)	The species has a distribution range extending from Pakistan in the west to southern Vietnam in the east. It has also been reported from south-east Afghanistan and Iran. It is believed to be extinct from large parts of its historic range east of Burma (BirdLife International. 2016a).	 <p>Map source: BirdLife International. 2016</p>

Species	Distribution range	Distribution map
<i>Gyps indicus</i> (Long-billed vulture)	Extends from the Indo-Gangetic plains in the north to peninsular India in the south; however, it is not reported from most of Tamil Nadu. The western limit of the species is Sindh in Pakistan while the eastern limit is West Bengal in India. (BirdLife International. 2016b).	 <p>Map source: BirdLife International. 2016</p>

Species	Distribution range	Distribution map
<i>Gyps tenuirostris</i> (Slender-billed vulture)	<p>The species inhabits the Ganga – Brahmaputra basin in India and parts of Mynmar and Cambodia. It is believed to be locally extinct across a large part of its range in south and south-east Asia. (BirdLife International 2016c).</p>	 <p>Map source: BirdLife International. 2016</p>

Ecology:

All three species inhabit habitat types ranging from evergreen to dry-deciduous to semi-arid. They are colonial in nature, roosting communally and have varied group size depending on the species (BirdLife International 2016 a, b, & c). *Gyps bengalensis* and *G. indicus* have been reported in large numbers from areas with abundant food supply i.e. close to carcass dumping sites, slaughter houses and garbage dumping sites (BirdLife International 2016 a, b & c) whereas *G. tenuirostris* inhabits open or

forested areas away from human settlements. The preferred roosting and nesting sites of *Gyps bengalensis* and *G. tenuirostris* include tall branching trees and electricity pylons, (Naoroji, 2006) whereas *G. indicus* roost and nest on rocky cliffs (BirdLife International 2016 b).



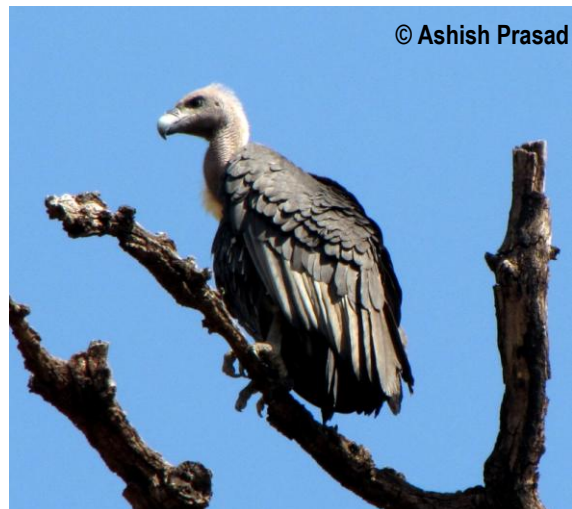
White-rumped vultures roosting

Breeding:

Colonial nesting on tree tops at traditionally used sites in tree-tops 2–18 m high near human settlements has been reported (Ali and Ripley 1978, Sarker 1987, Grimmett et al. 1998). In areas lacking suitable nesting trees they may nest on rocky cliffs especially in desert and semi-desert areas (Naoroji, 2006).

Courtship flights precede mating and include mutual circling. Mating takes place on the nest or in its close proximity. The male mounts the female with its wings flapping to balance itself while the female flattens itself on the perch with its neck stiffly

stretched forward and utters harsh screams. The nest is a large untidy platform of twigs with a shallow central depression lined with green leaves. The nests built in the canopy increases in size as the egg hatches and the body mass of the chick increases. A single thick-shelled egg is incubated for a period of 45 days and parental care is provided by both sexes. The parents regurgitate pieces of meat to feed the chicks.



White-rumped vulture roosting

Prakash, (1999) reported peak breeding seasons from March–April from Keoladeo National Park, Rajasthan (Prakash 1999) with a clutch-size of one (Sharma 1970). The incubation period is estimated as 45–52 days (Brown and Amadon 1968; Sarker and Iqbal 1997; BirdLife International. (2001), and chicks remain in the nest for 2–3 months (Brown and Amadon 1968).

Threats:

Various factors such as decline in availability of carrion, carcass poisoning, pesticide poisoning are attributed as the cause of decline of the three species; however, diclofenac a non-steroidal anti-

inflammatory drug was identified as the causal factor (Green *et al.* 2004, Oaks *et al.* 2004a, Shultz *et al.* 2004; Gilbert *et al.* 2006; Cuthbert, *et al.* 2011). The role of diclofenac in vulture declines is further corroborated by recovery of vulture populations in areas where diclofenac use has been banned and substituted by meloxicam, a drug that does not induce gout in vultures (Swarup, *et al.* 2007; BirdLife International, 2008; Prakash, *et al.* 2012). Drastic declines are reported for the three species (Prakash *et al.*, 2003). Based on the declines in population size, all the three species are listed as critically endangered by BirdLife International (2016) and in Schedule I of the Wildlife Protection Act.

Status in Captivity

The three species of vultures (*G. bengalensis*, *G. indicus* and *G. tenuirostris*) are critically endangered and are maintained in *ex-situ* facilities primarily in India, with only 17 specimens of *G. bengalensis* and one of *G. indicus* reported in Institutions outside India in the Asian region. *G. tenuirostris* is not housed in any institution outside the country. A perusal of table 4 reveals that while *G. bengalensis* and *G. indicus* have a living population of 161 and 117 respectively *G. tenuirostris* has only 27 specimens. It also suggests that for a large proportion of the birds' gender is as yet undetermined.

Table 4: Status of Vultures (*G. bengalensis*, *G. indicus* and *G. tenuirostris*) in captivity

Species	Species 360					CZA inventory (2015 – 2016)					Studbook (living)				
	# Inst.	M	F	U	T	# Inst.	M	F	U	T	# Inst.	M	F	U	T
<i>G. bengalensis</i> (Global)	10	17	16	147	180	--	--	--	--	--	--	--	--	--	--
<i>G. bengalensis</i> (India)	7	13	16	137	163	7	15	17	112	144	5	14	12	135	161
<i>G. indicus</i> (Global)	5	10	18	86	114	--	--	--	--	--	--	--	--	--	--
<i>G. indicus</i> (India)	4	10	18	85	113	3	2	17	88	121	5	16	18	83	117
<i>G. tenuirostris</i> (India)	1	3	5	19	27	1	5	5	5	32	1	5	5	17	27

Methods

Data on individual history was collected by means of questionnaires, zoo visits and from the websites of CZA and from species taxon report from Species360 website. Questionnaires were also sent to the institutions housing vultures (*G. bengalensis*, *G. indicus* and *G. tenuirostris*) 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.

Pedigree information from the following institutions has been collected through mailed questionnaires/ field visits.

Arignar Anna Zoological Park, Vandalur, Chennai
 Kamla Nehru Zoological Garden, Ahmedabad
 Nandankanan Biological Park, Bhubaneswar
 Nehru Zoological Park, Hyderabad
 Rajiv Gandhi Zoological Park & Wildlife Research Centre, Pune
 Ramnabagan Mini Zoo, Burdwan
 Sakkarbaug Zoo, Junagadh
 Sepahijala Zoological Park, Sepahijala
 Lady Hydari Park Animal Land (Meghalaya Zoo), Shillong

Information from Vulture Conservation Breeding Centre, Pinjore was obtained from Taxon reports from the Species360 website and the CZA inventory as no information was received from the Centre whereas information for Sajjangerh Biological Park (Udaipur Zoo) was retrieved from the CZA inventory. This has resulted in differences in the number of birds reported in the CZA inventory and the species listings in the respective studbooks.

In addition to the above three additional centres namely Vulture Conservation Breeding Centres at Rani, Assam; Rajabhatkhawa, West Bengal and Bhopal Madhya Pradesh are being managed by Bombay Natural History Society (Source: http://bnhs.org/bnhs/index.php?option=com_content&view=article&id=135&Itemid=522); however, records of the same are not available from the websites of CZA and the taxon reports of Species360.

Scope of the Studbook

- The studbook includes all specimens present in India for whom records were made available by holding institutions and assessed from species taxon report from Species360 website. It also includes information on specimens for which relevant records were not made available by holding institutions. Records for the same were obtained from taxon reports of each species downloaded from Species360 website.
- Records of groups reported in the Taxon report were not included in the SPARKS database as lack of individual identification limits assigning of unique ids to specimens and assessing events during the life of individual specimens.
- The mnemonics present in the SPARKS software were used for individual institutions and the same are listed in the location glossary (Annexure VIII). The mnemonic, India was used for all specimens acquired from the wild for whom location was uncertain while for specimens obtained by way of rescue from various locations in Gujarat the mnemonic Gujarat was used.
- Specific locations wherever available have been included in the comments column of the historical listing of respective species.
- Inventory of animals maintained by CZA (<http://cza.nic.in/inventory.html>) and the taxon reports from Species360 website were used as benchmarks for population estimates and deviations from the same are based on movement records made available by both the donor as well as the recipient institution.
- Pairing recommendations are not included in the studbooks as large part of the populations of the three species (*G. bengalensis*, *G. indicus* and *G. tenuirostris*) are wild origin birds leading to the populations retaining high levels of genetic diversity that allow for multiple pairing options. Additionally the gender of a large number of birds remains to be determined.

Species Summary in Captivity

White-rumped vulture (*Gyps bengalensis*)

Demography

Historical population

The captive population of white-rumped vultures in India comprises of a total of 169 (15.15.139) specimens housed at five institutions (Table 5). This includes 127 (13.11.103) wild origin and 31(1.1.29) captive hatch specimens besides three of unknown origin specimens. Despite the presence of a large number of wild origin birds' reproductive performance has been limited to only 20 (10.10) specimens. Death of eight birds (1.3.4) has been reported in the captive population.

Table 5: Historical population of *Gyps bengalensis*

	Males	Females	Unsexed	Total
Studbook size	15	15	139	169
Acquisitions from wild	13	11	103	127
Captive hatches	1	1	29	31
Unknown origin individuals	0	0	3	3
Deaths	1	3	4	8
Breeding individuals	10	10	0	20

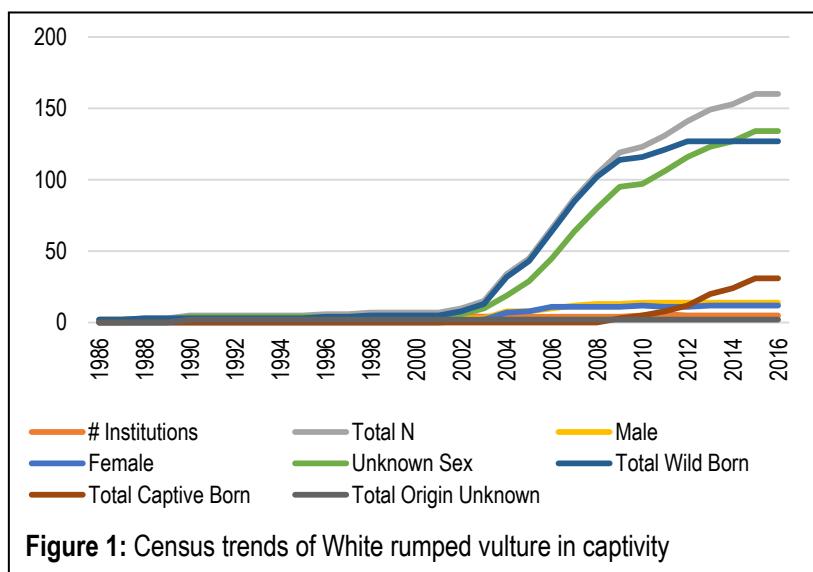
In addition to the above records of white-rumped vultures were available from two additional locations namely Kamla Nehru Zoological Garden, Ahmedabad and Nehru Zoological Park, Hyderabad. The information could not be recorded in the SPARKS database as information on individual life history events was not available due to lack of individual bird identification. Details of the same are provided below in table 5(a).

Table 5(a): Details of specimens excluded from SPARKS database

Location	Year	Acquisitions	Deaths	Males	Females	Unsexed	Total
Ahmedabad	1982	0.0.6	0	0	0	6	6
Ahmedabad	1990	0.0.3	0	0	0	9	9
Ahmedabad	1996	0.0.0	0.0.1	0	0	8	8
Ahmedabad	2000	0.0.0	0.0.1	0	0	7	7
Ahmedabad	2001	0.0.0	0.0.2	0	0	5	5
Ahmedabad	2007	0.0.6	0.0.0	0	0	6	11
Ahmedabad	2012	0.0.1	0.0.1	0	0	11	11
Ahmedabad	2013	0.0.0	0.0.1	0	0	10	10
Hyderabad	1989	0.0.5	0.0.0	0	0	5	5
Hyderabad	Taxon report indicates transfer of specimens from Hyderabad to Junagadh; however, the receipt of specimens in the collection in Junagadh is not reflected in both the records made available by Junagadh and from the taxon report.						

Census trends

According to available record, the white-rumped vulture have been maintained in captivity since 1986 at Arignar Anna Zoological Garden housing two (0.0.2) wild origin birds primarily for exhibition purposes. A few birds were present in captivity until 2003; however, the rapid decline in free ranging populations of the species led to creation of a dedicated facility (VCBC, Pinjore) for its *ex-situ*



conservation. Collection of wild origin specimens was initiated 2002 and 130 (13.11.106) birds were included. The first hatch was recorded in 2009 and since then 31(1.1.29) chicks have hatched in captivity (Figure 1). Census trends of the captive population indicate limited recruitment by way of hatches in captivity with population growth being largely due to inclusion of wild origin specimens.

Living population

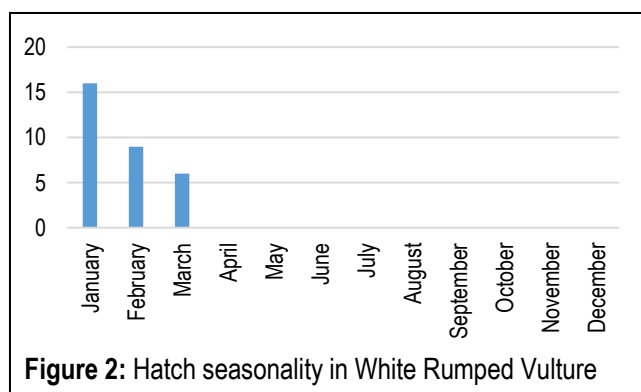
The living population of the species includes 161 (14.12.135) specimens of which 126 (13.11.102) are of wild origin and three of unknown sex and origin, while the remaining 31 (1.1.29) birds were hatched in captivity. The birds that have reproduced earlier continue to survive. A cause of concern for the population is the presence of a large proportion of unsexed specimens.

Table 6: Living population of *Gyps bengalensis*

	Males	Females	Unsexed	Total
Living individuals	14	12	135	161
Wild-born individuals	13	11	102	126
Unknown origin specimens	0	0	3	3
Captive-born individuals	1	1	29	31
Breeding individuals	10	10	0	20

Hatch Seasonality

Peak hatching had been observed in January with a decline thereafter and no hatches were reported subsequent to March. Hatch seasonality indicates that reproductive activity in the birds starts during mid-winter to end of winter with hatching of chicks during late winter or early summer.



Genetic Status

The population includes 126 (13.11.102) wild origin birds; however only 20 (10.10) have contributed their genes to population. The large number of wild origin specimens and limited hatches and short time in captivity have contributed towards the population retaining approximately 96% of the genetic diversity sampled. Over-representation of a few birds in the captive population has resulted in the population retaining genetic diversity of approximately 12 birds. The population has a limited number of generations in captivity, this has led to the population showing low levels of relatedness between specimens and having a mean inbreeding coefficient of 0.000.

Table 7: Genetic Summary of *Gyps bengalensis*

Genetic Variable	Value
Founders	20
Living Animals	161
Living Descendants	31.00
Percent Pedigree Known	99%
Gene Diversity	0.9573
Founder Genome Equivalents	11.72
Mean Inbreeding	0.0000
Ne/N	0.0000

Pairing recommendations

Pairing recommendations for *G. bengalensis* have been excluded from the current edition of the studbook as a large proportion (approximately 75%) of the birds are of wild origin and the gender of 83% of specimens is unknown.

Population targets

Simulations using PMx to determine population management goals were carried out. The same have however been excluded from the current edition of the studbook as limited information on life history events of individual specimens and the gender of approximately 83% of the population remains unknown. These factors limit the accuracy of predictions therefore the same are excluded from this edition of the studbook.

Species Summary in Captivity

Long-billed vulture (*Gyps indicus*)

Demography

Historical population

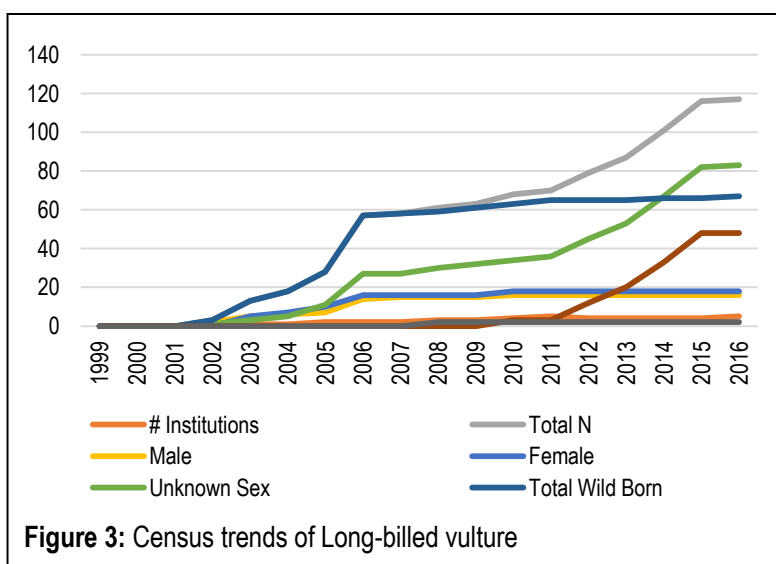
The historical population of long-billed vulture housed in four Indian institutions comprises of 119 (16.18.85) specimens, this includes 69 (15.16.38) wild origin birds. The population has 48 (1.2.45) birds hatched in captivity and two specimens of unknown origin. A specimen was lost to follow up and another to mortality. Reproductive output has been limited to 30 (15.15) wild origin birds while the remaining 39 (1.3.38) birds are yet to contribute their genes to the population.

Table 8: Historical population of *Gyps indicus*

	Males	Females	Unsexed	Total
Studbook size	16	18	85	119
Acquisitions from wild	15	16	38	69
Total number of captive hatches	1	2	45	48
Total number of unknown origin individuals	0	0	2	2
Total number of deaths	0	0	1	0
Lost to follow up	0	0	1	1
Total number of breeding individuals	15	15	0	30

Census Trends

The captive population of the species was initiated in 2002 with the inclusion of three birds in 2002 at Vulture Conservation Breeding Centre, Pinjore. Subsequently additional birds of wild origin were added to the population to initiate viable colonies. The first hatch in captivity occurred in 2010 and subsequent hatches have contributed significantly to the growth of the captive population with captive origin specimens forming approximately 40% of the population. A major cause of concern however remains the presence of large number of birds of unknown gender (approximately 70% of the population).



Living population

The population of long-billed vulture in captivity has witnessed the mortality of only two birds of unknown gender in its captive history, therefore a separate listing of living birds has not been provided as other details of the population remain the same as the historical population.

Table 9: Living population of *Gyps indicus* in Indian zoos

	Males	Females	Unsexed	Total
Living individuals	16	18	83	117
Wild-born individuals	15	16	38	69
Unknown origin specimens	0	0	2	2
Captive-born individuals	1	2	45	48
Breeding individuals	15	15	0	30

Hatch Seasonality

The captive population shows high hatch rate during the months of January, February and March indicating that reproductive activity is primarily restricted to mid and late winter with chicks hatching during late winter and early summer.

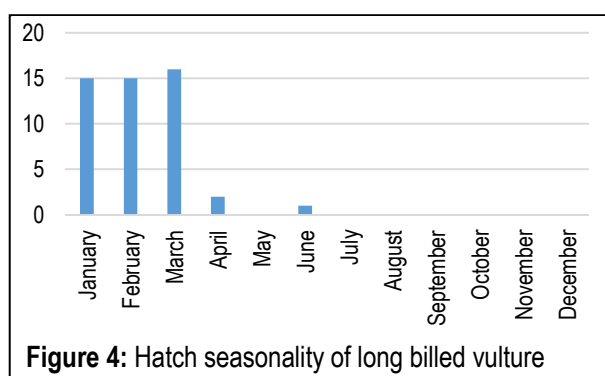


Figure 4: Hatch seasonality of long billed vulture

Genetic Status

The living population of the species includes 69 (15.16.38) of which 30 specimens have contributed their genes to the population. The 30 founder birds have 47 descendants in the population. The large founder base has resulted in the population retaining approximately 97% of the genetic diversity brought in by the founders; however, these are unequally represented in the population resulting in the genetic diversity of approximately 18 founders in the population. The presence of a large number of founders has resulted in minimizing loss of genetic diversity due to inbreeding.

Table 10 Genetic summary of *G. indicus*

Genetic Variables	Values
Founders	30
Living Animals	117
Living Descendants	47
Pedigree Known	97%
Gene Diversity	0.9731
Founder Genome Equivalents	18.56
Mean Inbreeding	0.0000

Pairing recommendations

Pairing recommendations for *G. indicus* have been excluded from the current edition of the studbook as a large proportion (approximately 58%) of the birds are of wild origin and the gender of approximately 71% of specimens is unknown.

Population targets

Simulations using PMx to determine population management goals were run the same have however been excluded from the current edition of the studbook as limited information on life history events of individual specimens and approximately the gender of a large proportion of the population remains unknown. These factors limit the accuracy of predictions therefore the same are excluded from this edition of the studbook.

Species Summary in Captivity

Slender-billed vulture (*Gyps tenuroistris*)

Demography

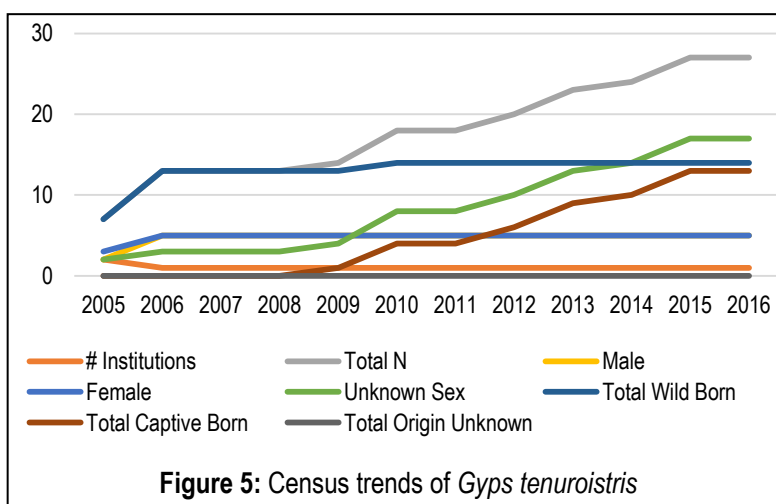
The captive population of the species comprises of 27 (5.5.17) of which 14 (5.5.4) are wild origin while 13 (0.0.13) are captive hatched specimens. The

population is maintained at Vulture Conservation Breeding Centre, Pinjore. The first seven wild origin birds entered captivity in 2007 and the first hatch in captivity was recorded in 2010. Subsequently additional 12 hatches in captivity have led to population growth. Captive hatched specimens form approximately 50% of the population. Of the 14 (5.5.4) wild origin specimens 10 (5.5.) are reproductively active. The

population has so far not reported any mortality event therefore separate details of the living population have not been provided.

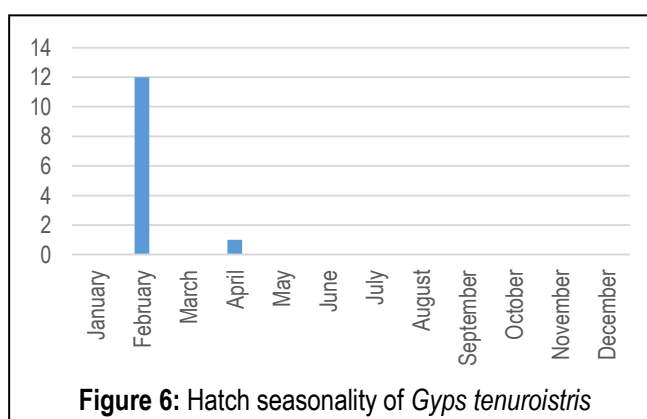
Table 11: Demographic summary of *Gyps tenuroistris*

	Males	Females	Unsexed	Total
Studbook size	5	5	17	27
Acquisitions from wild	5	5	4	14
Captive hatches	0	0	13	13
Breeding individuals	5	5	0	10



Hatch Seasonality

The population witnessed 12 captive hatches during February and a single hatch during April. The hatch season suggests that reproductive activity in the species is initiated during late winter and chicks hatch during spring. The lone hatch during April may be an outlier; however, the small sample size suggests that additional information may be allowed to occur before arriving at definitive conclusions.



Genetic Status

The captive population of the species includes 14 (5.5.4) wild origin specimens of which 10 (5.5) have contributed to the growth of the population. The population retains approximately 92% of the genetic diversity of these 10 effective founders; however, the founder genome is unequally represented with

Table 12 Genetic summary of *G. tenuroistris*

Genetic variables	values
Founders	10
Living Animals	27
Living Descendants	12
Percent Pedigree Known	96%
Gene Diversity	0.9184
Founder Genome Equivalents	6.13
Mean Inbreeding	0.0000

some individuals being overrepresented at the expense of other specimens'. The limited reproductive output and presence of only two generations in captivity has ensured the maintenance of genetic diversity leading to minimal inbreeding.

Pairing recommendations

Pairing recommendations for *G. tenuirostris* have been excluded from the current edition of the studbook as a large proportion (approximately 50%) of the birds are of wild origin and the gender of approximately 62% of specimens is unknown.

Population targets

Simulations using PMx to determine population management goals were run the same have however been excluded from the current edition of the studbook as the small sample size, limited information on life history events of individual specimens and the gender of a large proportion (62%) of the population remains unknown. These factors limit the accuracy of predictions therefore the same are excluded from this edition of the studbook.

Conclusions

The three species of vultures (*G. bengalensis*, *G. indicus* and *G. tenuirostris*) are listed as critically endangered in the 'IUCN Red List of Threatened Species (2016)' and in 'Schedule I' of the 'Wildlife Protection Act of India (1972)' due to the steep declines in their global populations. Restricting use of the drug Diclofenac for veterinary purposes has addressed the causal factors for the drastic declines; however, the population recovery till date is inadequate to ensure long-term persistence of the species. *Ex-situ* conservation efforts are therefore an integral part of the conservation strategy adopted ensure long persistence of the three species.

Analysis of the studbooks of the three species reveals the following:

1. For a majority of birds of all three species determination of gender remains to be carried out.
2. The populations of *G. indicus* and *G. tenuirostris* have a significant proportion of birds hatched in captivity; however, for *G. bengalensis* reproduction has been limited and wild origin birds continue to form a major portion of the population.
3. A major proportion of the reproductive output is reported from VCBC, Pinjore for all three species while Sakkarbaug Zoo, Junagadh also houses viable populations of *G. bengalensis* and *G. indicus* has a much reduced reproductive output.
4. A majority of the birds are of wild origin; however, relatedness between individuals is not known.

Recommendations

The issues flagged in the conclusions can be addressed by:

1. The species are monomorphic and determination of gender is possible using molecular methods. All new wild origin birds that enter captivity should be suitably marked and appropriate samples collected for determination of gender. Sampling of birds already in captivity may be opportunistically carried out as and when they are handled.
2. The housing and husbandry practices adopted for *G. bengalensis* need review and shortcomings if any, need to be addressed appropriately.
3. The housing and husbandry practices adopted at Sakkarbaug Zoo require reviewing by species experts.
4. Relatedness between individuals can be assessed by using appropriate molecular genetics analyses of biological samples collected for determination of gender.

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Historical population of White-rumped vulture (*Gyps bengalensis*) in Indian zoos

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
1 200001	?	????	WILD	WILD	INDIA MADRAS	~20 Oct 1986 30-Nov-86 26-Oct-11	Capture Transfer Death	
2 200002	?	????	WILD	WILD	INDIA MADRAS	~20 Nov 1986 30-Nov-86 03-Jun-10	Capture Transfer Death	
3 10460	?	????	UNK	UNK	JUNAGADH	~ Sep 1990	Transfer	Acquisition details NA
4 10489	?	????	UNK	UNK	JUNAGADH	~ Sep 1990	Transfer	Acquisition details NA
5 A47	M	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 1996 21-Apr-96	Capture Transfer	
6 A15	?	????	WILD	WILD	INDIA PINJORE	~15 Mar 2002 01-Apr-02	Capture Transfer	
7 A12	?	????	WILD	WILD	INDIA PINJORE	~10 Nov 2002 23-Nov-02	Capture Transfer	
8 VCC6HW DC00188CC2	F	????	WILD	WILD	INDIA PINJORE	~ 1 Jan 2003 03-Jan-03	Capture Transfer	
9 A16	F	????	WILD	WILD	INDIA PINJORE	~25 Dec 2002 26-Jan-03	Capture Transfer	
10 A10	?	????	WILD	WILD	INDIA PINJORE	~ 2 Jan 2003 28-Jan-03	Capture Transfer	
11 A17	?	????	WILD	WILD	INDIA PINJORE	~ 4 Jan 2003 29-Jan-03	Capture Transfer	
12 A11	?	????	WILD	WILD	INDIA PINJORE	~25 Jan 2003 05-Feb-03	Capture Transfer	
13 A18	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2003 18-Jun-03	Capture Transfer	
14 A09	M	????	WILD	WILD	INDIA PINJORE	~ 1 Mar 2004 19-Mar-04	Capture Transfer	
15 A01	F	????	WILD	WILD	INDIA PINJORE	~ 1 Mar 2004 22-Mar-04	Capture Transfer	
16 A02	M	????	WILD	WILD	INDIA PINJORE	~ 2 Mar 2004 23-Mar-04	Capture Transfer	
17 A14	F	????	WILD	WILD	INDIA PINJORE	~25 Mar 2004 01-Apr-04	Capture Transfer	
18 A03	M	????	WILD	WILD	INDIA PINJORE	~26 Mar 2004 06-Apr-04	Capture Transfer	
19 A00	F	~ 1992	WILD	WILD	INDIA PINJORE	~ 2 Apr 2004 16-Apr-04	Capture Transfer	
20 A06	?	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 17-Aug-04	Capture Transfer	
21 A08	?	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 17-Aug-04	Capture Transfer	
22 A07	F	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 17-Aug-04	Capture Transfer	
23 A04	M	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 17-Aug-04	Capture Transfer	

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
24 A21	F	????	WILD	WILD	INDIA PINJORE	~ 1 Sep 2004 22-Sep-04	Capture Transfer	
25 A19	?	????	WILD	WILD	INDIA PINJORE	~25 Sep 2004 02-Oct-04	Capture Transfer	
26 A20	?	????	WILD	WILD	INDIA PINJORE	~25 Sep 2004 09-Oct-04	Capture Transfer	
27 A22	M	????	WILD	WILD	INDIA PINJORE	~25 Nov 2004 01-Dec-04	Capture Transfer	
28 A23	?	????	WILD	WILD	INDIA PINJORE	~ 2004 01-Dec-04	Capture Transfer	
29 A24	?	????	WILD	WILD	INDIA PINJORE	~ 4 Nov 2004 04-Dec-04	Capture Transfer	
30 A25	?	????	WILD	WILD	INDIA PINJORE	~25 Nov 2004 09-Dec-04	Capture Transfer	
31 A26	?	????	WILD	WILD	INDIA PINJORE	~25 Nov 2004 11-Dec-04	Capture Transfer	
32 _____	F	????	WILD	WILD	INDIA JUNAGADH	~ 8 Jan 2005 15-Jan-05 31-Aug-05	Capture Transfer Death	Received from RFO Mahuva range
33 B50	F	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2005 27-Apr-05	Capture Transfer	
34 10135	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Jun 2005 11-Jun-05	Capture Transfer	
35 SBZ-2 10135	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Jun 2005 11-Jun-05	Capture Transfer	Received from RFO Mahuva range
36 SBZ-3 10136	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from DCF Ahmedabad
37 SBZ-4 10137	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from DCF Ahmedabad
38 SBZ-5 10138	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05 17-May-11	Capture Transfer Death	Received from DCF Ahmedabad
39 SBZ-6 10139	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from DCF Ahmedabad
40 SBZ-7 10140	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from RFO Bajana
41 SBZ-8 10141	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from Nature Club Surat
42 A50	?	????	WILD	WILD	INDIA PINJORE	~ 1 Dec 2005 16-Dec-05	Capture Transfer	
43 A27	?	????	WILD	WILD	INDIA PINJORE	~ 1 Dec 2005 24-Dec-05	Capture Transfer	
44 A52	?	????	WILD	WILD	INDIA PINJORE	~ 1 Dec 2004 24-Dec-05	Capture Transfer	
45 A63	?	????	WILD	WILD	INDIA PINJORE	~25 Jan 2006 03-Feb-06	Capture Transfer	

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
46 A28	?	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 09-Apr-06	Capture Transfer	
47 A29	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 17-Apr-06	Capture Transfer	
48 A30	F	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
49 A31	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
50 A32	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
51 A33	M	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
52 A35	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
53 A36	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
54 A37	F	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
55 A38	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
56 A39	F	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
57 A40	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
58 A41	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
59 A42	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
60 A43	M	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
61 A44	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
62 A45	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
63 A46	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
64 A48	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
65 A49	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
66 C29	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 10-Jul-07	Capture Transfer	
67 B88	M	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
68 B89	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
69 B90	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
70 B91	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
71 B92	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
72 B95	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
73 B97	M	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
74 B97	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
75 SBZ-9 10142	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
76 SBZ-10 10143	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
77 SBZ-11 10144	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
78 SBZ-12 10145	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
79 SBZ-13 10146	?	????	WILD	WILD	INDIA JUNAGADH	07-Sep-07 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
80 SBZ-14 10147	?	????	WILD	WILD	INDIA JUNAGADH	07-Sep-07 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
81 SBZ-15 10148	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
82 SBZ-16 10149	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
83 SBZ-17 10150	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
84 10151	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
85 10152	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
86 10153	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Vijara, Valsar
87 10154	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Jan 2008 14-Jan-08	Capture Transfer	RFO Morvi (Near Rajkot)
88 10155	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
89 10156	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
90 10157	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
91 10158	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
92 10159	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
93 10160	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
94 10161	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
95	?	????	WILD	WILD	GUJARAT JUNAGADH	~28 Apr 2008 05-May-08	Capture Transfer	Received from RFO Rajula (Amreli)
96 VL3	M	????	WILD	WILD	INDIA SEPAHIJAL	~15 Jun 1988 30-Jun-88	Capture Transfer	
97 VL1	M	????	WILD	WILD	INDIA SEPAHIJAL	~15 Jun 1998 30-Jun-98	Capture Transfer	
98 10164	?	????	WILD	WILD	GUJARAT JUNAGADH	~22 Jun 2008 04-Jul-08	Capture Transfer	Received from RFO Social Forestry, Gandhinagar
99 10451	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	Received from DCF Vyara
100 10456	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
101 10455	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
102 10454	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
103 10453	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
104 10452	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
105 VL2	M	????	WILD	WILD	INDIA SEPAHIJAL	~15 Sep 2008 30-Sep-08	Capture Transfer	
106 VCC135	?	01-Jan-09	18	24	PINJORE	01-Jan-09	Hatch	
107 VCC136	?	08-Jan-09	14	9	PINJORE	08-Jan-09	Hatch	
108 10459	?	????	WILD	WILD	GUJARAT JUNAGADH	~22 Jan 2009 ~ Feb 2009	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
109 10458	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Jan 2009 09-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
110 10524	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Jan 2009 09-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
111 10525	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Jan 2009 09-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
112 10526	?	????	WILD	WILD	GUJARAT JUNAGADH	~26 Jan 2009 19-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
113	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2009 20-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
114 10527	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2009 21-Feb-09	Capture Transfer	Received from DCF Dhragdhra
115	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2009 21-Feb-09	Capture Transfer	Received from DCF Dhragdhra
116	?	????	WILD	WILD	GUJARAT GANDHINAG JUNAGADH	~ Jan 2009 ~ Jan 2009 10-Sep-09	Capture Transfer Transfer	
117 VCC134	?	11-Mar-09	51	33	PINJORE	11-Mar-09	Hatch	
118	F	????	WILD	WILD	GUJARAT JUNAGADH	~30 Apr 2009 06-May-09 28-Jul-09	Capture Transfer Death	Received from RFO Daskoi Range, Valsar District
119 200114	?	????	WILD	WILD	INDIA MADRAS	~ 1 May 2009 10-May-09	Capture Transfer	
120 AAZP.8	?	????	WILD	WILD	INDIA MADRAS	~ 5 May 2009 10-May-09	Capture Transfer	
121	?	????	WILD	WILD	GUJARAT JUNAGADH	~20 May 2009 16-Jun-09	Capture Transfer	Received from RFO Rajula (Amreli)
122 VCC165	M	19-Jan-10	5	22	PINJORE	19-Jan-10	Hatch	
123 VCC140	?	21-Jan-10	27	48	PINJORE	21-Jan-10	Hatch	
124	F	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2010 19-Feb-10 17-May-11	Capture Transfer Death	Received from DCF Social Forestry, Ahmedabad
125	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Sep 2010 31-Oct-10	Capture Transfer	Received from Nature Club, Surat
126	?	????	WILD	WILD	GUJARAT JUNAGADH	~20 Dec 2010 06-Jan-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad Not in taxon report
127 VCC148	?	12-Jan-11	27	48	PINJORE	12-Jan-11	Hatch	
128 VCC151	?	13-Jan-11	18	24	PINJORE	13-Jan-11	Hatch	
129 VCC139	?	18-Jan-11	14	9	PINJORE	18-Jan-11	Hatch	
130	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2011 21-Feb-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
131	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2011 21-Feb-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
132 9LR50	?	????	WILD	WILD	GUJARAT JUNAGADH	~10 May 2011 22-May-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
133 9LR51	?	????	WILD	WILD	GUJARAT JUNAGADH GUJARAT	~10 May 2011 22-May-11 11-Jul-11	Capture Transfer Release	
134 WBVUL1	?	????	WILD	WILD	INDIA NANDANKAN	~27 Jun 2011 02-Jul-11	Capture Transfer	
135 9LR52	?	????	WILD	WILD	GUJARAT JUNAGADH	~26 Jun 2011 04-Jul-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
136 9LR53	?	????	WILD	WILD	GUJARAT JUNAGADH	~26 Jun 2011 04-Jul-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
137 9LR54	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Aug 2011 13-Aug-11	Capture Transfer	
138 9LR60	?	????	WILD	WILD	GUJARAT JUNAGADH	~24 Dec 2011 07-Jan-12	Capture Transfer	
139 VCC177	?	20-Feb-12	27	48	PINJORE	20-Feb-12	Hatch	
140 VCC176	?	26-Feb-12	23	17	PINJORE	26-Feb-12	Hatch	
141 VCC178	?	03-Mar-12	14	9	PINJORE	03-Mar-12	Hatch	
142 VCC179	?	16-Mar-12	5	22	PINJORE	16-Mar-12	Hatch	
143	M	????	WILD	WILD	INDIA RAMNA	~15 Mar 2012 23-Mar-12 09-Aug-12	Capture Transfer Death	Received from Wild Animal Rescue and Transit Facility Centre
144 9LR56	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Apr 2012 16-Apr-12	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
145 9LR57	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Apr 2012 16-Apr-12	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
146 9LR58	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Apr 2012 16-Apr-12	Capture Transfer	
147 WBVUL2	?	????	WILD	WILD	INDIA NANDANKAN	~27 May 2012 03-Jun-12	Capture Transfer	
148 B93	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2012 17-Jun-12	Capture Transfer	
149 9LR59	?	????	WILD	WILD	GUJARAT JUNAGADH	~14 Aug 2012 23-Aug-12	Capture Transfer	
150 VCC183	?	10-Jan-13	16	15	PINJORE	10-Jan-13	Hatch	

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
151 9LR61	?	????	WILD	WILD	JUNAGADH	????	Hatch	Based on Taxon report Acquisition/Birth not present in CZA Inventory
152 VCC184	F	01-Feb-13	27	48	PINJORE	01-Feb-13	Hatch	
153 VCC185	?	11-Feb-13	67	56	PINJORE	11-Feb-13	Hatch	
154 VCC186	?	13-Feb-13	5	22	PINJORE	13-Feb-13	Hatch	
155 VCC187	?	17-Feb-13	18	24	PINJORE	17-Feb-13	Hatch	
156 VCC188	?	20-Feb-13	14	9	PINJORE	20-Feb-13	Hatch	
157 VCC189	?	24-Feb-13	60	54	PINJORE	24-Feb-13	Hatch	
158 VCC190	?	28-Mar-13	18	24	PINJORE	28-Mar-13	Hatch	
159 VCC207	?	10-Jan-14	60	54	PINJORE	10-Jan-14	Hatch	
160 VCC208	?	13-Jan-14	14	9	PINJORE	13-Jan-14	Hatch	
161 VCC209	?	29-Jan-14	5	22	PINJORE	29-Jan-14	Hatch	
162 VCC210	?	23-Feb-14	73	19	PINJORE	23-Feb-14	Hatch	
163 VCC229	?	05-Jan-15	60	54	PINJORE	05-Jan-15	Hatch	
164 VCC231	?	11-Jan-15	14	9	PINJORE	11-Jan-15	Hatch	
165 VCC238	?	13-Jan-15	16	15	PINJORE	13-Jan-15	Hatch	
166 VCC233	?	20-Jan-15	27	48	PINJORE	20-Jan-15	Hatch	
167 VCC242	?	31-Jan-15	73	19	PINJORE	31-Jan-15	Hatch	
168 VCC232	?	01-Mar-15	14	9	PINJORE	01-Mar-15	Hatch	
169 VCC230	?	05-Mar-15	60	54	PINJORE	05-Mar-15	Hatch	
TOTALS: 15. 15. 139 (169)								

Living population of White-rumped vulture (*Gyps bengalensis*) in Indian zoos

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
Sakkarbaug Zoo, Jungadh								
3 10460	?	????	UNK	UNK	JUNAGADH	~ Sep 1990	Transfer	Acquisition details NA
4 10489	?	????	UNK	UNK	JUNAGADH	~ Sep 1990	Transfer	Acquisition details NA
34 10135	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Jun 2005 11-Jun-05	Capture Transfer	
35 SBZ-2 10135	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Jun 2005 11-Jun-05	Capture Transfer	Received from RFO Mahuva range
36 SBZ-3 10136	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from DCF Ahmedabad
37 SBZ-4 10137	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from DCF Ahmedabad
39 SBZ-6 10139	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from DCF Ahmedabad
40 SBZ-7 10140	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from RFO Bajana
41 SBZ-8 10141	?	????	WILD	WILD	INDIA JUNAGADH	~ 5 Jun 2005 11-Jun-05	Capture Transfer	Received from Nature Club Surat
75 SBZ-9 10142	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
76 SBZ-10 10143	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
77 SBZ-11 10144	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
78 SBZ-12 10145	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
79 SBZ-13 10146	?	????	WILD	WILD	INDIA JUNAGADH	07-Sep-07 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
80 SBZ-14 10147	?	????	WILD	WILD	INDIA JUNAGADH	07-Sep-07 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
81 SBZ-15 10148	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
82 SBZ-16 10149	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
83 SBZ-17 10150	?	????	WILD	WILD	INDIA JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
84 10151	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
85 10152	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Ahmedabad
86 10153	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 7 Sep 2007 14-Sep-07	Capture Transfer	Received from DCF Vijara, Valsar
87 10154	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 7 Jan 2008 14-Jan-08	Capture Transfer	RFO Morvi (Near Rajkot)
88 10155	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
89 10156	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
90 10157	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
91 10158	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
92 10159	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
93 10160	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
94 10161	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Feb 2008 08-Feb-08	Capture Transfer	Received from DCF Ahmedabad
95 _____	?	????	WILD	WILD	GUJARAT JUNAGADH	~28 Apr 2008 05-May-08	Capture Transfer	Received from RFO Rajula (Amreli)
98 10164	?	????	WILD	WILD	GUJARAT JUNAGADH	~22 Jun 2008 04-Jul-08	Capture Transfer	Received from RFO Social Forestry, Gandhinagar
99 10451	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	Received from DCF Vyara
100 10456	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
101 10455	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
102 10454	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
103 10453	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
104 10452	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Aug 2008 09-Sep-08	Capture Transfer	
108 10459	?	????	WILD	WILD	GUJARAT JUNAGADH	~22 Jan 2009 ~ Feb 2009	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
109 10458	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Jan 2009 09-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
110 10524	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Jan 2009 09-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
111 10525	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Jan 2009 09-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
112 10526	?	????	WILD	WILD	GUJARAT JUNAGADH	~26 Jan 2009 19-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
113 _____	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2009 20-Feb-09	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
114 10527	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2009 21-Feb-09	Capture Transfer	Received from DCF Dhragdhra
115 _____	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2009 21-Feb-09	Capture Transfer	Received from DCF Dhragdhra
116 _____	?	????	WILD	WILD	GUJARAT GANDHINAG JUNAGADH	~ Jan 2009 ~ Jan 2009 10-Sep-09	Capture Transfer Transfer	
118 _____	F	????	WILD	WILD	GUJARAT JUNAGADH	~30 Apr 2009 06-May-09 28-Jul-09	Capture Transfer Death	Received from RFO Daskoi Range, Valsar Disrict
121 _____	?	????	WILD	WILD	GUJARAT JUNAGADH	~20 May 2009 16-Jun-09	Capture Transfer	Received from RFO Rajula (Amreli)
124 _____	F	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2010 19-Feb-10 17-May-11	Capture Transfer Death	Received from DCF Social Forestry, Ahmedabad

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
125	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Sep 2010 31-Oct-10	Capture Transfer	Received from Nature Club, Surat
126	?	????	WILD	WILD	GUJARAT JUNAGADH	~20 Dec 2010 06-Jan-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad Not in taxon report
130	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2011 21-Feb-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
131	?	????	WILD	WILD	GUJARAT JUNAGADH	~15 Jan 2011 21-Feb-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
132 9LR50	?	????	WILD	WILD	GUJARAT JUNAGADH	~10 May 2011 22-May-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
133 9LR51	?	????	WILD	WILD	GUJARAT JUNAGADH GUJARAT	~10 May 2011 22-May-11 11-Jul-11	Capture Transfer Release	
135 9LR52	?	????	WILD	WILD	GUJARAT JUNAGADH	~26 Jun 2011 04-Jul-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
136 9LR53	?	????	WILD	WILD	GUJARAT JUNAGADH	~26 Jun 2011 04-Jul-11	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
137 9LR54	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Aug 2011 13-Aug-11	Capture Transfer	
138 9LR60	?	????	WILD	WILD	GUJARAT JUNAGADH	~24 Dec 2011 07-Jan-12	Capture Transfer	
144 9LR56	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Apr 2012 16-Apr-12	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
145 9LR57	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Apr 2012 16-Apr-12	Capture Transfer	Received from DCF Social Forestry, Ahmedabad
146 9LR58	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Apr 2012 16-Apr-12	Capture Transfer	
151 9LR61	?	????	WILD	WILD	JUNAGADH	????	Hatch	Based on Taxon report Acquisition/Birth not present in CZA Inventory

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
149 9LR59	?	????	WILD	WILD	GUJARAT JUNAGADH	~14 Aug 2012 23-Aug-12	Capture Transfer	
Sakkarbaug Zoo Total: 64(0.2.62)								
Arignar Anna Zoological Park, Chennai								
119 200114	?	????	WILD	WILD	INDIA MADRAS	~ 1 May 2009 10-May-09	Capture Transfer	
120 AAZP.8	?	????	WILD	WILD	INDIA MADRAS	~ 5 May 2009 10-May-09	Capture Transfer	
Arignar Anna Zoological Park Total: 2(0.0.2)								
Vulture Conservation Breeding Centre, Pinjore								
5 A47	M	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 1996 21-Apr-96	Capture Transfer	
6 A15	?	????	WILD	WILD	INDIA PINJORE	~15 Mar 2002 01-Apr-02	Capture Transfer	
7 A12	?	????	WILD	WILD	INDIA PINJORE	~10 Nov 2002 23-Nov-02	Capture Transfer	
8 VCC6HW DC00188CC2	F	????	WILD	WILD	INDIA PINJORE	~ 1 Jan 2003 03-Jan-03	Capture Transfer	
9 A16	F	????	WILD	WILD	INDIA PINJORE	~25 Dec 2002 26-Jan-03	Capture Transfer	
10 A10	?	????	WILD	WILD	INDIA PINJORE	~ 2 Jan 2003 28-Jan-03	Capture Transfer	
11 A17	?	????	WILD	WILD	INDIA PINJORE	~ 4 Jan 2003 29-Jan-03	Capture Transfer	
12 A11	?	????	WILD	WILD	INDIA PINJORE	~25 Jan 2003 05-Feb-03	Capture Transfer	
13 A18	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2003 18-Jun-03	Capture Transfer	
14 A09	M	????	WILD	WILD	INDIA PINJORE	~ 1 Mar 2004 19-Mar-04	Capture Transfer	
15 A01	F	????	WILD	WILD	INDIA PINJORE	~ 1 Mar 2004 22-Mar-04	Capture Transfer	
16 A02	M	????	WILD	WILD	INDIA PINJORE	~ 2 Mar 2004 23-Mar-04	Capture Transfer	
17 A14	F	????	WILD	WILD	INDIA PINJORE	~25 Mar 2004 01-Apr-04	Capture Transfer	
18 A03	M	????	WILD	WILD	INDIA PINJORE	~26 Mar 2004 06-Apr-04	Capture Transfer	
19 A00	F	~ 1992	WILD	WILD	INDIA PINJORE	~ 2 Apr 2004 16-Apr-04	Capture Transfer	
20 A06	?	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 17-Aug-04	Capture Transfer	
21 A08	?	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 17-Aug-04	Capture Transfer	
22 A07	F	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 17-Aug-04	Capture Transfer	
23 A04	M	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 17-Aug-04	Capture Transfer	

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
24 A21	F	????	WILD	WILD	INDIA PINJORE	~ 1 Sep 2004 22-Sep-04	Capture Transfer	
25 A19	?	????	WILD	WILD	INDIA PINJORE	~25 Sep 2004 02-Oct-04	Capture Transfer	
26 A20	?	????	WILD	WILD	INDIA PINJORE	~25 Sep 2004 09-Oct-04	Capture Transfer	
27 A22	M	????	WILD	WILD	INDIA PINJORE	~25 Nov 2004 01-Dec-04	Capture Transfer	
28 A23	?	????	WILD	WILD	INDIA PINJORE	~ 2004 01-Dec-04	Capture Transfer	
29 A24	?	????	WILD	WILD	INDIA PINJORE	~ 4 Nov 2004 04-Dec-04	Capture Transfer	
30 A25	?	????	WILD	WILD	INDIA PINJORE	~25 Nov 2004 09-Dec-04	Capture Transfer	
31 A26	?	????	WILD	WILD	INDIA PINJORE	~25 Nov 2004 11-Dec-04	Capture Transfer	
33 B50	F	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2005 27-Apr-05	Capture Transfer	
42 A50	?	????	WILD	WILD	INDIA PINJORE	~ 1 Dec 2005 16-Dec-05	Capture Transfer	
43 A27	?	????	WILD	WILD	INDIA PINJORE	~ 1 Dec 2005 24-Dec-05	Capture Transfer	
44 A52	?	????	WILD	WILD	INDIA PINJORE	~ 1 Dec 2004 24-Dec-05	Capture Transfer	
45 A63	?	????	WILD	WILD	INDIA PINJORE	~25 Jan 2006 03-Feb-06	Capture Transfer	
46 A28	?	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 09-Apr-06	Capture Transfer	
47 A29	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 17-Apr-06	Capture Transfer	
48 A30	F	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
49 A31	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
50 A32	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
51 A33	M	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
52 A35	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
53 A36	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
54 A37	F	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
55 A38	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
56 A39	F	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
57 A40	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
58 A41	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
59 A42	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
60 A43	M	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
61 A44	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
62 A45	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
63 A46	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
64 A48	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 21-Apr-06	Capture Transfer	
65 A49	?	????	WILD	WILD	INDIA PINJORE	~ 2 Apr 2006 21-Apr-06	Capture Transfer	
66 C29	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 10-Jul-07	Capture Transfer	
67 B88	M	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
68 B89	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
69 B90	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
70 B91	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
71 B92	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
72 B95	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
73 B97	M	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
74 B97	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2007 17-Jul-07	Capture Transfer	
106 VCC135	?	01-Jan-09	18	24	PINJORE	01-Jan-09	Hatch	
107 VCC136	?	08-Jan-09	14	9	PINJORE	08-Jan-09	Hatch	
117 VCC134	?	11-Mar-09	51	33	PINJORE	11-Mar-09	Hatch	
122 VCC165	M	19-Jan-10	5	22	PINJORE	19-Jan-10	Hatch	
123 VCC140	?	21-Jan-10	27	48	PINJORE	21-Jan-10	Hatch	
127 VCC148	?	12-Jan-11	27	48	PINJORE	12-Jan-11	Hatch	
128 VCC151	?	13-Jan-11	18	24	PINJORE	13-Jan-11	Hatch	
129 VCC139	?	18-Jan-11	14	9	PINJORE	18-Jan-11	Hatch	

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
139 VCC177	?	20-Feb-12	27	48	PINJORE	20-Feb-12	Hatch	
140 VCC176	?	26-Feb-12	23	17	PINJORE	26-Feb-12	Hatch	
141 VCC178	?	03-Mar-12	14	9	PINJORE	03-Mar-12	Hatch	
142 VCC179	?	16-Mar-12	5	22	PINJORE	16-Mar-12	Hatch	
148 B93	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2012 17-Jun-12	Capture Transfer	
150 VCC183	?	10-Jan-13	16	15	PINJORE	10-Jan-13	Hatch	
152 VCC184	F	01-Feb-13	27	48	PINJORE	01-Feb-13	Hatch	
153 VCC185	?	11-Feb-13	67	56	PINJORE	11-Feb-13	Hatch	
154 VCC186	?	13-Feb-13	5	22	PINJORE	13-Feb-13	Hatch	
155 VCC187	?	17-Feb-13	18	24	PINJORE	17-Feb-13	Hatch	
156 VCC188	?	20-Feb-13	14	9	PINJORE	20-Feb-13	Hatch	
157 VCC189	?	24-Feb-13	60	54	PINJORE	24-Feb-13	Hatch	
158 VCC190	?	28-Mar-13	18	24	PINJORE	28-Mar-13	Hatch	
159 VCC207	?	10-Jan-14	60	54	PINJORE	10-Jan-14	Hatch	
160 VCC208	?	13-Jan-14	14	9	PINJORE	13-Jan-14	Hatch	
161 VCC209	?	29-Jan-14	5	22	PINJORE	29-Jan-14	Hatch	
162 VCC210	?	23-Feb-14	73	19	PINJORE	23-Feb-14	Hatch	
163 VCC229	?	05-Jan-15	60	54	PINJORE	05-Jan-15	Hatch	
164 VCC231	?	11-Jan-15	14	9	PINJORE	11-Jan-15	Hatch	
165 VCC238	?	13-Jan-15	16	15	PINJORE	13-Jan-15	Hatch	
166 VCC233	?	20-Jan-15	27	48	PINJORE	20-Jan-15	Hatch	
167 VCC242	?	31-Jan-15	73	19	PINJORE	31-Jan-15	Hatch	
168 VCC232	?	01-Mar-15	14	9	PINJORE	01-Mar-15	Hatch	
169 VCC230	?	05-Mar-15	60	54	PINJORE	05-Mar-15	Hatch	
Vulture Conservation Breeding Centre Total: 93(11.12.70)								
Nandankanan Biological Park, Bhubaneswar								

Stud # Local ID Tag/Band Transponder	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
147 WBVUL2	?	????	WILD	WILD	INDIA NANDANKAN	~27 May 2012 03-Jun-12	Capture Transfer	
134 WBVUL1	?	????	WILD	WILD	INDIA NANDANKAN	~27 Jun 2011 02-Jul-11	Capture Transfer	
Nandankanan Biological Park Total: 1(0.0.1)								
Ramnabagan Mini Zoo								
143	M	????	WILD	WILD	INDIA RAMNA	~15 Mar 2012 23-Mar-12 09-Aug-12	Capture Transfer Death	Received from Wild Animal Rescue and Transit Facility Centre
Ramnabagan Mini Zoo Total: 1(1.0.0)								
Sepahijala Zoological Park								
105 VL2	M	????	WILD	WILD	INDIA SEPAHIJAL	~15 Sep 2008 30-Sep-08	Capture Transfer	
96 VL3	M	????	WILD	WILD	INDIA SEPAHIJAL	~15 Jun 1988 30-Jun-88	Capture Transfer	
97 VL1	M	????	WILD	WILD	INDIA SEPAHIJAL	~15 Jun 1998 30-Jun-98	Capture Transfer	
Sepahijala Zoological Park Total: 3(3.0.0)								
TOTALS: 164 (15. 15. 135)								

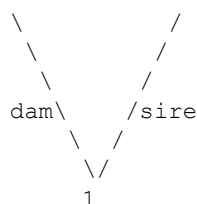
Pedigree Chart Report of White-rumped vulture (*Gyps bengalensis*) in Indian Zoos

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Taxon Name: GYPS BENGALENSIS	Studbook Number: 1
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WILD



WILD

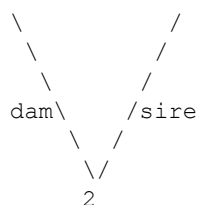
Sex: Unknown
 Hatch Date: ????
 Last Location: MADRAS (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====

Taxon Name: GYPS BENGALENSIS	Studbook Number: 2
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=====

WILD



WILD

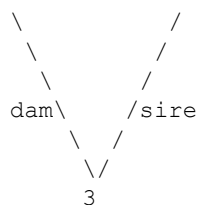
Sex: Unknown
 Hatch Date: ????
 Last Location: MADRAS (dead)
 House Name:
 Tattoo:
 Tag/Band:

=====

Taxon Name: GYPS BENGALENSIS	Studbook Number: 3
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=====

UNK



UNK

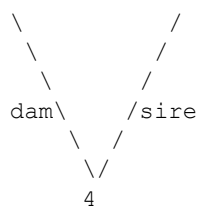
Sex: Unknown
 Hatch Date: ????
 Last Location: JUNAGADH
 House Name:
 Tattoo:
 Tag/Band:

=====

Taxon Name: GYPS BENGALENSIS	Studbook Number: 4
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=====

UNK



UNK

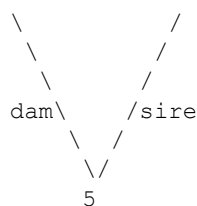
Sex: Unknown
 Hatch Date: ????
 Last Location: JUNAGADH
 House Name:
 Tattoo:
 Tag/Band:

=====

Taxon Name: GYPS BENGALENSIS	Studbook Number: 5
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=====

WILD



WILD

Sex: Male
 Hatch Date: ????
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

Studbook Number: 6

WILD

\backslash $/$
 \backslash $/$
dam /sire
 \backslash $/$
 \backslash $/$
6

```

Sex: Unknown
Hatch Date:   ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 7

WILD

dam \ / sire
7

Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 8

WILD

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 \ /
 dam \ / sire
 \ /
 \ /
 8

Sex: Female
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 9

WILD

dam \ / sire
 \ /
 \ /
 9

Sex: Female
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 10

WILD

\backslash $/$
 dam sire
 \backslash $/$
 10

Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 11
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      11

```

WILD

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 12
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      12

```

WILD

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 13
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      13

```

WILD

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 14
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      14

```

WILD

```

Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 15
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      15

```

WILD

```

Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 16

WILD

dam \ / sire
16

Sex: Male
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 17

WILD

dam sire
17

```

Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 18

WILD

dam \ / sire
 \ /
 18

Sex: Male
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 19

WILD

dam \ / sire
19

Sex: Female
Hatch Date: ~ 1992
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 20

WILD

dam \ / sire
20

Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 21
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      21

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 22
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      22

```

WILD

```

Sex: Female
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 23
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      23

```

WILD

```

Sex: Male
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number:
24
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      24

```

WILD

```

Sex: Female
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 25
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      25

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 26

dam \ / sire
 \ /
 \ /
 26

26

Studbook Number: 27

\ /
 \ /
dam \ / sire
 \ /
 \ /
 27

27

Studbook Number: 28

dam \ / sire
 \ /
 \ /
 V
 28

28

Studbook Number: 29

\ /
 \ /
 dam \ / sire
 \ /
 \ /
 29

29

Studbook Number: 30

dam \ / sire
30

30

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 31
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      31

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 32
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      32

```

WILD

```

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

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 33
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      33

```

WILD

```

Sex: Female
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 34
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      34

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 35
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \|
      35

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band: SBZ-2

```



```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 36
=====

```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      36

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band: SBZ-3

```

```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 37
=====

```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      37

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band: SBZ-4

```

```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 38
=====

```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      38

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH (dead)
House Name:
Tattoo:
Tag/Band: SBZ-5

```

```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 39
=====

```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      39

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band: SBZ-6

```

```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 40
=====

```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      40

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band: SBZ-7

```

Studbook Number: 41

WILD

\ /
 \ /
 dam \ / sire
 \ /
 \ /
 41

Sex: Unknown
Hatch Date: ????
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band: SBZ-8

Studbook Number: 42

WILD

\ /
 \ /
 dam \ / sire
 \ /
 \ /
 42

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 43

WILD

\ /\n
 dam \ /sire\n
 \ /\n
 43

```

Sex: Unknown
Hatch Date:   ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 44

WILD

\ /
 \ /
 dam \ / sire
 \ /
 \ /
 44

```

      Sex: Unknown
    Hatch Date:   ???
Last Location: PINJORE
    House Name:
      Tattoo:
    Tag/Band:

```

Studbook Number: 45

WILD

\ /
 \ /
 dam \ / sire
 \ /
 \ /
 45

```

      Sex: Unknown
    Hatch Date:   ???
Last Location: PINJORE
    House Name:
      Tattoo:
    Tag/Band:

```

Studbook Number: 46

dam sire
46

46

Studbook Number: 47

\ /\n
 \ /\n
 dam \ / sire\n
 \ /\n
 \ /\n
 47

47

Studbook Number: 48

dam \ / sire
48

48

Studbook Number: 49

dam \ / sire
49

49

Studbook Number: 50

dam \ / sire
50

50

Studbook Number: 51

\ /
 \ /
 dam \ / sire
 \ /
 51

51

Studbook Number: 52

dam \ / sire
 \ /
 \
 /
 52

52

Studbook Number: 53

A pedigree diagram showing a mating between a female (dam) and a male (sire). The dam is represented by a circle and the sire by a square. They are connected by a horizontal line. Below this line, a vertical line leads to a circle representing their offspring, labeled with the number 53.

53

Studbook Number: 54

dam sire
54

54

Studbook Number: 55

dam sire
55

55

Studbook Number: 56

WILD

\ /
 \ /
 dam \ / sire
 \ /
 56

Sex: Female
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 57

WILD

\ /
 \ /
 dam \ / sire
 \ /
 57

Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 58

WILD

\ /
 \ /
 dam \ / sire
 \ /
 \ /
 58

```

Sex: Unknown
Hatch Date:   ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 59

WILD

dam \ / sire
59

Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 60

WILD

\backslash $/$
 dam sire
 \backslash $/$
 60

Sex: Male
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 61

dam sire
61

61

Studbook Number: 62

$\begin{array}{cc} \diagdown & \diagup \\ \text{dam} & \text{sire} \\ \diagdown & \diagup \\ & 62 \end{array}$

62

Studbook Number: 63

A pedigree diagram showing a mating between a female (dam) and a male (sire). The dam is represented by a circle and the sire by a square. They are connected by a horizontal line. Below this line, a vertical line leads to a circle representing their offspring, labeled with the number 63.

63

Studbook Number: 64

A pedigree diagram showing a breeding pair. On the left is a female labeled 'dam' and on the right is a male labeled 'sire'. They are connected by a horizontal mating line. From the center of this mating line, a vertical line descends to a point where two diagonal lines branch out, forming a 'V' shape. Below this 'V' is the number '64', representing the number of offspring.

64

Studbook Number: 65

dam \ / sire
65

65

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 66
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        66
  
```

WILD

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 67
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        67
  
```

WILD

```

Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 68
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        68
  
```

WILD

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 69
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        69
  
```

WILD

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 70
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        70
  
```

WILD

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 71
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      71

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 72
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      72

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 73
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      73

```

WILD

```

Sex: Male
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 74
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      74

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number:
75
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
      \/
      75

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band: SBZ-9

```


Studbook Number: 81

\ /
 \ /
 dam \ / sire
 \ /
 81

81

Studbook Number: 82

\ /
 \ /
 dam \ / sire
 \ /
 82

82

Studbook Number: 83

dam \ / sire
 \ /
 \ /
 83

83

Studbook Number: 84

dam \ / sire
 \ /\
 84

84

Studbook Number: 85

dam \ / sire
 \
 \

85

85

Studbook Number: 86

dam sire
86

86

Studbook Number: 87

\ /
 \ /
 dam \ / sire
 \ /
 87

87

Studbook Number: 88

dam sire
88

88

Studbook Number: 89

dam \ / sire
89

89

Studbook Number: 90

dam \ / sire
 \ /
 \ /
 90

90

Studbook Number: 91

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

Studbook Number: 92

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

Studbook Number: 93

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

Studbook Number: 94

WILD

Sex: Unknown
Hatch Date: ????
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

Studbook Number: 95

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 96
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        96
  
```

WILD

```

Sex: Male
Hatch Date: ???
Last Location: SEPAHIJAL
House Name: Rajendra
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 97
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        97
  
```

WILD

```

Sex: Male
Hatch Date: ???
Last Location: SEPAHIJAL
House Name: Jitendra
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 98
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        98
  
```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 99
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        99
  
```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 100
=====
```

WILD

```

      \      /
      \    /
      \  /
dam \  /sire
      \ /
       \|
        100
  
```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:
  
```

Studbook Number: 101

WILD

Sex: Unknown
Hatch Date: ????
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

Studbook Number: 102

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

Studbook Number: 103

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

Studbook Number: 104

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

Studbook Number: 105

WILD

Sex: Male
Hatch Date: ????
Last Location: SEPAHIJAL
House Name: Sachindra
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 106
=====
```

```

WILD              WILD              WILD              WILD
  dam\            /sire            dam\            /sire
   \  \          /  \              \  \          /  \
    \  \        /    \              \  \        /    \
     24  +                               18  +
                                     Sex: Unknown
                                     Hatch Date: 1 Jan 2009
                                     Last Location: PINJORE
                                     House Name: VCC135/G06
                                     Tattoo:
                                     Tag/Band:

                                     \  \          /  \
                                      dam\        /sire
                                       \  \        /    \
                                        \  \      /      \
                                         \  \    /        \
                                          106

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 107
=====
```

```

WILD              WILD              WILD              WILD
  dam\            /sire            dam\            /sire
   \  \          /  \              \  \          /  \
    \  \        /    \              \  \        /    \
     9  +                               14  +
                                     Sex: Unknown
                                     Hatch Date: 8 Jan 2009
                                     Last Location: PINJORE
                                     House Name: VCC136/C98
                                     Tattoo:
                                     Tag/Band:

                                     \  \          /  \
                                      dam\        /sire
                                       \  \        /    \
                                        \  \      /      \
                                         \  \    /        \
                                          107

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 108
=====
```

```

WILD              WILD
  dam\            /sire
   \  \          /  \
    \  \        /    \
     108
                                     Sex: Unknown
                                     Hatch Date: ???
                                     Last Location: JUNAGADH
                                     House Name:
                                     Tattoo:
                                     Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 109
=====
```

```

WILD              WILD
  dam\            /sire
   \  \          /  \
    \  \        /    \
     109
                                     Sex: Unknown
                                     Hatch Date: ???
                                     Last Location: JUNAGADH
                                     House Name:
                                     Tattoo:
                                     Tag/Band:

```

Studbook Number: 110

dam sire
110

Studbook Number: 111

A pedigree diagram showing a mating between a female (dam) and a male (sire). The dam is represented by a circle and the sire by a square. They are connected by a horizontal line. Below this line, a vertical line leads to a circle containing the number 111, representing the offspring.

Studbook Number: 112

A pedigree diagram showing a mating between a female (dam) and a male (sire). The dam is represented by a circle and the sire by a square. They are connected by a horizontal line. Below this line, a vertical line leads to a circle representing the offspring, labeled 112.

Studbook Number: 113

dam sire
113

Studbook Number: 114

dam sire
114

62 | Page


```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 115
=====

```

WILD

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      115

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

```

```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 116
=====

```

WILD

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      116

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

```

```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 117
=====

```

WILD

```

dam \  /sire
      \ /
      33  +

```

WILD

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      117

```

WILD

```

dam \  /sire
      \ /
      51  +

```

WILD

```

Sex: Unknown
Hatch Date: 11 Mar 2009
Last Location: PINJORE
House Name: VCC134/B87
Tattoo:
Tag/Band:

```

+ Wild-caught...

```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 118
=====

```

WILD

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      118

```

WILD

```

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

```

```

=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 119
=====

```

WILD

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      119

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: MADRAS
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 120
=====
```

WILD

```

      \      /
      \    /
dam\   /sire
   \  /
   \ /
    120

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: MADRAS
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 121
=====
```

WILD

```

      \      /
      \    /
dam\   /sire
   \  /
   \ /
    121

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 122
=====
```

WILD

```

dam\   /sire
 \  /
 \ /
  22  +

```

WILD

```

      \      /
      \    /
dam\   /sire
   \  /
   \ /
    122

```

WILD

```

dam\   /sire
 \  /
 \ /
  5   +

```

WILD

```

Sex: Male
Hatch Date: 19 Jan 2010
Last Location: PINJORE
House Name: VCC165/A65
Tattoo:
Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 123
=====
```

WILD

```

dam\   /sire
 \  /
 \ /
  48  +

```

WILD

```

      \      /
      \    /
dam\   /sire
   \  /
   \ /
    123

```

WILD

```

dam\   /sire
 \  /
 \ /
  27  +

```

WILD

```

Sex: Unknown
Hatch Date: 21 Jan 2010
Last Location: PINJORE
House Name: VCC140/D01
Tattoo:
Tag/Band:

```

+ Wild-caught...


```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 128
=====
```

```

WILD          WILD          WILD          WILD
  dam\        /sire        dam\        /sire
   \  \      /  \          \  \      /  \
    \  \    /    \          \  \    /    \
     24  +                18  +
                               Sex: Unknown
                               Hatch Date: 13 Jan 2011
                               Last Location: PINJORE
                               House Name: VCC151/H26
                               Tattoo:
                               Tag/Band:

                               \  \      /  \
                                \  \    /    \
                                 \  \  dam\  /sire
                                  \  \      /  \
                                   \  \    /    \
                                    \  \  128

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 129
=====
```

```

WILD          WILD          WILD          WILD
  dam\        /sire        dam\        /sire
   \  \      /  \          \  \      /  \
    \  \    /    \          \  \    /    \
     9  +                14  +
                               Sex: Unknown
                               Hatch Date: 18 Jan 2011
                               Last Location: PINJORE
                               House Name: VCC139/G20
                               Tattoo:
                               Tag/Band:

                               \  \      /  \
                                \  \    /    \
                                 \  \  dam\  /sire
                                  \  \      /  \
                                   \  \    /    \
                                    \  \  129

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 130
=====
```

```

WILD          WILD
  dam\        /sire
   \  \      /  \
    \  \    /    \
     130
                               Sex: Unknown
                               Hatch Date: ???
                               Last Location: JUNAGADH
                               House Name:
                               Tattoo:
                               Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 131
=====
```

```

WILD          WILD
  dam\        /sire
   \  \      /  \
    \  \    /    \
     131
                               Sex: Unknown
                               Hatch Date: ???
                               Last Location: JUNAGADH
                               House Name:
                               Tattoo:
                               Tag/Band:

```

Studbook Number: 132

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

Studbook Number: 133

WILD

```

                Sex: Unknown
    Hatch Date:      ???
Last Location:  GUJARAT
    House Name:
        Tattoo:
            Tag/Band:

```

Studbook Number: 134

WILD

Sex: Unknown
Hatch Date: ????
Last Location: NANDANKAN
House Name: WB-VUL-1
Tattoo:
Tag/Band:

Studbook Number: 135

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

Studbook Number: 136

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 137
=====
```

WILD

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      137

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 138
=====
```

WILD

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      138

```

WILD

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 139
=====
```

WILD

```

      dam \      /sire
            \    /
            \  /
            \/
            48

```

WILD

WILD

WILD

```

      dam \      /sire
            \    /
            \  /
            \/
            27

```

+

+

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      139

```

```

Sex: Unknown
Hatch Date: 20 Feb 2012
Last Location: PINJORE
House Name: VCC177/E16
Tattoo:
Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 140
=====
```

WILD

```

      dam \      /sire
            \    /
            \  /
            \/
            17

```

WILD

WILD

WILD

```

      dam \      /sire
            \    /
            \  /
            \/
            23

```

+

+

```

      \      /
      \    /
dam \  /sire
      \ /
      \/
      140

```

```

Sex: Unknown
Hatch Date: 26 Feb 2012
Last Location: PINJORE
House Name: VCC176/E00
Tattoo:
Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 141
=====
```

WILD

WILD

WILD

WILD

```

dam\  /sire
 \  /
  9  +

```

```

\  /
 \  /
dam\ /sire
 \  /
 141

```

```

dam\  /sire
 \  /
 14  +
Sex: Unknown
Hatch Date: 3 Mar 2012
Last Location: PINJORE
House Name: VCC178/D16
Tattoo:
Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 142
=====
```

WILD

WILD

WILD

WILD

```

dam\  /sire
 \  /
 22  +

```

```

\  /
 \  /
dam\ /sire
 \  /
 142

```

```

dam\  /sire
 \  /
 5  +
Sex: Unknown
Hatch Date: 16 Mar 2012
Last Location: PINJORE
House Name: VCC179/D37
Tattoo:
Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 143
=====
```

WILD

WILD

```

\  /
 \  /
dam\ /sire
 \  /
 143

```

```

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

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 144
=====
```

WILD

WILD

```

\  /
 \  /
dam\ /sire
 \  /
 144

```

```

Sex: Unknown
Hatch Date: ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 145

WILD

```

Sex: Unknown
Hatch Date:   ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:
```

Studbook Number: 146

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

Studbook Number: 147

WILD

Sex: Unknown
Hatch Date: ????
Last Location: NANDANKAN
House Name: WB-VUL-2
Tattoo:
Tag/Band:

Studbook Number: 148

WILD

Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 149

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:


```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 150
=====
```

```

WILD      WILD      WILD      WILD
dam\      /sire      dam\      /sire
  \      /          \      /
   \    /            \    /
    15  +              16  +
                        Sex: Unknown
                        Hatch Date: 10 Jan 2013
                        Last Location: PINJORE
                        House Name: VCC183/D66
                        Tattoo:
                        Tag/Band:

                        \      /
                         \    /
                        dam\  /sire
                          \  /
                           150

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 151
=====
```

```

WILD      WILD
dam\      /sire
  \      /
   \    /
    151

                        \      /
                         \    /
                        dam\  /sire
                          \  /
                           151
                        Sex: Unknown
                        Hatch Date: ???
                        Last Location: JUNAGADH
                        House Name:
                        Tattoo:
                        Tag/Band:

```

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 152
=====
```

```

WILD      WILD      WILD      WILD
dam\      /sire      dam\      /sire
  \      /          \      /
   \    /            \    /
    48  +              27  +
                        Sex: Female
                        Hatch Date: 1 Feb 2013
                        Last Location: PINJORE
                        House Name: VCC184/D12
                        Tattoo:
                        Tag/Band:

                        \      /
                         \    /
                        dam\  /sire
                          \  /
                           152

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 153
=====
```

```

WILD      WILD      WILD      WILD
dam\      /sire      dam\      /sire
  \      /          \      /
   \    /            \    /
    56  +              67  +
                        Sex: Unknown
                        Hatch Date: 11 Feb 2013
                        Last Location: PINJORE
                        House Name: VCC185/D20
                        Tattoo:
                        Tag/Band:

                        \      /
                         \    /
                        dam\  /sire
                          \  /
                           153

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 154
=====
```

```

WILD          WILD          WILD          WILD
dam\         /sire         dam\         /sire
  \         /             \         /
   \       /               \       /
    22   +                 5   +
                        Sex: Unknown
                        Hatch Date: 13 Feb 2013
                        Last Location: PINJORE
                        House Name: VCC186/D26
                        Tattoo:
                        Tag/Band:

                        \         /
                         \       /
                        dam\     /sire
                          \     /
                           \   /
                            154

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 155
=====
```

```

WILD          WILD          WILD          WILD
dam\         /sire         dam\         /sire
  \         /             \         /
   \       /               \       /
    24   +                 18   +
                        Sex: Unknown
                        Hatch Date: 17 Feb 2013
                        Last Location: PINJORE
                        House Name: VCC187/D09
                        Tattoo:
                        Tag/Band:

                        \         /
                         \       /
                        dam\     /sire
                          \     /
                           \   /
                            155

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 156
=====
```

```

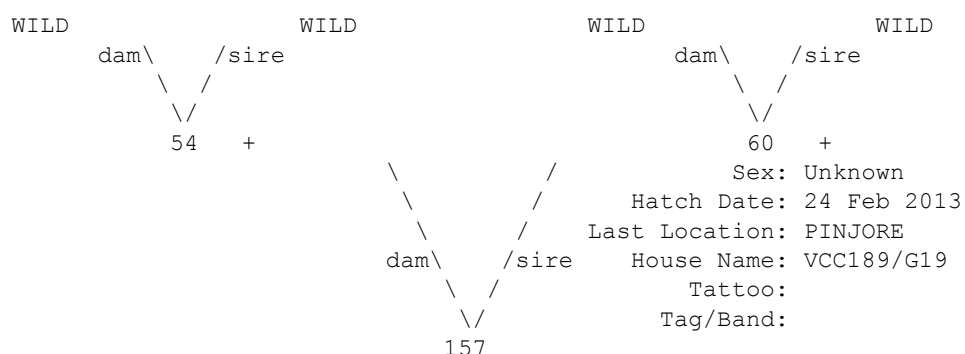
WILD          WILD          WILD          WILD
dam\         /sire         dam\         /sire
  \         /             \         /
   \       /               \       /
    9   +                 14   +
                        Sex: Unknown
                        Hatch Date: 20 Feb 2013
                        Last Location: PINJORE
                        House Name: VCC188/G17
                        Tattoo:
                        Tag/Band:

                        \         /
                         \       /
                        dam\     /sire
                          \     /
                           \   /
                            156

```

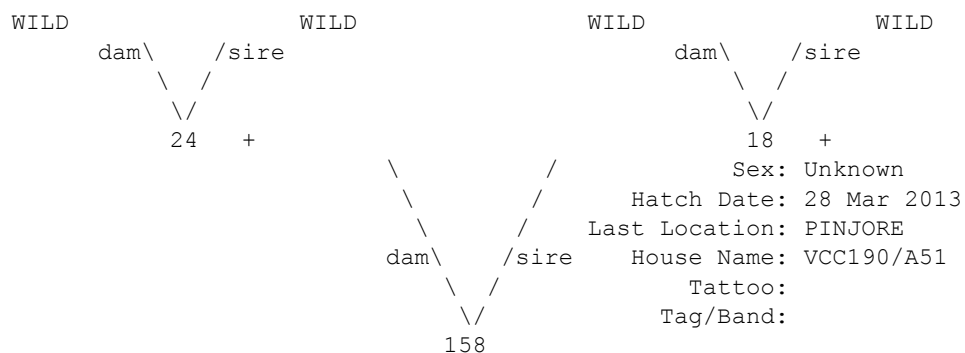
+ Wild-caught...

Studbook Number: 157



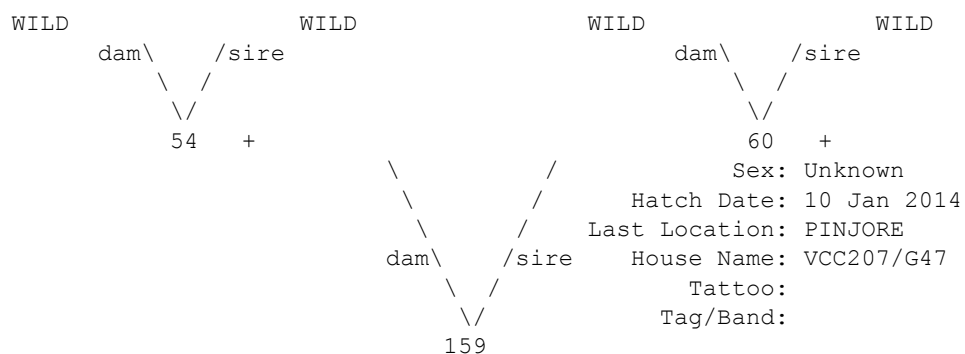
+ Wild-caught...

Studbook Number: 158



+ Wild-caught...

Studbook Number: 159



+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 160
=====
```

```

WILD          WILD          WILD          WILD
dam\         /sire         dam\         /sire
  \         /             \         /
   \       /               \       /
    9     +               14     +
                        Sex: Unknown
                        Hatch Date: 13 Jan 2014
                        Last Location: PINJORE
                        House Name: VCC208/H25
                        Tattoo:
                        Tag/Band:

                        \         /
                         \       /
                          \     /
                           \   /
                            \ /
                             160

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 161
=====
```

```

WILD          WILD          WILD          WILD
dam\         /sire         dam\         /sire
  \         /             \         /
   \       /               \       /
    22    +               5     +
                        Sex: Unknown
                        Hatch Date: 29 Jan 2014
                        Last Location: PINJORE
                        House Name: VCC209/A61
                        Tattoo:
                        Tag/Band:

                        \         /
                         \       /
                          \     /
                           \   /
                            \ /
                             161

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 162
=====
```

```

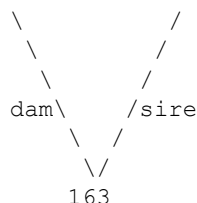
WILD          WILD          WILD          WILD
dam\         /sire         dam\         /sire
  \         /             \         /
   \       /               \       /
    19     +               73     +
                        Sex: Unknown
                        Hatch Date: 23 Feb 2014
                        Last Location: PINJORE
                        House Name: VCC210/A06
                        Tattoo:
                        Tag/Band:

                        \         /
                         \       /
                          \     /
                           \   /
                            \ /
                             162

```

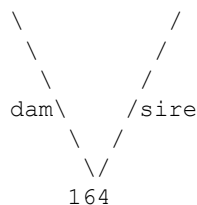
+ Wild-caught...

Studbook Number: 163



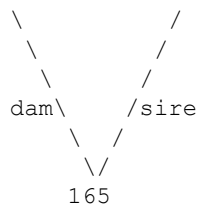
Sex: Unknown
Hatch Date: 5 Jan 2015
Last Location: PINJORE
House Name: VCC229/H76
Tattoo:
Tag/Band:

Studbook Number: 164



Sex: Unknown
Hatch Date: 11 Jan 2015
Last Location: PINJORE
House Name: VCC231/H76
Tattoo:
Tag/Band:

Studbook Number: 165



Sex: Unknown
Hatch Date: 13 Jan 2015
Last Location: PINJORE
House Name: VCC238/H48
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 166
=====
```

```

WILD      WILD      WILD      WILD
dam\      /sire      dam\      /sire
 \  /      \  /      \  /      \  /
  \ /        \ /        \ /        \ /
   48      +          27      +
                        Sex: Unknown
                        Hatch Date: 20 Jan 2015
                        Last Location: PINJORE
                        House Name: VCC233/H77
                        Tattoo:
                        Tag/Band:

                        \  /
                         \ /
                        dam\  /sire
                         \  /
                          \ /
                           166

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 167
=====
```

```

WILD      WILD      WILD      WILD
dam\      /sire      dam\      /sire
 \  /      \  /      \  /      \  /
  \ /        \ /        \ /        \ /
   19      +          73      +
                        Sex: Unknown
                        Hatch Date: 31 Jan 2015
                        Last Location: PINJORE
                        House Name: VCC242/H19
                        Tattoo:
                        Tag/Band:

                        \  /
                         \ /
                        dam\  /sire
                         \  /
                          \ /
                           167

```

+ Wild-caught...

```
=====
Taxon Name: GYPS BENGALENSIS                      Studbook Number: 168
=====
```

```

WILD      WILD      WILD      WILD
dam\      /sire      dam\      /sire
 \  /      \  /      \  /      \  /
  \ /        \ /        \ /        \ /
   9      +          14      +
                        Sex: Unknown
                        Hatch Date: 1 Mar 2015
                        Last Location: PINJORE
                        House Name: VCC232/H68
                        Tattoo:
                        Tag/Band:

                        \  /
                         \ /
                        dam\  /sire
                         \  /
                          \ /
                           168

```

+ Wild-caught...

Studbook Number: 169

WILD

$$\begin{array}{cc} \text{dam} \backslash & / \text{sire} \\ & \backslash \quad / \\ & \quad \backslash \quad / \\ & \quad 60 \quad + \end{array}$$

Sex: Unknown
Hatch Date: 5 Mar 2015
Last Location: PINJORE
House Name: VCC230/H62
Tattoo:
Tag/Band:

77 | Page

Historical population of Long-billed vulture (*Gyps indicus*) in Indian zoos

Stud# Local ID	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
1 B14	M	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2002 24-Jul-02	Capture Transfer	
2 B12	?	????	WILD	WILD	INDIA PINJORE	~ 1 Nov 2002 16-Nov-02	Capture Transfer	
3 B12	M	????	WILD	WILD	INDIA PINJORE	~ 2 Nov 2002 16-Nov-02	Capture Transfer	
4 B10	?	????	WILD	WILD	INDIA PINJORE	~25 Apr 2003 09-May-03	Capture Transfer	
5 B05	M	????	WILD	WILD	INDIA PINJORE	~25 Apr 2003 09-May-03	Capture Transfer	
6 B18	M	????	WILD	WILD	INDIA PINJORE	~ 2 May 2003 21-May-03	Capture Transfer	
7 B15	F	????	WILD	WILD	INDIA PINJORE	~ 2 May 2003 23-May-03	Capture Transfer	
8 B13	F	????	WILD	WILD	INDIA PINJORE	~ 2 May 2003 23-May-03	Capture Transfer	
9 B17	F	????	WILD	WILD	INDIA PINJORE	~ 2 Jun 2003 23-Jun-03	Capture Transfer	
10 B16	F	????	WILD	WILD	INDIA PINJORE	~ 2 Jun 2003 23-Jun-03	Capture Transfer	
11 B08	M	????	WILD	WILD	INDIA PINJORE	~ 2 Jun 2003 26-Jun-03	Capture Transfer	
12 B11	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2003 13-Jul-03	Capture Transfer	
13 B07	F	????	WILD	WILD	INDIA PINJORE	~ 4 Aug 2003 28-Aug-03	Capture Transfer	
14 B01	F	????	WILD	WILD	INDIA PINJORE	~25 Mar 2004 28-Apr-04	Capture Transfer	
15 B02	?	????	WILD	WILD	INDIA PINJORE	~ 1 May 2004 15-May-04	Capture Transfer	
16 B00	?	????	WILD	WILD	INDIA PINJORE	~ 2 May 2004 17-May-04	Capture Transfer	
17 B04	F	????	WILD	WILD	INDIA PINJORE	~ 1 Jul 2004 21-Jul-04	Capture Transfer	
18 B09	M	????	WILD	WILD	INDIA PINJORE	~ 1 Aug 2004 14-Aug-04	Capture Transfer	
19 B21	F	????	WILD	WILD	INDIA PINJORE	~25 May 2005 07-Jun-05	Capture Transfer	
20 B22	F	????	WILD	WILD	INDIA PINJORE	~25 May 2005 07-Jun-05	Capture Transfer	
21 B23	?	????	WILD	WILD	INDIA PINJORE	~25 May 2005 07-Jun-05	Capture Transfer	
22 B24	F	????	WILD	WILD	INDIA PINJORE	~28 May 2005 07-Jun-05	Capture Transfer	
23 10134	?	????	WILD	WILD	INDIA JUNAGADH	~ 1 Jun 2005 11-Jun-05	Capture Transfer	Rescued RFO Dharangdhra
24 B26	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2005 11-Jun-05	Capture Transfer	

Stud# Local ID	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
25 B27	M	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2005 11-Jun-05	Capture Transfer	
26 B28	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2005 11-Jun-05	Capture Transfer	
27 B29	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2005 11-Jun-05	Capture Transfer	
28 B30	?	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2005 11-Jun-05	Capture Transfer	
29 B31	F	????	WILD	WILD	INDIA PINJORE	~ 1 Mar 2006 22-Mar-06	Capture Transfer	
30 B32	F	????	WILD	WILD	INDIA PINJORE	~ 1 Mar 2006 22-Mar-06	Capture Transfer	
31 B34	?	????	WILD	WILD	INDIA PINJORE	~ 1 Mar 2006 22-Mar-06	Capture Transfer	
32 10381	?	????	WILD	WILD	INDIA JUNAGADH	~ 2008 ~ 2008	Capture Transfer	
33 B35	M	????	WILD	WILD	INDIA PINJORE	~ 7 Mar 2006 22-Mar-06	Capture Transfer	
34 VCC75	?	????	WILD	WILD	INDIA PINJORE	~ 1 Mar 2006 22-Mar-06	Capture Transfer	
35 B36	?	????	WILD	WILD	INDIA PINJORE	~ 2 Mar 2006 24-Mar-06	Capture Transfer	
36 B37	M	????	WILD	WILD	INDIA PINJORE	~ 2 Mar 2006 24-Mar-06	Capture Transfer	
37 B38	M	????	WILD	WILD	INDIA PINJORE	~ 2 Mar 2006 24-Mar-06	Capture Transfer	
38 B39	M	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 01-Apr-06	Capture Transfer	
39 B41	?	????	WILD	WILD	INDIA PINJORE	~ Mar 2006 01-Apr-06	Capture Transfer	
40 B42	?	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 01-Apr-06	Capture Transfer	
41 B43	?	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 01-Apr-06	Capture Transfer	
42 B44	F	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 01-Apr-06	Capture Transfer	
43 B45	F	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 01-Apr-06	Capture Transfer	
44 B46	?	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 01-Apr-06	Capture Transfer	
45 B40	?	????	WILD	WILD	INDIA PINJORE	~25 Mar 2006 01-Apr-06 11-Jul-08	Capture Transfer Death	
46 B47	?	????	WILD	WILD	INDIA PINJORE	~24 Mar 2006 17-Apr-06	Capture Transfer	
47 C73	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 17-Apr-06	Capture Transfer	
48 C75	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 17-Apr-06	Capture Transfer	
49 C76	?	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 17-Apr-06	Capture Transfer	

Stud# Local ID	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
50 C77	M	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 17-Apr-06	Capture Transfer	
51 C78	F	????	WILD	WILD	INDIA PINJORE	~17 Apr 2006 17-Apr-06	Capture Transfer	
52 C79	F	????	WILD	WILD	INDIA PINJORE	~ 1 Apr 2006 17-Apr-06	Capture Transfer	
53 B49	?	????	WILD	WILD	INDIA PINJORE	~ Apr 2006 ~ Apr 2006	Capture Transfer	
54 C71	?	????	WILD	WILD	INDIA PINJORE	~ Apr 2006 ~ Apr 2006	Capture Transfer	
55 C72	?	????	WILD	WILD	INDIA PINJORE	~ Apr 2006 ~ Apr 2006	Capture Transfer	
56 C74	M	????	WILD	WILD	INDIA PINJORE	~ Apr 2006 ~ Apr 2006	Capture Transfer	
57 B06	?	????	WILD	WILD	INDIA PINJORE	~25 May 2006 08-Jun-06	Capture Transfer	
58 B25	M	????	WILD	WILD	INDIA PINJORE	~ 1 Jun 2006 11-Jun-06	Capture Transfer	
59 B48	M	????	WILD	WILD	INDIA PINJORE	~ Apr 2007 ~ Apr 2007	Capture Transfer	
60 10096A	?	???? Note:	UNK	UNK	PUNE	10-May-08	Transfer	Specimen origin not known
61 10096	?	????	UNK	UNK	PUNE	10-May-08	Transfer	Specimen origin not known
62 B03	?	????	WILD	WILD	INDIA PINJORE	~ 9 May 2009 09-May-09	Capture Transfer	
63 VCC138	?	????	WILD	WILD	INDIA PINJORE	~ 2 Aug 2009 22-Aug-09	Capture Transfer	
64 VCC141	F	03-Feb-10	3	10	PINJORE	03-Feb-10	Hatch	
65 VCC142	F	08-Feb-10	1	7	PINJORE	08-Feb-10	Hatch	
66 VCC143	M	10-Feb-10	18	8	PINJORE	10-Feb-10	Hatch	
67 9LR45	?	????	WILD	WILD	GUJARAT JUNAGADH	~25 Apr 2010 05-May-10	Capture Transfer	Received from DCF Junagadh
68 SBN163	?	~ 2009	WILD	WILD	INDIA SHILLONG	18-Apr-11 18-Apr-11	Capture Transfer	Rescued as a juvenile
69 _____	?	????	WILD	WILD	GUJARAT JUNAGADH	~ 1 Aug 2011 13-Aug-11	Capture Transfer	Received from RFO Jasadhar Range (Gir Sanctuary)
70 VCC170	?	20-Jan-12	6	9	PINJORE	20-Jan-12	Hatch	
71 VCC172	?	25-Jan-12	1	7	PINJORE	25-Jan-12	Hatch	
72 VCC171	?	02-Feb-12	18	8	PINJORE	02-Feb-12	Hatch	
73 VCC173	?	22-Feb-12	36	52	PINJORE	22-Feb-12	Hatch	
74 VCC168	?	03-Mar-12	58	20	PINJORE	03-Mar-12	Hatch	

Stud# Local ID	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
75 VCC169	?	03-Mar-12	11	13	PINJORE	03-Mar-12	Hatch	
76 VCC174	?	15-Mar-12	33	42	PINJORE	15-Mar-12	Hatch	
77 VCC167	?	21-Mar-12	UNK	UNK	PINJORE	21-Mar-12	Hatch	
78 9LR55	?	????	WILD	WILD	INDIA UDAIPUR JUNAGADH	???? ~ 2010 30-Mar-12	Capture Transfer Transfer	Based on CZA inventory & Taxon report
79	?	????	WILD	WILD	INDIA UDAIPUR	~ Sep 2010 ~ Oct 2010	Capture Itf	Based on CZA inventory
80 10382	?	????	WILD	WILD	INDIA JUNAGADH	~ 2008 ~ 2008	Capture Transfer	
81 VCC191	?	20-Jan-13	6	9	PINJORE	20-Jan-13	Hatch	
82 VCC193	?	03-Feb-13	11	13	PINJORE	03-Feb-13	Hatch	
83 VCC194	?	04-Feb-13	5	17	PINJORE	04-Feb-13	Hatch	
84 VCC195	?	06-Feb-13	3	10	PINJORE	06-Feb-13	Hatch	
85 VCC197	?	21-Feb-13	59	30	PINJORE	21-Feb-13	Hatch	
86 VCC198	?	23-Feb-13	36	42	PINJORE	23-Feb-13	Hatch	
87 VCC199	?	05-Mar-13	25	19	PINJORE	05-Mar-13	Hatch	
88 VCC200	?	08-Mar-13	1	7	PINJORE	08-Mar-13	Hatch	
89 VCC213	?	10-Jan-14	6	9	PINJORE	10-Jan-14	Hatch	
90 VCC214	?	27-Jan-14	58	20	PINJORE	27-Jan-14	Hatch	
91 VCC223	?	27-Jan-14	11	13	PINJORE	27-Jan-14	Hatch	
92 VCC219	?	30-Jan-14	3	10	PINJORE	30-Jan-14	Hatch	
93 VCC224	?	30-Jan-14	59	30	PINJORE	30-Jan-14	Hatch	
94 VCC217	?	06-Feb-14	36	52	PINJORE	06-Feb-14	Hatch	
95 VCC226	?	15-Feb-14	50	22	PINJORE	15-Feb-14	Hatch	
96 VCC211	?	06-Mar-14	38	29	PINJORE	06-Mar-14	Hatch	
97 VCC337	?	23-Mar-14	50	22	PINJORE	23-Mar-14	Hatch	
98 VCC212	?	25-Mar-14	38	29	PINJORE	25-Mar-14	Hatch	
99 VCC225	?	25-Mar-14	59	30	PINJORE	25-Mar-14	Hatch	

Stud# Local ID	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
100 VCC218	?	26-Mar-14	36	52	PINJORE	26-Mar-14	Hatch	
101 VCC215	?	08-Apr-14	58	20	PINJORE	08-Apr-14	Hatch	
102	?	????	WILD	WILD	INDIA SHILLONG	~ Sep 2014 ~ Sep 2014	Capture Transfer	Based on CZA inventory
103 VCC244	?	15-Jan-15	25	9	PINJORE	15-Jan-15	Hatch	
104 VCC247	?	22-Jan-15	58	20	PINJORE	22-Jan-15	Hatch	
105 VCC261	?	26-Jan-15	59	30	PINJORE	26-Jan-15	Hatch	
106 VCC216	?	28-Jan-15	33	42	PINJORE	28-Jan-15	Hatch	
107 VCC248	?	30-Jan-15	58	20	PINJORE	30-Jan-15	Hatch	
108 VCC253	?	30-Jan-15	11	13	PINJORE	30-Jan-15	Hatch	
109 VCC249	?	30-Jan-15	3	10	PINJORE	30-Jan-15	Hatch	
110 VCC256	?	17-Feb-15	38	29	PINJORE	17-Feb-15	Hatch	
111 VCC260	?	19-Feb-15	37	43	PINJORE	19-Feb-15	Hatch	
112 VCC266	?	20-Feb-15	56	51	PINJORE	20-Feb-15	Hatch	
113 VCC250	?	05-Mar-15	3	10	PINJORE	05-Mar-15	Hatch	
114 VCC254	?	05-Mar-15	11	13	PINJORE	05-Mar-15	Hatch	
115 VCC245	?	09-Mar-15	6	9	PINJORE	09-Mar-15	Hatch	
116 VCC246	?	10-Mar-15	1	9	PINJORE	10-Mar-15	Hatch	
117 VCC262	?	24-Mar-15	59	30	PINJORE	24-Mar-15	Hatch	
118 100043	?	~ Jun 2015	WILD	WILD	INDIA MADRAS	~ 1 Feb 2016 29-Feb-16	Capture Transfer	
119 VCC175	?	06-Apr-12	59	30	PINJORE	06-Apr-12	Hatch	
TOTALS: 16.18.85 (119)								

Pedigree Charts of Long-billed vulture(*Gyps indicus*)

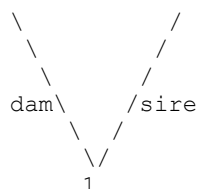
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Taxon Name: GYPS INDICUS	Studbook Number: 1
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=====

WILD

WILD



Sex: Male
 Hatch Date: ????
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

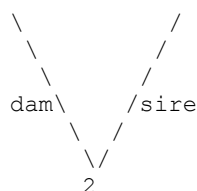
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Taxon Name: GYPS INDICUS	Studbook Number: 2
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=====

WILD

WILD



Sex: Unknown
 Hatch Date: ????
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

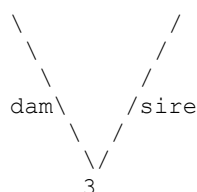
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Taxon Name: GYPS INDICUS	Studbook Number: 3
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=====

WILD

WILD



Sex: Male
 Hatch Date: ????
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

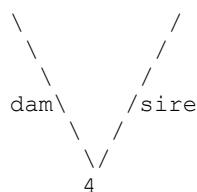
=====

Taxon Name: GYPS INDICUS	Studbook Number: 4
--------------------------	--------------------

=====

WILD

WILD



Sex: Unknown
 Hatch Date: ????
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

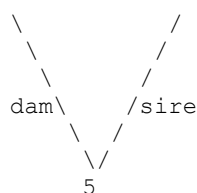
=====

Taxon Name: GYPS INDICUS	Studbook Number: 5
--------------------------	--------------------

=====

WILD

WILD



Sex: Male
 Hatch Date: ????
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

Studbook Number: 6

WILD

Sex: Male
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 7

WILD

Sex: Female
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 8

WILD

Sex: Female
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 9

WILD

Sex: Female
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 10

WILD

```

                Sex: Female
    Hatch Date:      ???
Last Location: PINJORE
    House Name:
        Tattoo:
        Tag/Band:

```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 11
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           11
  
```

```

WILD
Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 12
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           12
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 13
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           13
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 14
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           14
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 15
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           15
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 16
=====
```

WILD

```

      \      /
      \    /
      dam \ /sire
           \ /
            16
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 17
=====
```

WILD

```

      \      /
      \    /
      dam \ /sire
           \ /
            17
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 18
=====
```

WILD

```

      \      /
      \    /
      dam \ /sire
           \ /
            18
  
```

```

WILD
Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 19
=====
```

WILD

```

      \      /
      \    /
      dam \ /sire
           \ /
            19
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 20
=====
```

WILD

```

      \      /
      \    /
      dam \ /sire
           \ /
            20
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```



```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 21
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           21
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 22
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           22
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 23
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           23
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 24
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           24
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 25
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           25
  
```

```

WILD
Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 26
=====
```

WILD

```

      \  /
      \ /  /
      dam \ / sire
           \ /
            26
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 27
=====
```

WILD

```

      \  /
      \ /  /
      dam \ / sire
           \ /
            27
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 28
=====
```

WILD

```

      \  /
      \ /  /
      dam \ / sire
           \ /
            28
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 29
=====
```

WILD

```

      \  /
      \ /  /
      dam \ / sire
           \ /
            29
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 30
=====
```

WILD

```

      \  /
      \ /  /
      dam \ / sire
           \ /
            30
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 31
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           31
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 32
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           32
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: JUNAGADH
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 33
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           33
  
```

```

WILD
Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 34
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           34
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name: VCC75/C39
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 35
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           35
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 36
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           36
  
```

```

WILD
Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 37
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           37
  
```

```

WILD
Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 38
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           38
  
```

```

WILD
Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 39
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           39
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 40
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           40
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 41
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           41
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 42
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           42
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 43
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           43
  
```

```

WILD
Sex: Female
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 44
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           44
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 45
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           45
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE (dead)
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 46
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           46
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 47
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           47
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 48
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           48
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 49
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           49
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 50
=====
```

WILD

```

      \      /
      \    /
      dam\ /sire
          \ /
           50
  
```

```

WILD
Sex: Male
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

Studbook Number: 51

WILD

Sex: Female
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 52

WILD

Sex: Female
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 53

WILD

```

Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```

Studbook Number: 54

WILD

Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

Studbook Number: 55

WILD

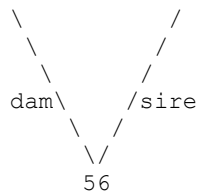
Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

=====

Taxon Name: GYPS INDICUS	Studbook Number: 56
--------------------------	---------------------

=====

WILD



WILD

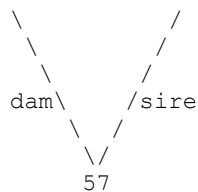
Sex: Male
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

=====

Taxon Name: GYPS INDICUS	Studbook Number: 57
--------------------------	---------------------

=====

WILD



WILD

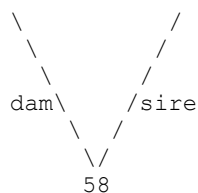
Sex: Unknown
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

=====

Taxon Name: GYPS INDICUS	Studbook Number: 58
--------------------------	---------------------

=====

WILD



WILD

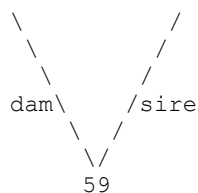
Sex: Male
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

=====

Taxon Name: GYPS INDICUS	Studbook Number: 59
--------------------------	---------------------

=====

WILD



WILD

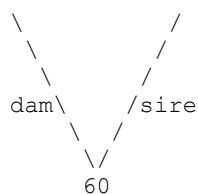
Sex: Male
Hatch Date: ????
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

=====

Taxon Name: GYPS INDICUS	Studbook Number: 60
--------------------------	---------------------

=====

UNK



UNK

Sex: Unknown
Hatch Date: ????
Last Location: PUNE
House Name:
Tattoo:
Tag/Band:


```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 61
=====
```

UNK

```

      \      /
      dam\  /sire
          \  /
           61
  
```

```

UNK
Sex: Unknown
Hatch Date:  ???
Last Location: PUNE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 62
=====
```

WILD

```

      \      /
      dam\  /sire
          \  /
           62
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 63
=====
```

WILD

```

      \      /
      dam\  /sire
          \  /
           63
  
```

```

WILD
Sex: Unknown
Hatch Date:  ???
Last Location: PINJORE
House Name: VCC138/C99
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 64
=====
```

WILD

```

      dam\  /sire
          \  /
           10  +
  
```

WILD

```

      \      /
      dam\  /sire
          \  /
           64
  
```

WILD

```

      dam\  /sire
          \  /
           3  +
  
```

WILD

```

Sex: Female
Hatch Date:  3 Feb 2010
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 65
=====
```

WILD

```

      dam\  /sire
          \  /
           7  +
  
```

WILD

```

      \      /
      dam\  /sire
          \  /
           65
  
```

WILD

```

      dam\  /sire
          \  /
           1  +
  
```

WILD

```

Sex: Female
Hatch Date:  8 Feb 2010
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 66
=====
```

```

WILD      WILD      WILD      WILD
  dam\    /sire    dam\    /sire
   \  /      \  /      \  /      \  /
    8  +      18  +
                   Sex: Male
                   Hatch Date: 10 Feb 2010
                   Last Location: PINJORE
                   House Name:
                   Tattoo:
                   Tag/Band:

      dam\    /sire
       \  /
        66

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 67
=====
```

```

WILD      WILD
      dam\    /sire
       \  /
        67
                   Sex: Unknown
                   Hatch Date: ???
                   Last Location: JUNAGADH
                   House Name:
                   Tattoo:
                   Tag/Band:

```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 68
=====
```

```

WILD      WILD
      dam\    /sire
       \  /
        68
                   Sex: Unknown
                   Hatch Date: ~ 2009
                   Last Location: SHILLONG
                   House Name:
                   Tattoo:
                   Tag/Band:

```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 69
=====
```

```

WILD      WILD
      dam\    /sire
       \  /
        69
                   Sex: Unknown
                   Hatch Date: ???
                   Last Location: JUNAGADH
                   House Name:
                   Tattoo:
                   Tag/Band:

```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 70
=====
```

```

WILD      WILD      WILD      WILD
  dam\    /sire    dam\    /sire
   \  /      \  /      \  /      \  /
    9  +      6  +
                   Sex: Unknown
                   Hatch Date: 20 Jan 2012
                   Last Location: PINJORE
                   House Name:
                   Tattoo:
                   Tag/Band:

      dam\    /sire
       \  /
        70

```

+ Wild-caught...


```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 75
=====
```

```

WILD      dam\      WILD      dam\      WILD      dam\      WILD      dam\
           \  /      \  /      \  /      \  /
            \ /        \ /        \ /        \ /
             13      +          11      +
                               Sex: Unknown
                               Hatch Date: 3 Mar 2012
                               Last Location: PINJORE
                               House Name:
                               Tattoo:
                               Tag/Band:

           \  /      \  /
            \ /        \ /
             13      +          75

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 76
=====
```

```

WILD      dam\      WILD      dam\      WILD      dam\      WILD      dam\
           \  /      \  /      \  /      \  /
            \ /        \ /        \ /        \ /
             42      +          33      +
                               Sex: Unknown
                               Hatch Date: 15 Mar 2012
                               Last Location: PINJORE
                               House Name:
                               Tattoo:
                               Tag/Band:

           \  /      \  /
            \ /        \ /
             42      +          76

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 77
=====
```

```

      UNK      UNK
           \  /      \  /
            \ /        \ /
             77

```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 78
=====
```

```

      WILD      WILD
           \  /      \  /
            \ /        \ /
             78

```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 79
=====
```

```

      WILD      WILD
           \  /      \  /
            \ /        \ /
             79

```

=====

Taxon Name: GYPS INDICUS	Studbook Number: 80
--------------------------	---------------------

=====

WILD

```

      \      /
      dam\  /sire
          \ /
           80
  
```

WILD

Sex: Unknown
Hatch Date: ????

Last Location: JUNAGADH

House Name:
Tattoo:
Tag/Band:

=====

Taxon Name: GYPS INDICUS	Studbook Number: 81
--------------------------	---------------------

=====

WILD

```

      dam\  /sire
          \ /
           9  +
  
```

WILD

WILD

WILD

```

      dam\  /sire
          \ /
           6  +
  
```

```

      \      /
      dam\  /sire
          \ /
           81
  
```

Sex: Unknown
Hatch Date: 20 Jan 2013

Last Location: PINJORE

House Name:
Tattoo:
Tag/Band:

+ Wild-caught...

=====

Taxon Name: GYPS INDICUS	Studbook Number: 82
--------------------------	---------------------

=====

WILD

```

      dam\  /sire
          \ /
          13  +
  
```

WILD

WILD

WILD

```

      dam\  /sire
          \ /
          11  +
  
```

```

      \      /
      dam\  /sire
          \ /
           82
  
```

Sex: Unknown
Hatch Date: 3 Feb 2013

Last Location: PINJORE

House Name:
Tattoo:
Tag/Band:

+ Wild-caught...

=====

Taxon Name: GYPS INDICUS	Studbook Number: 83
--------------------------	---------------------

=====

WILD

```

      dam\  /sire
          \ /
          17  +
  
```

WILD

WILD

WILD

```

      dam\  /sire
          \ /
           5  +
  
```

```

      \      /
      dam\  /sire
          \ /
           83
  
```

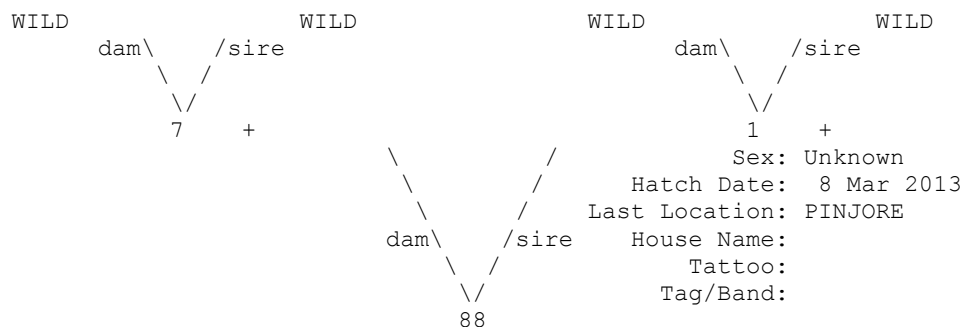
Sex: Unknown
Hatch Date: 4 Feb 2013

Last Location: PINJORE

House Name:
Tattoo:
Tag/Band:

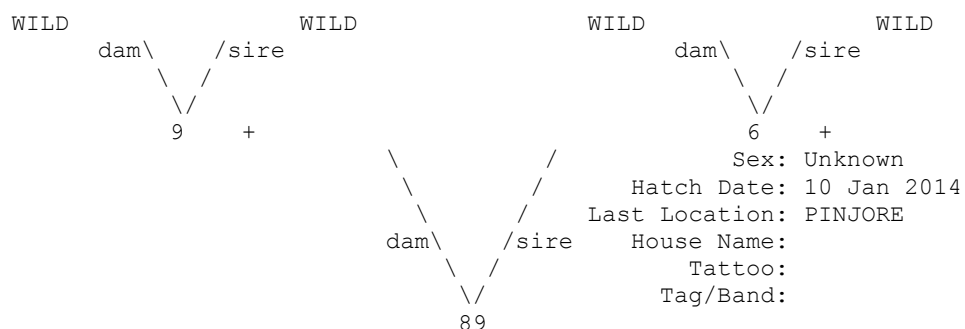
+ Wild-caught...

Studbook Number: 88



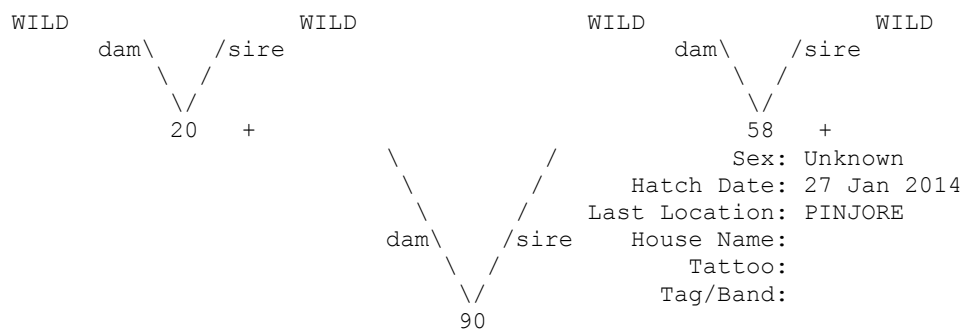
+ Wild-caught...

Studbook Number: 89



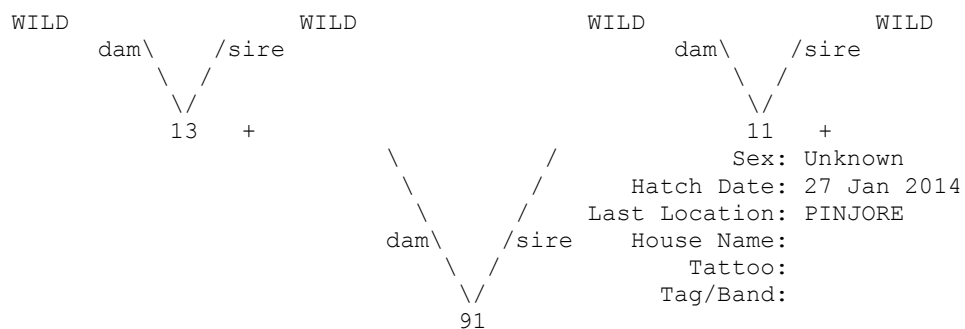
+ Wild-caught...

Studbook Number: 90



+ Wild-caught...

Studbook Number: 91



+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 92
=====
```

```

WILD      dam\      /sire      WILD      WILD      dam\      /sire      WILD
          \  /          \  /          \  /          \  /
           \ /            \ /            \ /            \ /
            10      +            3      +
                                Sex: Unknown
                                Hatch Date: 30 Jan 2014
                                Last Location: PINJORE
                                House Name:
                                Tattoo:
                                Tag/Band:

                                \  /
                                 \ /
                                92

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 93
=====
```

```

WILD      dam\      /sire      WILD      WILD      dam\      /sire      WILD
          \  /          \  /          \  /          \  /
           \ /            \ /            \ /            \ /
            30      +            59      +
                                Sex: Unknown
                                Hatch Date: 30 Jan 2014
                                Last Location: PINJORE
                                House Name:
                                Tattoo:
                                Tag/Band:

                                \  /
                                 \ /
                                93

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 94
=====
```

```

WILD      dam\      /sire      WILD      WILD      dam\      /sire      WILD
          \  /          \  /          \  /          \  /
           \ /            \ /            \ /            \ /
            52      +            36      +
                                Sex: Unknown
                                Hatch Date: 6 Feb 2014
                                Last Location: PINJORE
                                House Name:
                                Tattoo:
                                Tag/Band:

                                \  /
                                 \ /
                                94

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 95
=====
```

```

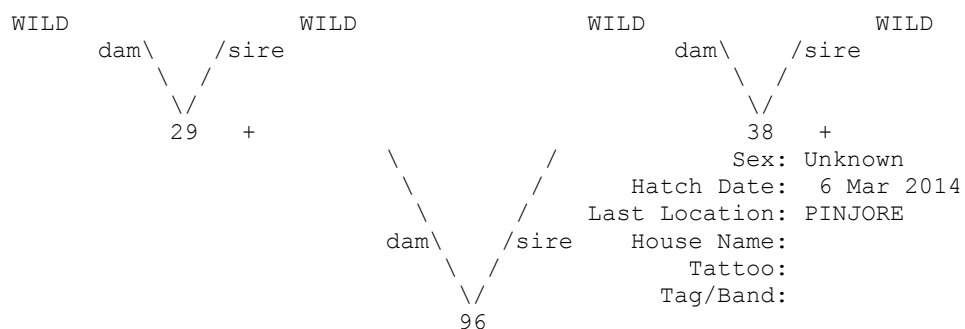
WILD      dam\      /sire      WILD      WILD      dam\      /sire      WILD
          \  /          \  /          \  /          \  /
           \ /            \ /            \ /            \ /
            22      +            50      +
                                Sex: Unknown
                                Hatch Date: 15 Feb 2014
                                Last Location: PINJORE
                                House Name:
                                Tattoo:
                                Tag/Band:

                                \  /
                                 \ /
                                95

```

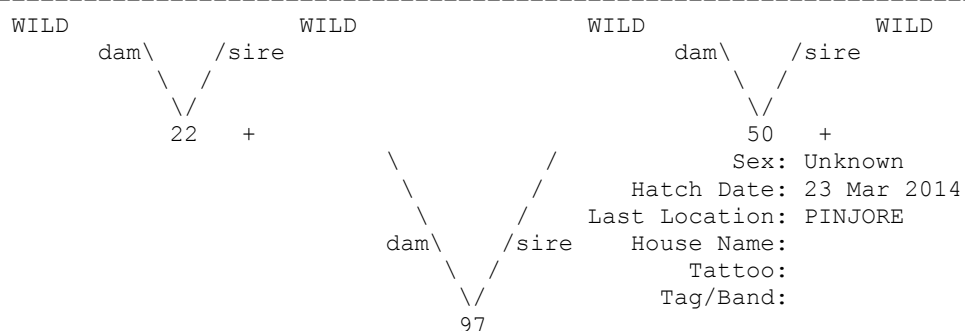
+ Wild-caught...


```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 96
=====
```



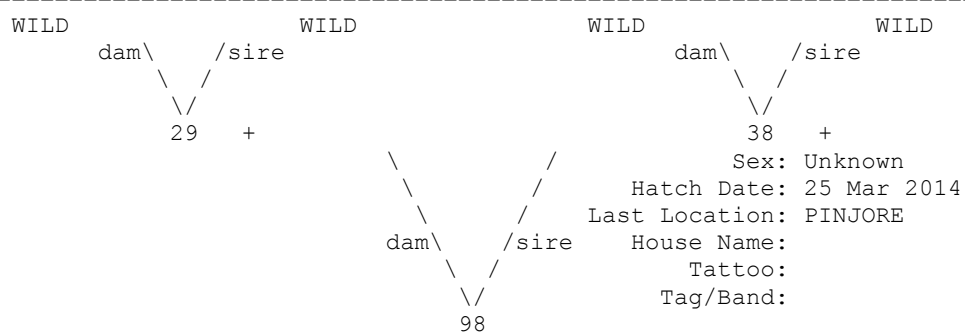
+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 97
=====
```



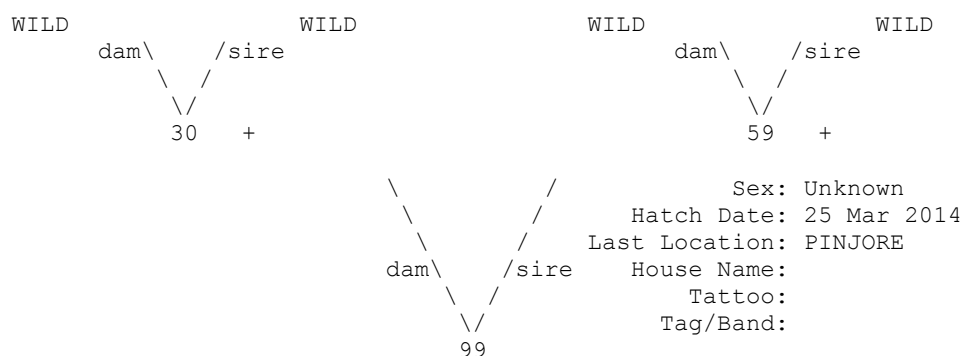
+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 98
=====
```



+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 99
=====
```



+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 100
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          52  +
              \
              dam\  /sire
              /      \
              100
              \
              dam\  /sire
              /      \
              36  +
              \
              Sex: Unknown
              Hatch Date: 26 Mar 2014
              Last Location: PINJORE
              House Name:
              Tattoo:
              Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 101
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          20  +
              \
              dam\  /sire
              /      \
              101
              \
              dam\  /sire
              /      \
              58  +
              \
              Sex: Unknown
              Hatch Date: 8 Apr 2014
              Last Location: PINJORE
              House Name:
              Tattoo:
              Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 102
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          102
          \
          dam\  /sire
          /      \
          102
          \
          dam\  /sire
          /      \
          Sex: Unknown
          Hatch Date: ???
          Last Location: SHILLONG
          House Name:
          Tattoo:
          Tag/Band:

```

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 103
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          9  +
              \
              dam\  /sire
              /      \
              103
              \
              dam\  /sire
              /      \
              25  +
              \
              Sex: Unknown
              Hatch Date: 15 Jan 2015
              Last Location: PINJORE
              House Name:
              Tattoo:
              Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 104
=====
```

```

WILD      dam\      /sire      WILD      dam\      /sire      WILD      dam\      /sire      WILD
          \  /          \  /          \  /          \  /          \  /          \  /
           \ /            \ /            \ /            \ /            \ /            \ /
            20      +            58      +            Sex: Unknown
                                     Hatch Date: 22 Jan 2015
                                     Last Location: PINJORE
                                     House Name:
                                     Tattoo:
                                     Tag/Band:
                                     +
                                     \  /
                                      \ /
                                       104

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 105
=====
```

```

WILD      dam\      /sire      WILD      dam\      /sire      WILD      dam\      /sire      WILD
          \  /          \  /          \  /          \  /          \  /          \  /
           \ /            \ /            \ /            \ /            \ /            \ /
            30      +            59      +            Sex: Unknown
                                     Hatch Date: 26 Jan 2015
                                     Last Location: PINJORE
                                     House Name:
                                     Tattoo:
                                     Tag/Band:
                                     +
                                     \  /
                                      \ /
                                       105

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 106
=====
```

```

WILD      dam\      /sire      WILD      dam\      /sire      WILD      dam\      /sire      WILD
          \  /          \  /          \  /          \  /          \  /          \  /
           \ /            \ /            \ /            \ /            \ /            \ /
            42      +            33      +            Sex: Unknown
                                     Hatch Date: 28 Jan 2015
                                     Last Location: PINJORE
                                     House Name:
                                     Tattoo:
                                     Tag/Band:
                                     +
                                     \  /
                                      \ /
                                       106

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 107
=====
```

```

WILD      dam\      /sire      WILD      dam\      /sire      WILD      dam\      /sire      WILD
          \  /          \  /          \  /          \  /          \  /          \  /
           \ /            \ /            \ /            \ /            \ /            \ /
            20      +            58      +            Sex: Unknown
                                     Hatch Date: 30 Jan 2015
                                     Last Location: PINJORE
                                     House Name:
                                     Tattoo:
                                     Tag/Band:
                                     +
                                     \  /
                                      \ /
                                       107

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 108
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          13  +
              \
              \
              dam\      /
              /sire
              \
              108

          Sex: Unknown
          Hatch Date: 30 Jan 2015
          Last Location: PINJORE
          House Name:
          Tattoo:
          Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 109
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          10  +
              \
              \
              dam\      /
              /sire
              \
              109

          Sex: Unknown
          Hatch Date: 30 Jan 2015
          Last Location: PINJORE
          House Name:
          Tattoo:
          Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 110
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          29  +
              \
              \
              dam\      /
              /sire
              \
              110

          Sex: Unknown
          Hatch Date: 17 Feb 2015
          Last Location: PINJORE
          House Name:
          Tattoo:
          Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 111
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          43  +
              \
              \
              dam\      /
              /sire
              \
              111

          Sex: Unknown
          Hatch Date: 19 Feb 2015
          Last Location: PINJORE
          House Name:
          Tattoo:
          Tag/Band:

```

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 112
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          51  +
              \
              \
              dam\      WILD
                /sire
                \
                112
    
```

Sex: Unknown
 Hatch Date: 20 Feb 2015
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 113
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          10  +
              \
              \
              dam\      WILD
                /sire
                \
                113
    
```

Sex: Unknown
 Hatch Date: 5 Mar 2015
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 114
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          13  +
              \
              \
              dam\      WILD
                /sire
                \
                114
    
```

Sex: Unknown
 Hatch Date: 5 Mar 2015
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 115
=====
```

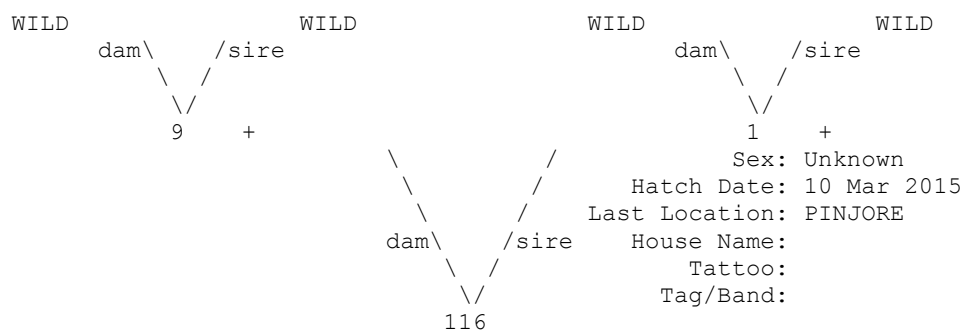
```

WILD      dam\      WILD      WILD      dam\      WILD
          /sire
          \
          9  +
              \
              \
              dam\      WILD
                /sire
                \
                115
    
```

Sex: Unknown
 Hatch Date: 9 Mar 2015
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

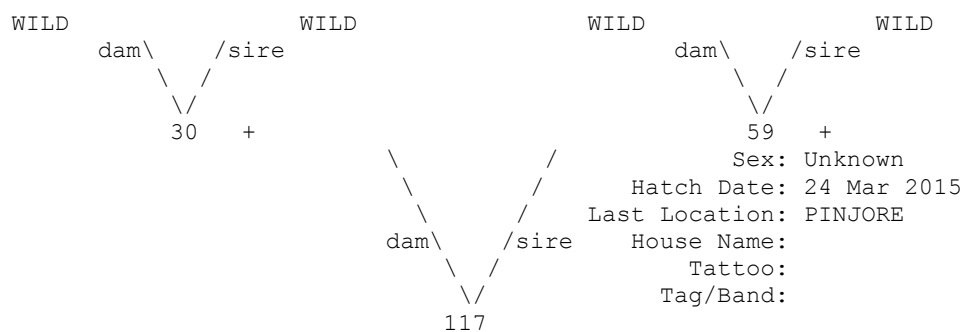
+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 116
=====
```



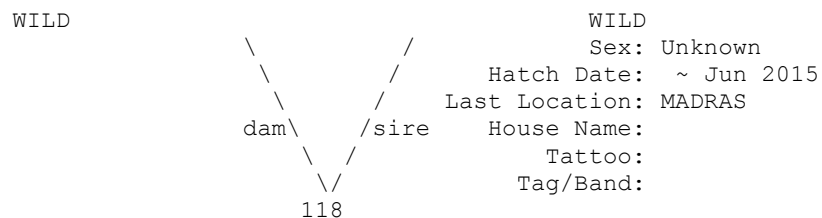
+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 117
=====
```

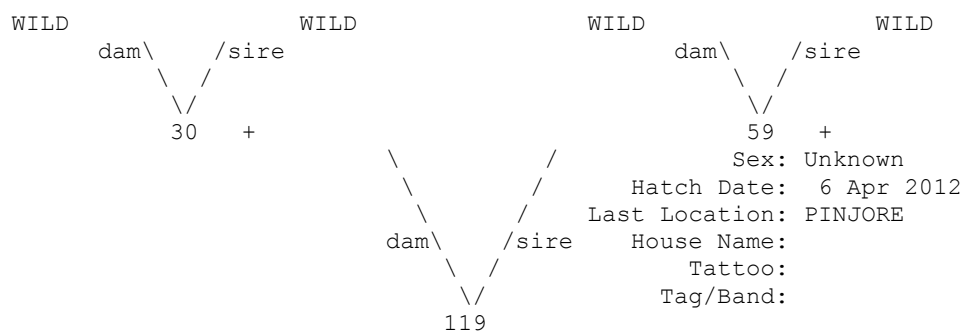


+ Wild-caught...

```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 118
=====
```



```
=====
Taxon Name: GYPS INDICUS                      Studbook Number: 119
=====
```



+ Wild-caught...

Population of Slender-billed vulture (*Gyps tenuirostris*) in Indian Zoos

Stud# Local ID Tag/Band	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
1 A50	M	~ 2002	WILD	WILD	ASSAM PINJORE	~ 1 Sep 2005 ~10 Sep 2005	Capture Transfer	
2 A52	F	~ 1995	WILD	WILD	INDIA PINJORE	~15 Dec 2005 21-Dec-05	Capture Transfer	
3 A51	?	~ 1996	WILD	WILD	INDIA PINJORE	~ 1 Dec 2005 26-Dec-05	Capture Transfer	
4 A53	F	~ 1996	WILD	WILD	INDIA PINJORE	~ 1 Dec 2005 31-Dec-05	Capture Transfer	
5 A55	M	~ 1997	WILD	WILD	INDIA PINJORE	~ 1 Jan 2006 05-Jan-06	Capture Transfer	
6 A56	F	~ Apr 1996	WILD	WILD	INDIA PINJORE	~25 Dec 2005 05-Jan-06	Capture Transfer	
7 A57	?	~ Apr 1996	WILD	WILD	INDIA PINJORE	~25 Dec 2005 09-Jan-06	Capture Transfer	
8 A58	M	~ Apr 1996	WILD	WILD	INDIA PINJORE	~25 Dec 2005 09-Jan-06	Capture Transfer	
9 A59	?	~ Apr 1996	WILD	WILD	INDIA PINJORE	~ 1 Jan 2006 22-Jan-06	Capture Transfer	
10 A60	F	~ Apr 1996	WILD	WILD	INDIA PINJORE	~ 2 Jan 2006 28-Jan-06	Capture Transfer	Listed as Sire of Stud# 14 in Taxon report
11 A61	M	~ May 1996	WILD	WILD	INDIA PINJORE	~25 Jan 2006 03-Feb-06	Capture Transfer	
12 A63	M	~ 2005	WILD	WILD	INDIA PINJORE	~20 Jan 2006 ~ 3 Feb 2006	Capture Transfer	
13 A64	F	~ Jun 1998	WILD	WILD	INDIA PINJORE	~25 Feb 2006 04-Mar-06	Capture Transfer	
14 VCC146	?	16-Feb-10	UNK	2	PINJORE	16-Feb-10	Hatch	Sire Stud# 10 (A60) a female as per Taxon report
15 VCC137	?	23-Feb-09	UNK	2	PINJORE	23-Feb-09	Hatch	
16 A62	?	~ May 1998	WILD	WILD	INDIA PINJORE	~ 2 Jan 2010 25-Feb-10	Capture Transfer	
17 VCC137	?	25-Feb-10	5	4	PINJORE	25-Feb-10	Hatch	
18 VCC145	?	08-Mar-10	8	13	PINJORE	08-Mar-10	Hatch	
19 VCC180	?	20-Feb-12	8	13	PINJORE	20-Feb-12	Hatch	
20 VCC181	?	07-Apr-12	11	2	PINJORE	07-Apr-12	Hatch	
21 VCC201	?	11-Feb-13	11	2	PINJORE	11-Feb-13	Hatch	
22 E17	?	20-Feb-13	1	6	PINJORE	20-Feb-13	Hatch	
23 E12	?	28-Feb-13	12	10	PINJORE	28-Feb-13	Hatch	
24 H07	?	08-Feb-14	8	13	PINJORE	08-Feb-14	Hatch	

Stud# Local ID Tag/Band	Sex	Hatch Date	Sire	Dam	Location	Date	Event	Comments
25 H49	?	09-Feb-15	8	13	PINJORE	09-Feb-15	Hatch	
26 H47	?	10-Feb-15	1	6	PINJORE	10-Feb-15	Hatch	
27 H50	?	05-Mar-15	12	10	PINJORE	05-Mar-15	Hatch	
TOTALS: 5.5.1 7 (27)								

Pedigree Charts of Slender-billed vulture (*Gyps tenuirostris*) in Indian Zoos

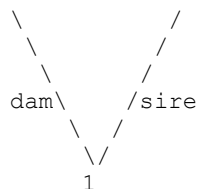
=====

Taxon Name: GYPS TENUIROSTRIS	Studbook Number: 1
-------------------------------	--------------------

=====

WILD

WILD



Sex: Male
 Hatch Date: ~ 2002
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

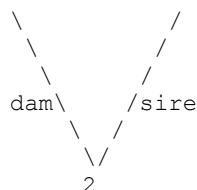
=====

Taxon Name: GYPS TENUIROSTRIS	Studbook Number: 2
-------------------------------	--------------------

=====

WILD

WILD



Sex: Female
 Hatch Date: ~ 1995
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

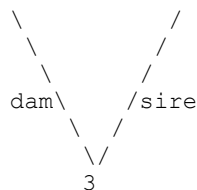
=====

Taxon Name: GYPS TENUIROSTRIS	Studbook Number: 3
-------------------------------	--------------------

=====

WILD

WILD



Sex: Unknown
 Hatch Date: ~ 1996
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

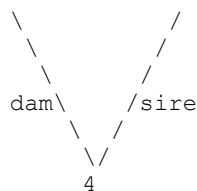
=====

Taxon Name: GYPS TENUIROSTRIS	Studbook Number: 4
-------------------------------	--------------------

=====

WILD

WILD



Sex: Female
 Hatch Date: ~ 1996
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

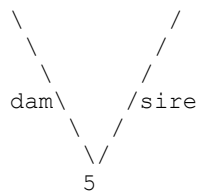
=====

Taxon Name: GYPS TENUIROSTRIS	Studbook Number: 5
-------------------------------	--------------------

=====

WILD

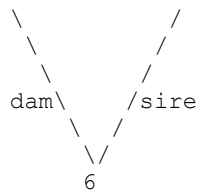
WILD



Sex: Male
 Hatch Date: ~ 1997
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number:      6
=====
```

WILD

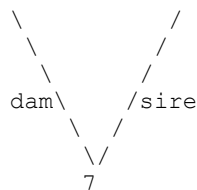


WILD

Sex: Female
Hatch Date: ~ Apr 1996
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number:      7
=====
```

WILD

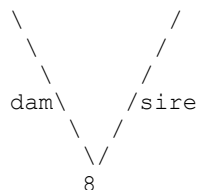


WILD

Sex: Unknown
Hatch Date: ~ Apr 1996
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number:      8
=====
```

WILD

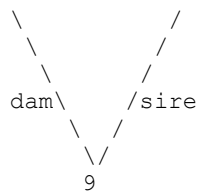


WILD

Sex: Male
Hatch Date: ~ Apr 1996
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number:      9
=====
```

WILD

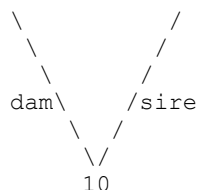


WILD

Sex: Unknown
Hatch Date: ~ Apr 1996
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number:     10
=====
```

WILD



WILD

Sex: Female
Hatch Date: ~ Apr 1996
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 11
=====
```

WILD

```

      \      /
      dam\  /sire
          \ /
           11
  
```

```

WILD
Sex: Male
Hatch Date: ~ May 1996
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 12
=====
```

WILD

```

      \      /
      dam\  /sire
          \ /
           12
  
```

```

WILD
Sex: Male
Hatch Date: ~ 2005
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 13
=====
```

WILD

```

      \      /
      dam\  /sire
          \ /
           13
  
```

```

WILD
Sex: Female
Hatch Date: ~ Jun 1998
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 14
=====
```

WILD

```

      dam\  /sire
          \ /
           2
  
```

WILD

```

      \      /
      dam\  /sire
          \ /
           14
  
```

```

UNK
Sex: Unknown
Hatch Date: 23 Feb 2009
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

+ Wild-caught...

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 15
=====
```

WILD

```

      \      /
      dam\  /sire
          \ /
           15
  
```

```

WILD
Sex: Unknown
Hatch Date: ~ May 1998
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:
  
```

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 16
=====
```

WILD dam\ /sire WILD

2 +

dam\ /sire
16

UNK
Sex: Unknown
Hatch Date: 16 Feb 2010
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 17
=====
```

WILD dam\ /sire WILD

4 +

dam\ /sire
17

WILD dam\ /sire WILD
5 +
Sex: Unknown
Hatch Date: 25 Feb 2010
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 18
=====
```

WILD dam\ /sire WILD

13 +

dam\ /sire
18

WILD dam\ /sire WILD
8 +
Sex: Unknown
Hatch Date: 8 Mar 2010
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 19
=====
```

WILD dam\ /sire WILD

13 +

dam\ /sire
19

WILD dam\ /sire WILD
8 +
Sex: Unknown
Hatch Date: 20 Feb 2012
Last Location: PINJORE
House Name:
Tattoo:
Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 20
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
      \  /sire
      \  /
      2  +
      \  /
      \  /sire
      \  /
      20

```

Sex: Unknown
 Hatch Date: 7 Apr 2012
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 21
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
      \  /sire
      \  /
      2  +
      \  /
      \  /sire
      \  /
      21

```

Sex: Unknown
 Hatch Date: 11 Feb 2013
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 22
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
      \  /sire
      \  /
      6  +
      \  /
      \  /sire
      \  /
      22

```

Sex: Unknown
 Hatch Date: 20 Feb 2013
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

```
=====
Taxon Name: GYPS TENUIROSTRIS                      Studbook Number: 23
=====
```

```

WILD      dam\      WILD      WILD      dam\      WILD
      \  /sire
      \  /
      10 +
      \  /
      \  /sire
      \  /
      23

```

Sex: Unknown
 Hatch Date: 28 Feb 2013
 Last Location: PINJORE
 House Name:
 Tattoo:
 Tag/Band:

+ Wild-caught...

Location Glossary for Vulture (*Gyps spp.*) in Indian Zoos

Sl.	Mnemonic	Zoo details
1.	AHMEDABAD	Kamla Nehru Zoological Garden, Kankaria, Ahmedabad – 380 008, Gujarat.
2.	GANDHINAG	Indroda Nature Park, Sector-7, Gandhi Nagar – 382 007, Gujarat.
3.	GUJARAT	Mnemonic used for wild origin birds captured from various parts of Gujarat State
4.	HYDERABAD	Nehru Zoological Park, Bahadur Pura, Hyderabad – 500 064, Telangana
5.	INDIA	Mnemonic used for wild origin birds captured from various parts of India, but outside Gujarat State
6.	MADRAS	Arignar Anna Zoological Park, Vandalur, Chennai – 600 048, Tamil Nadu.
7.	NANDANKAN	Nandankanan Biological Park, Mayur Bhavan, Janpath, 251, Sahid Nagar, Bhubaneswar – 751 007, Odisha
8.	PUNE	Rajiv Gandhi Zoological Park & Wildlife Research Centre, Satara Road, Opposite Katraj Dairy, Katraj, Pune – 411 046 (Maharashtra).
9.	RAMNA	Ramnabagan Mini Zoo, Burdwan Forest Division, Golapbug, P.O. – Rajbati, Burdwan – 713 104, West Bengal.
10.	JUNAGADH	Sakkarbaug Zoo, Outside Of Majevali Gate, Rajkot Road, Junagarh – 362 003, Gujarat
11.	SEPAHIJAL	Sepahijala Zoological Park, P.O. Vishalgarh, Distt. Tripura (West), Agartala – 799 012.
12.	SHILLONG	Lady Hydari Park Animal Land (Meghalaya Zoo), Khasi Hills Wildlife Division, Shillong. Meghalaya - 793 001.
13.	UDAIPUR	Sajjangerh Biological Park (Udaipur Zoo), Wildlife Division, Udaipur – 313 001, Rajasthan.
14.	PINJORE	Vulture Conservation Breeding Centre, B-3, Forest Complex, Pinjore – 134 102, Haryana.